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A complete INDEX by Presenter, Institution and Subject can be found at the NCUR 2014 website. [http://www.cur.org/ncur_2014/](http://www.cur.org/ncur_2014/)
Thank you to our sponsors.
## Schedule of Events

* For all locations see maps in back of program.

### Wednesday, April 2
- **4:00pm-8:00pm** Registration
  - *Student Center Grand Ballroom*
- **7:00am-4:00pm** Registration
  - *Student Center Grand Ballroom*
- **9:00am-10:30am** Opening and Plenary 1 - Lyons
  - *Singletary Center Concert Hall*
- **11:00am-12:00pm** SESSION 1
  - Oral Sessions*
  - Poster Sessions
  - *Memorial Coliseum*
  - Performing and Visual Arts Sessions
  - *Singletary Center and Fine Arts Bldg.*
- **12:00pm-2:00pm** Lunch
- **12:30pm-1:30pm** FAN Sessions 1
  - *Student Center*
- **1:00pm-6:00pm** Graduate/Professional School Fair
  - *Memorial Coliseum*
- **2:00pm-3:00pm** SESSION 2
  - Oral Sessions*
  - Poster Sessions
  - *Memorial Coliseum*
  - Performing and Visual Arts Sessions
  - *Singletary Center and Fine Arts Bldg.*
  - Student Interest Session
  - *Student Center, room 230*
- **3:30pm-4:30pm** SESSION 3
  - Oral Sessions*
  - Poster Sessions
  - *Memorial Coliseum*
  - Performing and Visual Arts Sessions
  - *Singletary Center and Fine Arts Bldg.*
  - Student Interest Session
  - *Student Center, room 230*
- **4:00pm-6:00pm** UK Departmental Open Houses*
- **4:00pm-6:00pm** NCUR Student Art Reception
  - *Fine Arts Bldg., room 108*
- **6:30pm-9:30pm** Plenary 2 - Kimel
  - Kentucky Proud Dinner
  - *Lexington Center*

### Thursday, April 3
- **7:00am-9:00am** Breakfast
  - *Student Center Grand Ballroom*
- **9:00am-10:30am** SESSION 2
  - Oral Sessions*
  - Poster Sessions
  - *Memorial Coliseum*
  - Performing and Visual Arts Sessions
  - *Singletary Center and Fine Arts Bldg.*
  - Student Interest Session
  - *Student Center, room 230*
- **12:00pm-2:00pm** Lunch
- **12:30pm-1:30pm** FAN Session 2
  - *Student Center*
- **2:00pm-3:30pm** Plenary 2 - Kimel
  - *Kentucky Proud Dinner*
  - *Lexington Center*

### Friday, April 4
- **7:00am-4:00pm** Registration
  - *Student Center Grand Ballroom*
- **7:00am-9:00am** Breakfast
  - *Student Center Grand Ballroom*
- **8:00am-9:00am** FAN Session 2
  - *Student Center*
- **8:00am-11:30am** Graduate/Professional School Fair
  - *Memorial Coliseum*
- **9:00am-10:00am** SESSION 4
  - Oral Sessions*
  - Poster Sessions
  - *Memorial Coliseum*
  - Performing and Visual Arts Sessions
  - *Singletary Center and Fine Arts Bldg.*
  - Student Interest Session
  - *Student Center, room 230*
- **10:30am-11:30am** SESSION 5
  - Oral Sessions*
  - Poster Sessions
  - *Memorial Coliseum*
  - Performing and Visual Arts Sessions
  - *Singletary Center and Fine Arts Bldg.*
  - Student Interest Session
  - *Student Center, room 230*
- **12:00pm-2:00pm** Lunch
- **12:00pm-6:00pm** Career Gallery
  - *Memorial Coliseum*
- **12:30pm-1:30pm** SESSION 6
  - Poster Presentations
  - *Memorial Coliseum*
- **12:30pm-1:30pm** FAN Session 3
  - *Student Center*
- **2:00pm-3:30pm** Plenary 3 - Finney
  - *Singletary Center Concert Hall*
- **3:30pm-4:30pm** SESSION 7
  - Oral Sessions*
  - Poster Sessions
  - *Memorial Coliseum*
  - Performing and Visual Arts Sessions
  - *Singletary Center and Fine Arts Bldg.*
### Schedule of Events

**Professional Science Master’s Program**

- **Building a career in science through a balanced curriculum**
  - Nanoscale Physics
  - Bioscience Research & Health Policy
  - Space Studies
  - Subsurface Geoscience
  - Environmental Analysis & Decision Making

**profms.rice.edu**

**RICE**

- Rice University • Houston, TX

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(**schedule cont.*)

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<td>C.A.T. Crawl</td>
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<td>9:00pm-11:00pm</td>
<td><strong>Sundy Best Concert - BIG EVENT</strong></td>
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**#NCUR2014**
Acknowledgements

The University of Kentucky extends deep appreciation to:

-The University of Kentucky faculty, staff, and students for their heartfelt and admirable efforts to ensure a successful conference.

-Lexington businesses and residents for their cooperation in welcoming more than 4,000 students and faculty to our campus, city and region.

-Lexington hotels for providing hospitality and assistance to visiting students and faculty.

-All UK teams, offices, units, and local contributors listed below:

Abstract Review Coordinator
Abstract Reviewers
All participating colleges and units
All Team Leaders and Team Members
Bicycle Rental Program Facilitators
Bluegrass Tours transportation company and drivers
Budget Team
Career Gallery Exhibitors
Center for Student Involvement
Chellgren Center for Undergraduate Excellence
Community Engagement
Council on Undergraduate Research
Development Officers and Sponsorship Team
Division of Undergraduate Education
Enrollment Management
Excursions Team
Executive Planning Committee
Faculty Moderators and Coordinators
FAN Session Speakers
Fastsigns, Lexington, KY
Fire, Police and Safety Teams
Graduate and Professional Fair Exhibitors
Graphic Design office
Honors Program
James Archambeault
Legal Office
Lexington Blue Grass Airport
Lexington Center and Hyatt Hotel Teams
Lexington Convention and Visitor’s Bureau
Lexington-Fayette Urban County Government
Map Design Teams
Mobile App and Computer Sciences Group
National Conferences on Undergraduate
Northapps – website development
Office of Institutional Diversity
Office of the President
Office of the Provost
Oral, Posters, Visual Arts and Performing Arts
Physical Plant Divisions
Plenary Speakers, Welcomers and Student Introducers
Program Committee
Public Relations
Registration Team
Research Oversight Committee (NOC)
Sessions Schedulers and Coordinators – Shuttle Services
Society for the Promotion of Undergraduate Research
Sponsors
Stuckert Career Center
Student and Lead Volunteers
Student Center and Dining Services
Student Entertainment Groups
Student Interest Session Speakers and Panel Members
Student Organizations
Student Outreach Team
Sundy Best
Sustainability Team Members
Technical Team - IT
The Grand Reserve

Even if accidentally omitted, we ensure here that we value the contributions of each and every person and group who gave selflessly of their time and effort to make NCUR 2014 a success. It truly “takes a village!”
Welcome

Lexington-Fayette Urban County Government
OFFICE OF THE MAYOR

Jim Gray
Mayor

April, 2014

Hello, everyone,

It is my distinct honor to welcome the 28th National Conference on Undergraduate Research participants to the Horse Capital of the World. You may be interested to know that Lexington was founded in 1775, before the Declaration of Independence, and is the second-largest city in Kentucky. Located in the heart of the Bluegrass region of the state, Lexington has been home to the University of Kentucky since 1865. As Kentucky’s flagship institution, the University plays a critical leadership role in the surrounding community by promoting diversity, inclusion, economic development, and human well-being.

UK and local businesses have collaborated to make this conference a wonderful experience for everyone. Thursday evening downtown will be topped off with a free concert by UK’s Rockats in Triangle Park. The Rockats are a brand-new rock/pop band, one of the first university-sponsored rock/pop bands in the nation. This outdoor concert is a sure bet for finishing the evening with lots of fun and this is just day one.

It is my sincere hope that you enjoy the next 2 ½ days of outstanding professional programs in an exceptional environment and all the excitement and flavors of downtown Lexington in the springtime!

Sincerely,

Jim Gray
Mayor

FOLLOW MAYOR GRAY:

200 East Main Street    •    Lexington, KY 40507    •    (859) 425-2255    •    www.lexingtonky.gov
HORSE CAPITAL OF THE WORLD
Welcome to the University of Kentucky

On behalf of the University of Kentucky family, it is our sincere pleasure to welcome you to the 2014 National Conference on Undergraduate Research (NCUR). Over the next several days, you will engage and explore together with fellow students from across the United States a myriad of new curiosities and ideas.

Undergraduate research and scholarship – the creation of knowledge – is a fundamental component of a multi-faceted higher education. It is an integral part the University of Kentucky’s mission as the state’s flagship and land grant research institution, and the driving purpose of NCUR.

The conference brings together more than 4,000 undergraduate students, mentors and administrators in a unique environment for sharing and celebrating new ideas. It is an opportunity to recognize undergraduate research as an essential part of academia, and the importance of investing in creative scholarship that informs, uplifts, and fuels an innovative global economy.

The interplay between discovery and academics provides a rich educational experience for young scholars. By engaging in collaborative discovery among the next generation of thinkers, NCUR stirs the aspirant pioneer that will address the world’s most intractable problems and create a better future for the communities they touch.

We are proud to welcome you to our campus, and we hope that you will see the best of the University of Kentucky and what it means to “see blue.” Take advantage of your time to build relationships within and across disciplines. The friendships you foster can be the seeds for creativity in the future. Good luck and enjoy the conference.

Sincerely,

Eli Capilouto  Christine Riordan  Eric Monday  Ben Withers
President  Provost  Executive Vice President Of Finance and Administration  Associate Provost, Undergraduate Education
Welcome

The University of Kentucky, Office of Undergraduate Research
Welcomes you to NCUR 2014

“Tell me, and I’ll forget
Show me, and I’ll remember
Involve me, and I’ll understand”

- Chinese proverb

The Office of Undergraduate Research, in association with numerous programs and individuals across UK’s campus, champions and supports undergraduate research for our students – from the Freshman year to graduation. At various points along their research progression, we get the honor of learning in more detail about our students’ research journeys and discoveries. To honor the remarkable achievements of our undergraduate researchers, and those from across the nation, we gather together at NCUR 2014.

While the students are enormously dedicated and talented, their success is highly dependent on yet another factor - the devotion and expertise of their faculty mentors who work side by side with gifted undergraduates to prepare them for the rigors of their chosen careers, and who also work with the Office of Undergraduate Research to help to facilitate research programs. Congratulations to all mentors who promote student success. From the undergraduate student presentations you will see at NCUR®, there will be no doubt that you do, indeed, make a difference.

Please join us in welcoming and congratulating all undergraduate student presenters at this year’s conference who will highlight for you what engaging in undergraduate research and scholarly activity is all about!

Have a wonderful conference!

Diane M. Snow, PhD
Director, Office of Undergraduate Research
Professor and Endowed Chair
UK College of Medicine

Bessie Guerrant
Associate Director
Office of Undergraduate Research
Greetings,

The Council on Undergraduate Research (CUR) is proud to congratulate the more than 4000 scholars participating in the 28th National Conference on Undergraduate Research (NCUR*) on the beautiful University of Kentucky campus. As an NCUR* 2014 participant, you are part of a long cherished tradition, one that annually celebrates and commemorates outstanding research, scholarship, and creative inquiry undertaken by outstanding students and their faculty mentors.

CUR and its affiliated colleges, universities, and individuals share a focus on providing research opportunities for students with faculty at all institutions serving undergraduate students. Serving over 670 institutions and 9500 individuals, CUR is an international organization whose mission is to support the global undergraduate research enterprise. We invite all NCUR* 2014 attendees to stop by the CUR table in Memorial Coliseum and/or the Student Center. We would like to show you how you might join the CUR family. Find us online at (http://www.cur.org).

It is with sincere gratitude that CUR thanks the University of Kentucky for hosting a conference that will be the largest NCUR* to date. Due to the hundreds of dedicated faculty staff and students, NCUR* 2014 will be a truly vibrant, professional, and memorable experience.

Elizabeth Ambos, CUR Executive Officer
Washington, D.C.

As President of CUR, I want to congratulate the students on being accepted to present your work at the National Conference of Undergraduate Research. I also want to thank the University of Kentucky for hosting the conference, opening its doors, and welcoming us home to Kentucky. I also want to thank the members of the NCUR* oversight committee along with the CUR national office staff for their work in helping this conference come together.

When I am at any poster session, the work seems straightforward and clear as it fits into one nice single sheet. However as the students and mentors know, nothing is so easy. The posters, presentations, and performances represent questions and ideas that called to be answered by the researchers and performers. Although the completion of the research or performance is important, it is the process of grappling with ideas in research, and creativity that is equally (if not more) valuable.

The impact undergraduate research, scholarship, and creative activity has on students is profound and the mentoring relationship between faculty and students is one of the most important experiences for students as they prepare for their lives ahead in the professional world and graduate school. I expect that the next places you will appear will be on the frontiers of knowledge, ideas, and commerce.

You represent the best of the outstanding work happening at your home institution. Again, congratulations and welcome to NCUR* and the University of Kentucky.

Julio Rivera
President, Council on Undergraduate Research
Provost and Professor of Geography, Carthage College
Welcome

What is NCUR®?
The National Conference on Undergraduate Research (NCUR®), established in 1987, promotes undergraduate research, scholarship and creative activity in all fields of study through an annual conference for students. The first conference drew more than 400 participants from schools across the country. Now in existence for over twenty-five years, the conference regularly hosts more than 3,000 students and their faculty mentors to present their research through posters, oral presentations, visual arts and performances. In 2011, NCUR® formally merged with the Council on Undergraduate Research (CUR).

Dear NCUR® 2014 Participants,

On behalf of the NCUR® Oversight Committee, it is my pleasure to welcome you to the 28th National Conference for Undergraduate Research (NCUR®) at the University of Kentucky. For the next 2 ½ days, you will be immersed in the largest showcase for outstanding scholars and many of their faculty mentors from across the nation and abroad in all fields of study. I encourage you to take full advantage of all the activities and events offered at NCUR® 2014. This is an opportunity to sharpen your presentation skills, meet new peers and faculty working similar fields and consider publishing your scholarly work in the NCUR® 2014 Proceedings.

To the University of Kentucky, we would like to express our deepest gratitude for all the hard work that has gone into making NCUR® 2014 the largest conference since 1987 when it all began. Hosting over 4000 students, faculty and administrators is no small feat. Therefore, we congratulate you and look forward to the next 2 ½ days on the campus and in the great commonwealth of Kentucky.

Gubbi Sudhakaran,
Chair, NCUR® Oversight Committee
Professor and Chair of Physics
University of Wisconsin, La Crosse

1. Elizabeth Ambos
   (Ex-officio, CUR Executive Officer)
2. Lauren Fowler
   (Psychology Division, NCUR® 2012 Host)
3. Sibdas Ghosh (Executive Board, at-Large Division)
4. Sandra Gregerman (URPD Division)
5. Bessie Guerrant
   (Executive Board, NCUR® 2014 Host)
6. Marilyn Hart (at-Large Division)
7. Mark Harvey (NCUR® 2016 Host)
8. Evelyn Hiatt (Biology Division)
9. Charles Lopez (NCUR® 2015 Host)
10. John Mateja (Executive Board, at-Large Division)
11. Jason Miller (Math & Computer Science Division)
12. Paul Miller (Health & Sciences Division)
13. Dennis Munk (Social Science Division)
14. James Phillips (Chemistry Division)
15. Julio Rivera (CUR President)
16. Jeff Ryan (Geoscience Division)
17. Gubbi Sudhakaran
   (NOC Chair, NCUR® 2013 Host, Physics Division)
18. John Swift (Arts & Humanities Division)
19. Mary Pat Twomey
   (Ex-officio, CUR National Office)
T. Pearse Lyons, PhD is the founder and president of Alltech, a global animal health company that employs more than 1,900 people and has a presence in 113 countries around the world. Alltech, located in the heart of the Bluegrass state, is a global leader in the animal health industry, boasting group sales of more than $400 million. Lyons received the State Export Award for Kentucky and was acknowledged as the leader of one of the top 100 fastest-growing high-tech companies by World Trade Magazine.

Kris W. Kimel is the founder and serves as the President of Kentucky Science and Technology Corporation. Mr. Kimel serves as a Partner of NanoRacks LLC. Mr. Kimel is a leader behind the vision and implementation of Kentucky Space, a nonprofit enterprise focused on the design, development and application of entrepreneurial and educational space platforms. He is also the founder of the international IdeaFestival (IF) a world-class event that attracts leading and highly diverse thinkers from across the nation and around the globe to explore and celebrate innovation, imagination and game-changing ideas.
Nikky Finney was born in South Carolina, within listening distance of the sea. A child of activists, she came of age during the civil rights and Black Arts Movements. At Talladega College, nurtured by Hale Woodruff’s Amistad murals, Finney began to understand the powerful synergy between art and history. Finney has authored four books of poetry: *Head Off & Split* (2011); *The World Is Round* (2003); *Rice* (1995); and *On Wings Made of Gauze* (1985). The John H. Bennett, Jr. Chair in Southern Letters and Literature at the University of South Carolina, Finney also authored *Heartwood* (1997) edited *The Ringing Ear: Black Poets Lean South* (2007), and co-founded the Affrilachian Poets. Finney’s fourth book of poetry, *Head Off & Split* was awarded the 2011 National Book Award for poetry.

Ernest Bailey, PhD is a professor of veterinary science at the University of Kentucky’s Gluck Equine Research Center and coordinator for the USDA Horse Genome collaboration, an international effort by over 100 scientists in 20 countries to define the genome, the DNA sequence, of the domestic horse. With this knowledge, scientists can begin to understand the genetic aspects of equine physiology and disease. Genetic tools have the potential to help researchers find new therapies and treatments for diseases such as laminitis, respiratory diseases, etc.
Lexington, Kentucky is known as the “Horse Capital of the World.” It is a thriving urban center surrounded by world famous horse farms and rolling hills of bluegrass. Lexington was founded in 1775, seventeen years before Kentucky became a state. William McConnell and a group of frontier explorers were camped at a natural spring when word came from nearby Fort Boonesborough that the first battle of the American Revolution had been fought in Lexington, Massachusetts. In honor of the battle, the group named their site “Lexington.”

By 1820, Lexington, Kentucky, was one of the largest and wealthiest towns west of the Allegheny Mountains. So cultured was its lifestyle, our city soon gained the nickname “Athens of the West.”

The NCUR® 2014 logo features a silhouette of one of Lexington’s most famous exports, a Thoroughbred, set against one of the most recognizable features on the University of Kentucky’s campus, the clock tower of Memorial Hall. The logo was designed by Ashley McIntyre.

**Information Tents**

Information tables are staffed throughout the conference at the following locations:
- Lucille Caudill Little Fine Arts Library
- Student Center
- Transportation drop off and pick up points
- Wildcat Plaza

**Campus Volunteers**

Volunteers can be recognized by their T-shirt colors: light blue and yellow.

**Registration**

The Registration table will serve as a destination for attendees with requests or problems that might require a higher level of attention. We will be able to make or edit name badges, assist with scheduling questions or help with any other issues that might require the use of the NCUR® software as a reference.

**NCUR® T-Shirts**

NCUR® T-Shirts that were purchased during the online registration process will be available for pickup at the information booth in the Student Center. T-Shirts can be purchased on-site from the same location.

**Medical Information**

For basic medical care, call the UK Clinic at (859) 257-8562. For emergencies dial 911.

University of Kentucky Medical Center
800 Rose Street
Lexington, KY
(859) 257-1000

**Pharmacies**

University of Kentucky Pharmacy Services
University of Kentucky Chandler Medical Center
800 Rose Street, H110
Lexington, KY 40536-0293
(859) 323-0249

Walgreens (24 hour service)
2290 Nicholasville Road
Lexington, KY 40503
(859) 276-1553
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- Paid stipend for field education for full-time students
- Over 7,000 alumni in 50 states & 36 countries
- Internationally renowned faculty and ground-breaking research
- Founded in 1915 as nation’s first university-affiliated social work school

Master of Science in Social Administration (MSSA)
- Campus-based or Online program options
- 12-month or 16-month Advanced Standing program
- Concentrations in Direct Practice or Community Practice for Social Change
- Direct Practice Specializations in Aging; Alcohol and Other Drug Abuse; Children, Youth and Families; Health; and Mental Health
- Certificates in Gerontology, Global Health, Management and Leadership, and School Social Work
- CSWE-accredited and equivalent to MSW

Master of Nonprofit Organizations (MNO)
- Builds on 25 years of delivering nonprofit management education
- Dual degree option: MSSA/MNO

Doctor of Philosophy in Social Welfare (PhD)
- Expertise in social work theory, research, and education

Take a Closer Look at the Mandel School
Cleveland, Ohio | msass.case.edu | 800.863.6772 | MandelSchool@case.edu
Meals
Note: All locations have vegetarian and gluten-free options. If you indicated any kind of dietary restriction on your registration, please go to the Student Center Grand Ballroom to pick up your meal at the designated table.

*See UK Dining Services Map for locations.

<table>
<thead>
<tr>
<th>Vendor</th>
<th>Location</th>
<th>Hours</th>
<th>Days</th>
<th>Payment</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Breakfast</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grand Ballroom</td>
<td>Student Center</td>
<td>7:00am-9:30am</td>
<td>T,F,S</td>
<td>Show Badge</td>
</tr>
<tr>
<td>Starbucks</td>
<td>Student Center</td>
<td>7:00am-7:00pm</td>
<td>T,F,S</td>
<td>Cash/Credit Card</td>
</tr>
<tr>
<td>Chick-Fil-A</td>
<td>Student Center</td>
<td>7:30am-8:00pm</td>
<td>T,F</td>
<td>Cash/Credit Card</td>
</tr>
<tr>
<td><strong>Snacks</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Concession Stand</td>
<td>Memorial Coliseum (2 carts)</td>
<td>10:00am-4:00pm</td>
<td>T,F</td>
<td>Cash</td>
</tr>
<tr>
<td>Outdoor Kiosk</td>
<td>White Hall Classroom Building (2 carts)</td>
<td>10:00am-4:00pm</td>
<td>T,F</td>
<td>Cash</td>
</tr>
<tr>
<td><strong>Lunch</strong></td>
<td>(Different color each day)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blazer Cafe</td>
<td>Blazer Hall</td>
<td>12:00pm-2:00pm</td>
<td>T,F,S</td>
<td>Ticket</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>All you can eat buffet</td>
</tr>
<tr>
<td>Chick-Fil-A</td>
<td>Student Center</td>
<td>12:00pm-2:00pm</td>
<td>T,F,S</td>
<td>Ticket</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Any sandwich or 8-count nugget; side item and a fountain drink</td>
</tr>
<tr>
<td>Grand Ballroom</td>
<td>Student Center</td>
<td>12:00pm-2:00pm</td>
<td>T,F,S</td>
<td>Ticket</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Hot and Cold Choices</td>
</tr>
<tr>
<td>Intermezzo</td>
<td>Patterson Office Tower</td>
<td>12:00pm-2:00pm</td>
<td>T,F</td>
<td>Ticket</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Any sandwich, salad or hot entrée, one side and a fountain drink</td>
</tr>
<tr>
<td>Panda Express</td>
<td>Student Center</td>
<td>12:00pm-2:00pm</td>
<td>T,F,S</td>
<td>Ticket</td>
</tr>
<tr>
<td></td>
<td>First Floor</td>
<td></td>
<td></td>
<td>2 entrée meal with fountain drink</td>
</tr>
<tr>
<td>Say Cheese</td>
<td>Student Center</td>
<td>12:00pm-2:00pm</td>
<td>T,F</td>
<td>Ticket</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Any sandwich; side item and a fountain drink</td>
</tr>
<tr>
<td>Sbarro</td>
<td>Student Center</td>
<td>12:00pm-2:00pm</td>
<td>T,F,S</td>
<td>Ticket</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 slices of pizza or a pasta entrée; small salad and a fountain drink</td>
</tr>
</tbody>
</table>
### General Information

<table>
<thead>
<tr>
<th>Vendor</th>
<th>Location</th>
<th>Hours</th>
<th>Days</th>
<th>Payment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subway</td>
<td>Student Center</td>
<td>12:00pm-2:00pm</td>
<td>T,F,S</td>
<td>Ticket 12” sub &lt; $6.25 or any 6” sub w/ chips and fountain drink</td>
</tr>
<tr>
<td>Subway Cart</td>
<td>Student Center Patio</td>
<td>12:00pm-2:00pm</td>
<td>T,F</td>
<td>Boxed lunch w/12”sub, cookie, chips and soda Sandwich choices: Ham, Turkey or Italian BMT</td>
</tr>
</tbody>
</table>

### Dinner

<table>
<thead>
<tr>
<th>Dinner</th>
<th>Location</th>
<th>Hours</th>
<th>Days</th>
<th>Payment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bluegrass Ballroom</td>
<td>Lexington Center</td>
<td>6:30pm-9:30pm</td>
<td>T</td>
<td>Ticket Only $20 students $35 non-student</td>
</tr>
<tr>
<td>C.A.T. Crawl</td>
<td>Local Restaurants</td>
<td>6:00pm-9:00pm</td>
<td>F</td>
<td>Cash/Credit Card Discounts at participating restaurants (10-25%)</td>
</tr>
</tbody>
</table>

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**DONT’ JUST COME TO GW**

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Classroom Technology

Equipment and Software
All presentation classrooms will contain the following equipment/software:
- Computer with CD/DVD drive running Windows 7 operating system
- Internet connectivity (wired and wireless)
- An LCD projector
- Microsoft Office 2010
- Program audio
- Media Players:
  - Windows Media Player
  - QuickTime
  - VLC
- Adobe Acrobat Reader
- Browsers:
  - Mozilla Firefox
  - Internet Explorer
  - Chrome

Remember to bring your presentation information on a USB flash drive or CD/DVD.

Wireless Access
Wireless network coverage is available in all campus buildings, but coverage may be limited during large meetings. Please refrain from using personal hot-spots or Wi-Fi tethering as these degrade the experience for everyone.

To Get Connected:
1. View available wireless networks
2. Select ukyedu
3. No password is required

Computer Labs
The University of Kentucky computer labs will be available for NCUR® participants. To log in to a computer:

username: NCUR2014
password: 2014NCUR@uk

To view a map of computer lab locations, go to http://www.uky.edu/ukit/labs/lab-information

Need Technical Help?
Contact our UKIT Service Desk at (859) 218-4357.

Charging Stations Across Campus
You can charge your phone at community locations throughout campus. These chargers have attachments for iPhone, Android, Blackberry, and mini USB.

Charging stations are available in:
- William T. Young Library
- Student Center
- White Hall Classroom Building
- Chem/Phys Building Science Library

Phones must be accompanied while charging.

Printing and Mailing Services

Post Office
White Hall Classroom Building basement

Ricoh Document Service Center
White Hall Classroom Building basement
(859) 257-1813

The Hub-Printing
William T. Young Library
(859) 257-0500

"The faculty were really involved with the community, which was a driving force behind my decision to attend the Brown School."

Nina Parikh, MPH ’13, Teach for America alum
Project manager, Stanford Prevention Research Center

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The University of Kentucky recognizes that in its mission to improve the lives of Kentuckians, one of its greatest challenges is to engage the University community to create policies and programs that will simultaneously advance economic vitality, ecological integrity, and social equity, now and into the future. As such, it calls upon all levels and constituencies of the University to participate in a continuous and ongoing effort to institute the teaching, research, and practice of sustainability and to establish an institutional culture of sustainability.

-Commitment statement from the University of Kentucky Sustainability Policy

In 2012 the University of Kentucky received a Silver rating from the STARS program of the Association for the Advancement of Sustainability in Higher Education. Many of the programs and innovations that contributed to our Silver rating will be on display and available to you during NCUR® 2014. The sections below highlight a number of these efforts. We encourage you to take advantage of these resources during your stay and to be a part of our growing sustainability initiatives.

Recycle Blue
The University of Kentucky offers single-stream recycling for aluminum cans, plastic bottles, office and glossy paper, cardboard and glass bottles in all campus buildings and along major campus pathways. Just look for the blue bins. The University also has a wide variety of programs for diverting less common items from the landfill and operates a surplus property program to reuse or auction everything from office furniture to medical equipment.

Bottle Filling Stations
Inspired by the work of Student Leaders in the UK Student Center, the University has installed more than 100 bottle filling stations across campus and they can now be found in more than 50 campus buildings. The UK Student Center, Whitehall Classroom Building, and the Singletary Center for the Arts all have permanent bottle filling stations that make it convenient and easy to refill your bottle with free, cold, filtered water. Temporary bottle filling stations will be set-up in Memorial Coliseum during NCUR® 2014. See map.

Bicycling
Riding a bicycle is a great way to get around our campus and explore our community. The Wildcat Wheels Bicycle Library has partnered with NCUR® 2014 to provide a limited number of bicycles to NCUR® attendees at no charge. All bikes are equipped with a lock, fenders, and a rear rack. Helmets are available. The University of Kentucky has been awarded Bronze status as a Bicycle Friendly University by the League of American Bicyclists for our growing and connected network of bicycle lanes and paths as well as our innovative programs focused on education, safety, and encouragement.

Energy Conservation
Most of the facilities hosting NCUR® 2014 are connected to sophisticated efforts to reduce the environmental impacts of their operation by reducing energy demand. The University has a long-standing commitment to energy efficiency and conservation and our efforts in these areas have significant environmental and economic benefits. The biggest savings come from the centralized energy management of campus buildings by control centers that are staffed around clock seven days a week. This effort uses a variety of strategies to conserve energy and saves UK more than $3 million a year in electricity costs. These “negawatts” (avoided electricity use) reduced the greenhouse gas emissions of the University by 54,007 metric tons of CO2 equivalent in 2013, a 10% reduction of our carbon footprint. UK has been honing these energy management strategies for decades and continues to develop new approaches to energy saving including a recent $25 million project to upgrade and retrofit equipment in 61 campus buildings, the creation of Empowered.uky.edu, a real-time, web-based energy dashboard and the hiring of an energy engineer charged with maximizing savings with a building-by-building approach.
Transportation

Parking
Driving personal vehicles to campus is discouraged. Parking at the University of Kentucky is very restricted. If you are not staying at a hotel with a shuttle, you have two choices:

Remote On-campus Parking
Location: RV lot near intersection of Alumni Drive and Commonwealth Drive.

A remote parking area has been designated for regional attendees driving to and from home each day at the intersection of Alumni Drive and Commonwealth Drive across from Commonwealth Football Stadium. There is no charge to park in the remote parking area. Disabled attendees who drive in are encouraged to use the remote parking area as all buses are ADA accessible.

Those parking in the remote lot should ride the Lextran Greg Page/Stadium Route buses which pick up at the bus stop on the east side of the lot. Look for a designated sign and volunteer. These buses run from 7:00 am-7:00 pm approximately every 10 minutes. Conference attendees should get off at the bus stop on South Limestone at the base of Administration Drive near the steps to the Main Building. Signs and volunteers at the stop will direct you to the conference registration area a short walk away.

Limited Daily Self-Pay Parking at Structure 5
Location: 409 S. Limestone (entrances on S. Limestone and S. Upper Street)

Visitor rates are $2 for the first hour, $2 for the second hour, $1 for every hour thereafter with a $10 maximum per day. Parking fees are made using three ATM-style central cashier stations, located in Stairwell A on levels 1 and 3. Accessible parking is available on all levels of the structure. Elevators are located in Stairwell A. To enhance convenience, access and safety, pedestrians may use pedways from Stairwell A level 3 across South Limestone to the UK Student Center.

Disability Parking
NCUR® participants with permanent or temporary physical impairments that substantially limit or impair their ability to walk may qualify for disability parking. A campus disability parking permit is required for parking in campus disability spaces. Visitors may have a state issued disability license plate or state issued parking pass, but these are not valid for disability parking on campus.

Shuttles

Daily Shuttles to Campus
All NCUR® participating hotels will provide a daily shuttle to and from campus FREE of charge. Shuttles will run between these hotels and campus approximately every 30 minutes between 6:30am and 7:00pm on Thursday and Friday and between 6:30am and 1:00pm on Saturday. All shuttles will pick up and drop off from Administration Drive right in front of the UK Student Center in the heart of campus.

UK Departmental Open House Shuttles
Shuttles will begin running from Patterson Drive at 3:45pm and will run in (approximately) 10 minute intervals. The shuttles will have a “UK Open House Shuttle” sign prominently displayed in the front passenger window. Student volunteers will be waiting at the shuttle stops to direct you to the Open Houses. See map for a complete listing of the Departmental Open Houses.

Shuttles to Evening Ticketed Events

Thursday Night Plenary Session: “Big Ideas Start at Crazy: Creativity and Innovation for the Future” featuring Kris Kimel
Shuttles from campus to the Lexington Center will depart from Administration Drive every 15 minutes from 6:00-7:00pm. Look for the “Plenary Dinner Shuttle” sign in the passenger side window. After dinner, the hotel shuttles will pick up on Main Street outside of the Lexington Convention Center beginning at 9:00pm. The last shuttles to hotels will depart at 11:00pm.

Friday Night: Sundy Best Concert
Shuttles from campus to The Grand Reserve (903 Manchester Street) will depart from Administration Drive every 15 minutes from 7:45-9:30pm. Look for the “Sundy Best” sign in the passenger side window. After the concert, the hotel shuttles will begin routes to the hotels at 10:00pm. The last shuttles to the hotels will depart at 11:30pm.

Saturday Excursion Shuttles
All four excursions will start loading buses on Patterson Drive outside the Singletary Center at noon. Buses will depart Lexington at 12:30pm. Lunch will be provided on the bus. All excursions will return to Lexington between 5:00pm and 6:00pm. Transportation will be provided back to hotels if needed.
Transportation

Saturday Shuttles to Blue Grass Airport
UK provides complimentary, limited shuttle service to the Lexington Blue Grass Airport on Saturday morning. However, if your hotel provides its own shuttle, you may find that it is more convenient to arrange to use those services. The airport shuttles will depart from the Bowman Wildcat Statue on Avenue of Champions every 30 minutes starting at 9:30am. The last shuttle will depart at 1:00pm.

Luggage Storage Center
All conferees departing from the UK campus to the airport can bring their luggage to UK on the day of departure. Luggage can be stored in room 211 of the UK Student Center starting at 7 a.m. on Saturday, April 5. A ticket will be issued at the time of drop off. This ticket must be provided to retrieve any stored luggage. Please allow ample time to retrieve your luggage prior to departure.

Shuttle Routes

<table>
<thead>
<tr>
<th>Route</th>
<th>Hotel</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Purple</td>
<td>Clarion</td>
<td>1950 Newtown Pike</td>
</tr>
<tr>
<td>Blue</td>
<td>The Campbell House</td>
<td>1375 South Broadway</td>
</tr>
<tr>
<td>Yellow</td>
<td>Courtyard by Marriott</td>
<td>775 Newtown Court</td>
</tr>
<tr>
<td>Green</td>
<td>Embassy Suites</td>
<td>1801 Newton Pike</td>
</tr>
<tr>
<td>Brown</td>
<td>Double Tree Suites</td>
<td>2601 Richmond Road</td>
</tr>
<tr>
<td>Green</td>
<td>Fairfield Inn and Suites</td>
<td>2100 Hackney Place</td>
</tr>
<tr>
<td>Green</td>
<td>Four Points by Sheraton</td>
<td>1938 Stanton Way</td>
</tr>
<tr>
<td>Red</td>
<td>Hilton Downtown</td>
<td>369 West Vine Street</td>
</tr>
<tr>
<td>Red</td>
<td>Hyatt Regency</td>
<td>401 West High Street</td>
</tr>
<tr>
<td>Green</td>
<td>La Quinta Inn</td>
<td>1920 Stanton Way</td>
</tr>
<tr>
<td>Purple</td>
<td>Marriott Griffin Gate Resort</td>
<td>1800 Newtown Pike</td>
</tr>
<tr>
<td>Yellow</td>
<td>Residence Inn</td>
<td>1080 Newtown Pike</td>
</tr>
<tr>
<td>Blue</td>
<td>Spring Hill Suites</td>
<td>863 South Broadway</td>
</tr>
<tr>
<td>Blue</td>
<td>The Inn on Broadway</td>
<td>1301 South Broadway</td>
</tr>
<tr>
<td>Blue</td>
<td>University Inn</td>
<td>1229 South Limestone</td>
</tr>
</tbody>
</table>
Exhibition Featuring Photographer
James Archambeault
Singletary Center for the Arts, President’s Room
8:00am–5:00pm (Thurs. & Fri.) Between Sessions
8:00am–12:00pm (Sat.) Between Sessions

James Archambeault is a Kentucky resident who has worked as an independent photographer specializing in nature and the landscape for over three decades. He has been enjoyed by people around the world, through his six books and annual Kentucky calendar, posters and note cards. He has become Kentucky’s “visual ambassador”, communicating to others the rare beauty that Kentuckians know and love.

Archambeault’s images have appeared in a variety of books, magazines and other publications, including National Geographic, American Heritage Magazine, Time-Life Books and the Smithsonian Guides to Natural America. His photographic prints are exhibited and sold in shows and galleries in the United States and are included in numerous corporate and private collections.

Archambeault is a former Peace Corps Volunteer to the Philippines and holds a B.A. in Communications from Duquesne University in Pennsylvania.

More information about his work is available on his website (http://www.jamesarchambeault.com/).

NCUR® Student Art Reception
Thursday, April 3
4:00pm–6:00pm
TUSKA Center for Contemporary Art
Fine Arts Building, room 108

A catered reception celebrating the artwork of the NCUR® 2014 Fine Arts presenters from every school.
Over 60 program areas.
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### Graduate and Professional School Fair

**Thursday, April 3**
1:00pm – 6:00pm;  
**Friday, April 4**
8:00am – 11:30am  
**Memorial Coliseum Concourse**

Explore over 120 graduate and professional school opportunities within the U.S. and internationally. Representatives will be available to talk with prospective students about higher education opportunities.

#### Participating Schools:

1. **A.T. Still University of Health Sciences**  
   Kirksville, MO
2. **Adelphi University**  
   Garden City, NY
3. **American University of the Caribbean School of Medicine**  
   Coral Gables, FL
4. **Auburn University**  
   Auburn, AL
5. **Binghamton University**  
   Binghamton, NY
6. **Black Hills State University**  
   School of Natural Sciences  
   Spearfish, SD
7. **Boise State University**  
   Biomolecular Sciences PhD Program  
   Boise, ID
8. **Boise State University**  
   Materials Science and Engineering  
   Boise, ID
9. **Campbellsville University**  
   Campbellsville, KY
10. **Carnegie Mellon University**  
    Heinz College  
    Pittsburgh, PA
11. **Case Western Reserve University**  
    Mandel School of Applied Sciences  
    Cleveland, OH
12. **Chapman University**  
    Orange, CA
13. **Cleveland Chiropractic College**  
    Overland Park, KS
14. **Coastal Carolina University**  
    School of Coastal and Marine Systems Science  
    Conway, SC
15. **Des Moines University**  
    Des Moines, IA
16. **Dominican University of California**  
    San Rafael, CA
<table>
<thead>
<tr>
<th></th>
<th>University Name</th>
<th>City, State</th>
</tr>
</thead>
<tbody>
<tr>
<td>17</td>
<td>Drexel University</td>
<td>Philadelphia, PA</td>
</tr>
<tr>
<td>18</td>
<td>Eastern Washington University</td>
<td>Cheney, WA</td>
</tr>
<tr>
<td>19</td>
<td>Emporia State University</td>
<td>Emporia, KS</td>
</tr>
<tr>
<td>20</td>
<td>Evergreen State College</td>
<td>Olympia, WA</td>
</tr>
<tr>
<td>21</td>
<td>Florida International University</td>
<td>Miami, FL</td>
</tr>
<tr>
<td>22</td>
<td>George Washington University</td>
<td>Washington, DC</td>
</tr>
<tr>
<td>23</td>
<td>Hofstra University</td>
<td>Hempstead, NY</td>
</tr>
<tr>
<td>24</td>
<td>Iliff School of Theology</td>
<td>Denver, CO</td>
</tr>
<tr>
<td>25</td>
<td>Indiana University</td>
<td>Bloomington, IN</td>
</tr>
<tr>
<td>26</td>
<td>Indiana University</td>
<td>Bloomington, IN</td>
</tr>
<tr>
<td>27</td>
<td>Iowa State University</td>
<td>Ames, IA</td>
</tr>
<tr>
<td>28</td>
<td>Kansas City University of Medicine and Biosciences</td>
<td>Kansas City, MO</td>
</tr>
<tr>
<td>29</td>
<td>Kentucky State University</td>
<td>Frankfort, KY</td>
</tr>
<tr>
<td>30</td>
<td>Liberty University</td>
<td>Lynchburg, VA</td>
</tr>
<tr>
<td>31</td>
<td>Loyola Marymount University</td>
<td>Los Angeles, CA</td>
</tr>
<tr>
<td>32</td>
<td>Marquette University</td>
<td>Milwaukee, WI</td>
</tr>
<tr>
<td>33</td>
<td>Mayo Clinic</td>
<td>Rochester, MN</td>
</tr>
<tr>
<td>34</td>
<td>Michigan Tech University</td>
<td>Houghton, MI</td>
</tr>
<tr>
<td>35</td>
<td>Milligan College</td>
<td>Milligan College, TN</td>
</tr>
<tr>
<td>36</td>
<td>Morehead State University</td>
<td>Morehead, KY</td>
</tr>
<tr>
<td>37</td>
<td>Murray State University</td>
<td>Murray, KY</td>
</tr>
<tr>
<td>38</td>
<td>National College of Natural Medicine</td>
<td>Portland, OR</td>
</tr>
<tr>
<td>39</td>
<td>New Mexico State University</td>
<td>Las Cruces, NM</td>
</tr>
<tr>
<td>40</td>
<td>New York University</td>
<td>Brooklyn, NY</td>
</tr>
<tr>
<td>41</td>
<td>North Carolina State University</td>
<td>Raleigh, NC</td>
</tr>
<tr>
<td>42</td>
<td>North Dakota State University</td>
<td>Fargo, ND</td>
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<td>43</td>
<td>Northern Arizona University</td>
<td>Flagstaff, AZ</td>
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<tr>
<td>No.</td>
<td>Institution Name</td>
<td>City, State</td>
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<tr>
<td>44</td>
<td>Northern Kentucky University</td>
<td>Highland Heights, KY</td>
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<td>45</td>
<td>Ohio State University</td>
<td>Columbus, OH</td>
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<td>Ohio State University</td>
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</tr>
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<td>47</td>
<td>Oklahoma State University</td>
<td>Stillwater, OK</td>
</tr>
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<td>48</td>
<td>Penn State College of Medicine</td>
<td>Hershey, PA</td>
</tr>
<tr>
<td>49</td>
<td>Portland State University</td>
<td>Portland, OR</td>
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<tr>
<td>50</td>
<td>Purdue University</td>
<td>West Lafayette, IN</td>
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<tr>
<td>51</td>
<td>Rensselaer Polytechnic Institute</td>
<td>Troy, NY</td>
</tr>
<tr>
<td>52</td>
<td>Rosalind Franklin University of Medicine and Science</td>
<td>North Chicago, IL</td>
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<tr>
<td>53</td>
<td>Rosalind Franklin University of Medicine and Science</td>
<td>North Chicago, IL</td>
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<td>70</td>
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71 University of Central Lancashire
Centre for Research Informed Teaching
Lancashire, United Kingdom

72 University of Cincinnati
Graduate School
Cincinnati, OH

73 University of Cincinnati
McMicken College of Arts and Sciences and
College of Engineering
Cincinnati, OH

74 University of Idaho
Moscow, ID

75 University of Illinois
Human and Community Development
Urbana, IL

76 University of Illinois
School of Labor and Employment Relations
Champaign, IL

77 University of Kentucky
College of Arts and Sciences
Lexington, KY

78 University of Kentucky
College of Communication and Information
Lexington, KY

79 University of Kentucky
College of Design
Lexington, KY

80 University of Kentucky
College of Engineering
Lexington, KY

81 University of Kentucky
College of Fine Arts
Lexington, KY

82 University of Kentucky
College of Health Sciences
Lexington, KY

83 University of Kentucky
College of Law
Lexington, KY

84 University of Kentucky
College of Medicine
Lexington, KY

85 University of Kentucky
College of Nursing
Lexington, KY

86 University of Kentucky
College of Pharmacy
Lexington, KY

87 University of Kentucky
College of Social Work
Lexington, KY

88 University of Kentucky
Graduate School
Lexington, KY

89 University of Louisville
Integrated Programs in Biomedical Sciences
Louisville, KY

90 University of Maryland Baltimore
Baltimore, MD

91 University of Maryland School of Medicine
Graduate Program in Life Sciences
Baltimore, MD

92 University of Michigan
School of Information
Ann Arbor, MI

93 University of Minnesota
Graduate School and
Biomedical Sciences Graduate Programs
Minneapolis, MN
94 University of Mississippi
Oxford, MS

95 University of Missouri
Columbia, MO

96 University of North Carolina Chapel Hill
Chapel Hill, NC

97 University of North Carolina Charlotte
Data Science and Business Analytics
Charlotte, NC

98 University of North Dakota
GrandForks, ND

99 University of North Texas
Denton, TX

100 University of Notre Dame
Notre Dame, IN

101 University of Oregon
Planning Public Policy Management
Eugene, OR

102 University of Pittsburgh
School of Health and Rehabilitation Sciences
Pittsburgh, PA

103 University of Pittsburgh
School of Nursing
Pittsburgh, PA

104 University of Pittsburgh
School of Public Health
Pittsburgh, PA

105 University of Pittsburgh
School of Social Work
Pittsburgh, PA

106 University of Saskatchewan
Saskatchewan, Canada

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Doctor of Osteopathic Medicine

Doctor of Podiatric Medicine

Doctor of Physical Therapy

Master of Science in
Physician Assistant Studies

Master of Health Care Administration

Master of Public Health

Master of Science in
Biomedical Sciences

Master of Science in Anatomy

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Events

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Events

107  University of South Carolina
     School of Library and Information Science
     Columbia, SC

108  University of Southern California
     Viterbi School of Engineering
     Los Angeles, CA

109  University of Tennessee
     College of Agricultural Sciences and Natural Resources
     Knoxville, TN

110  University of Texas at Arlington
     Arlington, TX

111  University of the Sciences
     Philadelphia, PA

112  University of Tulsa
     Tulsa, OK

113  University of Wisconsin Milwaukee
     Milwaukee, WI

114  Van Andel Institute
     GrandRapids, MI

115  Washington University in St. Louis
     St.Louis, MO

116  Wayne State University School of Medicine
     Biochemistry Molecular Biology and
     College of Engineering
     Detroit, MI

117  West Chester University
     WestChester, PA

118  West Virginia University
     Graduate Enrollment and College of Engineering
     Morgantown, WV

119  Western Kentucky University
     Bowling Green, KY

120  Western State Colorado
     Environment and Sustainability
     Gunnison, CO

Career Gallery
Friday, April 4
12:00pm-6:00pm
Memorial Coliseum Concourse

We are excited to introduce the inaugural Career Gallery, NCUR’s first job fair. Representatives will be available to speak to employers about career options. For the most up-to-date information, please visit our website.

#NCUR2014
The University of Texas at Arlington is:

- An educational leader in the center of the Dallas-Fort Worth Metroplex.
- The 2nd largest institution in the University of Texas System and home to over 34,000 students.
- One of the most incredible learning environments in Texas with 71 master’s degrees, 30 doctoral degrees and 48 certificate programs.
- A Research/High Activity University that has been designated as an emerging research institution in Texas.

To learn more, please visit our booth or visit: www.uta.edu/grad
Student Interest Sessions

Student Interest Sessions are a new feature at NCUR® 2014, designed to provide practical information for students, especially those nearing graduation.

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<thead>
<tr>
<th>Topic</th>
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<td>The Graduate School Application Process</td>
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<td>2:00pm-3:00pm</td>
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<tr>
<td>Speed Networking (meet other students)</td>
<td>Thursday, April 3</td>
<td>3:30pm-4:30pm</td>
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<td>A Successful Transition from College to the Workplace</td>
<td>Friday, April 4</td>
<td>9:00am-10:00am</td>
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<td>Pre-Professional Student Panel</td>
<td>Friday, April 4</td>
<td>10:30am-11:30am</td>
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<tr>
<td>Panel Discussion with American Physiology Society</td>
<td>Friday, April 4</td>
<td>10:30am-11:30am</td>
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Thursday, April 3
2:00pm-3:00pm
**Graduate School: The Application Process and What to Ask During Interviews**
**Student Center, Room 230**
Please come and learn about procedures and hints for applying to graduate and professional degree programs from current admissions officers.

Thursday, April 3
3:30pm-4:30pm
**Speed Networking**
**Student Center, Room 230**
NCUR® is an amazing opportunity both to present your own work and to connect with other student researchers from across the country. This session allows participants to make the most of their time by connecting with many colleagues. This fun, interactive session will pair students for brief introductions and lively conversations. In an hour you can have new connections at colleges and universities from coast to coast!

Friday, April 4
9:00am-10:00am
**Successful Transition from College to Career**
**Student Center, Room 230**
Whether your ambition is to become the CEO of a Fortune 500 company, a scientist, or leading industry expert, or inventing the next computer processor, “Successful Transition from College to Career” will provide smart advice on how to establish yourself as a successful professional. Join two dynamic speakers as you receive a crash course on how to leverage your intelligence, education, and values to succeed in a global workforce.

Friday, April 4
10:30am-11:30am
**Pre-Professional Student Panel**
**Student Center, Room 230**
This Q&A session will feature a number of students who recently entered graduate and professional programs. Come network with your peers and hear from students who recently completed their Bachelor's degrees. Bring your questions about applying to graduate and professional programs, navigating the process, and what to expect at the next level.

Friday, April 4
10:30am-11:30am
**Panel Discussion with American Physiology Society Professionals**
**Student Center, Room 206**
The developmental, physiological and neurological fields of biology are making ground-breaking discoveries at a rapid pace. In this session, Dr. Ken Campbell (moderator), Dr. Hollie Swanson, Dr. Moriel Vandsburger, and Dr. Yvonne Fondyfe-Mittendorf, will share their educational pathways and recommendations for undergraduate students thinking of pursuing a career in this area.
Events

Faculty-Administrator Network (FAN) Sessions

**FAN Session 1 - Thursday, 12:30pm-1:30pm**

**Student Center, Room 111**
Community-Based Research: The design process: the similarities between graphic design research and formal research  
*Presenter: Dan Paulus*

**Student Center, Room 115**
Mentoring Undergraduate Researchers: "Individual and institutional mentoring of undergraduate students in research"  
*Presenters: Julius M Kitutu, M.O. Thirunarayanan & Ms. Joliette Re*

**Student Center, Room 205**
Assessment and Undergraduate Research: Transforming the Classroom into a Learning Experience  
*Presenters: Kevin Shorner-Johnson & David K. Palmer*

**Student Center, Room 206**
Scaffolding Research across the Curriculum: Models and Strategies for Increasing UR Experiences in Teacher Education Programs  
*Presenters: Simone DeVore, Kymberly Drawdy, Ruth Palmer & Dennis Munk*

**Student Center, Room 228**
Global Undergraduate Research: Enhancing Knowledge through Global Undergraduate Research and Training  
*Presenters: Fatme Al Anouti, Karen Clay, Terezinha Cássia de Brito Galvão, ’Dimeji R. Togunde & Johnnella E. Butler*

**Student Center, Room 230**
Integrating Research into the Curriculum: Case Studies From Across the Campus at The University of the South  
*Presenters: Robert E. Bachman, Jeffery P. Thompson & Kelly J. Whitmer*

**Student Center, Room 231**
Engaged Learning: From Stupeo to Studeo: Engaged Learning and Undergraduate Research in History  
*Presenter: Sasha Pursley*

**Student Center, Room 249**
Scaffolding Research Across the Curriculum: 3 Courses, 3 Rubrics, Endless Possibilities  
*Presenters: Lyn C. Howell, Angela Hilton-Prillhart & Bert Allen*

**FAN Session 2 - Friday, 8:00am-9:00am**

**Student Center, Room 111**
Scaffolding Research across the Curriculum: Case Studies in Departmental Rethink and Redesign  
*Presenters: Geri Paterson, Tricia Rachfall & Aaron P. Boesenecker*

**Student Center, Room 113**
Integrating Research into the Curriculum: Integrating an Undergraduate Research Project into Several Courses  
*Presenter: Robb Sinn*

**Student Center, Room 205**
Mentoring Undergraduate Researchers: Productive methods for mentoring undergraduate research projects outside of the natural sciences  
*Presenters: Alice Louise Kassens, Michael Enz, Elizabeth A. Holbrook & Julie Lyon*

**Student Center, Room 206**
Keeping Current with CUR: New Developments in the International Undergraduate Research Movement  
*Presenters: Council on Undergraduate Research National Office Staff*

**Student Center, Room 228**
Engaged Learning: Incorporating Formal Research Presentation into Senior Capstone  
*Presenter: Kayleen Islam-Zwart*

**Student Center, Room 231**
Tenure & Promotion: Determining How to Describe Undergraduate Research in a Clear and Equitable Way for Rank and Tenure Decisions  
*Presenters: Chad M. Scholes & Lisa Felzien*
Events

Student Center, Room 249
Community-Based Research: Bridging the Gap: A Sustainable Model for Funding and Retaining a Research Coordinator?
Presenter: Rebecca M. Erickson

FAN Session 3 - Friday, 12:30pm-1:30pm

Student Center, Room 111
Assessment and Undergraduate Research: Developing a plan for assessment and utilizing tools to maximize impact and ensure high-quality research experience for undergraduates
Presenters: Rose E. Constantino, Randolph Hollingsworth & Chris Thuringer

Student Center, Room 115
Integrating Research into the Curriculum: Research to Practice: Developing and Applying Research Knowledge and Skills from the Undergraduate Student Perspective to Community Based Issues
Presenters: Laura Ellis-Lai, Madalienne Peters & Alejandra Vazquez

Student Center, Room 205
Scaffolding Research across the Curriculum: From Freshman to Seniors: Two Approaches for Incorporating Research into all Levels of the Biology Curriculum
Presenters: Bernadette J. Connors, Nathan Reyna, Ruth Plymale & Lori Hensley

Student Center, Room 206
Community-Based Research: Empowering Student Participation in Experiential Learning using Mapping Technologies and the Community-Based Participatory Research Model
Presenters: Christopher Magno, Aidan Frombach, Adam Kalivoda, Elizabeth A. Holbrook & Julie S. Lyon

Student Center, Room 228
Student Development and Undergraduate Researchers: Handle With Care: The Midadolescent Undergraduate Researcher
Presenters: Beth Polin, Alison M. Dachner, Steven Bonner & Brandon Fredenburg

Student Center, Room 230
Broadening Participation in Undergraduate Research: Maximizing Student Experiences in Undergraduate Research with Diverse Students and Community-Based Studies
Presenter: Ruby H.N. Nguyen

Student Center, Room 231
Global Undergraduate Research: International Experiences in Undergraduate Research
Presenters: Qingwen Dong & Isabelle Lagadic

Student Center, Room 249
Interdisciplinary Studies and Undergraduate Research: Writing and statistics: two vehicles for organizing a sustainable center for applied interdisciplinary undergraduate research
Presenters: Paul Roback, Nancy G. Barron & Sibylle Gruber

At Hofstra University, pride & purpose is about small class sizes, flexible schedules, exciting and challenging programs and dedicated faculty that help you receive a graduate education grounded in reality with a foundation in exceptional scholarship. And, it’s about experiences and campus opportunities that give you an edge when it comes to your career.

Attend a Graduate Open House this summer:
Tuesday, June 10, July 15, and August 12

All events begin at 6 p.m. Visit hofstra.edu/grad-day for more information.
TOMMOROW’S INNOVATIONS START WITH TODAY’S GENERATION

As a technology company, Lockheed Martin recognizes the importance of education, specifically research in the areas of Science, Technology, Engineering and Mathematics (STEM). Undergraduate research enhances a student’s academic experience and fosters skills that are critical to preparing them for 21st century careers. That’s why we’re proud to support The University of Kentucky at the 28th National Conference on Undergraduate Research.

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Events

Departmental Open Houses
Thursday, April 3
4:00pm-6:00pm

UK will throw open the doors to some of its most interesting research labs, studios, and facilities and UK faculty and students will be on hand to dazzle you with mind blowing demonstration, fascinating exhibitions, and scintillating discussions about the cutting-edge and unique research being done at UK. Transportation between open house events will be provided. For the most up-to-date information, please visit our website. See map.

Anatomy (Non-human Primate Comparative Morphology Labs)
Map Number 15: UK Chandler Medical Center, MN 221
- View and touch non-human primate cadavers (gorillas, monkeys, lemurs and more)
- Learn about how paleontologists use the bones, muscles and sensory organs of our close relatives to learn more about primate and human evolution
- See demonstrations of computer based 3D morphometric shape analysis, muscle fiber architecture analysis, histological studies of primate sensory structures and gross anatomical dissections of our closest relatives – the primates!

Athletics
Map Number 1: Joe Craft Center
Tour UK’s state of the art athletic training centers and see where the Wildcats live!

Biology
Map Number 8: Thomas Hunt Morgan Building
- Learn about how live pine sawflies can tell us about speciation events
- View zebrafish embryos at different stages of development with a stereomicroscope
- Explore the role of larval lampreys in studies of vertebrate evolution

Center for Clinical and Translational Science (CCTS)
Map Number 11: Center for Clinical and Translational Science, C-344, Kentucky Clinic
- Explore ongoing CCTS research and learn about research training opportunities
- Tour out-patient and in-patient clinical facilities
- Tour the clinical laboratory facilities

College of Fine Arts
Map Number 18: Fine Arts Building
- Students rehearse for the upcoming musical “Joseph and the Amazing Technicolor Dreamcoat” in the Guignol Theater, Room 127
- Join Professor Susie Thiel for a dance rehearsal in the University of Kentucky Dance Studio
- Enjoy the sounds of the University of Kentucky Jazz Ensemble under the direction of Miles Ossland in Rm.22
- Celebrate the artwork of NCUR® presenters at a Student Art Exhibition, TUSKA Center for Contemporary Art, Room 107; catered reception

Computer Science
Map Number 3: Marksbury Building
- Learn about inexpensive immersive environments (Flight simulator projected onto a 3-sided, immersive screen)
- View demos of rapid 3D scanning and create a 3-D model of a person in just a few seconds of standing still!
- Explore the potential of 3D printing and view objects created using this technology
- Learn about iris recognition and biometric authentication, even through glasses and sunglasses!

Creative Writing Oulipo Workshop
Map Number 2: Little Library
Oulipo is a loose gathering of (mainly) French-speaking writers and mathematicians who seek to create works using constrained writing techniques. Participants will have a chance to learn about and apply several of these techniques:
- The N 7 exercise
- The false translation exercise
- The lipogram exercise
Events

Departmental Open Houses (cont.)

Electrical and Computer Engineering
Map Number 4: ASTeCC 45
- View demonstrations of environmental scanning electron microscopy and nanoscale 3D printing
- Explore small space craft development and International Space Station payloads
- Learn about computer development and how supercomputing can be made cheap using clusters and GPUs including demonstrations of computational photography

Environmental Earth Science and Geology
Map Number 9: Slone Building
- Visit the Stable Isotope analysis laboratory and use mass spectrometry to determine stable isotope ratios for paleoclimate analysis
- View tiny grains in lava in the petrographic microscopy labs and then Visit the Electron Microprobe Lab to view the tiny grains in the tiny grains in lava
- Tour the Sedimentary Environmental and Radiochemical Research Laboratory

Environmental Research and Training Lab
Map Number 6: Raymond Building
- Tour the entire facility, learn about each of the scientific instruments (ICP, GC-MS, LC-MS, Real-Time PCR, and many others), and learn about ERTL research.
- Analyze heavy metals in water samples from area streams by inductively coupled plasma optical emission spectrometer (ICP-OES).
- Examine water samples from area streams for E.coli bacterial concentrations to determine the impact of leaking sanitary sewers and storm sewer overflows.

Linguistics
Map Number 2: Little Library
- Explore how English is related to many of the world’s languages (e.g. Russian, French, Hindi)
- Learn about perceptual dialectology
- Demonstrations of field linguistic methodologies
- Demonstrations of grammatical modeling
- Learn about language typology

Magnetic Resonance Imaging (MRI) in Humans and Small Animals
Map Number 14: Whitney Hendrikson Building, basement
- Observe a cardiac MRI in a human
- Observe a cardiac MRI in a mouse
- Observe a functional brain MRI in a human
- Learn about MRI ‘physics tricks’ (floating paperclips!) and the strength of the magnetic field

Modern and Classical Languages, Literatures and Cultures workshop (Borders: Discovering Global Culture)
Map Number 2: Little Library
Digital and poster presentations of senior thesis research by MCL majors (Arabic, Chinese, Classics, French, German, Japanese, Russian) and their mentors. Students and mentoring faculty will demonstrate and discuss their findings on topics as wide ranging as the definition of culture and identity to how language is acquired, from ancient myth in the contemporary film to literary analysis of the graphic novel.

Molecular and Biomedical Pharmacology
Map Number 16: CT Wethington Building, 1st floor lobby
- Learn how blood flow and renal pressure is measured in rats and how they respond to andrenergic agonists
- Observe how electrical activity of the heart is recorded in anesthetized experimental animals.
- Explore how learning and memory is evaluated in rats using a Morris water maze

Nutritional Science
Map Number 17: Biomedical/Biological Research Sciences Building, 2nd floor
- Learn about obesity and obesity related research at UK
- Measure blood pressure, body composition and metabolic parameters in mice
- Learn how the impacts of exercise on health and disease is studied in mice
Pharmaceutical Sciences
Map Number 12: Pharmacy Building, 1st floor
- Prepare a Pluronic Lecithin Organogel (PLO) for transdermal medication delivery in a fictional patient
- Learn about the practical application of camphor and menthol ointments
- Explore the tools and approaches used in natural product drug delivery
- Learn about drug interaction and methods used to assess the number of receptors

Physics and Astronomy Lab
Map Number 7: Chemistry-Physics Building, CP394
- Tour the intermediate energy/nuclear physics labs and see the van de Graaf accelerator
- Visit the MacAdam observatory
- View magnetic resonance, Compton scattering, X-ray diffraction, and photoelectric effect demonstrations
- Visit the condensed matter research labs

Sanders-Brown Center on Aging/Alzheimer’s Disease Center
Map Number 13: Sanders-Brown Building
- Learn about how tauopathies like Alzheimer’s disease occur, tour the tissue culture hood and examine GFP expressing cells
- Examine human brains under a microscope and learn about Alzheimers and age related changes in the brain
- Participate in neuropsychological testing exercises
- Learn about the relationship between Alzheimer’s disease and Down Syndrome

UK Aerospace
Map Number 5: College of Engineering, Quadrangle Courtyard
- Learn about NASA internships and career opportunities
- View CubeSat satellite engineering models presented by the UK Space Systems Lab (KySat-2 flight model scheduled for launch Nov 19, 2013)
- Learn about unmanned Aerial Vehicles
- View demos of alloy samples and machining results
- Explore spacecraft thermal protection systems simulations

William T. Young Library Archives
Map Number 10: William T. Young Library
- View a demonstration on the use of digital publishing tools in the creation of multimedia specific to ‘Immigration in Appalachian, Kentucky’
- Explore library movie holdings for an historically accurate perspective on Hollywood
- Learn more about the OHMS cataloging system and Kentucky’s oral history

William T. Young Library Research Facilities
Map Number 10: William T. Young Library
Come and see active learning spaces in action, with mediascape demos, interactive classroom polling, and research assistance methods. Multiple demonstrations using the technology in creative ways.

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414-229-6569
C.A.T. Crawl
Friday, April 4
6:00pm–9:00pm

The Cuisine Around Town (C.A.T.) Crawl offers NCUR® registrants discounted meals on Friday, April 4. Look for the NCUR® logo in the window of participating local restaurants and show your NCUR® badge to receive up to 25% off your meal from 6:00pm-9:00pm.

*Tickets are not required for the C.A.T. Crawl. Following the C.A.T. Crawl, the evening's ticketed event will be the "Sundy Best" concert.

Participating Restaurants:

- **Bangkok House**
  275 Avenue of Champions

- **Jefferson Davis Inn**
  319 Cedar St.

- **Local Taco**
  315 S. Limestone St.

- **Mellow Mushroom**
  503 S. Upper St.

- **Puccini’s Smiling Teeth**
  833 Chevy Chase Pl.

- **Raising Cane’s**
  544 S. Upper St.

- **Sav’s Grill**
  304 S. Limestone St.

- **Sav’s Chill**
  304 S Limestone St.

- **Shakespeare and Co.**
  367 W. Short St.

- **Tin Roof**
  303 S. Limestone St.

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Rock with the RocKats
Thursday, April 3
10:00pm–11:00pm
Triangle Park, Downtown Lexington

Top off your Thursday evening with a free concert by UK’s RocKats!

At 9:30pm on Thursday, April 3 in downtown Lexington’s Triangle Park, the University of Kentucky rock ensemble, the RocKats, will give a free 1-hour, outdoor concert (weather permitting).

The RocKats are UK’s brand-new rock/pop band, one of the first university-sponsored rock/pop bands in the nation. Including both music and non-music majors, the group is bringing a new sound and face to the UK School of Music and College of Fine Arts with the music of the Blues Brothers, Michael Jackson, Wilson Pickett, Stevie Wonder, Aretha Franklin, Adele, Pink Floyd, and many others.

Directions:
If you are attending the dinner, immediately after, just follow the crowd from the Bluegrass Ballroom down one floor and out the front doors to enjoy the music!

If you are not attending the Plenary dinner with Kris Kimmel at the Lexington Center, you can still walk (see maps), take a shuttle bus, or hop in a cab from the university or your hotel, and join us at Triangle Park for the concert. Bring your friends, and “Roc” out!
Ticketed Events

“Big Ideas Start at Crazy: Creativity and Innovation for the Future”
Thursday, April 3
6:30pm-9:30pm
Lexington Center Bluegrass Ballroom

Sundy Best Concert
Friday, April 4
9:00pm-11:00pm (doors open at 8:00pm)
The Grand Reserve, 903 Manchester St.

Sundy Best is a rising duo residing in Lexington, KY and is said to “craft music that re-imagines timeless classic rock of the ’70s and ’80s.” The use of the cajon, a box-shaped percussion instrument originally from Peru and a combination of both music and stories behind their songs is part of what gives Sundy Best its distinctive sound. With hints of country and bluegrass, lifelong friends, Nick and Kris, started as a bar band, and have been featured on the popular television station, CMT, and have performed at the Grand Ole Opry. Shuttles provided, see transportation.

Kris Kimel, CEO and Founder of KY Space, KY Science and Technology Center, and IdeaFestival, will talk about creativity and innovation for the future. The dinner menu will feature popular Kentucky menu items with locally-sourced ingredients.

Be sure to catch the RocKats in Triangle Park, after the dinner!

Sponsored by Gallatin Steel (see ad below)
Must be 18 years or older. Lunch provided. All excursions will start loading buses Saturday, April 5 at noon. Buses will depart Lexington at 12:30pm. All excursions will return to Lexington between 5:00pm and 6:00pm. Transportation will be provided back to hotels if needed. See transportation for shuttle information.

Tour 1 – Horses, Hooch & History

Experience a little of each of Kentucky’s signature industries, horses AND bourbon, with this popular tour. The first stop will be one of our signature Thoroughbred farms for a private walking tour. Then it is on to one of Kentucky’s famous bourbon distilleries, producers of “America’s ONLY Native Spirit.” Here you will observe the art of bourbon-making being practiced much as it was 200 years ago. Experience for yourself the time-honored process of making fine bourbon, and learn why only Kentucky has the perfect natural mix of conditions and climate to produce the best bourbon. Guests will enjoy a delicious box lunch as they board the coach.

Tour 2 – Kentucky Horse Park
(Horseback Riding)

Visit the Kentucky Horse Park, home of the 2010 Alltech World Equestrian Games! The Kentucky Horse Park is the only park dedicated to human’s relationship to the horse. Kentucky Horse Park admission includes the world renowned International Museum of the Horse, an affiliate of the Smithsonian Institution, the American Saddlebred Museum - the Showplace for Saddlebreds. See and learn about different horses during the Parade of Breeds. The day also includes horseback riding. Ride along the trails of the scenic Kentucky Horse Park as you are guided by professionals. Guests will enjoy a delicious box lunch as they board the coach.
Excursions

Tour 3 – Red River Gorge Zip Line
Take a trip to the Red River Gorge, a favorite spot for thrill seekers in Kentucky! This professionally guided tour takes you across 5 separate zip lines 300’ above the Gorge at speeds up to 55 MPH. As part of your tour you will get to experience and walk across 4 unique canopy bridges. You will quickly see why this is Kentucky’s most exhilarating Zip line Tour and part of Kentucky’s Zip line Trail “Zip the Bluegrass”. Guests will enjoy a delicious box lunch as they board the coach.

Tour 4 – A Day at the Races
Spend the day watching and wagering at picturesque Keeneland Race Track. Experience live racing from your Reserved Grandstand seating, covered in case of inclement weather. While there you’ll be able to bet on and see live some of the world’s best Thoroughbreds, jockeys and trainers. By the end of the day you’ll see why Lexington is known as the Horse Capitol of the World! Guests will enjoy a delicious lunch as they board the coach.
University Policies

Emergency Procedures
Per the University of Kentucky Fire Marshal, each attendee must be aware and adhere to the following procedures in the event that a building’s fire alarm is activated.

Automatic and complete evacuation is required any time a fire alarm is activated prior to each session you will be instructed as to a meeting place outside the facility.

Always know at least two directions of escape. As you enter into any facility, take notice of exit signs and stairwells. Always keep in mind that the path you took into the facility may be blocked and you may need to take a different path out of the building. Elevators shall not be used for exiting a building once the fire alarm is activated.

Never go toward smoke. If you encounter smoke while exiting, turn around and go the opposite direction. If you encounter smoke in a stairwell, get out of that stairwell and find another path out. The University of Kentucky Police Department and its Division of Crisis Management & Preparedness urge visitors to stay informed during their visit to campus and offer several mechanisms in which to do so.

In the event of an emergency, dial 9-1-1 from any campus phone, or dial #UKPD (#8573) from a cell phone. UK has a state-of-the-art comprehensive security management system which includes, among other things, video cameras and increased early warning communication capabilities. Recent installations include 26 new wide-area outdoor emergency notification towers across campus. This multi-faceted, high-tech system includes wide-area audio broadcast capabilities in the event the campus community needs to be notified of a threat to campus safety or inclement weather. The emergency notification towers, which include emergency phone access at the push of a button, will be illuminated at all times during the night and flash during times of emergency. In the event of a campus incident or weather warning that requires immediate action by the campus community, emergency messages will be relayed through these outdoor speakers.

When there is an emergency situation that requires immediate action or when a crime has been reported that represents a threat to the campus community, a UK Alert and/or Campus Crime Bulletin is issued.

UK Alert: An emergency notification issued only when immediate action is required, such as the need to seek shelter or when there is a significant disruption to campus operations. Examples include: Active shooter, hazardous material spill, tornado warning, etc. Parents, media, visitors, and other interested parties may register for UK Alert on a voluntary self-subscription basis by adding contact information such as mobile numbers in order to receive voice calls and/or text messages and personal emails. You must register in order to receive notifications.

UK Alert delivers messages to subscribers on a “best effort” basis to the devices registered by each user. As such, it is a personalized service designed to complement the other communication tools already used by the university to advise the campus community during emergencies. In addition to the mechanisms listed previously, UK Alerts are posted to the university website, social media (Facebook & Twitter), distributed to local news outlets, and Time Warner Cable channels 16 and 219.

Campus Crime Bulletin: Crime Bulletins are issued when a crime is reported or brought to the attention of UK Police, and that crime represents a threat or on-going danger to the safety of the campus community. Immediate action is not necessarily required, but the information contained in the Crime Bulletin is still deemed important and pressing. Crime Bulletins will be distributed as soon as possible after the incident is reported; however, the release is subject to the availability of accurate facts concerning the incident. Crime Bulletins are issued for any “Clery” crime committed on “Clery” geography in accordance with the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act of 1998. They are distributed via broadcast emails, posted on the UK Website, provided to local media and flyers are printed and distributed to any number of areas on campus based upon the nature of the event.
The UK 2012 Annual Campus Safety and Security Report includes the latest statistics for 2012, as well as statistics from 2010 and 2011 concerning reported crimes that occurred on campus; in certain off-campus buildings owned or controlled by UK; and on public property immediately adjacent to campus. The report also includes institutional policies concerning campus security, such as policies concerning sexual assault and other matters. If you would like a printed version of the report or if you have any questions, please contact UKPD’s Division of Crisis Management and Preparedness at (859) 257-9567 or cmp@uky.edu.

Cat’s Path is comprised of a series of recommended walking routes that span central campus and provide the University of Kentucky community with a convenient method of traversing campus on a network of popular paths. The routes were specifically chosen due to their frequent use and accessibility to major campus destinations. Marked with highly visible signage and paw print ground logos, the Cat’s Path is patrolled frequently by University Police, both on foot and in special police golf carts. Students, faculty, staff and guests are encouraged to choose these routes when crossing campus, particularly during hours of limited visibility. The paths are not designed to replace current personal safety efforts, such as traveling in groups and remaining alert; however, the increased police presence and path improvements will provide one more tool in your personal safety arsenal.

Cats Cruiser is a UK Student Government service in partnership with Lextran that offers late night transportation service consisting of four fixed bus routes that circulate approximately every 20-30 minutes. Non-students can take advantage of this service for $1 per ride. This service runs on Thursday, Friday and Saturday nights from 10:00pm–3:00am. Route maps are available for download at lextran.com/route-maps/uk-students.

The Campus Area Transit System (CATS) offers eight campus bus and shuttle routes including an on-demand service Sunday – Friday with hours that vary by day and is limited to UK’s campus. Call (859) 221-RIDE for pick-up. You may also track CATS buses in real time using TransLoc while remaining in a safe location until the bus arrives. Visit UK’s Parking & Transportation Services for more information.

For more information, please visit http://www.uky.edu/Police/ and http://www.uky.edu/EM/.

Alcohol Policy
The possession and consumption of alcoholic beverages is controlled by Kentucky statutes, city ordinances, and University regulations. All members of the University community are expected to obey these laws and regulations. (see http://www.uky.edu/Housing/)

Tobacco Policy
Use of tobacco products (cigarettes, e-cigarettes, cigars, snuff, snus, water pipers, pipes, etc.) is not permitted on any university property, including all campus grounds inside and out, parking areas, and student housing. Report violations to: ReportTFviolation@uky.edu

Equal Opportunity
The University of Kentucky is committed to equal opportunity and nondiscrimination in all programs, events and services, regardless of economic or social status and does not discriminate on the basis of race, color, ethnic origin, national origin, creed, religion, political belief, sex, sexual orientation, marital status, age, veteran status, or physical or mental disability.

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Visual Arts Displays

The exhibition of work from our Visual Arts presenters will be on display in the TUSKA Center for Contemporary Art (Fine Arts Building, room 107) Thursday from 4:00pm-6:00pm and Friday from 9:00am-5:00pm. Each of the exhibitors has a corresponding oral presentation. Please check the schedule for Visual Arts sessions for times and locations.

Professional Courtesy

NCUR® offers an opportunity for participants to observe, learn and practice professional etiquette common to all disciplines. Presenters should remain in the room until all presentations in their sessions are complete. The other presentations may offer new insights, and all presenters deserve the same audience and respect.

Spectators to sessions should enter and exit oral and performing arts session rooms between (not during) presentations.

SESSION 1

Fine Arts Building 002

Art Studio

Thu 11:00am-11:20am
Nostalgia
Olivia Lasheen; University of Kentucky

Thu 11:20am-11:40am
Odocoileus Virginianus
Amber Eckersley; Coastal Carolina University

Thu 11:40am-12:00pm
Playing the Past: How Video Games Can Preserve the Disappearing Cultures of the World
Rachel Dehnel; University of Hartford

Fine Arts Building Briggs Theater

Art Studio

Thu 11:00am-11:20am
“Repoussé and Chasing in Small-Scale Sculpture: An Exploration of Interior and Exterior Spaces”
Sarah Davis; Bridgewater State University

Thu 11:20am-11:40am
Artist Statement
Acacia Macey; Westmoreland County Community College

Thu 11:40am-12:00pm
Atrocities at Sea
Jessica Lindemyer; College of Saint Benedict

SESSION 2

Fine Arts Building 002

Art Studio

Thu 2:00pm-2:20pm
Privacy and Self-Definition
Neta Ron; University of Wisconsin, Whitewater
Thu 2:20pm-2:40pm
**Raw Jewelry**
Natalia Fernandes; University of Wisconsin-River Falls

**Visual Arts**

Thu 2:40pm-3:00pm
**Sight for Insight**
Austin Weaver; Jacksonville University

Fine Arts Building Briggs Theater

Thu 2:00pm-2:20pm
**Bending Gender**
Nicole Pederson; University of Wisconsin-River Falls

Thu 2:20pm-2:40pm
**CHURCHES**
Elizabeth Williamson; Truman State University

Thu 2:40pm-3:00pm
**Consumed Chemicals**
Andrea Sorenson; University of Wisconsin-River Falls

SESSION 3

Fine Arts Building 002

Thu 3:30pm-3:50pm
**Sixty Three Hundred and Five Miles**
DJ Steinmetz; University of Wisconsin-River Falls

Thu 3:50pm-4:10pm
**Snack Attack: Comical Paintings Exposing Hidden Deceptions of the Modern Food Industry**
Allison Fawcett; University of North Carolina, Asheville

Thu 4:10pm-4:30pm
**Sonochromatism: The Color of Sound**
Ashley Johnson; Concordia College, Moorhead MN

SESSION 4

Fine Arts Building 002

Fri 9:00am-9:20am
**Specimen A: “Otis”**
Devin LaPlante; University of Wisconsin-River Falls

Fri 9:20am-9:40am
**The Fabric of Humanity: Atonomous Region of Tibet**
Tiffany Pankow; North Central College

Fri 9:40am-10:00am
**The Fabric of Humanity: Through the White Man’s Eyes**
Tiffany Pankow; North Central College

**Evolutionary Attraction, Freud, and Amnesia**
Jena Thomas; Carthage College

Art Studio

Fri 9:00am-9:20am
**Exhale**
Roya Ramezankhani; University of Kentucky

Fri 9:20am-9:40am
**Exploration: Past, Present, Future**
Bridget Rowe; Dordt College
Fri 9:40am-10:00am
Exploring the Physical Properties of Historical Photographs
Andrew Musil; University of Wisconsin, La Crosse

SESSION 5

Fine Arts Building 002

Art Studio

Fri 10:30am-10:50am
The Women of My Home: A Photographic Homage
Mia Pohlman; Truman State University

Fri 10:50am-11:10am
Unnoticed
Katy Spence; Truman State University

Fri 11:10am-11:30am
Vessels of Light: An Exploration of Porcelain and Life
Amanda Janes; Western Carolina University

Fine Arts Building Briggs Theater

Art Studio

Fri 10:30am-10:50am
H2O, an autobiography
Natalie Renier; University of Wisconsin, La Crosse

Fri 10:50am-11:10am
Hidden and Revealed: The Icelandic Landscape Explored Through Charcoal
Ian Wright; North Central College

Fri 11:10am-11:30am
Hiding in the light.
Jessica Whittington; University of Kentucky

SESSION 7

Fine Arts Building Briggs Theater

Art Studio

Fri 3:30pm-3:50pm
Hindeloopen Painting (from Hindeloopen, the Netherlands)
Brechtje Bennett, James Bennett; University of Wisconsin, La Crosse

Fri 3:50pm-4:10pm
In The Details
Heather Sims; University of Kentucky

Fri 4:10pm-4:30pm
Ink Diary
Alicia Gensch; University of Wisconsin- River Falls

Fine Arts Building 002

Interdisciplinary Studies

Fri 3:30pm-3:50pm
Apparelphernalia: Safety Clothing and Wearable Technology for Low Light & Active Persons
Jeremy Wall; NC State University

Fri 3:50pm-4:10pm
South of Opportunity: Honduran Migrants
Jessica Milligan; Dominican University of California

Fri 4:10pm-4:30pm
La Gente: Racial Diversity in Latin America
Angel Evans; Miami University

SESSION 8

Fine Arts Building Briggs Theater

Art Studio

Fri 5:00pm-5:20pm
Latinos in Green Agriculture Documentary
Joseph Lindner; University of Wisconsin, Milwaukee

Fri 5:20pm-5:40pm
Light and Time
Gina Ricciardelli; Western Carolina University

Fri 5:40pm-6:00pm
Liminal Landscapes: A Photographic Exploration
Amelia Holmes; Western Carolina University
Fine Arts Building 002

Music Research and/or Analysis

Fri 5:00pm-5:20pm
*Inspired By "A Celebration of The Band Sublime*
Matthew Killen; Jacksonville University

Religious Studies

Fri 5:20pm-5:40pm
*Islamic Geomcticial Composition*
Dan Risinger; University of Wisconsin- River Falls

Health Sciences & Public Health

Fri 5:40pm-6:00pm
*The Impact of 'Confidence' on Nurse Practitioner Referral Rates for Diabetes and Tobacco usage*
Brittany McBryde; University of Pittsburgh

SESSION 9

Fine Arts Building 002

Art Studio

Sat 9:40am-10:00am
*Wildflower: The Branding of a Contemporary Lifestyle Boutique*
Kaitlin Stewart; Jacksonville University

Fine Arts Building Briggs Theater

Art Studio

Sat 9:00am-9:20am
*Mastering Milkweed: From Floss to Fashion*
Megan Buysse; St. Catherine University, St. Paul

Sat 9:20am-9:40am
*Mis-Education: The Study of Race and Fear*
Zartavia Howard; University of Wisconsin, Whitewater

Sat 9:40am-10:00am
*Northside*
Melissa Carter; University of Kentucky

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- Physical Therapy
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- Rehabilitation Sciences Ph.D.

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- Communication Sciences and Disorders
- Human Health Sciences
- Medical Laboratory Science
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College of Health Sciences
Performing Arts - Music, Dance and Theatre
Music, Dance and Theatre Performing Arts Sessions occur in the Singletary Center and the Student Center.

Professional Courtesy

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SESSION 1

Singletary Center - Recital Hall

Dance

Thu 11:00am-11:20am
Cyclical Isolation: A Choreographic Study of Dependency, Isolation and Perpetual Motion
Hannah King, Madison O’Brian, Marissa Graha, Kelsey Schafe, Kelsey MacEachern, Hannah Kearney, Nicole Stone; George Mason University

Thu 11:20am-11:40am
Rumination
Emma Coombs; State University of New York, Brockport

Thu 11:40am-12:00pm
“Voice Through Dance”
Bianca Gomez; University of Texas at El Paso

Singletary Center - Recital Hall

Dance Performance

Thu 2:00pm-2:20pm
A Wandering from Common Thought
Nicole Stephens; California University of Pennsylvania

Thu 2:20pm-2:40pm
Dance Loops, Golden Master: Duet with Live, Interactive Video Looping

SESSION 2

Music Lecture Recital

Thu 2:20pm-2:40pm
Bells and Whistles: Train Representation in Contemporary Classical Music
Michelle Warshany; Elon University

Thu 2:40pm-3:00pm
Analyzing Nikolai Medtner’s “Fairy Tales” as Shakespearean Adaptation
Alicia Wodarski; Bowling Green State University

SESSION 3

Singletary Center - Recital Hall

Dance Performance

Thu 3:30pm-3:50pm
Nobody Said Something
Kirstin Sylvester; University of Kentucky

Thu 3:50pm-4:10pm
Performing Self: The Intersection of Choreography, Improvisation, and Autobiography
Julie Crothers; Elon University

Thu 4:10pm-4:30pm
The Making of a Solo
Sarah Elardo; Brockport
**Performing Arts**

**Student Center - Center Theatre**

**Music Original Composition**

**Thu 3:30pm-3:50pm**
*A Sojourn of Grief: Abstract*
Meredith Green; Xavier University

**Music Arranging**

**Thu 3:50pm-4:10pm**
*Pop is the New Jazz*
Corrine Dowlin; Baltimore School of Massage

**Music Original Composition**

**Thu 4:10pm-4:30pm**
*Commissioning Music: A Unique Process*
Kimberly Liebergen, Emma McAlister; University of Wisconsin, Whitewater

**SESSION 4**

**Singletary Center - Recital Hall**

**Music Lecture Recital**

**Fri 9:00am-9:20am**
*Frederic Chopin’s First Ballade*
Alexander Heinrich; Bridgewater State University

**Fri 9:20am-9:40am**
*Dissecting the Kaleidoscope*
Marina Lopez; Duquesne University

**Fri 9:40am-10:00am**
*Double Stops from Beginning to Bach*
Lisa Perfors; Eastern Illinois University

**Student Center - Center Theatre**

**Music Performance**

**Fri 9:00am-9:20am**
*This is My Tuba: An Interactive Multi-Media Performance*
Brett Copeland; University of Northern Iowa

**Music Research and/or Analysis**

**Fri 9:20am-9:40am**
*A Rose by Any Name: Are All Editions of Music Created Equally?*
Christopher Bosch; Bridgewater State University

**Fri 9:40am-10:00am**
*Building Musical Instruments from Propane Tanks*
Connor Shafran, Aaron Marsala; University of Kentucky

**SESSION 5**

**Singletary Center - Recital Hall**

**Music Lecture Recital**

**Fri 10:30am-10:50am**
*Form and Narrative Meaning in Chopin’s Ballade in G Minor*
Molly Reid; Appalachian State University

**Fri 10:50am-11:10am**
*Franz Liszt and the Battle Against Tonality*
Wesley Rose; Elon University

**Fri 11:10am-11:30am**
*Que viva el ritmo: Isaac Albeniz and Andalucían Musical Tradition*
Nicole Payne Mota; Elon University

**Student Center - Center Theatre**

**Music Research and/or Analysis**

**Fri 10:30am-10:50am**
*Contrasting Uses of Music During the Holocaust by Nazis Soldiers and Prisoners*
Jennifer Drake; Bridgewater State University

**Fri 10:50am-11:10am**
*Implementation of a Ten-Tone Equal Temperament System*
Andrew Gula; Duquesne University

**Fri 11:10am-11:30am**
*The Fusion of Chinese and Western Musical Traditions*
Jiaying Zhu; Bridgewater State University
**SESSION 7**

**Singletary Center - Recital Hall**

**Music Lecture Recital**

**Fri 10:30am-10:50am**
*Form and Narrative Meaning in Chopin’s Ballade in G Minor*
Molly Reid; Appalachian State University

**Fri 10:50am-11:10am**
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Wesley Rose; Elon University

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*Implementation of a Ten-Tone Equal Temperament System*
Andrew Gula; Duquesne University

**Fri 11:10am-11:30am**
*The Fusion of Chinese and Western Musical Traditions*
Jiaying Zhu; Bridgewater State University

**SESSION 8**

**Singletary Center - Recital Hall**

**Music Performance**

**Fri 4:10pm-4:30pm**
*The pedagogical intentions and their application in Five Modern Pieces For The Viola, by composer Lanson W. Wells*
Lanson Wells; University of North Carolina, Charlotte

**Fri 5:00pm-5:20pm**
*Songs of Jim Snidero: American Jazz Saxophonist*
Emily Dickey; California University of Pennsylvania

**Fri 5:20pm-5:40pm**
*Aaron Copland’s Style As Seen In Three Songs From the Second Set Of Old American Songs*
Marc Gutierrez; Abilene Christian University

**Fri 5:40pm-6:00pm**
*The Significance of David Gillingham’s “Marimba Concerto No. 2”*
Kimberly Liebergen; University of Wisconsin, Whitewater

**SESSION 9**

**Singletary Center - Recital Hall**

**Music Performance**

**Sat 9:00am-9:20am**
*Chamber Music as a Way to Rebuild Music Programs*
Bianca Kue, Bryan Douglas, Anna Molloy, Kevin Rhodes, Riley Roberson; University of Wisconsin, Whitewater

**Sat 9:20am-9:40am**
*Chronopolis*
Chase Fleming; University of Kentucky

**Sat 9:40am-10:00am**
*Researching Jazz through the Formal Analysis and Performance of Miles Davis’ Birth of the Cool Album*
Breslyn Jacobus, Andrew Baldwin, Bryan Douglas, David Farmer, Jenica Georgesen, Thomas Johnstone, Bianca Kue, Dylan Ovanin, Plamenko Vasic; University of Wisconsin, Whitewater
Oral presentations are 15 minutes in length with five additional minutes allotted to each presenter for questions. This schedule is strictly enforced.

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SESSION 1

Fine Arts Building 0308B Health Sciences & Public Health

Thu 11:00am-11:20am
Investigating the Quality of Ornamental Water within Shopping Malls in the United Arab Emirates
Fatema Alrumaithi; Zayed University

Thu 11:20am-11:40am
Assessing the Impact of Indoor Air Quality on University Community Health within the United Arab Emirates
Nouf Al Hosani, Nouf Jasim Al Hosani, Fatema Al Rumaithi; Zayed University

Engineering/Engineering Technology

Thu 11:40am-12:00pm
Calculating our estrogen footprint: Testing a procedure to quantify the estrogenic compounds released by wastewater treatment plants
Emily Crossette; Lafayette College
Oral Session 1

Fine Arts Building 106
Environmental Studies & Sciences

Thu 11:00am-11:20am
Protecting Sea Turtle Population
Ciara Slater; Jacksonville University

Thu 11:20am-11:40am
Fall Macroinvertebrate Diversity and Water Quality of Lotic and Lentic Waters on the Jacksonville University Campus
Timothy Radley, Thomas Radley; Jacksonville University

Thu 11:40am-12:00pm
An Analysis of Coral Reef Response to Future Climatic Changes Caused by Global Warming
Lauren Crow; Virginia Commonwealth University

Fine Arts Building 17
History

Thu 11:00am-11:20am
"Brazil's Carpetbaggers: The Emigration of the Confederados"
Hannah Grant; University of Kentucky

Thu 11:20am-11:40am
"This great moral and political good": British Involvement in the Abolition of the Brazilian Slave Trade, 1823-1826
Christina Crowley; Colgate University

Thu 11:40am-12:00pm
Bringing the South on Their Backs: Agrarian Culture, Economic Hope, and the Confederate Immigrants in Brazil
Derek Berthiaume; Coastal Carolina University
Oral Session 1

**Fine Arts Building 208**

**Sociology**

**Thu 11:00am-11:20am**

*But We Are Different: The Loss of Gay Culture in the Face of Mainstream Assimilation*

Anthony Grayson; Salisbury University

**Thu 11:20am-11:40am**

*“Get Ready to Grindr”: Technology and the Evolution of Gay Male Culture*

Matthew Tolliver; Morehead State University

**Thu 11:40am-12:00pm**

*Allies?: Assessing the Need for More Specific Terminology in the LGBTQ Movement*

Emily Williams; Hendrix College

**Fine Arts Building 004**

**Music Research and/or Analysis**

**Thu 11:00am-11:20am**

*Living, Breathing, and Feeling the Music: How Music is a Stronger Communicator of Emotion than Talking*

Meghan Blizinski; Texas State University- San Marcos

**Thu 11:20am-11:40am**

*Karen refugees in central Pennsylvania: The musical assimilation of transplanted community*

Joseph Holback, Genesis Bordner, Sarah Calabro, Samantha Keynton, Ashley Landis, Jason Sandonato, Joanna Stauffer, Caitlin Wilson, Eric Yoder; Elizabethtown College

**Thu 11:40am-12:00pm**

*The Female Orchestra in Auschwitz*

Candace Rhodes; Western Carolina University

**Biology**

**Thu 11:00am-11:20am**

*A Novel Method for Determining Historic Massauga Rattlesnake Populations in Northern Missouri*

Kathleen Tazelaar; Dordt College

**Thu 11:20am-11:40am**

*Analyzing the Genetic Differences of the PLA2 gene of subspecies of Ozark and Ouachita copperhead snakes*

Rusty Koonce; Hendrix College

**Thu 11:40am-12:00pm**

*Are Arkansas Queen Snakes a Distinct Species? A Comparative Study*

Kathryn Spivey; Hendrix College

**Lucille Caudill Little Fine Arts Library 301**

**International Studies**

**Thu 11:00am-11:20am**

*Nile Waterfronts and Bridges: The Nature of Commodification and Depublicization in Contemporary Cairene Spaces*

Eddie Dioguardi; American University

**Thu 11:20am-11:40am**

*Deconstructing Discourses of the Migrant in South African History from Apartheid to the Present*

Cate Anderson; Luther College

**Thu 11:40am-12:00pm**

*The River and Its People: The Study of Cultural Migration along the Amu Darya in Central Asia*

Benjamin Schaefer; University of Wisconsin, Milwaukee

**Lucille Caudill Little Fine Arts Library 302**

**Mathematics**

**Thu 11:00am-11:20am**

*Geometry and Tonal Music: A Mathematical and Musical Analogy*

Alison McClay; Appalachian State University

**Thu 11:20am-11:40am**

*Music Genomics: Applying Seriation Algorithms to Billboard #1 Hits*

Nakhila Mistry; Elon University
To "Play That Funky Music" or Not: How Music Affects the Environmental Self-Regulation of High-Ability Academic Writers
Sara Calicchia; Utah State University

Post Traumatic Stress Disorder in the Ancient Greek and Roman Soldier
Echo Smith; University of Utah

Ancient Pediatrics
David Stock; University of Wisconsin, Milwaukee

A Multiplication Toy for Children: The Color Cross Cube
Michael Walker; Virginia Commonwealth University

Down to Earth
Emily Hart, Sara Dreibelbis, Allison Reed, Alyssa Hartman, Amy Anderson; Ball State University

A Native Cyanobacteria, Nostoc, as a Biofertilizer
Clarice Esch; Western Kentucky University

Relative Humidity and Water Solubility Characteristics of Environmentally Considerate Lubricants
Meghan Krause; Milwaukee School of Engineering

Impact of a Diversity Conference on University Curriculum, Recruitment, and Accreditation Efforts
Christine Wilson, Autumn Palmer; Northern Michigan University

Successive Study of Diversity Conference Evaluations of Presenters by Race, Gender, Sexual Orientation, and Disability
Autumn Palmer, Christine Wilson; Northern Michigan University

Qualitative Assessment of Multicultural Competence Development of Participants Civil Rights Pilgrimage in Student Participants
Jesse Martinez, Jesse Martinez, Casey Coughlin, Morgan Gerke, Vajfue Lee, Phaedra McDougall, Alayna Spengler; University of Wisconsin, Eau Claire

A Comparative Study and Ambiguity Function Analysis for Software-Defined Radio-Based Passive Radar
Samantha Scharles; Milwaukee School of Engineering

Cryptography and the Eclipse Software: A Glimpse of Eclipse
Cherith-Eden Clements; Howard University

Design, Simulation, Implementation, and Performance Evaluation of a Stack-CPU for Massively Parallel Control-Intensive Applications
Kimchristopher Hein; Milwaukee School of Engineering
**Oral Session 1**

**Patterson Office Tower 112**

**Criminology**

**Thu 11:00am-11:20am**  
*Effects of Treatment on Probationer Recidivism at a Large U.S. Probation Agency*  
Katherine Brayan; Iona College

**Thu 11:20am-11:40am**  
*Patterns and Causes of Higher Homosexual Drug Use*  
Wesley Myers; Western Carolina University

**Thu 11:40am-12:00pm**  
*An Analytical of Criminal Punishment of Drug Offenses Undermining Effectiveness of the Criminal Justice System*  
William Borrelli, William Borrelli; Iona College

**Patterson Office Tower 113**

**Nutrition**

**Thu 11:00am-11:20am**  
*Lifestyle Choices and Influences in College Females Comparing Nutrition and Non-Nutrition Majors*  
Amy Gallop; University of Minnesota

**Thu 11:20am-11:40am**  
*Parent and Teacher Perceptions of Community Garden Experiences on Fruit and Vegetable Preferences and Intake of Preschool-Aged Children: Implications for a Pilot Intervention*  
Katrina Groshens, Anna Laitinen; St. Catherine University, St. Paul

**Thu 11:40am-12:00pm**  
*Advancing Food Preservation Techniques in India*  
Sathya Areti; Virginia Commonwealth University

**Patterson Office Tower 145**

**Criminology**

**Thu 11:00am-11:20am**  
*Dolphins in the U.S. Navy*  
Marjorie Grumbine; Virginia Commonwealth University

**Engineering/Engineering Technology**

**Thu 11:20am-11:40am**  
*Smart Instrumentation Based Embedded System for Ultrasonic Positioning Estimation*  
Dustin Patton; Murray State University

**History**

**Thu 11:40am-12:00pm**  
*The Texas Water Safari: Fifty Years of Endurance, Adventure, and Change*  
Philip Rask; San Jacinto College

**Patterson Office Tower 003**

**English**

**Thu 11:00am-11:20am**  
*The Mystery of Lexington Italy*  
Austin Gocke, Katherine Spezzano; University of Kentucky

**Geography & Earth Sciences**

**Thu 11:20am-11:40am**  
*Nicholasville Road Small Area Plan*  
Erica Sardar, Evan Sweet, Jordan Miller; University of Kentucky

**Economics**

**Thu 11:40am-12:00pm**  
*Making Research Useful: An Economic Development Report for the City of Reading, Pennsylvania*  
Jennifer Dickey, Seok Kim; Franklin and Marshall College

**Patterson Office Tower 005**

**Political Science**

**Thu 11:00am-11:20am**  
*The Nature of Sovereignty: Explaining the Role of Sovereignty through the Environmental Policies of Belgium and Bulgaria*  
Stephanie Grisell; Hamline University

**Thu 11:20am-11:40am**  
*Population-Centric Counterinsurgency: When and Why Does It Work?*  
Michael Embs; Susquehanna University
Oral Session 1

Thu 11:40am-12:00pm
The Competing Interests of International Law and State Sovereignty: A Legal Conundrum
Courtney Thrower; University of Arkansas at Monticello

Patterson Office Tower 007

Thu 11:00am-11:20am
Tying the Knot on Student Engagement
Sabina Marroquin; Midwestern State University

Interdisciplinary Studies

Thu 11:20am-11:40am
The Claddagh of Galway: Stories from Fiction to Fact
Connor Boyle; Brooklyn College

Thu 11:40am-12:00pm
Examining the Notion of Marital Entrapment Found in the Brontë Literature.
Emily Hill; Arkansas State University

Patterson Office Tower 009

Thu 11:00am-11:20am
The Odonata of Medina Township, Lenawee County, Michigan
Chas Frey; Siena Heights University

Biology

Thu 11:20am-11:40am
Genetic Variation of the Mountain Pine Beetle (Dendroctonus ponderosae) in the Black Hills
Anna Hafele; Black Hills State University

Thu 11:40am-12:00pm
The effect of self-initiated thrust on forward optical flow tolerance during fly flight
Jacob Bruno-Friedman; Florida International University

Singletary Center - President's Room

Theatre/Drama

Thu 11:00am-11:20am
“Dramaturgy as Collaborative Process in New Play Production”
Luke White; Appalachian State University

Thu 11:20am-11:40am
Is Epic Theatre Still Epic?: A Comparative Look at Verfremdungseffekt in the Early 20th and 21st Centuries
Dominique Luster; University of Kentucky

Thu 11:40am-12:00pm
Eurydice
Brittani Wyskocil; Jacksonville University

White Hall Classroom Building 102

Literature

Thu 11:00am-11:20am
The Middlemarch Magnifying Glass
Anita Iyer, Catherine Brereton, Ayna Lorenzo, Kendra Sanders; University of Kentucky

Political Science

Thu 11:20am-11:40am
Political Literature in Early 20th Century Germany.
Kevin Staniforth; Radford University

Thu 11:40am-12:00pm
Neil Gaiman, Eric Voegelin, and the Search for Order
Jesse Lynch; Radford University

White Hall Classroom Building 110

Psychology

Thu 11:00am-11:20am
Anorexia Athletica
David West; Virginia Commonwealth University

Thu 11:20am-11:40am
Perceptions of Female Body Types: Athleticism vs. Thinness
Anna Jolliff, Adrie Henry; Hendrix College
Thu 11:40am-12:00pm
Use Netspeak So I Know You’re Real
Jennifer Wu; University of Kentucky

White Hall Classroom Building 114

Psychology

Thu 11:00am-11:20am
The Impact of CPS and Special Education on Adjustment for Male Inmates
Sara Blessington; Eastern Washington University

Thu 11:20am-11:40am
Machismo and Marianismo Revisited: Language, Acculturation, and Gender Role Perceptions Among Latinos
Analia Albuja; Truman State University

Thu 11:40am-12:00pm
Mental Stability and the Male Gender Role
Madison Williams; Virginia Commonwealth University

White Hall Classroom Building 122

Political Science

Thu 11:00am-11:20am
Is anyone listening?: Responsiveness of Representatives in the House
Brian Anderson; Carthage College

Thu 11:20am-11:40am
Perceived Government Responsiveness as Related to Social Spending
Benjamin Fulmer; Western Carolina University

Thu 11:40am-12:00pm
Burnham’s Managerial Revolution: The Unexamined Reality Of Contemporary Class Conflict
Sándor Mécs; Waynesburg University

White Hall Classroom Building 201

Art History

Thu 11:00am-11:20am
Humanism and Luxury in Renaissance Bacchanalia
Caroline Goodman; University of Kentucky

Thu 11:20am-11:40am
Reciprocity of Imagery in Renaissance Art and Anatomy
Calder Staben; University of Kentucky

Thu 11:40am-12:00pm
Henri de Toulouse Lautrec and Le Divan Japonais: Isolation in Image
Taylor Williams; Hamline University

White Hall Classroom Building 203

Religious Studies

Thu 11:00am-11:20am
A Measure of Cloth: Towards a Typology of 19th century Indian Trade Labels
Mitchell Winter; University of California, Davis

Thu 11:20am-11:40am
The Art of Dying Well: The “Ars moriendi” Tradition in the Writings of Martin Luther
Robert Nelson; Concordia College, Moorhead MN

Thu 11:40am-12:00pm
Heritage and (Dis)continuity: Maintaining Transnational Religious Identity in a Maronite Community
Madeline Gambino; Lafayette College

White Hall Classroom Building 204

Sociology

Thu 11:00am-11:20am
Support and Success of African American Men at a Predominantly White Institution
Caleb Butler; Southern Illinois University Edwardsville

Thu 11:20am-11:40am
The Ingredients of Success: A Positivistic Approach to Black Students Graduation at the University of Wisconsin-La Crosse
Christian Wendland; University of Wisconsin, La Crosse

Thu 11:40am-12:00pm
Off-Color: The Sociological Factors that Contribute to the Use of Racial and Ethnic Humor Among College Students
Brittany Owen; George Mason University
Oral Session 1

White Hall Classroom Building 205

Physics

Thu 11:00am-11:20am
Gravitational Collapse of Massive Scalar Fields in AdS5
Daniel Snyder; University of Michigan

Thu 11:20am-11:40am
Short-range Tests of Gravitational Physics
Andrew Harter, Crystall Cardenas; Humboldt State University

Thu 11:40am-12:00pm
Modeling the Equilibrium Distribution of Cosmic Strings
Jacob Balma; University of Minnesota, Duluth

White Hall Classroom Building 207

Health Sciences & Public Health

Thu 11:00am-11:20am
Time to cheer up! College students’ perception on cheerleading as a sanctioned collegiate sport
Steve Chen, Kelsey Sphar, Brooke Mead, Steve Chen, Cassandra Smith; Morehead State University

Thu 11:20am-11:40am
Examination of sexual behavior and alcohol consumption at the event-level among college students in the United States
Leah Bruch; George Mason University

Thu 11:40am-12:00pm
Stigma, Shame and STIs: College Women Negotiating Female Sexuality and Sexual Health
Randi Saunders; American University

White Hall Classroom Building 209

Ecology & Organismal Biology

Thu 11:00am-11:20am
Variation in Diversity and Abundance of Salamanders in Relation to Human Development in Six Selected Stream Habitats in Central Kentucky
Leif Van Laar, Alyssa Hubbard, Michon Martin, Rebecca Jeong, Christina Benedict; Berea College

Thu 11:20am-11:40am
Occupancy, Activity and Relationships to Watershed Factors in predicting Burrow Fidelity in the Burrowing Digger Crayfish Fallicambarus fodiens in North-Central Ohio
Katie Maloney; Ohio State University

Thu 11:40am-12:00pm
The hairy hermit crab, Pagurus hirsutiusculus, differs from other species of intertidal hermit crabs in shell selection, escape locomotion, and reactions to predators
Samantha Chavez; Cerritos College

White Hall Classroom Building 211

Media Studies

Thu 11:00am-11:20am
CPR: Collect. Protect. Restore.
Jesse Harmon; Capital University

Thu 11:20am-11:40am
The Perfect Sound & The Radiator’s Hum: Toward An EAI Aesthetic
Thomas Lawson; Hamline University, St. Paul
Thu 11:40am-12:00pm  
The Valley of the Reversed Mountains  
Ali Pordeli; Jacksonville University

White Hall Classroom Building 212

Thu 11:00am-11:20am  
El Sueño Americano  
Christianna Snyder, Daniela De Sousa Arocha, Megan Guerra; Milligan College

Thu 11:20am-11:40am  
Perceptions of College Among Latino Elementary Students  
Amy Nunez; Eastern Washington University

Thu 11:40am-12:00pm  
Sources of College-Going Self-Efficacy in Rural Appalachia  
Meriah Rose, Meriah Rose, Chelsea Adams, Trisha Douin, Natalie Meiners, Zachary Eddy; University of Kentucky

White Hall Classroom Building 213

Thu 11:00am-11:20am  
Perceptions of Bisexual Behaviors Among University Students  
Brooke Bradford; Utah Valley University

Thu 11:20am-11:40am  
Empire, Homonationalism, and the Terrorist: Challenging Settler Colonial discourse in Contemporary Queer Politics  
Adnan Hashtam; University of the Pacific

Thu 11:40am-12:00pm  
The South Asian Lesbian in Islam  
Shahana Hanif; Brooklyn College

White Hall Classroom Building 214

Thu 11:00am-11:20am  
Response to Intervention As Applied to Sixth Grade Math Content to Promote Student Success  
Leigh Iler; Elon University

Thu 11:20am-11:40am  
Questioning and Mathematical Classroom Discourse in Three Middle Level Science Classroom  
Shelby Cameron, Rachel Pardee; University of Kentucky

Thu 11:40am-12:00pm  
Geometric Reasoning in PK-2  
Stephanie Schott, Rebecca Keene; University of Wisconsin, La Crosse

White Hall Classroom Building 215

Thu 11:00am-11:20am  
Analysis of Martian Atmospheric Composition by Median Normalization  
Dominic Payne, Mark Pultrone, Sarah Kessler, Phillip Chandler; Rowan University

Thu 11:20am-11:40am  
Analysis of Martian Spectral Modeling by Spot-Spectra Normalization  
Mark Pultrone, Sarah Kessler, Phillip Chandler, Dominic Payne; Rowan University

Thu 11:40am-12:00pm  
Characterizing the Surface of Mars in the Near-Infrared  
Jessica Snyder, Sean Hoyt; Rowan University

White Hall Classroom Building 217

Thu 11:00am-11:20am  
The Impact of Plessy v. Ferguson and Brown v. Board of Education on the Civil Rights Movement: A Comparative Triangulal Analysis Utilizing Conflict Theory  
Christina Bayonne; Howard University

Thu 11:20am-11:40am  
Crack Cocaine: A Triangulative Analysis of the Lethal Drug’s Devastating Effects on the Black Community Using the Conflict Theory  
Khalid Pryer; Howard University
Thu 11:40am-12:00pm
Suffering in Silence: A Triangulative Analysis of Mental Illness Stigma in the Black Community Utilizing the Critical Race Theory and the Biopsychosocial Model
Marshele Bryant; Howard University

White Hall Classroom Building 219

English

Thu 11:00am-11:20am
"The Great Gatsby, the Green Light, and the Metanarrative of Progress"
Matthew Higdon; Winthrop University

Thu 11:20am-11:40am
Surrealism and The Great Gatsby: an Expansion of Modernism
Kathryn Kohls; University of Findlay

Thu 11:40am-12:00pm
Jacob's Room: Woolf and the Successful Modernist Elegy
Chelsea Sokol; University of Tennessee at Chattanooga

White Hall Classroom Building 231

History

Thu 11:00am-11:20am
The Spanish Influence in English Colonization
Michael Shaw; Adelphi University

Thu 11:20am-11:40am
A Re-examination of American Interventions in Latin America
Nicholas Young; Ohio State University

Thu 11:40am-12:00pm
Michele Dobbs; North Central College

White Hall Classroom Building 233

Economics

Thu 11:00am-11:20am
The United States from January 2013 to October 2013: An Informative Analysis of the Current State of the U.S. Economy
Zacchari Gale, Joseph Merritt; Jacksonville University

Thu 11:20am-11:40am
Investigations into the US-Canada Price Gap
Doris Wilson; Sewanee

Thu 11:40am-12:00pm
On Market Efficiency, Drift, and Momentum
Samuel Knutson; Gustavus Adolphus College

White Hall Classroom Building 234

English

Thu 11:00am-11:20am
Chastity’s Triumph: Diana and Venus in A Midsummer Night’s Dream
Rachel King; Winthrop University

Thu 11:20am-11:40am
High Things Were Spoken There: The History of the Heroic Sonnet
David Hullinger; Loyola University Chicago

Thu 11:40am-12:00pm
"Young she was and yet not so": The Revival of the Victorian Fairy-Story Heroine in Tolkien’s The Lord of the Rings
Kylie Dennis; Mississippi State University

White Hall Classroom Building 235

Chemistry

Thu 11:00am-11:20am
Chemical Modification of MitoNEET: A Novel Diabetes Drug Target
Megan Laffoon; Eastern Illinois University

Thu 11:20am-11:40am
Does Chlorine Dioxide Degrade Sulfur Drugs?
Janelle Jennissen; Concordia College, Moorhead MN
Oral Session 1

Thu 11:40am-12:00pm
Dynamic versatility: How understanding hydroxamic acid behavior can lead to novel therapeutic treatments in a variety of pharmacological settings.
Stefanie Sippl; University of Wisconsin, La Crosse

White Hall Classroom Building 237

Cell & Molecular Biology

Thu 11:00am-11:20am
Clot Buster Bullets: The Creation of tPA coated Nanoparticles
Nikolas Stasinopoulos; Milwaukee School of Engineering

Thu 11:20am-11:40am
Integrin subunits α3 and α6 are essential for collecting duct cells functions regulated by binding to LM-511
Francesca Mehmeti; Berea College

Thu 11:40am-12:00pm
Sequencing Lactate Dehydrogenase A (LDHA) and Analyzing its Adaptive Evolution Among Primates
Nathan Vengalil; Wayne State University

White Hall Classroom Building 238

English

Thu 11:00am-11:20am
Jose Marti: Dismantling National Narratives at the Root of American Imperialism
Tanairi Alcaraz; University of the Pacific

Thu 11:20am-11:40am
One Hundred Years of Solitude: Deconstructing the City of Mirrors Through Lacanian Theory
Alexander Muller; Winthrop University

Thu 11:40am-12:00pm
A Very Old Man with Enormous Wings: An Examination of Human Social and Religious Tendencies
Micah Gargala; Hope College

White Hall Classroom Building 239

Physics

Thu 11:00am-11:20am
Probing Phase Transformation of (Bi1-xSbx)2Se3 Nanosheets by Raman Spectroscopy
Conor Delaney; University of Northern Iowa

Thu 11:20am-11:40am
Investigation of Twisted Bilayer Graphene by Raman Spectroscopy
Courtney Keiser; University of Northern Iowa

Thu 11:40am-12:00pm
Simple Experiments and Modeling of Incandescent Lamp Spectra
Austin Kerlin; University of West Georgia

White Hall Classroom Building 240

Management

Thu 11:00am-11:20am
The research on performance appraisal differences between the U.S and China
Yi Zhao; University of Nebraska, Kearney

Thu 11:20am-11:40am
An Analysis of the Quality of Teaching and School Administration of Acton Chinese Language School
Xinyue Ni; Bridgewater State University

Thu 11:40am-12:00pm
Stress, Happiness and the Workplace
Jessica Ivatorov; Brooklyn College

White Hall Classroom Building 241

Communications

Thu 11:00am-11:20am
A Comparison of Frames Present in The New York Times, People’s Daily, and BBC’s Coverage of Sina Weibo
Kendra Boyle Hoban; Hamline University
Thurs 11:20am-11:40am
Samantha Ringer; Juniata College

White Hall Classroom Building 242

Marketing
Thurs 11:00am-11:20am
The Extended Parental Self: Gender Differences in Parental Spending on Sons vs. Daughters
Victoria Olivo; University of Texas, San Antonio

Thu 11:20am-11:40am
Reconceptualizing the Role of Product from the Total Solution Perspective
Yura Kang; University of Central Oklahoma

Biochemistry
Thurs 11:00am-11:20am
Effect of Artificial Sweeteners on the Renin-Angiotensin System in Rats
Jacob Ball; Minnesota State University, Mankato

Thu 11:20am-11:40am
Conversion of Fibroblasts Into Cardiac Progenitors
Dariya Tikhomirova, Fatima Syed; University of Houston

Thu 11:40am-12:00pm
Whole Blood and Leukocyte Separation by Aqueous Multiphase Systems of Polymers
Daniel Kramer; Harvard

Neuroscience
Thurs 11:00am-11:20am
Neurodevelopmental Trajectory of Simple Arithmetic in Bilingual Children
Rosemary Beavers, Andres Ruiz; University of Texas, San Antonio

Thu 11:20am-11:40am
Antipsychotic Medication Effects in Task-based fMRI in Childhood-Onset Schizophrenia During Simple Motor Control
Carol Noronha; Wayne State University

Thu 11:40am-12:00pm
Cerebellar Modulation of Forebrain Dopamine Neurotransmission: Relevance to Autism Spectrum Disorders
Damian Coomes; University of Memphis

Education
Thurs 11:00am-11:20am
Keeping Kids in School: A Longitudinal Study of a Cohort from an Urban School District
Katherine Lomazzo, Katherine Baum, Alexandra Lionetti, Christina Heim, Camille Arter; SUNY Geneseo

Thu 11:20am-11:40am
The Effects of Poverty on Educational Achievement in the United States: A Quantitative and Qualitative Analyses Using the Stratification Theory
Keeandra Hale; Howard University

Thu 11:40am-12:00pm
The Perceived Readiness of Educators to Teach African American English Speaking Students
Brianna Barnette; Winthrop University

Oral Session 1
White Hall Classroom Building 246

Social Work

Thu 11:00am-11:20am
Divorce in Qatar: The View of Welfare Workers
Ebtesam Ayoub; Qatar University

Thu 11:20am-11:40am
INSIGHTS INTO DELAYED MARRIAGE FOR EMIRATI WOMEN
Mouza Alnuaimi; Zayed University

Thu 11:40am-12:00pm
Marriage Compatibility amid Social Changes: The Role of Qatari Social Workers
Mayasa Al Mamari; Qatar University

White Hall Classroom Building 247

History

Thu 11:00am-11:20am
Hostile Rhetoric: The Effects of the Media on the Rwandan Genocide
Kelli Richards; Bridgewater State University

Thu 11:20am-11:40am
Steve Biko: An Intellectual of History of South African Black Consciousness
Alexander Habibi; Keene State College

Thu 11:40am-12:00pm
The Perception of Violence: How Groups Become Labeled Terrorists While States Do Not
Stephan Rochefort; Massachusetts College of Liberal Arts

White Hall Classroom Building 303

Computer Science

Thu 11:00am-11:20am
Freedom Heritage Museum
Samantha Smith; University of Southern Indiana

Thu 11:20am-11:40pm
Benefits of Using RA and SQL Together in an Educational Environment
Bryce Ostler; Utah Valley State College

Thu 11:40am-12:00pm
Optimizing Next-Generation Mobile Networks Using Frequent Sequential Pattern Mining
Zachary Lamb; Morehead State University

White Hall Classroom Building 306

Biology

Thu 11:00am-11:20am
The Brave Little Hamster
Erica Falcone; Ithaca College

Thu 11:20am-11:40pm
Perception of Asthma Control
Britain Somple; Ohio State University

Thu 11:40am-12:00pm
Predictors and Influence of Recipients’ Goal Orientation on Self-Management Behaviors and Health Outcomes after Lung Transplantation
Jenna Zaldonis; University of Pittsburgh School of Nursing

White Hall Classroom Building 316

Art History

Thu 11:00am-11:20am
The Fine Art of Death: Images of the Macabre in Northern Renaissance Art
Rachel Castro; Dominican University of California

Thu 11:40am-12:00pm
Martyrdom and Apocalypse in the Mausoleum of Galla Placidia
Taylor Curtis; University of Kentucky
Oral Session 1

White Hall Classroom Building 331

History
Thu 11:00am-11:20am
“Cut short the night: use some of it for the day’s business”: An Examination of Cultural Processes on Sleep Patterns in Imperial Rome
Juan Basadre; Loyola University Chicago

Thu 11:20am-11:40am
Alexander the Great, 336-334 BCE: His Early Campaigns and the Belying of Pan-Hellenism
Trevor Rystrom; University of Wisconsin, La Crosse

White Hall Classroom Building 333

Mathematics
Thu 11:00am-11:20am
A Disproof of Tsallis’s Conjecture Using the Substitution Method
Theodore Huang; Johns Hopkins University

Thu 11:20am-11:40am
Multidimensional Spectroscopic Constants
Najja Ellis; Spelman College

Thu 11:40am-12:00pm
The Citizen Athlete
Yonatan Wolnerman; Brooklyn College

White Hall Classroom Building 335

Communications
Thu 11:00am-11:20am
Finding the Most Effective Health Communication Message in Print Image Media for the Cessation of Smoking Cigarettes
Daniela Benzaquen; Roanoke College

Thu 11:20am-11:40am
Disease, Identity and Disenfranchisement: A Pentadic Examination of Cancer Survivorship
Allison Blumling; Juniata College

Thu 11:40am-12:00pm
Drink the water, you’ll grow an extra toe: Is Butte Water Safe to Drink?”
Mariah Sheble; Montana Tech

White Hall Classroom Building 336

Engineering/Engineering Technology
Thu 11:00am-11:20am
Rapid Fill and Drain Bath Addition
Rachel Mantych, Sean Thomas, William Adamson; Metropolitan State College of Denver

Thu 11:20am-11:40am
Reconfigurable Personal Water Purification System
Samuel Phaneuf; Norwich University

Thu 11:40am-12:00pm
Laboratory Water Degassing Device
Robert Bauch, Chris Gour, Steve Tiernan; Norwich University
White Hall Classroom Building 337

Computer Science

Thu 11:00am-11:20am
Parallel Password Cracking
Kristina Cottingham, Landan Heinricy, John Lubke, Chris Craft, Brandon Koolstra; Dakota State University

Thu 11:20am-11:40am
Protecting the Cloud Against HTTP-DoS and XML-DoS Attacks
Brian Zukowski, Eric Karam, Mark Fesenmeyer; Roger Williams University

Thu 11:40am-12:00pm
Fingerprints as Passwords
Mariel Schneggenburger, Thomas Effland, James Schuler; University at Buffalo, State University of New York

White Hall Classroom Building 338

Economics

Thu 11:00am-11:20am
The Economic Implications of Latino Migration to Reading, PA
Gabrielle Connor, John Zhang Guo Xiong; Franklin and Marshall College

Thu 11:20am-11:40am
On the Determinants of Emigration: The Effect of Wealth on Push Factors
Sebastian Jacinto; Carthage College

Thu 11:40am-12:00pm
Mexican Migration to the US
Cody Garcia; Utah Valley University

White Hall Classroom Building 339

Chemistry

Thu 11:00am-11:20am
Synthesis of the First Examples of Chirality at Iodine: Diaryliodosyl Salts
Alexis Rowley; Penn State Erie, The Behrend College

Thu 11:20am-11:40am
Novel Benzisoxazole 2-Oxides as Metal Coordinating Ligands
Jonathan Fifer; Penn State Erie, The Behrend College

Thu 11:40am-12:00pm
Exploration of the Reaction of Novel Alkynyl Iodonium Salts with Phenoxides
Nicholas Burton; Penn State Erie, The Behrend College

White Hall Classroom Building 340

Literature

Thu 11:00am-11:20am
A Generational Difference of Memory: Women’s Writing about the Spanish Civil War (Una diferencia generacional de la memoria: La escritura femenina sobre la guerra civil española)
Sarah Glenski; Truman State University

Thu 11:20am-11:40am
Feminism in the Poetry of Claribel Alegría
Devan Quinn; State University of New York, Brockport

Thu 11:40am-12:00pm
Black Femme Fatal: Inequity in Harlem Renaissance Literary Representation”
Amanda Bennett; University of Alabama

White Hall Classroom Building 341

Philosophy & Ethics

Thu 11:00am-11:20am
Human Obligation to be Moral without the Influence of God
Lauren Turitto; Hamline University, St. Paul

Thu 11:20am-11:40am
Moral Rights for Non-Human Animals in a Human world
hannah hankins; Hamline University, St. Paul

Thu 11:40am-12:00pm
Approaches to Mumbai Slums: Lessons for a City
KANCHANA STHANUMURTHY, Neil Desai; University of Virginia
Oral Session 1

White Hall Classroom Building 342

Mathematics

Thu 11:00am-11:20am
A New Superior Sup-Test for Increasing Failure Rate Life Distributions
Christine Schlafly; Xavier University

Thu 11:20am-11:40am
Burr Type-XII Percentile Control Charts
Joseph Rezac; University of South Dakota

Thu 11:40am-12:00pm
Combinatorics of Quartet Amalgamation
Emili Price; Winthrop University

White Hall Classroom Building 343

Architecture & Interior Design

Thu 11:00am-11:20am
Historic Preservation and Cultural Landscapes: More Connected Than You Think
Maia Stack; University of Wisconsin, Milwaukee

Thu 11:20am-11:40am
The Structural Significance of Charlemagne’s Palatine Chapel
Adam Grey; Lafayette College

Thu 11:40am-12:00pm
Energy Consumption between a Re-purposed LEED Commercial Structure and a New LEED Commercial Structure
Kathleen Labick; Siena Heights University

White Hall Classroom Building 345

Cell & Molecular Biology

Thu 11:00am-11:20am
Effect of Oxygen Levels and Serum Concentration on mRNA Expression of Paracrine Factors in Mesenchymal Stem Cells
Patrick Page, Joshua DeJong; Trinity Christian College

Thu 11:20am-11:40am
Distribution and localization of claudins and RNAi-mediated knockdown of Rab13 in the tight junction of the bladder epithelium
Hannah Morrissey; Washington and Jefferson College

Thu 11:40am-12:00pm
MicroRNAs as Treatment Biomarkers in Chronic Pain
Sabrina Douglas; Drexel University

White Hall Classroom Building 346

International Studies

Thu 11:00am-11:20am
Measuring Success in the 2000 Cochabamba Water Revolt
Rebecca Policar; Seattle University

Thu 11:20am-11:40am
Ethnically Diverse States & it’s Effects on Governance
Ricardo Telchi; Hendrix College

White Hall Classroom Building 347

Anthropology & Archeology

Thu 11:00am-11:20am
Changing Spirituality along El Camino de Santiago and the Corresponding Implications
Alex Morton; Oakland University

Thu 11:20am-11:40am
Organized Atheism Creating Community
Jessica Landgraf; Luther College

Thu 11:40am-12:00pm
The Construction of Identity in Syria: Religious and Ethnic Loyalties in the Syrian Civil War
Eliott Rousseau; Bridgewater State University
White Hall Classroom Building 349

Sociology

Thu 11:00am-11:20am
Jennifer Hill; Howard University

Thu 11:20am-11:40am
Why Asian parents are stricter than other races about their children’s grades
Shyam Srinivasan; Virginia Commonwealth University

Thu 11:40am-12:00pm
Trends in Age at First Birth for Hispanic Women in the United States
Nallely Mejia; American University

SESSION 2

Fine Arts Building 0308B

Interdisciplinary Studies

Thu 2:00pm-2:20pm
Justice and Surveillance: Challenging the Political Legitimacy of the Surveillant Assemblage
Zachary Hausle; Hendrix College

Philosophy & Ethics

Thu 2:20pm-2:40pm
Raz’s Normal Justification Thesis Does Not Enhance Individual Autonomy
Benjamin Kilpatrick; University of New Orleans

Thu 2:40pm-3:00pm
Pride and Privacy: A Philosophical Examination of the Individual’s Right to Privacy
Tyler Mullins; Morehead State University

Fine Arts Building 106

Engineering/Engineering Technology

Thu 2:00pm-2:20pm
A Flexible and Hands Free Control Support for Mobile Devices based on Shape Memory Alloy
Bryam Duque; Jacksonville University

Thu 2:20pm-2:40pm
Emergency Management Mobile App Development in MIT App Inventor
Dameisha Wilson; Jackson State University

Thu 2:40pm-3:00pm
A Mobile System to Monitor Neonatal Nursing Characteristics
Gedeon Nyengele; Georgia Perimeter College - Decatur Campus

Fine Arts Building 17

Interdisciplinary Studies

Thu 2:00pm-2:20pm
Preservation of Greek Culture
Braxton McFarland, Jordyn Patterson, Aliah Fueller; University of Kentucky

Thu 2:20pm-2:40pm
Ancient Egyptian Mummification & Medical Practice & Its Relation to Greek Medical Advancement through the Practice of Dissection by Herophilus & Erasistratus in Alexandria
James Vondenberg; Xavier University

Thu 2:40pm-3:00pm
The American Pantheon: Influence of Greek Heroes on Caped Crusaders
Christian Bare; Anderson College
Oral Session 2

Fine Arts Building 208

Art History

Thu 2:00pm-2:20pm
The Eternal Coitus of Love and Death in Julia Margaret Cameron's Madonna and Child Photographs
Amber Eckersley; Coastal Carolina University

Thu 2:20pm-2:40pm
Unicorn Mythology in Renaissance Imagery: Chastity's Role as the Ultimate Female Virtue
Samantha Harris; University of Kentucky

Thu 2:40pm-3:00pm
Women, Art and Revolution: Feminine Symbolism and Democracy in Revolution Era France
Ashley Palin; Northern Illinois University

Fine Arts Building 004

Music Research and/or Analysis

Thu 2:00pm-2:20pm
To Sing or Not To Sing: The use of music in theatre
Kevin Hicks; Cedarville University

Thu 2:20pm-2:40pm
The Power of Group Dynamics in Musical Ensembles
Carys Kunze; Appalachian State University

Thu 2:40pm-3:00pm
Voices Only: Medieval and Renaissance A Cappella
Jeremy Witt; Cedarville University

Fine Arts Building 006

History

Thu 2:00pm-2:20pm
Ads of Identity: Trends in African American Beauty Advertisements
Sakeena Fatima; Wayne State University

Thu 2:20pm-2:40pm
Allen Research Project
Artura Jackson, Aaron Burall, Hillary Daye, Stephen Smith; Salisbury University

Thu 2:40pm-3:00pm
The Power of the Panther in the Tarheel State: How the Black Panther Party Changed the Role of Race Relations in North Carolina
Christopher Ray; Western Carolina University

Lucille Caudill Little Fine Arts Library 301

International Studies

Thu 2:00pm-2:20pm
Armas de Desafio: Manifestations of Mapuche Cultural Resistance in Chile
Mackenzie Mann; Elon University

Thu 2:20pm-2:40pm
The Egyptian Revolution: The Overthrow of Hosni Mubarak
Aaron Moyer; Lynchburg College

Thu 2:40pm-3:00pm
Transparent or Opaque: Case Study for the Effectiveness of a Central, Transparent Development Aid Database System
Nicole Kalmus; University of Hartford

Lucille Caudill Little Fine Arts Library 302

International Studies

Thu 2:20pm-2:40pm
The Lasting Influence of Centuries of Colonialism: The Saturation of Luso-tropicalism into Modern Portugal
Kathryn Conover; Hamline University, St. Paul

Thu 2:40pm-3:00pm
The Imperious Politics of Biometric Identification
Elizabeth Saraceno; Arcadia University - General

Lucille Caudill Little Fine Arts Library 311

Engineering/Engineering Technology

Thu 2:00pm-2:20pm
Modeling the Helicoseir
Marten Thompson; Hamline University
English

Thu 2:20pm-2:40pm
Contemporary Opera Libretti: an Examination of Form and Function
Andrew Dominello; Wheaton College - Massachusetts

Patterson Office Tower 107

Physiology

Thu 2:00pm-2:20pm
PAK 1 Expression in Estrogen Receptor Positive and Estrogen Receptor Negative Breast Cancer Cells
Kelly Kleier; Xavier University

Thu 2:20pm-2:40pm
Molecular Mechanism of Regulated Insulin Release from β-cells
Amulya Rajagopal; Wayne State University

Thu 2:40pm-3:00pm
Visualization of dynamic airway bronchoconstriction in live rats
Thien-Khoi Phung; University of Memphis

Patterson Office Tower 108

Law & Legal Studies

Thu 2:00pm-2:20pm
Effects on the incident/accident rates of general aviation aircraft with the frequent use of electronic flight bags in the cockpit
Kevin Barth; Jacksonville University

Thu 2:20pm-2:40pm
Trends in the Enforcement of US Foreign Trade Restrictions
Simone Dallaire; Drexel University

Thu 2:40pm-3:00pm
This Election For Sale: Reforming Campaign Finance After Citizens United
Edward Maddalena; Brooklyn College

Patterson Office Tower 110

Women and Gender Studies

Thu 2:00pm-2:20pm
Domestic Violence in Spain
Ashley Taylor; Capital University

Thu 2:20pm-2:40pm
Rape Reporting and Convictions in India: Cultural and Procedural Forces that Restrict Justice for Women
Bushra Ferdous; Virginia Commonwealth University

Thu 2:40pm-3:00pm
“Baby it’s Your World Ain’t it?”: A Rhetorical Criticism of Race, Class, Gender, and Sexuality
Jessica Hron; University of Wisconsin, Oshkosh

Patterson Office Tower 112

Health Sciences & Public Health

Thu 2:00pm-2:20pm
Assessment of Emergency Readiness and Delivery of Athletic Healthcare at Nebraska High Schools
Erica Engelhaupt; University of Nebraska, Kearney

Kinesiology & Exercise Science

Thu 2:20pm-2:40pm
Effects of Playing Surface and Shoe Type on ACL Tears in Soccer Players
Melissa Mansfield; Union College

Thu 2:40pm-3:00pm
The effects of kinesiology tape on performance of the triceps surae through functional testing in collegiate athletes
Marguerite Gilchrist, Alyssa Douglas; Salisbury University

Patterson Office Tower 113

Poetry & Creative Writing

Thu 2:00pm-2:20pm
An Uncertain Future
Megan Moore; University of Wisconsin- River Falls
Thu 2:20pm-2:40pm
Artistic Creation As a Means of Overcoming the Horrors of Trench Warfare
Emma Stapley; Albion College

Thu 2:40pm-3:00pm
The Childless Mother and Other Poems: Tackling Social Stigma of Childless and Childfree People Through Poetry
Lisa Sullivan; Bridgewater State University

Patterson Office Tower 145
Political Science

Thu 2:00pm-2:20pm
Welfare Narratives in US Political Rhetoric: Stories, Power, and Contestation
Gregory Honan; Elon University

Thu 2:20pm-2:40pm
Misrepresenting and Underserving The Homeless: An Analysis of New York City Housing Policy and Homeless Population Demographics, 1980-2010
Michael Perrin; Brooklyn College

Thu 2:40pm-3:00pm
The Great Divide: Modern Welfare Politics in the U.S. Farm Bill
Peter Shipley; Xavier University

Patterson Office Tower 003
Psychology

Thu 2:00pm-2:20pm
a. Effects of Physical Attractiveness on the Perception of Mental Illness
Caitlin Garstkiewicz; Eastern Illinois University

Thu 2:20pm-2:40pm
An analysis of binge eating, cognitive restraint and negative affect in college students
Nancy Guzman; North Central College

Thu 2:40pm-3:00pm
Athletic vs. Social Body Image Satisfaction among Female Collegiate Athletes
Lynn Hendricks; Siena Heights University

Patterson Office Tower 005
Interdisciplinary Studies

Thu 2:00pm-2:20pm
Appalachian Civility: School Integration in Jackson County, North Carolina
Joshua Wilkey; Western Carolina University

Thu 2:20pm-2:40pm
From “Pockets of Poverty to Potential Prosperity” in Appalachia: Connecting Mass Media Narratives of Poverty Stereotypes to Authentic Appalachia through Photovoice
Gloria So; Elon University

Thu 2:40pm-3:00pm
GETTING AN INSIDE VIEW: A NEW LENS TO SEE APPALACHIA
Jenna Branham; Anderson College

Patterson Office Tower 007
History

Thu 2:00pm-2:20pm
History and Photography: German Photos from Eastern Europe 1939-1945
Natalie Cincotta; Northern Illinois University

Thu 2:20pm-2:40pm
“For Sacred Germany”: A History of the German Military Resistance to Adolf Hitler, 1938-1944
Christopher Ray; Western Carolina University

Thu 2:40pm-3:00pm
The Evolution of Charles de Gaulle as Leader of la France Libre during World War II (1940-1942)
Claire Mayo; Elon University
Oral Session 2

Patterson Office Tower 009

Recreation and Leisure Studies

Thu 2:00pm-2:20pm
The Deutschland Drive From Guttman to Gold: A Case Study of the 2012 German Women’s Paralympic Basketball Team
Hannah Mueller; University of Wisconsin, La Crosse

Thu 2:20pm-2:40pm
Can Instrumental Conditioning Better Explain the Results of Rodent Empathy Studies?
Andrew O’Bannon, Anne Mitchell; Centre College

Thu 2:40pm-3:00pm
Celebrity Fanaticism and its Influence on Social Competence
Joelynn Avendaño; St. Edwards University

White Hall Classroom Building 110

Communications

Thu 2:00pm-2:20pm
The Role of Disability: Physically Disabled Students’ Friendships
Dana Schulte; University of Wisconsin, La Crosse

Thu 2:20pm-2:40pm
What is the best Coaching Technique to be Successful in Collegiate Softball?
Meagan Balding; Jacksonville University

Thu 2:40pm-3:00pm
How to Survive a Political Sex Scandal: Precedents, Guilt, and Political Culture
Katherine Barlow; Hendrix College

Singletary Center - President’s Room

Art Studio (Visual Arts)

Thu 2:00pm-2:20pm
Awareness of the Visually Impaired
Berenice Calvario; University of the Pacific

Thu 2:20pm-2:40pm
Enough is Enough Campaign Rebranding
Ashley Richards; University of the Pacific

Thu 2:40pm-3:00pm
Promoting the First Step
Maria Boyle; University of the Pacific

White Hall Classroom Building 114

Psychology

Thu 2:00pm-2:20pm
Enrichment alters Audiogenic Seizure Intensity and Severity Differently for Male and Female Rats
Kelly Patterson; Appalachian State University

Thu 2:20pm-2:40pm
Extra-Curricular Activities and GPAs
Jessica Reveal; Peace College

Thu 2:40pm-3:00pm
Concussions & College Students: What Do They Know?
Thomas Duren, Jenny Connor; Centre College

Art Studio (Visual Arts)

Thu 2:00pm-2:20pm
Is Emotional Processing a Predictor of Optimism in University Students?
Lauren Walker, Lauren Gih, Kimmy Kee-Rose, Ph.D.; California State University Channel Islands

Psychology

Thu 2:20pm-2:40pm
Left Right Politics: A Qualitative Analysis of Hidden Conservatism and Republicanism Among Black Americans Using The Political Spectrum Theory
Rodney Holcombe; Howard University

Thu 2:40pm-3:00pm
Rawls, Race, and Remainders: How Political Liberalism Fails to Account for Race
Benjamin Melano; California Lutheran University
Oral Session 2

White Hall Classroom Building 122

Psychology

Thu 2:00pm-2:20pm
Gender Differences in Advice-Giving Styles
Elizabeth Davis; Hendrix College

Thu 2:20pm-2:40pm
Gender Differences in College Students with ADHD: Implications for Academic Impairment
Elina Matveeva; University of Kentucky

Thu 2:40pm-3:00pm
Using Choice as a Writing Intervention to Investigate Gender Differences
Nicole Nohelty; Minnesota State University, Mankato

White Hall Classroom Building 201

Economics

Thu 2:00pm-2:20pm
A Study of a New Curriculum: The Effect of Easton Weed and Seed's 'Summer Nights' program on Learning Loss
Shannon Nitroy; Lafayette College

Thu 2:20pm-2:40pm
Economic Development Through Women's Education
Julia Dyer; University of Kentucky

Thu 2:40pm-3:00pm
Unexpected: Constancy in Technology
Jovan Johnson, Taylor Mcdermott, Jared Ervin-Helicher; University of West Georgia

White Hall Classroom Building 204

Biology

Thu 2:00pm-2:20pm
Effect of alley floor scraping frequency on environmental mastitis-causing pathogen counts
Jessica Lowe; University of Kentucky

Thu 2:20pm-2:40pm
Temporal Variation of Escherichia coli Levels at a Local Beach in Response to Hourly Environmental Changes
Clayton Wollner; University of Wisconsin, Milwaukee

Thu 2:40pm-3:00pm
The Effect of Oak Tannins on Gram Positive and Gram Negative Bacteria Growth
Leah Grant, Gage Rensch; Rockhurst University

White Hall Classroom Building 205

Health Sciences & Public Health

Thu 2:00pm-2:20pm
Practical Effectiveness of Traditional Chinese Medicine versus Western Medicine in Treating Anorexia and Bulimia Nervosa in Western Countries
August Thomas; Virginia Commonwealth University

Thu 2:20pm-2:40pm
Brazilian Ideologies: Perceptions and Decisions in regards to the Body
Natali Gracia; University of Illinois at Urbana-Champaign
Thu 2:40pm-3:00pm
*The Framing of Women’s vs. Men’s Health Magazine*
Headlines
Kelly Miller; University of North Carolina, Asheville

White Hall Classroom Building 207

Ecology & Organismal Biology

Thu 2:00pm-2:20pm
Vegetation and climate history of the Saint John’s Abbey Arboretum (Collegeville, Minnesota) based upon lacustrine fossil pollen
Emily Kiolbasa; College of Saint Benedict

Thu 2:20pm-2:40pm
*The Bee Fauna of Snow Canyon State Park, Ut*
Andrew Corbin; Weber State University

Thu 2:40pm-3:00pm
Pollen Limitation and Reproductive Ecology Studies in a Population of Penstemon digitalis
Kevin Lee; Vassar College

White Hall Classroom Building 208

Sociology

Thu 2:00pm-2:20pm
*The Goth’s “Crown of Thorns”: An Examination of How the Media Reconstructed the Goth Sub-Culture to fit a Deviant Sub-Culture and How this Impacts an Individual’s Performance of Identity*
Emily Johnson; North Central College

Thu 2:20pm-2:40pm
How Hip-Hop Is Reviving Detroit
Walter Kacher III; Albion College

Thu 2:40pm-3:00pm
The Die-Hards: An Exploratory Study of the Process of Becoming a Highly Identified Sports Fan
Melissa Kosciow; George Mason University

White Hall Classroom Building 209

Cell & Molecular Biology

Thu 2:00pm-2:20pm
Investigating the intersection between heat shock response and redox/Fyn/c-Cbl signaling as a therapeutic target in glioblastoma.
Paige Haas; University of Rochester

Thu 2:20pm-2:40pm
The Role of Endothelin 3 in Melanoma Growth and Metastasis
MANUEL BOROBIA SANCHEZ; Florida International University

Thu 2:40pm-3:00pm
Using an Innovative Three-Dimensional Spheroid Model of Tumors to Analyze the Effects of the Non-psychoactive Cannabinoid Ajulemic Acid on Pediatric Cancer
Michael Sullivan; Ouachita Baptist University

White Hall Classroom Building 211

Astronomy

Thu 2:00pm-2:20pm
The evolution of the relationship between the temporal decay index and the spectral index of gamma ray bursts
Emma Taylor; Guilford College

Thu 2:20pm-2:40pm
Observing Nebulosities
Christopher Christopherson; University of Wisconsin, Oshkosh

Thu 2:40pm-3:00pm
Precision Photometry Study of the Cepheus Star-Forming Field
Vincent Fabbri, Timothy Conard; University of Wisconsin, Oshkosh
Oral Session 2

White Hall Classroom Building 212

Biology

Thu 2:00pm-2:20pm
Colorectal Cancer Genes: A Cross-Species Analysis
Caley Zuzula; Hendrix College

Thu 2:20pm-2:40pm
Comparative Analysis and Characterization of the Brassinosteroid Receptor Protein Gene, Bri1, in Wheat
Christopher Navarro, Callie Johnson; University of Wisconsin, Stevens Point

Thu 2:40pm-3:00pm
Comparing mitochondrial gene orders of the cryptic species complex Brachiodontes exustus
Chelsea Karson; Elmhurst College

White Hall Classroom Building 213

Physics

Thu 2:00pm-2:20pm
Single Photon Quantum Interference and the Quantum Eraser
Isaiah Gray; University of Minnesota, Twin Cities

Thu 2:20pm-2:40pm
The Effects of Turbulence on Cosmic-Ray Diffusion in Young Stellar Systems
Vincent Shaw; Xavier University

Thu 2:40pm-3:00pm
A Study of Type Ia Supernova Light Curves: Simulated and Actual Data
Dan Zimmerman; Loyola University Chicago

White Hall Classroom Building 214

English

Thu 2:00pm-2:20pm
Performative Language: A Social and Political Analysis
Corinne Bauer; Utah Valley University

Thu 2:20pm-2:40pm
Uplifting the Underrepresented: The Dissolution of Literary Categories
Christopher Mauldin; Anderson College

Thu 2:40pm-3:00pm
Lost in Space and Speech: Comparing Depictions of Language and Society in De Rerum Natura and Aniara
Zachary Blinkinsop; Gustavus Adolphus College

White Hall Classroom Building 215

Biological Engineering

Thu 2:00pm-2:20pm
Computational Fluid Dynamics of the Pediatric Trachea
David Rutkowski; Valparaiso University

Thu 2:20pm-2:40pm
The Measurement of CO2 in Urine to Guide the Treatment of Patients in Septic Shock: A Feasibility Study
William King; University of Memphis

Thu 2:40pm-3:00pm
Investigation of the Viscoelastic Properties of Microbubbles Using a Pressure Chamber
Malvika Verma; Calif Institute of Technology

White Hall Classroom Building 217

Biochemistry

Thu 2:00pm-2:20pm
Development of Bead-Based Assays for RNA-Ligand Discovery
Shapnil Bhuiyan; Wayne State University

Thu 2:20pm-2:40pm
“To Explore the Molecular Mechanism of Inter-Domain Communications in Escherichia coli Proyl-tRNA Synthetase”
Heidi Schmit; University of Wisconsin, Eau Claire

Thu 2:40pm-3:00pm
Biochemical characterization of Phosducin-like protein-1 (PhLP-1) of the malaria parasite Plasmodium reveals redox activity
Robin David; Loyola University Chicago
White Hall Classroom Building 219

Education

Thu 2:00pm-2:20pm
What Constitutes a Welcoming Community? Mankato Leaders Go Beyond the 'Welcome Wagon' for New Immigrants
Sadie Leidall, Philip Munkvold, Sarah Lieske, Joelene Dittman; Minnesota State University, Mankato

Thu 2:20pm-2:40pm
Teaching for Whom? Examining the Value of “Teach for All” in Latin America and the Caribbean
Kaydi-Ann Newsome; Grinnell College

Thu 2:40pm-3:00pm
Who gets the last word? Literature of immigration in the Secondary English Language Arts Classroom
Jill West; Western Carolina University

White Hall Classroom Building 231

Biology

Thu 2:00pm-2:20pm
COMPARISON OF DIFFERENT LIGHT TECHNOLOGIES FOR INDOOR AQUAPONIC PRODUCTION OF Pac Choi
Doug Blair; Kentucky State University

Thu 2:20pm-2:40pm
Characterization of soybean resistance to Fusarium virguliforme in recombinant inbred lines Minsoy x Noir
Milan Milenovic; University of Minnesota, Twin Cities

Thu 2:40pm-3:00pm
Investigation of Three Putative Loci Involved In Corn Domestication
Hieu Hong; Wayne State University

White Hall Classroom Building 233

Art History

Thu 2:00pm-2:20pm
Cross-Pollination: Felix Guattari’s Three Ecologies and The Pruitt-Igoe Bee Sanctuary
Melanie Woody; Saint Louis University

Thu 2:20pm-2:40pm
Crossing Paths: Philip II of Spain and Hieronymus Bosch
Yifu Liu; Colgate University

Thu 2:40pm-3:00pm
Chairman Mao Goes To Anyuan: Contradictory Ideologies in Cultural Revolutionary Political Art
Elizabeth Berk; Colgate University

White Hall Classroom Building 234

Education

Thu 2:00pm-2:20pm
Academies and England’s Changing School System
Paul Luczak; Notre Dame University Of

Thu 2:20pm-2:40pm
A Globalized Education: A Comparative Study of the International Baccalaureate and Common Core State Standards Systems
Alyssa Springer; High Point University

Thu 2:40pm-3:00pm
A Comparison of Mathematics Education Practices and Teacher Selection Methods in Singapore, Finland, and the United States and a Discussion of Education Reform Options for the United States
Paul Pottanat; Virginia Commonwealth University

White Hall Classroom Building 235

Computer Science

Thu 2:00pm-2:20pm
Precise Asymptotic Distribution of the Number of Isolated Notes in Wireless Networks with Log-normal Shadowing
Alberto Argumedo, William Washington; Paine College

Thu 2:20pm-2:40pm
Computational Complexity of Brownian Motion
Zachary Schmidt; Minnesota State University, Mankato

Thu 2:40pm-3:00pm
The Yao Graph Y5 Is A Spanner
Wah Loon Keng; Lafayette College
**Oral Session 2**

White Hall Classroom Building 237

Biochemistry

**Thu 2:00pm-2:20pm**

*Association of the Peripherin/rds C-terminus with Membranes*
Mark English; Oakland University

**Thu 2:20pm-2:40pm**

*Alpha synuclein aggregation regulation in vitro by DL-norepinephrine in Parkinson's disease*
Andrew Fischer; Elon University

Neuroscience

**Thu 2:40pm-3:00pm**

*The Effects of Acute Stress and Fear Conditioning on Spine Density in Rat Infralimbic Cortex*
Kelly Moench; Carthage College

White Hall Classroom Building 238

Criminology

**Thu 2:00pm-2:20pm**

*How the Freedom Fighter/Terrorist Paradigm is Framed in Film Between 1980-Present for the IRA and al-Qaeda*
Gianni Pratico; Norwich University

Sustainability

**Thu 2:20pm-2:40pm**

*An Assessment of Civic Engagement Among Post-9/11 GI Bill Students*
Zachary Warren; San Diego State University

History

**Thu 2:40pm-3:00pm**

*Taming the Texas Rangers:*
Jason Judd; Texas Tech University

White Hall Classroom Building 239

Religious Studies

**Thu 2:00pm-2:20pm**

*“God Making His Appeal through Us”: The Theology of Reconciliation in the Church’s Practice*
Andrew Peecher; Hope College

Thu 2:20pm-2:40pm

*The Religious Neighborhood Partners Around Hamline University: A Study of Interfaith Collaboration*
Miranda Chimzar; Hamline University

**Thu 2:40pm-3:00pm**

*The Dichotomy of Religious Northern Ireland*
Timothy Simon; Lafayette College

White Hall Classroom Building 240

Microbiology & Immunology

**Thu 2:00pm-2:20pm**

*Identification of Bacterial Contaminates and Evidence for Temperate Phages in Beerwell Samples from a Bioethanol Production Facility*
Charles Coomer; Western Kentucky University

**Thu 2:20pm-2:40pm**

*TLS Phage Pathogenesis*
Sean Schrank; Wisconsin Lutheran College

**Thu 2:40pm-3:00pm**

*Integrating Phage Therapy into Western Medicine*
Jacob Jaminet; Virginia Commonwealth University

White Hall Classroom Building 241

Chemistry

**Thu 2:00pm-2:20pm**

*Studies on the Enantioselective Synthesis of DAB-1*
Anasheh Sookezian; Occidental College

**Thu 2:20pm-2:40pm**

*Synthesis of specialty imidazolium-based ionic liquids: chiral ILs and isotopically enriched ILs.*
Eric Sylvester; State University of New York, Brockport

**Thu 2:40pm-3:00pm**

*The Synthesis and Electrochemistry of 1,1'- Disubstituted Cobaltocenium Compounds*
Eugene Warnick; Lafayette College
Oral Session 2

White Hall Classroom Building 242

Neuroscience

Thu 2:00pm-2:20pm
Biochemical & Morphological Characterization of Presynaptic RIM-Binding Protein (RIM-BP) 1/2 Double Knock-Out Mice.
Aneysis Gonzalez-Suarez; Florida International University

Thu 2:20pm-2:40pm
Activation of Lateral Amygdala Neurons Correlates with Repetitive Seizure Activity in Rats
Alison Rossi; Appalachian State University

White Hall Classroom Building 243

International Studies

Thu 2:00pm-2:20pm
Neo-Colonialism in Africa or Continental Imprisonment: Who to Blame?
Awa Gaye; SUNY Geneseo

Thu 2:20pm-2:40pm
Influences on GM Food Policy in Southern Africa
Olivia Lewis; Lafayette College

Thu 2:40pm-3:00pm
Problematizing Decentralization: The Effects of Class on Political Participation in Africa
Lyndsey Czapansky; Hendrix College

White Hall Classroom Building 244

Social Work

Thu 2:00pm-2:20pm
LGBT Homeless Youth in Boston, Massachusetts: Experiences Regarding Resources and Potential Barriers
Brittney Connery; Bridgewater State University

Thu 2:20pm-2:40pm
Beating South Africa’s Endless Plague: Making Life Easier for HIV/AIDS Orphans
Shannon Garrity; Bridgewater State University

Thu 2:40pm-3:00pm
From Cultural Incompetence to Border Patrol: Barriers Preventing Child Welfare Caseworkers from Serving Latino Immigrants
Kurstin Mazzoni; University of Wisconsin, Whitewater

White Hall Classroom Building 245

Biology

Thu 2:00pm-2:20pm
Gene Sequencing of Three-Finger Toxins in Coral Snakes
Jillian Krings; Hendrix College

Thu 2:20pm-2:40pm
Serine Proteases in the venom of the Yucatan Rattlesnake
Ana Caudillo; University of Northern Colorado

Thu 2:40pm-3:00pm
Gene expression level of serotonin receptor and aggressive behavior in crayfish, Procambarus Clarkii
Jeewon So; Colgate University

White Hall Classroom Building 246

Nursing

Thu 2:00pm-2:20pm
The Relationship Between Hair Loss and Other Cancer-Related Symptoms Among Women with Ovarian Cancer
Elizabeth Skrovanek; University of Pittsburgh School of Nursing

Thu 2:20pm-2:40pm
Association between nausea and other gut-brain axis symptoms among women receiving chemotherapy for recurrent ovarian cancer
Leah Rosenblum; University of Pittsburgh School of Nursing
Oral Session 2

Thu 2:40pm-3:00pm
Lung Cancer Worry and Home Screening for Radon and Secondhand Smoke in Renters
Marissa Hooper; University of Kentucky

White Hall Classroom Building 247

Sociology

Thu 2:00pm-2:20pm
Food Disparities: A Qualitative Analysis of the Effects of Accessibility, Ethnicity and Gentrification in Food Choices of Residents in the District of Columbia Utilizing Elite Theory
Natalya Romo; Howard University

Thu 2:20pm-2:40pm
Do You Know What You’re Eating?: A Triangulative Analysis of the Effects GMOs Have on Americans’ Health Utilizing the Hippocratic Theory
Tiffany Malone; Howard University

Thu 2:40pm-3:00pm
A Triangulative Analysis of Food Production, Distribution and Consumption in Washington, DC Utilizing the Critical Race and Marxist Theories
Paula Onemu; Howard University

White Hall Classroom Building 303

Mathematics

Thu 2:00pm-2:20pm
A Simplified AES with Field Characteristic 3
Suzanne Craig; Boise State University

Thu 2:20pm-2:40pm
On the flag enumeration of the subspace lattice
Cyrus Hettle; University of Kentucky

Thu 2:40pm-3:00pm
Transversal Theory and Reverse Mathematics
Noah Hughes; Appalachian State University

White Hall Classroom Building 306

Media Studies

Thu 2:00pm-2:20pm
The Caped Crusader Then and Now: An Analysis of Batman as an Evolving Cultural Icon
Elizabeth Wambheim; St. Catherine University, St. Paul

Thu 2:20pm-2:40pm
Challenges to an Independent and Impartial Moldovan Media
Rachel Minske; University of Wisconsin, Eau Claire

Thu 2:40pm-3:00pm
The Man Behind the Mask: The Progression of Masculinity in African American Male Characters as seen in films Awarded the NAACP Image Award for Outstanding Actor in a Motion Picture
Aaron Bledsoe; Marquette University

White Hall Classroom Building 316

Sociology

Thu 2:00pm-2:20pm
She versus He: Explaining How the Biological and Mental Differences in the Female and Male Body Causes a Large Division Among the Sexes: Using the Sexual Difference Theory
Richel Duncan; Howard University

Thu 2:20pm-2:40pm
The Affects of Gender Differences in Preschool
Madison Crookham; College of Idaho

Thu 2:40pm-3:00pm
Sexual Onset in Adolescents
Kristin Prescott; Black Hills State University
Oral Session 2

White Hall Classroom Building 331

English

Thu 2:00pm-2:20pm
Using critical thinking to enhance language acquisition: A case study on the role of group work in mainstream classrooms
Kimberly Lilienthal; Elon University

Thu 2:20pm-2:40pm
Interdisciplinary Writing Survey
Marisa Incremona; Northern Arizona University

Thu 2:40pm-3:00pm
“The Passing of the Test is Inconsequential”: Exploring the Relationship Between Advanced Placement English Literature and Composition Courses and First-Year Composition Courses
Allyson Hoffman; Hope College

White Hall Classroom Building 333

Literature

Thu 2:00pm-2:20pm
‘Aggressive disintegration in the individual’: A Lacanian Study of Signification and Self in King Lear
Alexander Muller; Winthrop University

Thu 2:20pm-2:40pm
To “Beg for grace in vain”: Intermedial Asides and the Transmedial Shift from Titus Andronicus to Titus
Colin Loeffler; North Central College

Thu 2:40pm-3:00pm
Shakespeare's Prospero: A Rehabilitated Faustus
Andrew Harris; Winthrop University

White Hall Classroom Building 334

History

Thu 2:00pm-2:20pm
Alexander Chery; University of Wisconsin, La Crosse

Thu 2:20pm-2:40pm
Maryland's United States Colored Troops in the Civil War
Daniel Scotten, Hassan Zaheer; Stevenson University

Thu 2:40pm-3:00pm
Movements from Fear
Rebecca Renfroe; University of Kentucky

White Hall Classroom Building 335

Anthropology & Archeology

Thu 2:00pm-2:20pm
Education and Changing Perceptions of Stuttering
Tiffani Kittilstved; Eastern Washington University

Thu 2:20pm-2:40pm
Malawian Women's Pounding Songs
Giulia Perucchio; University of Rochester

Thu 2:40pm-3:00pm
Nepalese Language Endangerment
Holly Frazier; Eastern Washington University

White Hall Classroom Building 336

Literature

Thu 2:00pm-2:20pm
Clues from the Coroner’s Report A Reading of T.S. Eliot’s The Waste Land under the Lens of the Metaphysical Detective Story
Mary Thompson; Seattle University

Thu 2:20pm-2:40pm
What the Thunder Said: An Aesthetic Perspective of the Cultural Crisis in 20th Century Europe through the Poetry of T.S. Eliot and the Philosophy of Martin Heidegger
Emily Long; Appalachian State University

Thu 2:40pm-3:00pm
Evan Arceneaux; Valparaiso University
Oral Session 2

White Hall Classroom Building 337

Communications

Thu 2:00pm-2:20pm
Terrorist, Activist, or Victim: A Cross-Cultural Study of Palestinian Labels in International Media
Jenna Potter; Hamline University, St. Paul

Thu 2:20pm-2:40pm
The Effect of Social Media on Political Awareness
Jordan Sakal; Eastern Connecticut State University

Thu 2:40pm-3:00pm
The Gaza-Israel Conflict: How the Media Represents Israelis and Palestinians in 2012
Lauren Meintsma; Luther College

White Hall Classroom Building 338

Mathematics

Thu 2:00pm-2:20pm
Prismoid Unfoldings and Applications to Prismatoids
Arun Jambulapati; University of Memphis

Thu 2:20pm-2:40pm
Perfect Powers in Orbits of Rational Functions
Jacob Spear; Carleton College

Thu 2:40pm-3:00pm
Estimating the Volatility in the Black-Scholes Formula
Rebecca Keenan; Eastern Connecticut State University

White Hall Classroom Building 339

Anthropology & Archeology

Thu 2:00pm-2:20pm
Family, Physicians and Physicality: Ovarian Cancer as a Social Experience
Savannah Tenney; Wheaton College - Massachusetts

Thu 2:20pm-2:40pm
A Family Reunion: Why Kinship is Still Important
Chi Woodrich; University of Kentucky

Thu 2:40pm-3:00pm
Pulling Apart, Coming Together
Ashley Wahnschaff; Loyola University Chicago

White Hall Classroom Building 340

Economics

Thu 2:00pm-2:20pm
Does the Success of a Major Sports Team Affect Sales Tax Revenues for its State?
Matthew Wilson; University of Kentucky

Thu 2:20pm-2:40pm
Irrational Behavior in American Football: A Game Theory Approach
Samuel Wolkenhauer; Eastern Washington University

Thu 2:40pm-3:00pm
An Economic Study of the Richmond Hill Disc Golf Course
Haley Mahoney; University of North Carolina, Asheville

White Hall Classroom Building 341

International Studies

Thu 2:00pm-2:20pm
Prerequisites to a Successful Democratic Transition
Melis Cengiz; American University

Thu 2:20pm-2:40pm
The (D)evolution of the Security Council: A Four-Part Case Study on the post-Cold War Use of the Veto
Rebekah Leo, Sarah Terlizzi; Randolph College

Thu 2:40pm-3:00pm
The Dance Dilemma: An Analysis of the Implications of Dance on Soft Power During the Cold War
Anjali Mehta; American University

White Hall Classroom Building 342

Chemistry

Thu 2:00pm-2:20pm
Citrate Content of Bone: A Potential Measure of Postmortem Interval
Charles Froome; State University of New York, Brockport
Oral Session 2

Thu 2:00pm-2:20pm
Human Scent Differentiation by Demographic Variables
James Roach, Cianna Bedford, Andrew Roy; Saint Olaf College

Thu 2:20pm-2:40pm
Preparation of EDOT-Functionalized Ferrocene Derivatives for Glucose Sensor Applications
Caitlin Kozack; Hope College

White Hall Classroom Building 343

Linguistics & World Languages
Thu 2:00pm-2:20pm
From Typewriters to Database: The Challenges and Rewards of Transcribing Cooke’s Manuscript
Angela Cone, Lauren Griffith, Jay Koller; California University of Pennsylvania

Thu 2:20pm-2:40pm
A Portrait of Cooke’s Manuscript: The Cultural and Educational Value of Archival Transcription
Jay Koller, Angela Cone, Lauren Griffith; California University of Pennsylvania

Thu 2:40pm-3:00pm
The Focus and Aim of the American Philosophical Society and Charles A. Cooke’s Collection, Transcription, and Digitalizing of Iroquois Names into a Database
Lauren Griffith, Angela Cone, Jay Koller; California University of Pennsylvania

White Hall Classroom Building 345

Engineering/Engineering Technology
Thu 2:00pm-2:20pm
A Methodology for Addressing Bicycle / Motor Vehicle Conflict Zones
Christopher Sobie, Jason Luque; Northern Arizona University

Thu 2:20pm-2:40pm
Infrastructure and Area Characteristics at Bicycle-Truck Collision Sites in New York City
Nazana Weeks; Macaulay Honors College - City College

Sustainability
Thu 2:40pm-3:00pm
Bicycling Infrastructure and the Revitalization of the American City
Evangeline Shaw; Virginia Commonwealth University

White Hall Classroom Building 346

Communications
Thu 2:00pm-2:20pm
Winning a war of ideals: The neglected use of artistic expression in cultural diplomacy
Tess Duncan; Elon University

Thu 2:20pm-2:40pm
Musicians as Diplomats: Frames Used in Domestic Media News Coverage of International Jazz Tours
Elena Meskhidze; Elon University

Thu 2:40pm-3:00pm
Who Am I?: An Exploration of Jazz Vocalists’ Identity Communicated Through Performance
Alyssa Allgood; North Central College

White Hall Classroom Building 347

Computer Science
Thu 2:00pm-2:20pm
Wireless Sensor Network for Seismic Data Acquisition of Mount Cameroon
Saboor Salaam; Howard University

Thu 2:20pm-2:40pm
Monitoring Honeybee Hives Using the Raspberry Pi
Nathan Hernandez, Michael Crawford, Aleksander Ratzloff; Appalachian State University

Thu 2:40pm-3:00pm
Space Shooter Game Implemented in Verilog on Spartan-3E FPGA
Jason Ellers; Utah Valley University
Oral Session 2-3

White Hall Classroom Building 349

History

Thu 2:00pm-2:20pm
More Than a Pretty Picture: The Function of Art in the Plague Years
Shellie Clark; State University of New York, Brockport

Thu 2:20pm-2:40pm
Depictions of Discord: The Sectarian Murals of Northern Ireland
Ellen McKinstry; Carleton College

Thu 2:40pm-3:00pm
Guatemalan Civil Patrols: An Investigation of Pictorial Representations, Community Transformation, and Historical Memory
Anna Harris; Lafayette College

SESSION 3

Fine Arts Building 0308B

Music Research and/or Analysis

Thu 3:30pm-3:50pm
Gustav Mahler’s Use of Different Trumpets in Symphonic Writing
David Marvel; Appalachian State University

Thu 3:50pm-4:10pm
Altered but Not Silenced: How Shostakovich Retained His Voice as an Artist despite the Demands of a Dictator
Hope Strayer; Cedarville University

Thu 4:10pm-4:30pm
David Starobin and the Development of Guitar Literature in the 20th Century
George Tabor; Appalachian State University

Fine Arts Building 106

Women and Gender Studies

Thu 3:30pm-3:50pm
Fashion in the Face of Fear
Sarah Orler; University of Evansville

Thu 3:50pm-4:10pm
Colorism: Perceptions of Beauty
Brittney Long; University of Wisconsin, La Crosse

Thu 4:10pm-4:30pm
Palm Trees and Cement Dreams: The Migration of Caribbean Women, from the Anglo-Caribbean to New York City, 1900-1945
Sherri Cummings; Brooklyn College

Fine Arts Building 17

Biology

Thu 3:30pm-3:50pm
THE EFFECTS OF DIET, ECOLOGY, AND PHYSIOLOGY ON THE EVOLUTION OF ENDOThERMIC GASTROINTESTINAL TRACT LENGTHS
Thomas Linscott; University of Tulsa

Thu 3:50pm-4:10pm
Determining megakaryocytes in ground squirrels throughout hibernation
Molly Fahrenkrog; University of Wisconsin, La Crosse

Thu 4:10pm-4:30pm
Estimating Body Fat Content in the Black Spiny-Tailed Iguana using Body Condition Indices
Harvir Grewal; Truman State University

Fine Arts Building 208

History

Thu 3:30pm-3:50pm
U.S.-Argentine Relations in the Cold War: Operation Condor and the Argentine Nuclear Program, 1976-1983
Robert Belle; University of Wisconsin, La Crosse

Thu 3:50pm-4:10pm
From Immigrants to Emigrants: The Argentine Brain Drain of the 21st-Century
Mitchell Stith; Capital University

Thu 4:10pm-4:30pm
Samuel Tomten; Carthage College
Oral Session 3

Fine Arts Building 004

Music Research and/or Analysis

Thu 3:30pm-3:50pm
Strengthening Your Core: The Rise of Violons du Roi
Jacob Tudor; Cedarville University

Thu 3:50pm-4:10pm
When Students Switch Instruments: Techniques for Successful Embouchure Change
R Cloud, Jaime Escatel; Eastern Illinois University

Thu 4:10pm-4:30pm
Learning to Play: Cognitive and Physical Development and Requirements of Young Piano Students.
Amy Carmichael; Cedarville University

Fine Arts Building 006

Sociology

Thu 3:30pm-3:50pm
A "New American Bourgeoisie"?: A Qualitative Analysis of Reality Television Families’ Rise to Prominence Using Cultural Selection and Social Learning Theories
Tamara Finlayson-Fuller; Howard University

Thu 3:50pm-4:10pm
"Mickey Got it Wrong, Eh?: Disney EPCOT's Stereotyping of Canadian Culture"
Kasie Durkit; Bowling Green State University

Thu 4:10pm-4:30pm
LGBTQ: Television’s Relationship With Same-Sex Marriage Legislation
Kathryn Fagan; Hendrix College

Lucille Caudill Little Fine Arts Library 301

Interdisciplinary Studies

Thu 4:10pm-4:30pm
Porn and Prejudice: Positive and Intentional Relationships with Pornography
Katherine Granath; Seattle University

Lucille Caudill Little Fine Arts Library 302

Literature

Thu 3:30pm-3:50pm
Types of Literature Produced by Korean Adoptees
Katelyn Wescoat; Hope College

Thu 3:50pm-4:10pm
Germany's Capital: The National Identity and External Reputations of Berlin
Bryce Jones; Ohio State University

Thu 4:10pm-4:30pm
Atomic Colossus: (Re)presenting the Atomic Bombings of Hiroshima and Nagasaki
Taylor Waring; University of Wisconsin, Oshkosh

Patterson Office Tower 107

Criminology

Thu 3:30pm-3:50pm
An Analysis of the Motivation of Female Serial Killers
Brian Rodrigues; Virginia Commonwealth University

Thu 3:50pm-4:10pm
Intimate Partner Violence and Pregnancy: Factors, Prevalence, and Consequences
Angélique Blake; Iona College

Thu 4:10pm-4:30pm
The Impact of Prison Deinstitutionalization on Community Treatment Services
Karla Alfaro; City University of New York

International Studies

Thu 3:30pm-3:50pm
What’s Love Got to Do With it: Hybridization of Marriage in the Ashanti Region, Ghana
Katie Rawls; Hamline University
Oral Session 3

Patterson Office Tower 108

Physiology

Thu 3:30pm-3:50pm
Role of Hydrogen Sulfide in Homocysteine Induced Neurovascular Remodeling
Philip Kyles; Eastern Kentucky University

Thu 3:50pm-4:10pm
Investigating how cold-acclimation resets intrinsic heart rate in Trachemys scripta
Theresa Cho; University of Alaska Anchorage

Thu 4:10pm-4:30pm
The Effects of Mild, Moderate and Extreme Hypothermia on the Viability of Excised Ciona intestinalis Hearts
Katherine Holloway; Winthrop University

Patterson Office Tower 110

Physics

Thu 3:30pm-3:50pm
Analyzing topological defects in disordered charge density waves in transition-metal dichalcogenides TaS2 and TaSe2
Danielle Schaper; Berea College

Thu 3:50pm-4:10pm
Spray Pyrolosis of Zinc Tungstate Thin Films
Brandon Zink; University of Wisconsin, La Crosse

Thu 4:10pm-4:30pm
Synthesis and exploration of Half-Metallic Heusler Alloys
Kyle Godbey; Berea College

Patterson Office Tower 112

Nutrition

Thu 3:30pm-3:50pm
Protein Shakes for Muscle Rehabilitation
Selina Ribnick, Jasmine Turner, Lauren Boggs, Michael Muchmore; University of Memphis

Thu 3:50pm-4:10pm
Protein vs. Carbohydrate Supplementation Effects on Endurance Runners
Holly Reiland; University of Minnesota

Thu 4:10pm-4:30pm
Enhancing the Nutritional Quality of Flour Tortillas: An Investigation of Consumer Receptivity to a Fortified Tortilla Product
Anna Hayes; St. Catherine University, St. Paul

Patterson Office Tower 113

Astronomy

Thu 3:30pm-3:50pm
Analysis of the Effect of Mosaics on Principle Component Analysis
Sean Hoyt; Rowan University

Thu 3:50pm-4:10pm
Testing Normalization Schemes of Uncalibratable NIR Spectral Images of Mars Using Principal Component Analysis
Sarah Kessler; Rowan University

Thu 4:10pm-4:30pm
Using PCA With the 2 µm Band Excluded Over Normalization Schemes to Analyze Uncalibratable NIR Spectral Images of Mars
Phillip Chandler; Rowan University

Patterson Office Tower 145

Psychology

Thu 3:30pm-3:50pm
Core Personality Traits as Predictors of Social-Emotional Adjustment and Pre-Literacy Skills in Preschool Children
Olivia Lochner; Western Carolina University

Thu 3:50pm-4:10pm
Designing the Most Beneficial Psychological Intervention Programs to Prevent Depression and Anxiety in Pediatric Oncology Patients During Diagnosis and Treatment
Sarah Rogan; Virginia Commonwealth University

Thu 4:10pm-4:30pm
Effective Treatments for the Psychological Factors Associated with Pediatric Cancer
Arifa Zaidi; CUNY Brooklyn College
Patterson Office Tower 003

Political Science

Thu 3:30pm-3:50pm
"Not Utilizing the Right After The Fight": A Triangulative Analysis of the Disconnection between the Y Generation's Right to Vote and the Exercising of that Right Utilizing the Conflict Theory
Daniel Martin; Howard University

Thu 3:50pm-4:10pm
Strengthening the Electorate by Improving the Role of Student Government in United States Colleges
Diane Hahn; Carthage College

Thu 4:10pm-4:30pm
Is Western Carolina University Truly Purple?
Heather Britt, Matt Rains; Western Carolina University

Patterson Office Tower 005

History

Thu 3:50pm-4:10pm
The Vietnam War & The Vietnamese Experience
Alison Lange; Carthage College

Thu 4:10pm-4:30pm
How did the relationship with the Republic of France affect the Kingdom of Cambodia in the aftermath of the Khmer Rouge regime?
Tyler Luckett; Truman State University

Patterson Office Tower 007

Education

Thu 3:30pm-3:50pm
Model Rocket Launch and Simulation as a Pedagogical Tool
Elly Couch, Kayla Dailey, Baillie Graves; University of North Alabama

Thu 3:50pm-4:10pm
Achieving "The Best Moments in Learning": A Comparative Analysis of Pedagogical Methodologies in a Traditional American Public High School and a STEM Academy.
Sarah O'Hare; Eastern Washington University

Thu 4:10pm-4:30pm
Getting Middle School Students Interested in STEM
Lydia Speler, William Schooler; University of Kentucky

Patterson Office Tower 009

English

Thu 3:30pm-3:50pm
Functional Illustration - A Unified Mode
Kelly Mullins; Montana State University, Bozeman

Thu 3:50pm-4:10pm
Digital Literature Review: Building an Undergraduate Academic Journal
Lauren Lutz, Shelby Hatfield, Esther Wolfe, Wendy Faunce, Jared Lynch, Kameron McBride, Jared Lynch, Ashley Starling; Ball State University

Thu 4:10pm-4:30pm
High School Journalism and Media Literacy in the Modern Classroom
Alan Hoffmann; Montana State University, Bozeman

Singletary Center - President's Room

Music Arranging

Thu 3:30pm-3:50pm
Is Silence Golden: Creating a Soundtrack for a Silent Film
Brandon Douglas; Albion College

Music Original Composition

Thu 3:50pm-4:10pm
Orchestration of a Large Scale Music Composition
Jordan Chase; Keene State College

Thu 4:10pm-4:30pm
The Harmony Initiative
Justin Beebe, David Myers, Josh Blue; Western Carolina University
White Hall Classroom Building 102
Psychology

Thu 3:30pm-3:50pm
The Effect of Modality and Gender on the Acquisition of Anecdotal Information
Nathan Roberts; Olivet Nazarene University

Thu 3:50pm-4:10pm
The Effects of Gender Priming on Memory
Asli Ahmed; Hendrix College

Thu 4:10pm-4:30pm
Bullying: Different types of Defending Behaviors and Social Skills
Erin Tomasino, Chloe Suchy; Eastern Illinois University

White Hall Classroom Building 110
Psychology

Thu 3:30pm-3:50pm
Bullying: Different types of Defending Behaviors and Social Skills
Erin Tomasino, Chloe Suchy; Eastern Illinois University

Thu 3:50pm-4:10pm
Emotional and Behavioral Health Characteristics of Adolescents Who Carry Guns to School
Sudip Bhandari; St Olaf College - Admissions

Thu 4:10pm-4:30pm
An In-Depth Study of Crisis Intervention Team (CIT) Effectiveness: The Bexar County, Texas Model
Catherine Hill; University of the Incarnate Word

White Hall Classroom Building 114
Psychology

Thu 3:30pm-3:50pm
Why Do Infants Attend to a Speaker’s Mouth?
Briana Faringer; Ithaca College

Thu 3:50pm-4:10pm
Camp Ramapo: An Evaluation of an Education and Behavior Modification Program for Autistic Youth
Jamon Pulliam; Tuskegee University

Thu 4:10pm-4:30pm
Skill Acquisition in Typing
Emily Paolillo; Brooklyn College

White Hall Classroom Building 122
Psychology

Thu 3:30pm-3:50pm
Testing a Dual Pathway Model of Disrespect
Kathleen Kiger, Victor Bullock, Amelia Perry; Longwood University

Thu 3:50pm-4:10pm
The Prevalence of Isolated Sleep Paralysis Among African Americans
Michaela Crutsinger; Virginia Commonwealth University

Thu 4:10pm-4:30pm
Hip-Hop and Black Identity: A Psychological Study Explaining How Modern Hip-Hop Relates to Black Identity and How It Has Created Signs of Complacency in Today's African-American Youth Culture
Neena Speer; Howard University

White Hall Classroom Building 201
History

Thu 3:30pm-3:50pm
Livy's and Polybius’ Narrative of Hannibal and the Presentation of Rome's Military Machine
Jordan Slavik; Saint Louis University

Thu 3:50pm-4:10pm
“'The Grand and Terrible March': How Confederate Perceptions of the Savannah Campaign Influenced Sherman's Success
Joshua Whitfield; Mercer University

Thu 4:10pm-4:30pm
Attempts to Stop the Bleeding: Aid Societies and Family Conflict during Bleeding Kansas in Linn and Bourbon Counties
William McClure; University of Evansville
Oral Session 3

White Hall Classroom Building 203

Health Sciences & Public Health

Thu 3:30pm-3:50pm
Are You Satisfied? : An Evaluation of Participant Satisfaction of Adults with Developmental Disabilities Receiving Service from the People Achieving Connections Together (PACT) Center
Briana Bonner; Truman State University

Thu 3:50pm-4:10pm
Explaining State Variation in Medicaid Expenditures
Deina Bossa; University of Florida

Thu 4:10pm-4:30pm
Music and Art in Medicine: A Pre-Health & Medical Student Initiative to Improve Quality of Life for Nursing Home and Assisted Living Residents
Jade Heverly-Campbell; University of Texas, San Antonio

White Hall Classroom Building 205

Ecology & Organismal Biology

Thu 3:30pm-3:50pm
SHORT-TERM RESPONSE OF THE BENTHIC MACROINVERTEBRATE COMMUNITY TO CATASTROPHIC FLOODING IN CENTRAL PENNSYLVANIA
Samuel Silknetter; Susquehanna University

Thu 3:50pm-4:10pm
Small mammal responses in relation to vegetation recovery in patch-burn grazing pastures
Armand Cann; Xavier University

Thu 4:10pm-4:30pm
To Forage, or not to Forage: The Perception of Fear in Phodopus sungorus
Amber Moore; Ithaca College

White Hall Classroom Building 204

Political Science

Thu 3:30pm-3:50pm
An Evaluation of the Morality of the United States’ Justice System in Terms of the Social Contract Theory
Johnnedra Robinson-Mackey; Howard University

Thu 3:50pm-4:10pm
Discrepancies in Sentencing of Juvenile Offenders with Disabilities
Grayson Keating; Western Carolina University

Thu 4:10pm-4:30pm
The Failure of Traditional Incarceration Measures: The Need for Alternative Sentencing
Cooper Jones; Xavier University

White Hall Classroom Building 207

African American Studies

Thu 3:30pm-3:50pm
The “Outlaw Woman” in Black Women’s Fiction: A Literary Response to the Politics of Respectability
Danielle Procope; University of the Pacific

Thu 3:50pm-4:10pm
Solidarity is Reserved for White Women: Examining the Exclusionary Role Plaguing Women of Color in American Feminism Utilizing the Sexual Difference and Critical Race Theories
Jelicia Diggs; Howard University

Thu 4:10pm-4:30pm
Zenani Greenwell; Howard University
Oral Session 3

White Hall Classroom Building 208

Interdisciplinary Studies

Thu 3:30pm–3:50pm
Sexual Health of Freshmen Females living in residences halls of UW-Stout
Stephanie Hintz; University of Wisconsin, Stout

Marketing

Thu 3:50pm–4:10pm
College Students’ Responses to Advertising Appeals on Condoms
Alison Chan, Ryan Milan; Central Connecticut State University

Nursing

Thu 4:10pm–4:30pm
Reducing Risk and Improving Protective Factors in Teen Dating Violence
Linden Wu; University of Pittsburgh School of Nursing

White Hall Classroom Building 209

Biochemistry

Thu 3:30pm–3:50pm
The Oxidative Mechanism of Docosahexaenoic Acid: The Relationship to Attention Deficit Hyperactivity Disorder
Rebecca Schneider; Elon University

Thu 3:50pm–4:10pm
MitoNEET: Reduction in Insulin Resistance through Ameliorated Oxidative Stress?
Nicolas Ferry, Megan Laffoon; Eastern Illinois University

Thu 4:10pm–4:30pm
Analysis of the Oligomeric State of MitoNEET: A Novel Type-2 Diabetes Drug Target
Jacquelyn Crail; Eastern Illinois University

White Hall Classroom Building 211

Biological Engineering

Thu 3:30pm–3:50pm
Effectiveness of Single Chamber Microbial Fuel Cell
Sajeeda Chin; Howard University

Thu 3:50pm–4:10pm
Psychological and Physical intervention on the outcome of Hematopoietic Stem Cell Transplantation
Savraj Saggu; Virginia Commonwealth University

Thu 4:10pm–4:30pm
Macrophages as the Carriers of Multistage Vector Abraxane in Liver Metastases: Insights into the Mechanism In-Vitro
Pooja Yesantharao; Rice University

White Hall Classroom Building 212

Sociology

Thu 3:30pm–3:50pm
Modern Day Abolitionists: Ideology, Conflict, and Coalitions in the Anti-Human Trafficking Movement
Lilly Yu; Rice University

Thu 3:50pm–4:10pm
Violence Against Housemaids in the State of Qatar
Maryam Al Yafei; Qatar University

Thu 4:10pm–4:30pm
How we should address aid in Zimbabwe, for a better tomorrow.
Bernice Jere; Salisbury University

White Hall Classroom Building 213

Religious Studies

Thu 3:30pm–3:50pm
Mr. Moyers Goes To Myth Land: The Power of Myth Revisited
Daniel Gorman Jr.; University of Rochester

Thu 3:50pm–4:10pm
Onions, Batkid and Jesus: Living Dostoevsky’s Good Life
Mackenzie Moody; Western Carolina University
Thu 4:10pm-4:30pm
Kali Bhakti: Re-Entering the Womb of the Great Mother
Nicole Petersen; Hamline University

White Hall Classroom Building 214

Biology

Thu 3:30pm-3:50pm
Ploidy modulation of field pennycress (Thlaspi arvense) provides tools for development of a biodiesel feedstock and winter cover crop
Kirk Amundson; University of Minnesota

Thu 3:50pm-4:10pm
Creating time-lapse movies of plant growth and development
Cody Groen; Saint John’s University

Thu 4:10pm-4:30pm
OPTIMIZATION OF BIOGAS PRODUCTION CONDITIONS USING PILOT SCALE MESOPHILIC AND THERMOPHILIC ANAEROBIC DIGESTERS
Victoria Dillard; Howard University

White Hall Classroom Building 215

Business/Finance/Accounting

Thu 3:30pm-3:50pm
A Proposal to Change the Deduction for Employee Stock Options and Stock Grants
Christopher Margiotta; Fordham University

Thu 3:50pm-4:10pm
The Effect of the SEC’s Modernization of Oil and Gas Company Disclosures on Stock Prices
Katherine Buckle; Fordham University

Thu 4:10pm-4:30pm
Of Mice and Men: Financial Calamity and Press Coverage of the Dodd-Frank Act
Jared Poole; Abilene Christian University

White Hall Classroom Building 217

Engineering/Engineering Technology

Thu 3:30pm-3:50pm
Finite Element Sensitivity for Plasticity using Complex Variable Methods
Armando Gomez-Farias; University of Texas, San Antonio

Thu 3:50pm-4:10pm
Material Determination using Spark Observation
Raymond Dalke; Midwestern State University

Thu 4:10pm-4:30pm
Flexural Test of Repair Resin: Comparison of Experimental and FE Modeling Results
Rana Abdelsalam; East Carolina University

White Hall Classroom Building 219

Biology

Thu 3:30pm-3:50pm
Genetic Diversity of Monilinia vaccinii-corymbosi, a fungal pathogen of blueberry
Megan Miller; Eastern Illinois University

Thu 3:50pm-4:10pm
INTRON DEGENERATION IN THE LICHEN FUNGI TELOSCHISTES
Derek Kleier; University of Nebraska, Kearney

Thu 4:10pm-4:30pm
Mechanisms of Anti-fungal Resistance in Candida Albicans
Jasmine Vickery; Wayne State University

White Hall Classroom Building 231

Education

Thu 3:30pm-3:50pm
Confidence Building in English Language Learners
Alejandra Vazquez; Dominican University of California

Thu 3:50pm-4:10pm
Do Professors Grade International Students Differently?
Caroline Eckstrom; Dordt College
Oral Session 3

Thu 4:10pm-4:30pm
A Record of Success: Journaling in the Secondary English Classroom
Chelsea Bergmann; Winthrop University

White Hall Classroom Building 233

Thu 3:30pm-3:50pm
Oscillations in Power and Structure During the Transition to Defect Turbulence
Marcus Daum; George Mason University

Mathematics

Thu 3:50pm-4:10pm
Dynamics of Negatively-Refracted Light in Tilings
Jenny Rustad; Luther College

Engineering/Engineering Technology

Thu 4:10pm-4:30pm
Photon Detector Orientation for an Event Vetoing Scheme
Andrew Mahon; University of Minnesota, Twin Cities

White Hall Classroom Building 234

Engineering/Engineering Technology

Thu 3:30pm-3:50pm
CORRELATIONAL STUDY OF OPEN CIRCUIT RESONANT (SANSEC) SENSOR’S ELECTRIC FIELD DISTRIBUTION ON LIGHTNING ATTACHMENT
Kayla Farrow; Old Dominion University

Thu 3:50pm-4:10pm
Design of Rectangular Current Carrying Coils to Generate Controllable Magnetic Fields
Ryan Daniels; Lawrence Technological University

Thu 4:10pm-4:30pm
Magnetic and Electrostatic Hybrid Microstructures for Microfluidic and Microrobotic Applications
Tyler Flynn; University of Kentucky

White Hall Classroom Building 235

Communications

Thu 3:30pm-3:50pm
A Fantasy Theme Analysis of Twitter Being Used to Promote Online Dating Websites: #DatingAdvice?
Briana Maddalena; Juniata College

Thu 3:50pm-4:10pm
Consumer Engagement on Twitter and its Effect on Sales: A Content and Empirical Analysis of Twitter Use During an Award Show
Kyrstin Wallach; Elon University

Thu 4:10pm-4:30pm
Nothing Brings People Together Like Grumpy Cat: Internet Memes and Group Convergence
Elaine Johnson; University of Wisconsin, La Crosse

White Hall Classroom Building 237

Diversity Studies

Thu 3:30pm-3:50pm
Racial Insensitivity of Asian American Male Portrayals in Contemporary Media: Looking Inside Maxine Hong-Kingston’s China Men
Crystal Gu; University of the Pacific

Thu 3:50pm-4:10pm
A Defense of Reductionism: Issues in Personal Identity
Ryan Dougherty; Jacksonville University

Thu 4:10pm-4:30pm
Stoicism and Soldiering
Timothy Edgren; John Brown University

White Hall Classroom Building 238

History

Thu 3:30pm-3:50pm
The Slander Trials of Jane James: A New Model of Female Agency in Seventeenth-Century Massachusetts
Timothy Holliday; Xavier University
Oral Session 3

Thu 3:50pm-4:10pm
Late 19th Century British Imperialism and British Feminists’ Discourse on the “Plight” of Indian Women
Emma DeFontes; Seattle University

Thu 4:10pm-4:30pm
The Agency of Iroquois Women Through Corn
David Perrotto; Adelphi University

White Hall Classroom Building 239

Cell & Molecular Biology

Thu 3:30pm-3:50pm
Characteristics and Effects of Muscular Dystrophy in Broiler Chickens
Kayla Smith; Coastal Carolina University

Thu 3:50pm-4:10pm
Discovery of Novel Arenavirus NP-Host Factor Interactions via the Yeast-Two Hybrid System
Patrick Schupp; University of Rochester

Thu 4:10pm-4:30pm
Biomimetic Approaches in Cryopreservation
Blake Stokich; Eastern Illinois University

White Hall Classroom Building 240

Social Work

Thu 3:30pm-3:50pm
A Microenterprise Program Evaluation in Urban and Rural Minnesota
Caitlyn Wright, Eleanor O’Neil; St. Catherine University, St. Paul

Thu 3:50pm-4:10pm
Opinions on Immigration Throughout the Geographic Regions of Kentucky
Tyler Davoren; University of Kentucky

Thu 4:10pm-4:30pm
Breaking Down Long-Term Care: A Comparative Analysis of Long-Term Care in the United States and Taiwan
Stephanie Skees; George Mason University

White Hall Classroom Building 241

Computer Science

Thu 3:30pm-3:50pm
An Implementation of a Biological Data Management System
Jaleesa Harrigan; Howard University

Thu 3:50pm-4:10pm
Building a bioinformatics software pipeline for large-scale genome comparisons
Joedocei Hill, Daylynn Allison; University of Kentucky

Thu 4:10pm-4:30pm
Design and Implementation of Apriori and K-means Parallel Data Mining Algorithms
Erich Hohenstein; Morehead State University

White Hall Classroom Building 242

Media Studies

Thu 3:30pm-3:50pm
The Disneyization of Tomorrow: Walt Disney’s Carousel of Progress and the Dystopian Picture it Paints
Kelly Rasmussen; North Central College

Thu 3:50pm-4:10pm
Analysis of Physical Appearance of Antagonists/Protagonists in Classic Disney Movies
Aisha Rehman; Wayne State University

Thu 4:10pm-4:30pm
KET Television Show: The Process
Pamela Hammond; Morehead State University

White Hall Classroom Building 243

Anthropology & Archeology

Thu 3:30pm-3:50pm
Compression Testing of Deer Femora as an Animal Model for Automobile Accidents
Jennie Coffel; Western Carolina University
Oral Session 3

Thu 3:50pm-4:10pm
Patterns of Osteoarthritis in a Classic Period Mimbres Skeletal Sample
Chelsea Palmateer; Hamline University

Thu 4:10pm-4:30pm
The Effects of Intentional Cranial Deformation on Closure of the Sphenoid Fontanelle
Nambi Gamet; Eastern Washington University

White Hall Classroom Building 244

Thu 3:30pm-3:50pm
Exploring and Understanding Experiences and Developmental Stages of Healthy Siblings of Pediatric Oncology Patients
Allison Stark; University of Tennessee - Knoxville

Thu 3:50pm-4:10pm
Exploring the role of digital storytelling in pediatric oncology patients’ perspectives regarding diagnosis: A pilot study
Dabney Wilson; University of Tennessee - Knoxville

Thu 4:10pm-4:30pm
Identification of Student Nurses’ Perceptions of Nursing in Bengaluru India: A Photovoice Study
Chelsea Goodman, Abigail Pinto; Baylor University Waco-University Development

White Hall Classroom Building 245

Thu 3:30pm-3:50pm
Food Accessibility in Cincinnati, Ohio.
Pamela Meyerhofer; Xavier University

Thu 3:50pm-4:10pm
India’s Agricultural Crisis in Light of a Chayanovian Theoretical Framework
Max Snyder; Seattle University

Thu 4:10pm-4:30pm
Impact of Zero-Price Goods in Competitive Markets Using WTP Models
Cory Gunderson; University of Wisconsin, Stout

White Hall Classroom Building 246

Environmental Studies & Sciences

Thu 3:30pm-3:50pm
Density Mapping of Trees on the University of Illinois at Springfield Grounds using Cloud Enabled GIS.
Nate Hoyle; University of Illinois at Springfield

Thu 3:50pm-4:10pm
Evaluating Sustainability of Commuter Transportation at Western Carolina University
William Wood; Western Carolina University

Thu 4:10pm-4:30pm
Assessment of Environmental Awareness among Utah Valley University Students
Ashley Ostraff; Utah Valley University

White Hall Classroom Building 247

Education

Thu 3:30pm-3:50pm
Will Sell Manuscripts for Food: How Literary Agenting Provides a Practical Application to English Majors’ Post-Graduation Dilemma
Keilah Sullivan; Truman State University

Thu 3:50pm-4:10pm
Determining Research Priorities for Refugee and Immigrant Adolescent School Success
Summer Awad; University of Tennessee - Knoxville

Thu 4:10pm-4:30pm
Sherman Alexie and the Hybridity of the Native American Adolescent in Educational Systems
Katherine Day; Elon University

White Hall Classroom Building 303

Literature

Thu 3:30pm-3:50pm
Shakespeare’s Game of Thrones: “Hamlet” and the Elizabethan Succession Question
Tyler Auffhammer; Western Carolina University
Oral Session 3

Thu 3:50pm–4:10pm
Finding Elizabeth I in Shakespeare’s Richard II
Chelsea Chafin; Ohio State University

Thu 4:10pm–4:30pm
Political Theater in Richard II: Allusions to Queen Elizabeth That Inspired and Doomed the Essex Rebellion
Brierly Wills; Winthrop University

White Hall Classroom Building 306

Engineering/Engineering Technology

Thu 3:30pm–3:50pm
Short-Range Wireless Communications for Vehicular Ad hoc Networking
Joshua Blasius; Georgia Southern University

Thu 3:50pm–4:10pm
Autonomous Control of an Unmanned Ground Vehicle
Francis Chabotte, Randall Fisher, Jon Macomber; University of Northern Iowa

White Hall Classroom Building 316

Biology

Thu 3:30pm–3:50pm
Kinetic Identification of Membrane Transporters that Assist Transcellular Transport of P-gp Substrates Across Confluent Cell Monolayers
Aqsaa Chaudhry; Drexel University

Thu 3:50pm–4:10pm
Overexpression of atypical PKC influences MT integrity in HeLa Cells
Nikunj Talati; Wayne State University

Thu 4:10pm–4:30pm
Antimicrobial Properties of Hydrosols Isolated from Anthoxanthum (Poaceae) Against Soil Bacteria
Preston Manwill, Harsh Kansagra; Southern Utah University

White Hall Classroom Building 331

Sociology

Thu 3:30pm–3:50pm
Dissembling the Social: Following HIV through the Social Body
Samuel Pizelo; University of Washington, Seattle

Thu 3:50pm–4:10pm
El Sistema Nacional de Salud de España: A look into Spain’s health care system
Jessica McLamb; Western Carolina University

White Hall Classroom Building 333

Economics

Thu 3:30pm–3:50pm
Why here and not there? A look at participation in direct selling across countries
Kami Ehrich; Hamline University, St. Paul

Thu 3:50pm–4:10pm
Parameters of Predictability: A Numerical Approach to Trading Support and Resistance Trend Lines
Jacob Amos; Concordia College, Moorhead MN

Thu 4:10pm–4:30pm
CUSTOMS UNIONS AND TRADE LIBERALIZATION: AN EVALUATION OF THE NORTH AMERICAN FREE TRADE AGREEMENT
Jose Camacho; University of Texas, San Antonio
Oral Session 3

White Hall Classroom Building 334

Political Science

Thu 3:30pm-3:50pm
The Impact of Campaign Visits by Returning Presidential Candidates
Miles Foltynowicz; Southern Illinois University
Edwardsville

Thu 3:50pm-4:10pm
Table for Two: Why Third-Party Candidates Have a Winning Issue in Congressional Races
Gregory Lademann; Western Carolina University

Thu 4:10pm-4:30pm
How Do We Stack Up? Impact of Domestic and Comparative GDP per capita on Presidential Approval
Caroline Kelley; Hendrix College

White Hall Classroom Building 335

Computer Science

Thu 3:30pm-3:50pm
Using Computational Tools to Understand the Sounds of a Bee Hive
Dakota Murray; Appalachian State University

Thu 3:50pm-4:10pm
UTILIZING COMPUTER VISION TO CONTROL THE SPREAD OF HORN FLIES
Daniel Russell; University of Nebraska, Kearney

Thu 4:10pm-4:30pm
Network Traffic Routing Module for the Geni Desktop
Michael O’Brien, Kevin Andrew; University of Kentucky

White Hall Classroom Building 336

Art History

Thu 3:30pm-3:50pm
The Rosetta Stone: A Case for World Heritage
Debra Lustig, Megan Ligday; Radford University

Thu 3:50pm-4:10pm
The Roots of Modern American Museum Practices
Anthony Huffman; Centre College

Thu 4:10pm-4:30pm
Bringing it home: The Lexington Art League’s Artist Archive Project
Austin Martin, Olivia Lasheen; University of Kentucky

White Hall Classroom Building 337

Mathematics

Thu 3:30pm-3:50pm
Adaptive Test for Comparison of Several Treatments with a Control
Justin Staples; Utah Valley University

Thu 3:50pm-4:10pm
Modeling Mixing Effects on Harmful Algal Blooms in Eutrophic Lakes
Nicholas Myers, Jason Zellmer, Kimberly Siegler; University of Wisconsin, Milwaukee

Thu 4:10pm-4:30pm
Self-Stabilization under Minimal Liar’s Domination for Path Graphs
Rebecca Heinen, EmmaJulia Jones; North Central College

White Hall Classroom Building 338

Art History

Thu 3:30pm-3:50pm
A Consolidation of Art and Physics: The Ancient and Spiritual influences on Contemporary, Kinetic Installations
Ashley Smith; University of Central Oklahoma

Thu 3:50pm-4:10pm
Use, Emulation, or Both? Early 15th Century Sculptors’ Treatment of Antiquity in Florence
Eliza Graham; Colgate University
Thu 4:10pm-4:30pm
*Chimerical Genius: The Architecture of Francesco Borromini*
Emily Hagen; Truman State University

**White Hall Classroom Building 339**

**Chemistry**

**White Hall Classroom Building 340**

**Chemistry**

Thu 3:30pm-3:50pm
*A Novel Crystallization Technique for Glycine: Droplet Dehydration via Hydrogel*
Peter Vitale; Iona College

**White Hall Classroom Building 341**

**Communications**

Thu 3:30pm-3:50pm
*Interpersonal Communication and the Digital Era*
Yasmine Lozano; Eastern Illinois University

Thu 4:10pm-4:30pm
*Bullying Extended: Cyber Bullying and Personal Limitations*
Nicholas Kelly; Georgetown College

**White Hall Classroom Building 343**

**Interdisciplinary Studies**

Thu 3:30pm-3:50pm
*Love It to Death: Tracing Edgar Allan Poe in Alfred Hitchcock's Psycho*
Laura Ayala; Macaulay Honors College - Hunter

Thu 3:50pm-4:10pm
*Modern Lies: Deception Detection in CMC and FtF Platforms*
Phillip Barnett; University of Kentucky

Thu 4:10pm-4:30pm
*Control through Virtuality in the Dystopian Future of V for Vendetta*
Adam Jones; University of Utah
You Found a Way to Break Out: Self-Love as Revolution in Janelle Monáe’s The Electric Lady
Amelia Holmes; Western Carolina University

Thu 4:10pm-4:30pm
Mechanical Love: Objectification, Emptiness, and Potential for Change in The Waste Land
Bethany Wiersma; Valparaiso University

White Hall Classroom Building 345

Philosophy & Ethics

Thu 3:30pm-3:50pm
Aristotelianism and Obesity Legislation: How Capitalist Values and Governmental Regulation Can Successfully Co-Exist
Joseph Seipel; Bowling Green State University

Thu 3:50pm-4:10pm
A Contractarian Theory of Cooperation
Andrew Miles; Roanoke College

Thu 4:10pm-4:30pm
Can States “Promise”?  
Kevin Julka; Edgewood College

White Hall Classroom Building 346

Anthropology & Archeology

Thu 3:30pm-3:50pm
Racialized Paths and the Business of Township Tourism
Emily de Wet; Wheaton College - Massachusetts

Thu 3:50pm-4:10pm
An Alternative Vacation: Exploring and Evaluating Cultural Heritage Tourism in Jamaica
Michaela Santos, Zelmia Harvey, McKayla Hoffman, Alexandra Pivero; Bridgewater State University

Thu 4:10pm-4:30pm
Wondrous Water Works: Mycenaean Hydraulic Engineering as a Demonstration of Wealth
Corey Sadosky; Xavier University

White Hall Classroom Building 347

Mathematics

Thu 3:30pm-3:50pm
Zombie Dice: An Optimal Play Strategy
Heather Cook; Roanoke College

Thu 3:50pm-4:10pm
Extremism: Mediocrity Losing Version
Luis Ortiz; Morehead State University

Computer Science

Thu 4:10pm-4:30pm
Creation of a Video Game Genome: A Recommendation System Model
James Fisher; Truman State University

White Hall Classroom Building 349

English

Thu 3:30pm-3:50pm
Looking For Klickitat
Genevieve Hamilton; Anderson College

Thu 3:50pm-4:10pm
Narratology in Young Adult Literature: The Complexity of Age
Alice Sudlow; Elon University

Thu 4:10pm-4:30pm
Growth in the Garden: A Jungian Reading of the Orphans in “The Secret Garden”
Kayla Nelson; Russell Sage College

SESSION 4

Fine Arts Building 0308B

Engineering/Engineering Technology

Fri 9:00am-9:20am
Soil-Cement: Impacts of Cement Content, Water Content, and Curing Condition on Unconfined Compressive Strength of Soil-Cement
Prapat Kotpat; Norwich University
Fri 9:20am-9:40am
Ionic Liquid Carbon Fibers: The Replacement for Carbonized NARC
Richard Bray; University of Alabama in Huntsville

Fri 9:40am-10:00am
Determining a relationship between humidity magnitude and spider silk supercontraction
Michael Shearin; Clemson University

Fine Arts Building 106

Physics

Fri 9:00am-9:20am
Dielectric characterization of the n-doped polymer [P(NID2OD-T2)]
Pablo Sepulveda - Medina; University of Puerto Rico at Humacao

Fri 9:20am-9:40am
Metal-Polymer Bilayer Electrical and Optical Characterization Under Cyclic Temperature Conditions
Ryan Wilson; University of Memphis

Fri 9:40am-10:00am
Electrospun fibers of poly (vinylidene fluoride-trifluoroethylene)/ (P(NDI2OD-T2)) composites
Clarissa Vazquez Colon; University of Puerto Rico at Humacao

Fine Arts Building 17

Education

Fri 9:00am-9:20am
The Diminishing Public School Systems of New Jersey: A Triangulative Analysis of School Funding using Rational Choice Theory
Jasmin Randolph-Taylor; Howard University

Fri 9:20am-9:40am
A Comparative and Triangulative Analysis of School-Based Mental Health Reform in Washington, DC, New York City, Chicago, and Little Rock Using New Rhetoric Pedagogical Theory
Abraham Williamson; Howard University

Fri 9:40am-10:00am
Common misconceptions found in a statics course through discourse analysis of student learning logs
Christopher Green; Utah State University

Fine Arts Building 208

Biology

Fri 9:00am-9:20am
Investigating Sequence Variation in the Intelectin-1 Gene
Tamanna Gandhi; Adelphi University

Fri 9:20am-9:40am
The Effect of Forced Desynchrony on Glucocorticoid Regulation in Rats
David Renteria; Seattle University

Fri 9:40am-10:00am
Roles of TRPA-1 and TRPV-1 channels in learning and memory in Caenorhabditis elegans
Vanessa Neutzler; St. Edwards University

Fine Arts Building 004

Music Research and/or Analysis

Fri 9:00am-9:20am
The Impact of Heavy Metal
Daniel Kim; Virginia Commonwealth University

Fri 9:20am-9:40am
Coldplay’s “Viva La Vida”: An Analysis and Exploration of Interconnectedness
Meghan Stagl; Hope College

Fri 9:40am-10:00am
You Are What You Hear: The Formative Powers of Music
Johanna Raquet; Cedarville University

Fine Arts Building 006

English

Fri 9:00am-9:20am
Fragments of Cloth, Bits of Cotton, Lumps of Earth: James Agee and the Altered Book
Emily Wildhaber; Truman State University

Fri 9:20am-9:40am
Oral Session 4

Novel Contribution: The “Truer Truth” of Truman Capote’s In Cold Blood  
Chanda Canup; Anderson College

Fri 9:40am-10:00am  
She Just Wants to Live: Looking at Lux Lisbon in Jeffrey Eugenides’_The Virgin Suicides_ as a Metaphor for Cultural Events in the 1970’s  
Hannah Murphy; Peace College

Patterson Office Tower 108  
Nursing

Fri 9:00am-9:20am  
Examining the Impact of Anxiety and Prenatal BMI on Preterm Birth in Diverse Women  
Christina Thompson; University of Kentucky

Fri 9:20am-9:40am  
High-frequency ultrasound of breast tissue phantoms with histology-mimicking microstructures  
Robyn Omer, Audrey Butler; Utah Valley University

Fri 9:40am-10:00am  
Exploring Gender Differences in Colon Cancer Screening Knowledge and Health Beliefs among African Americans  
Kemi Olofinkua; Indiana University-Purdue University Indianapolis

African American Studies

Fri 9:00am-9:20am  
A Triangulative Analysis of the School-to-Prison Pipeline and Its Contribution to the Prison Industrial Complex System: A Capitalist Perspective  
Talitha Halley; Howard University

Fri 9:20am-9:40am  
Black Listed, Sentenced to Life: A Comparative Analysis of the Connection between Racial Inequality and Mass Incarceration of African Americans Versus Other Americans Utilizing Stratification Theory  
Daphney Landry; Howard University

Fri 9:40am-10:00am  
The Conflict of Justice: An Examination of the Racial Disparity Within the United States Criminal Justice System Utilizing the Conflict Theory  
Sharde Fleming; Howard University

Patterson Office Tower 107  
Film Studies

Fri 9:00am-9:20am  
“This Is Me, Yo, Right Here”: Wallace and Geocriticism in The Wire  
Justin Feit; Gustavus Adolphus College

Fri 9:20am-9:40am  
Are We the Freaks?  
Lauren Hitzhusen; Juniata College

Fri 9:40am-10:00am  
Closing the gap between knowledge and practise in stroke rehabilitation using online media  
Hayley NCUR® 2014 Young; University of Central Lancashire

Sustainability

Fri 9:00am-9:20am  
The Practice of Urban Planning in Japan: A Planning Summer Internship with the City of Yokosuka, Japan.  
George Laue; Eastern Washington University

Fri 9:20am-9:40am  
Testing the efficacy of Jatropha curcas to produce biodiesel for sustainable development and poverty alleviation in northern Nigeria  
Ibrahim Radda; American University of Nigeria

Fri 9:40am-10:00am  
School Feeding Programs: A Cross-National Comparison of Brazil and the US  
Crystal Johnson; San Diego State University

Patterson Office Tower 110
Oral Session 4

Patterson Office Tower 112

Poetry & Creative Writing

Fri 9:00am-9:20am
Skewed Perspectives
Megan Moore; University of Wisconsin- River Falls

Fri 9:20am-9:40am
Primo Levi’s The Periodic Table: Chemistry and Creative Writing Combined
Corey McClintock; University of North Carolina, Asheville

Fri 9:40am-10:00am
The myth bout the Spanish Conquest
Freddy Vasquez; Pepperdine University

Patterson Office Tower 113

Biological Engineering

Fri 9:00am-9:20am
Metabolic Engineering of E. coli for Bacterial Cellulose Production
Patrick Van Handel, Devin Schmitt, Jenna Harvestine, Robert Nogle; Milwaukee School of Engineering

Fri 9:20am-9:40am
Secretion and purification of recombinantly expressed synthetic spider silk protein in Escherichia coli
Ryan Putman; Utah State University

Fri 9:40am-10:00am
The Effects of UV Light on Biofilm Formation and Pigment Production of two Antarctic Janthinobacterium sp. Strains CG23_2 and CG3
Emily Bermel; Montana State University, Bozeman

Patterson Office Tower 145

Health Sciences & Public Health

Fri 9:00am-9:20am
"A Pen and a Stethoscope": The Healthcare Situation in Senegal as Seen Through Firsthand Experience
Marianne Macaluso; SUNY Geneseo

Fri 9:20am-9:40am
Allelic Variability in the Angiotensin Converting Enzyme Polymorphism ACE I/D in an East African Population
Lindsey Porter; Western Kentucky University

Fri 9:40am-10:00am
Beyond Culturally Competent: Envisioning Better Health and Health Care for Somali Immigrant Women
Katherine Granath; Seattle University

Patterson Office Tower 003

Education

Fri 9:00am-9:20am
Everglades: Unconscious Self-Education
Solangel Rodriguez; Florida International University

Fri 9:20am-9:40am
Do Students’ Approaches to Learning Affect Understanding of Radiation and Radioactivity?
Anna Hafele; Black Hills State University

Fri 9:40am-10:00am
Stress and Educational Expectations: A Study of Transitioning Adolescents
Adrienne Sulma; University of Wisconsin, Stout

Patterson Office Tower 005

Education

Fri 9:00am-9:20am
Confidence in Teaching Diverse Students: Effects of a Virtual Clinical-Based Practice
Megan Hake, Shelby Gottschalk, Lorie Cook-Benjamin; Fort Hays State University

Fri 9:20am-9:40am
An exploratory study of students’ thoughts, experiences, and observations based on their involvement with a MOOC
Joliette Re; Florida International University

Fri 9:40am-10:00am
Examining Student Experience Related to the Use of E-text/ Course Content in Business School Classrooms
Shadlan Gale, Ashley Jefferies; Utah Valley University
Oral Session 4

Patterson Office Tower 007

English

Fri 9:00am-9:20am
Emoticons and Emojis: Understanding the Nonverbal Communication of the Future
Tiffany Fillion; Winthrop University

Fri 9:20am-9:40am
Happy, Free, Confused, and Lonely at the Same Time: Linguistic Style Patterns in Taylor Swift’s Lyrics
Matthew Gantz; Concordia College, Moorhead MN

Fri 9:40am-10:00am
Be careful what you say!: How language affects retail associates
Crystal Kelleher; University of Wisconsin, La Crosse

Patterson Office Tower 009

History

Fri 9:00am-9:20am
By the Saints: English Kings and the Cults of St Edmund and Edward the Confessor
Kelsey Haver; New York University

Fri 9:20am-9:40am
Godly Brutality: The Cromwellian Conquest of Ireland, 1649-1650
William Scupham; Valparaiso University

Fri 9:40am-10:00am
Hell Above Ground: Vagrancy in Eighteenth Century London
Alexis Holmes; Occidental College-

Singletary Center - President’s Room

Music Research and/or Analysis

Fri 9:00am-9:20am
Achievement Goal Orientations in the Music Classroom
David Wilson; Appalachian State University

Fri 9:20am-9:40am
Adolescent Perspectives on the Emotional, Social, and Behavioral Impacts of Participation in Music Education: An Ethnographic Study at Mountain View High School
Johanna Nilsson; Long Island University

Fri 9:40am-10:00am
Pre-Service Music Teachers’ Perspectives of Experiences in an Informal Music Learning Group
Veronica Sharpe; James Madison University

White Hall Classroom Building 102

Psychology

Fri 9:00am-9:20am
Impact of Peer Influence and Conformity on the Roles of Materialism and Brand Labels in Adolescent Consumer Choices
Tiffany Vuong; Virginia Commonwealth University

Fri 9:20am-9:40am
The relationship between Facebook, other social networking sites, and the rising level of narcissism seen in the Millennial generation in America
Savannah Drake; Virginia Commonwealth University

Fri 9:40am-10:00am
Internet Usage and Cognitive Impact
John Pennix, David Bilbray; Jacksonville University

White Hall Classroom Building 110

Psychology

Fri 9:00am-9:20am
Problematic Behaviors Displayed by Adolescent Drug and Alcohol Users
Amber Beauchamp; Siena Heights University

Fri 9:20am-9:40am
The Influence of Heavy Drinking on College Students’ Future Drinking Habits
Lukas Bowers; Capital University
Empowering Students to Make Their Own Choices: Reducing College Drinking
Rachel Venaglia; Lafayette College

White Hall Classroom Building 114

Political Science

Fri 9:00am-9:20am
The Effect of the 2008 Global Financial Crisis on Public Opinion of Redistribution to Immigrants in Europe
Anna Smith; Hendrix College

Fri 9:20am-9:40am
The Political Economy of Austerity: A Case Study of Greece
Michael Giacoumopoulos; Moravian College

Fri 9:40am-10:00am
"The Show Must Go On": The Political and Economic Responses of the United Kingdom and Germany to the 2008 Financial Crisis
Nicholas Mastron; University of Memphis

White Hall Classroom Building 122

Psychology

Fri 9:00am-9:20am
Sensationalized News Media and Fear of Rape
Hayley Price; Hendrix College

Fri 9:20am-9:40am
Contextual Priming of Emotion Ratings to Graphic Images
Ashley Nienhuis; Eastern Washington University

Fri 9:40am-10:00am
Do Fear Appeals Increase Persuasion? Influence of Loss-Versus Gain-Framed Diversity Messages
Nicole Karpinsky; Westminster College

White Hall Classroom Building 201

Sociology

Fri 9:00am-9:20am
Welfare and Its Adverse Effects on Underclass Families: A Qualitative and Quantitative Analysis of the American Welfare System Utilizing the Capitalist and Social Learning Theories
Aliece Hinton; Howard University

Fri 9:20am-9:40am
Changing Social Class Trajectory
Hailey Sneed; Western Carolina University

Fri 9:40am-10:00am
Doctors and Garbage Men: Unpacking Post-Secondary Students’ Perceptions of Occupational Prestige
Alexandra Shoichet; Dalhousie University

White Hall Classroom Building 203

Ecology & Organismal Biology

Fri 9:00am-9:20am
Conspecific Phenotypic Plasticity in Response to Sensory Signals of Predation and Death
Sara Freytag; Centre College

Fri 9:20am-9:40am
Predator Induced Phenotypic Plasticity, in Pseudacris Crucifer (Spring Peeper) Larvae
Nick Kreutz; Maryville University Saint Louis

Fri 9:40am-10:00am
Agent-Based Modeling of Phytoplankton Cell Death: Responses to Abiotic Factors in a Small Urban Pond.
Carolynn Rafa Todd, Tyler Raphael, Thomas Bate; University of Wisconsin, Milwaukee

White Hall Classroom Building 204

History

Fri 9:00am-9:20am
The Battle of Funkstown: A Small Maryland Town’s Role in the Gettysburg Campaign
Brandon Moist; Shippensburg University
Oral Session 4

Fri 9:20am-9:40am
Food, Comfort, and a Bit of Home: Maude Porter and the Ogden Canteen, 1942-1946
Lorrie Rands; Weber State University

White Hall Classroom Building 208
Political Science

Fri 9:00am-9:20am
Marxism and Feminism: False Friends or Subtle Bedfellows?
Meredith Scalos; Georgetown College

Fri 9:20am-9:40am
Federalism and Ethno-Political Conflict
Laknath Gunathilake; Truman State University

Fri 9:40am-10:00am
Shades of Green and Blue: An examination of the Relationship between the Democratic Party and the Green Party in America.
Steven Cenname; Salisbury University

White Hall Classroom Building 209
Philosophy & Ethics

Fri 9:00am-9:20am
Facing Evil: On The Relationship Between Evil, Violence, and Emotion & the Necessary Adjustment of Our Response to Wrongdoing
Mikaila Read; Eastern Washington University

Fri 9:20am-9:40am
Revenge, Execution, and Punishment
Jessica West; Jacksonville University

Fri 9:40am-10:00am
Cora Diamond and Guantanamo Bay
Mandy Long; Western Carolina University

White Hall Classroom Building 211
Business/Finance/Accounting

Fri 9:00am-9:20am
A Preliminary Study of Student Perspectives on International Financial Reporting Standards (IFRS) Education
Xueyu Chen; Purdue University

Fri 9:20am-9:40am
No Accounting for Global Financials
Dianna Almond; Western Carolina University

Fri 9:20am-10:00am
Sugarloaf: Finding Communal Identity in a Mississippi River Town
James Clinton; Winona State University

White Hall Classroom Building 205
Religious Studies

Fri 9:00am-9:20am
A Study of Contemporary Wesleyan Bands in Britain
Tyler Ward; North Central College

Fri 9:20am-9:40am
Contemporary Eucharist
Scott Hall; Lubbock Christian University

Fri 9:40am-10:00am
How We’ve Met Our Father: The Sitcom of Spirituality
Taylor Cockrell; Lubbock Christian University

White Hall Classroom Building 207
Cell & Molecular Biology

Fri 9:00am-9:20am
Protein production in a mutant variant of cypovirus HvCPV5
Stuart Lichtenberg; University of Kentucky

Fri 9:20am-9:40am
The use of ONO-RS-082 a phospholipase A2 inhibitor, to investigate the localization of amyloid precursor protein
Nicole Belko; Ithaca College

Fri 9:40am-10:00am
IMPROVED UNDERSTANDING OF THE NON-PATHOGENIC BIOPHYSICAL STATES IN A CLASS OF NEURODEGENERATIVE-RELATED PROTEIN IN HOPES OF ESTABLISHING A BASELINE FOR PROTEIN-MISFOLDING DISEASE CHARACTERIZATION
Joseph Passman; University of Utah
Fri 9:40am-10:00am
Value Chain Financing Gives More Freedom to Small Business in Developing Countries
Richard Wojan; University of South Carolina

White Hall Classroom Building 212

Entrepreneurship
Fri 9:00am-9:20am
Art in Unlikely Places: Leveraging arts and social entrepreneurial pedagogies for shaping a more promising future
Nathan Williams, Harper Smith, Katie Silver, Melissa Simon, Michael McSweeney; University of Kentucky

Fri 9:20am-9:40am
Moral Imagination and Entrepreneurship
Ryan Wojciechowski; Saint John's University

Fri 9:40am-10:00am
Examining Cross Country Variation in the Entrepreneurship Rate Using Institutional Theory and Hofstede Dimensions
Stephen Zerfas; Notre Dame University Of

White Hall Classroom Building 213

Electrical Engineering
Fri 9:00am-9:20am
ANIMA Collar Tag Sensor Calibrations and Power Management
Sarah Dean; University of Pennsylvania

Fri 9:20am-9:40am
The Effect of First-Stage Biasing of a Multi-Stage Amplifier Driving Complex Loads on the Slew-Rate A Topological Study
Patrick Gallagher, Robert Pohlman; Milwaukee School of Engineering

Fri 9:40am-10:00am
The Analysis of the Efficiency of Framed ALOHA With a Varying Number of Users
Darrell Smith; Howard University

White Hall Classroom Building 214

Sociology
Fri 9:00am-9:20am
The MisEducation of the Self
D’Shanna Hargrove; Edgewood College

Fri 9:20am-9:40am
Quality of University Life for Special Needs Students at Qatar University
Fatema Higa; Qatar University

Fri 9:40am-10:00am
Examination of The White Savior Complex: Why it’s a Problem, Contemporary Models, and What Can Be Done
Ali Cohen; Coastal Carolina University

White Hall Classroom Building 215

Geography & Earth Sciences
Fri 9:00am-9:20am
Environmental Hazards: The Colorado Floods of 2013
Matthew Allen; University of North Alabama

Fri 9:20am-9:40am
A Mixed-Method Assessment of Urban Flooding in Richmond, Kentucky to Aid Mitigation Efforts
Nicholas Middleton; Eastern Kentucky University

Fri 9:40am-10:00am
Structural Modeling of Rough Creek Graben in Western Kentucky to Better Understand the Tectonic Evolution of North America’s Cratonic Interior: An Integration of GIS-Based DEM Analysis and Field Study
Evan Crowe; Western Kentucky University

White Hall Classroom Building 217

International Studies
Fri 9:00am-9:20am
The Spanish Economic Crisis and its Impacts on Spanish Higher Education and “Los Jóvenes”
Sarah Eggert; North Central College
Fri 9:20am-9:40am
Turning Youthful Tides: Migration and Unemployment
Obstacles of Spanish Youth in the 21st-Century
Sara Ireland; Capital University

Fri 9:40am-10:00am
How the European Economic Crisis is Shaping Spanish Society: Social Behavior, Emigration, Family Dynamics, and More
Hannah Oak; Illinois College

White Hall Classroom Building 219

Fri 9:00am-9:20am
Effects of Affordable Housing on Homelessness Across America
Rachael Schubarth; St Norbert College

Fri 9:20am-9:40am
Is All Growth Created Equal? An Evaluation of the Effects of Economic Composition on Income Inequality in Developing Countries
Alex Wolfe; University of Kentucky

Fri 9:40am-10:00am
ECONOMIC AND ENVIRONMENTAL IMPACTS OF THE GOGEBIC TACONITE MINE
Aleksei Bogdanov; University of Wisconsin, Superior

White Hall Classroom Building 231

Fri 9:00am-9:20am
Averroes: An Examination of a Lesser Commentary
Nicklaus McKinney; Coastal Carolina University

Fri 9:20am-9:40am
Heaven Sent: A Comparison of the Prophet Muhammad and the Twelfth Imam
Hannah Nester; John Brown University

English

Fri 9:40am-10:00am
The Role of Recognition in the Shift from Eastern Collectivism to Western Humanism
Juan Carlos Gonzalez; Xavier University

White Hall Classroom Building 233

History

Fri 9:00am-9:20am
At the Crossroads of Identity: The Place of Palestine in Nasser’s Conception of Egyptian National Identity 1952-1970
Jonathan Cohen; Grinnell College

Fri 9:20am-9:40am
Fighting for Freedom Against All Odds: Iran’s Road to a Constitution
Kari Miller; John Brown University

Fri 9:40am-10:00am
Westerners Abroad: Nineteenth Century Egypt through the Eyes of European Tourists
Margot Willis; John Brown University

White Hall Classroom Building 234

Biology

Fri 9:00am-9:20am
Characterization of quarter milking pulsation and take-off in a conventional milking parlor
Samantha Smith, Samantha Smith, Jeffrey Bewley; University of Kentucky

Fri 9:20am-9:40am
The Societal Movement of Farm Animal Well-Being and Its Impacts on Animal Agriculture
Amanda Mathias; Oklahoma State University

Fri 9:40am-10:00am
Honey of an Idea: Alternative Treatment for Propionibacterium acnes
Ashley Fortin; Russell Sage College
White Hall Classroom Building 235
Mathematics
Fri 9:00am-9:20am
Computing the Likelihood of the Nash Implementability of a Social Choice Function
Carter Cannon; University of Kentucky
Fri 9:20am-9:40am
Voting Theory
Kent Vashaw; Appalachian State University
White Hall Classroom Building 237
International Studies
Fri 9:00am-9:20am
¡Escucha!: Creating a Political Space for Immigration Reform
Sarah Palazzolo; American University
Fri 9:20am-9:40am
Advocacy & The Law: Speaking for Foreign Nationals Trafficked into Kentucky
Meredith Swim; University of Kentucky
Fri 9:40am-10:00am
Investigation of The Cultural Evolution of Hispanic Children
Cecilia Yanez; Appalachian State University
White Hall Classroom Building 238
Political Science
Fri 9:00am-9:20am
Competing Creeds: Disaggregating the Role of Religion in Civil War
Linnea Turco; The George Washington University
Fri 9:20am-9:40am
Is It Sex, or Is It the Cold War? Analyzing Lesbian Pulp Novels through A Cold War Lens
Claire Lockard; Elon University
Fri 9:40am-10:00am
The Religious Cold War: Media Coverage of the Addition of “In God We Trust” and “One Nation Under God” to American Currency and the Pledge of Allegiance
Margaret Miller; Elon University
White Hall Classroom Building 239
Health Sciences & Public Health
Fri 9:00am-9:20am
Mixed Methods Study on Treatments/Services for Children with Autism Spectrum Disorder
Lauren Nale; Northern Illinois University
Fri 9:20am-9:40am
Peanut Processing Increases Peanut Allergenicity
Bethany Eckerd; Virginia Commonwealth University
Fri 9:40am-10:00am
NHANES 2005-2006 Breastfeeding And Allergy Relationship In Young Children
Kathleen Stewart; University of Rochester
White Hall Classroom Building 240
Nursing
Fri 9:00am-9:20am
Undergraduates: Infusing Technology into a Nursing Curriculum
Mikheil Matcharadze; Berea College
Fri 9:20am-9:40am
Social Media: A Promising Potential for the Nursing Profession
Kacee Gouin, Sabrina Howard; Jacksonville University
Fri 9:40am-10:00am
Training and Education of Nursing Students in Africa- How do these Nurses meet the needs of the people?
Merab Mushfiq; Western Carolina University
**Oral Session 4**

**White Hall Classroom Building 241**
**Computer Science**

Fri 9:00am-9:20am  
*Arduino Microcontrollers: A Simple Way to Design a Complex Robot*  
Bradley Hackett; Utah Valley University

**Fri 9:20am-9:40am**  
*Design of Autonomous Robots for Exploration and Mapping using Swarm Intelligence*  
Gabriel LePage; State University of New York, Brockport

**Fri 9:40am-10:00am**  
*Flockbots: Small, Open-Platform Robots for Swarm-Style Multi-Agent Research*  
Michael Bowen, David Fleming; George Mason University

**White Hall Classroom Building 242**
**Social Work**

Fri 9:00am-9:20am  
*Narrative Therapy History and Evolution*  
Katherine Holderness; John Brown University

**Fri 9:20am-9:40am**  
*Student Burnout: The Pressures of Familial Obligations and Maladaptive Coping Mechanisms*  
Cherisse Pittman; University of Montevallo

**Fri 9:40am-10:00am**  
*Health-related Family Quality of Life Perceptions: Breast Cancer Survivors*  
Antoinette Lentz, Briana Deer, Anjana Jagpal, Mallory Waters; Miami University

**White Hall Classroom Building 243**
**Communications**

Fri 9:00am-9:20am  
*Exploring Sexual Responsibility through Oral Contraceptives*  
Jenna Hoge; Luther College

**Fri 9:20am-9:40am**  
*What is Your Number?*  
Monica Papworth; Western Carolina University

**Fri 9:40am-10:00am**  
*Slut: the Deconstruction and Recoding of a Defamatory Term*  
Kacey Rainone; Eastern Connecticut State University

**White Hall Classroom Building 244**
**Media Studies**

Fri 9:00am-9:20am  
*The Relationship Between College Students and News in the Digital Era*  
Lauren Smith; University of Memphis

**Fri 9:20am-9:40am**  
*YouTube to Your TV: The Shift of YouTube Content Creators to Network Television*  
Brent Hale; University of Kentucky

**Fri 9:40am-10:00am**  
*Science 2.0: Evolution into a New Media World*  
Amanda Biederman; Salisbury University

**White Hall Classroom Building 245**
**Art History**

Fri 9:00am-9:20am  
*Industrial Zeitgeist: Shifting Sublime in Turner’s ‘Keelmen Heaving in Coals by Moonlight’*  
Catherine Niehaus; Saint Louis University

**Fri 9:20am-9:40am**  
*Anselm Kiefer: Master of Destruction or Giver of Hope*  
Errin Johnson; Saint Louis University

**Fri 9:40am-10:00am**  
*Vincent van Gogh and his Bedroom*  
Patricia Clements; University of Kentucky

**White Hall Classroom Building 246**
**English**

Fri 9:00am-9:20am  
*How Colonialism ‘Tainted’ Cultural Identity: A New Historicist Analysis of Thrall*  
Stephany McCann; Western Carolina University
Interdisciplinary Studies

Fri 9:20am-9:40am
Postcolonial Public Health: Sociopolitical Constructions of an Emerging Diseases Worldview
Kerry Sakimoto; Occidental College

Fri 9:40am-10:00am
Postcolonialism Recontextualized: Generative Identity & Globalization in Vizenor and Adichie
Matt Comi; Whitworth College

White Hall Classroom Building 247

Biology

Fri 9:00am-9:20am
Antimicrobial Properties and Composition of Essential Oil Isolated from Ericameria linearifolia (Asteraceae)
Preston Manwill; Southern Utah University

Fri 9:20am-9:40am
DOES TRAIL PROXIMITY AFFECT MYCORRHIZAL INFECTION RATES OF GUTIERREZIA SAROTHRAE [ASTERACEAE]?
Shannon Call; Weber State University

Fri 9:40am-10:00am
The Genetics of Hybrid Lethality Between Two Species of Mimulus
Austin Garner; University of Georgia

White Hall Classroom Building 303

Communications

Fri 9:00am-9:20am
Sons of Influence: TV & Motorcycle Gangs
Jenna Gagne; Bridgewater State University

Fri 9:20am-9:40am
Variances in Cinematic Motion Pictures Directed by African American Men and Women
Danyelle Greene; Siena Heights University

Fri 9:40am-10:00am
Video Game Violence and Its Effects
Christopher Breja; University of Northern Iowa

White Hall Classroom Building 306

Women and Gender Studies

Fri 9:00am-9:20am
In the Place of Power: The Impact of Language and Islamic Sharia in Female Involvement in Algerian Politics
Merima Tricic; University of California, Riverside

Fri 9:20am-9:40am
Islamic Feminism: A Theoretical Framework for the Practical Implementation of Women's Rights in Morocco
Emilie Clark; Long Island University

Fri 9:40am-10:00am
La dinámica cambiante: Current Discourse on Gender and Sexuality in Ecuador
Kathryn Stroud; Illinois College

White Hall Classroom Building 316

Literature

Fri 9:00am-9:20am
Patriotic Zealotry and the Ultimate Sacrifice, Roman Virtue on the Battlefield and in the Statehouse
Andrew Del Bene; Xavier University

Fri 9:20am-9:40am
From Within and Without the Wall of Troy: A Discussion of War and Domesticity in The Iliad
Andrea Antenan; Hope College

Fri 9:40am-10:00am
The Trojan Women as a Nihilist Treatise
Andrew Del Bene; Xavier University
White Hall Classroom Building 331

Education

Fri 9:00am-9:20am
An Analysis of Student Designed Courses
Jeff Brittenham, Kayla McMahon; University of Nebraska, Kearney

Fri 9:20am-9:40am
Determining the Effectiveness of Peer-Led Supplemental Instruction from Undergraduate Mathematics Fellows
Autumn McMunn; University of North Alabama

White Hall Classroom Building 333

Computer Science

Fri 9:00am-9:20am
SaaS Security Issues and Its Application in Education and Industry
Brett Mikkelson, Danielle Roche; Roger Williams University

Fri 9:20am-9:40am
Edulinc: Powerful Collaboration Tool for Schools
Akhilesh Mantripragada; University of Texas, San Antonio

English

Fri 9:20am-9:40am
Gossip and Idle Chatter in Middlemarch
Stephen Hickson; Sewanee

Fri 9:40am-10:00am
Signora Neroni’s Restoration of Order in Barchester Towers
Rachel Harris, Stephen Hickson; Sewanee

White Hall Classroom Building 335

Mathematics

Fri 9:00am-9:20am
Centrality Measures in the Wikipedia Network
Michael Squitieri; Macaulay Honors College - Brooklyn

Fri 9:20am-9:40am
Colored Independence on Grids
Michael Terhaar; Saint John's University

Fri 9:40am-10:00am
Long-Square-Free Graph Colorings over Two Colors
Joseph Antonides; Susquehanna University

White Hall Classroom Building 336

Economics

Fri 9:00am-9:20am
Establishing the Future of the Eurozone through the Theory of Optimum Currency Areas
Jaqueline Pierson; Loyola Marymount University

Fri 9:20am-9:40am
Examination of non-profit capital allocation dynamics and prevailing suggestions for its improvement with parallels to for-profit market history
Scott McKaig; Samford University

Fri 9:40am-10:00am
The Prospect of a Common Currency for ASEAN-plus-Three Countries
Linh Nguyen; Lafayette College
An Exploration Into the Potentials of a Zen Buddhist Capitalist World
Jeremy Shur; University of Wisconsin, La Crosse

White Hall Classroom Building 340

Sociology

Racial Identity, Campus Involvement, and Progress toward On-Time Graduation
Erica Lee; Virginia Tech

Consequences of College Drinking from the Perspective of the Non-Drinking Student.
Shadd Cabalatungan; University of California, Davis

White Hall Classroom Building 341

Anthropology & Archeology

The Past is Present: Exploring Methods of Cooperation Between Archaeologists, Museums, and Native Americans in Southern New England
McKayla Hoffman; Bridgewater State University

Female Leadership in Virginia Indian Tribes: Changes from First Contact with the Europeans to the Present Day
Brittany Allen; Virginia Commonwealth University

White Hall Classroom Building 338

Chemistry

Microwave-Assisted Surface-Initiated Polymerization of Styrene from Thiol-Functionalized Organoclays
LeAnna Survant; Northern Kentucky University

New diosmium complexes as building blocks for coordination polymers
Nigel Gwini; Abilene Christian University

Understanding Specific Cation Effects on Aggregation Behaviors of PEO-PPO-PEO Triblock Copolymers
Tsung-Yu Wu; James Madison University

White Hall Classroom Building 339

Philosophy & Ethics

"Jean-Paul Sartre: Insufficient Potentiality"
Allen Sewell; Western Carolina University

Zizek and the Urgency for Temporal Revolution
Bryce Bullins; Sierra Nevada College

White Hall Classroom Building 337

Anthropology & Archeology

"Happy is he who calls himself a Turk": Turkey’s Kurdish Question
Layla Quran; University of North Carolina, Chapel Hill

Comparison of Hearths in New England
Mary Owens; Bridgewater State University

The Archaeology and Phenomenology of Roman Ribchester
Karl Povey; University of Central Lancashire

White Hall Classroom Building 338

Chemistry

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Philosophy & Ethics

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Oral Session 4
Oral Session 4

White Hall Classroom Building 342

Art History

Fri 9:00am-9:20am
Mona Lisa as a Ready-Made: Representing the Role of Modern Artists
Samuel Humphrey; University of Kentucky

Fri 9:20am-9:40am
Learned, Mannered, and Titled: Baccio Bandinelli’s Self-Referential Work in the Context of the Changing Status of the Artist
Eliana Mundula; University of North Carolina, Greensboro

Fri 9:40am-10:00am
Appropriation and Identity in William H. Johnson’s Self-Portraits
Heather Kolnick; St. Catherine University, St. Paul

White Hall Classroom Building 343

Physical/Occupational Therapy/Speech Language Pathology

Fri 9:00am-9:20am
Bilingual Narrative Assessment: Evaluation of the Kindergarten Language Benchmark Assessment in Native Spanish-Speaking Children
Rebecca Hunt; Eastern Illinois University

Fri 9:20am-9:40am
Effect of Femur-Tibial Translation on Estimated ACL Tension
Elizabeth Camenga, Alex Ehlert, Drake Kessler, Jillian Asmus; University of Wisconsin, La Crosse

Fri 9:40am-10:00am
The Efficacy of Social Stories for Typically Developing Preschool Children
Loni Berbaum; Eastern Illinois University

White Hall Classroom Building 345

Biochemistry

Fri 9:00am-9:20am
Purification and Characterization of a Novel Bacterial Cyclooxygenase
Margaret Butchy; Villanova University

Fri 9:20am-9:40am
Expression, Purification, and Characterization of the Arp5 Protein:
Joseph Dawson; University of Utah

Fri 9:40am-10:00am
Structure Characterization of an Essential Pyrophosphatase in S. aureus
Michael Bale; University of Kentucky

White Hall Classroom Building 346

Chemistry

Fri 9:00am-9:20am
CLEANSING OF BIOGAS THROUGH VARIOUS ROUTES WHILE EFFECTIVELY AND SAFELY REMOVING H2S AND CO2
Allison Hester; Howard University

Fri 9:20am-9:40am
Development of Artificial Membrane as Model for Human Diseases of Impaired Water Transport
Michelle Muzzio, Peter Milianta, Rosario Giacomini; Iona College

Fri 9:40am-10:00am
Water Purification by Photo-catalytic Destruction of Pollutants
Aisha Bismillah; University of Central Lancashire

White Hall Classroom Building 347

Literature

Fri 9:00am-9:20am
“Old Robin Hood of England’: Robin Hood and Marxist Alienation in Shakespeare’s As You Like It.”
Lauren Clark; Winthrop University
Fri 9:20am-9:40am
"The fool doth think he is wise": Parallelism in Human Folly in As You Like It
Emily Giangrande; Peace College

Fri 9:40am-10:00am
"They say the best men are molded out of faults': Angelo of Measure for Measure and Shakespeare's Stand Against Puritanism"
Jeanne Stroud; Winthrop University

White Hall Classroom Building 349

Fri 9:00am-9:20am
Dispersal Patterns of an Invasive Snail and Its Parasitic Hitchhikers in the Upper Mississippi River: What is the Influence of Aquatic Macrophytes?
Kaitlyn Miedema; University of Wisconsin, La Crosse

Fri 9:20am-9:40am
Plant Endophytes as Novel Sources of Antimicrobials: Characterizing Fungal Isolates from Alfalfa
Britta Wass; St. Catherine University, St. Paul

Fri 9:40am-10:00am
INTERACTION OF FUNGAL ENDOPHYTES AND GALL-FORMING APHIDS ON COTTONWOOD TREES
Julia Hull; Weber State University

SESSION 5
Fine Arts Building 0308B

Ecology & Organismal Biology

Fri 10:30am-10:50am
Modeling of the effects of border vegetation on aphid-vectored virus transmission in winter wheat
Anna Muncy; University of Kentucky

Fri 10:50am-11:10am
A Failed System: A Triangulative Analysis of the Small Number of African Americans in the Higher Education System and the Effects on the African American Community Utilizing the Functional Theory
Dara Jones; Howard University

Fri 11:10am-11:30am
A Possible Ecological Explanation for the Depleted Soil Nutrients Upregulating Genes responsible for the 'Mustard Oil Bomb'
Christopher Karounos; University of Kentucky

Fine Arts Building 106

African American Studies

Fri 10:30am-10:50am
An Analysis on the Socioeconomic Status of African Americans and Latino/Latina Americans Utilizing Principles of the Darwinian Theory
Stephan Burgess; Howard University

Fri 10:50am-11:10am
The Persistence of Racism in America: A Triangulative Analysis Using the Darwinian Theory
Charmaine Crutchfield; Howard University

Fine Arts Building 17

History

Fri 10:30am-10:50am
Andrew Johnson: Standard-Bearer of Old Hickory
Matthew O’Neal; University of Kentucky

Fri 10:50am-11:10am
Mr. Jefferson’s Sickle: Thomas Worthington and the Implementation of the Agrarian Republic
Joseph Ross; Ohio State University

Fri 11:10am-11:30am
Benjamin Franklin: Diplomacy, Legacy, and France, 1776 - 1778
Robert Pfaff; Wayne State University
Oral Session 5

Fine Arts Building 208

Literature
Fri 10:30am-10:50am
A Light in Dark Places: The Role of the Companion within Fantasy Literature
Laura Seiple; Westminster College

Fri 10:50am-11:10am
Mirror, Mirror On The Wall, Who Am I? The Progression of Female Identity
Shannon Tankersley; Anderson College

Fri 11:10am-11:30am
Applying Literary Theory to Andersen's The Red Shoes
Hope Eidson; John Brown University

Fine Arts Building 004

Music Research and/or Analysis

Fri 10:30am-10:50am
John Stainer's Contributions to Sacred Music During the Romantic Era
Marquita Someliana-Lauer; Western Carolina University

Fri 10:50am-11:10am
Sing to the Lord a New Song: John Calvin and Metrical Psalmody as a Spiritual Discipline
Brandon Bellanti; Cedarville University

Fri 11:10am-11:30am
A New Approach: The Feminist Musicology Studies of Susan McClary and Marcia J. Citron
Kimberly Reitsma; Cedarville University

Lucille Caudill Little Fine Arts Library 301

Biology

Fri 10:30am-10:50am
CAN PADDLEFISH POLYCULTURE AFFECT THE CONCENTRATION OF OFF-FLAVOR CAUSING CYANOBACTERIA IN CATFISH PONDS?
Phillip Henderson; Kentucky State University

Fri 10:50am-11:10am
Computational Studies of the Gas-Phase Acidity and Basicity of Organic Molecules
Alec Follmer; University of the Pacific

Fri 11:10am-11:30am
SOLUBILITY OF MINERAL SALTS IN NONIONIC SURFACTANT-WATER BINARY SOLVENTS.
Daniel Clark; State University of New York, Brockport

Lucille Caudill Little Fine Arts Library 302

Engineering/Engineering Technology

Fri 10:30am-10:50am
Improving Standby Power Dissipation in CMOS Memories at the 32 nm Technology Node and Lower by Minimizing Leakage Current
Anthony Hernandez, Eric Lambert; Eastern Washington University

Fri 10:50am-11:10am
Modeling and Analysis for a Microbattery Charging Control System
Trokon Johnson, Bennett Krack; University of Tulsa

Fri 11:10am-11:30am
Are Hydrogen Vehicles Still a Rational Investment?
Jordan Gill, Joshua Brown; Howard University
Oral Session 5

Patterson Office Tower 107

Linguistics & World Languages

Fri 10:30am-10:50am
The Hyper-Correction of “ch” in English Words by Chilean Speakers: A Pilot Study
Brandon Jent; University of Kentucky

Fri 10:50am-11:10am
A Diachronic Analysis of Schwa in French
Joshua Griffiths; Gettysburg College

Fri 11:10am-11:30am
Abstract Categories of Phonotactic Constraints
Margaret Fero, Dakotah Lambert, Sean Wibel; Earlham College

Patterson Office Tower 108

Economics

Fri 10:30am-10:50am
Punishment Severity and Rates of Drinking and Driving
Patryk Perkowski; Macaulay Honors College - Queens

Fri 10:50am-11:10am
The Causes and Correlates of Early vs. Late Onset Criminality: A Life-Course and Self-Control Theory Analysis
Lizabeth Remrey; University of Wisconsin, La Crosse

Fri 11:10am-11:30am
Why the American Public is Blaming the Victim: Preliminary Support for Moral Judgment Theory
Ashley Hemsath; Western Carolina University

Patterson Office Tower 110

Religious Studies

Fri 10:30am-10:50am
Protestant Christianity in Urban China: Thriving in Social and Political Uncertainty
Natalie Greene; Long Island University

Fri 10:50am-11:10am
“You Have Been God’s Grace to Me”: The Presence of Agape and Grace outside Christianity in Marilynne Robinson’s Gilead
Ruyue Yuan; Valparaiso University

Fri 11:10am-11:30am
The Buddhist-Christian Conversation about Environmental Ethics
Jamison Stallman; Luther College

Patterson Office Tower 112

Astronomy

Fri 10:30am-10:50am
Shape Modeling Near Earth Asteroids
Stephen Ebelhar; NASA’s Jet Propulsion Laboratory

Fri 10:50am-11:10am
Toward the ground-based detection of super-Earth exoplanets from Westminster College-minimizing light curve systematics.
Ryan Avril; Westminster College

Fri 11:10am-11:30am
Tracking the Polyrhythm: Broadband Photometry and Lightcurve of the Binary Potentially Hazardous Asteroid (285263) 1998 QE2 with Photometric Analysis Methods
Adrian Carcione; Moorpark College

Patterson Office Tower 113

Business/Finance/Accounting

Fri 10:30am-10:50am
Teaching the Unteachable: The Effectiveness of Different Methods of Common Practical Skills in Sales Education
Molly Prahl; University of Wisconsin-River Falls

Fri 10:50am-11:10am
Management Science Helps Improve Environmental and Financial Sustainability: An Application of Newsvendor Model to Campus Newsprint
Seth Williamson, Chase G. Bryant; Capital University
Fri 11:10am-11:30am
CSR within San Diego and Baja California SMEs; a Cross-cultural Comparison
Sylvia Quero; San Diego State University

Patterson Office Tower 145

Psychology

Fri 10:30am-10:50am
The Effects of Gender, Stress, and Risk for Depression on Amygdala Volume in Adolescents
Marissa Mendoza; University of Texas, San Antonio

Fri 10:50am-11:10am
The Importance of Parental Communication and Sexual Education in Adolescence on Predicting College Students’ Sexual Activity
Ashley White; Massachusetts College of Liberal Arts

Fri 11:10am-11:30am
Assessing Elementary School Students’ Perceptions and Skills in Conflict Resolution
Lela Ross; George Mason University

Patterson Office Tower 003

Psychology

Fri 10:30am-10:50am
Is psychosocial adjustment a predictor of Community-Based Services’ success?
Nicole St. Pierre, Diana Le, Ciara Limon, Saadia Karwani; California State University Channel Islands

Fri 10:50am-11:10am
Predictors of Helping: Genetic Relatedness and Causal Controllability
Sloane Weed; Centre College

Fri 11:10am-11:30am
Spontaneous Expressions of Compassion in Response to Specific Indicators of Suffering
Kelsey Nelson, Camille Seger; Centre College

Patterson Office Tower 009

English

Fri 10:30am-10:50am
Demon Rum and Fallen Drunkards: The Displacement of Blame in Nineteenth-Century American Temperance Fiction
Megan Connolly; Albion College

Fri 10:50am-11:10am
The Devil is in The Details: An Exploration of The Demonic and Messianic Dichotomy in Russian Literature
Johnathan Edwards; Emory University

Fri 11:10am-11:30am
Devils in the Wilderness: How “Wilderness” Reflects Society’s Margins
Cole Nelson; University of Wisconsin, La Crosse

Patterson Office Tower 007

Biology

Fri 10:30am-10:50am
A Study of Anti-herbivore Defense Dynamics in Cecropia Trees of Manu Park, Peru
Alex Huynh, Vincent Reed; Moravian College

Fri 10:50am-11:10am
Survey for the Presence of Leishmaniasis in Canines and Felids in Travis County, Texas
Erik Escobar; St. Edwards University

Fri 11:10am-11:30am
Parental Investment and Nest Defense in Tree Swallows (Tachycineta bicolor)
Alyssa Ford; Virginia Military Institute

Patterson Office Tower 005

Education

Fri 10:30am-10:50am
The Effects of Adolescent Athletics on Academic Institutions
Daniel Mohammadi; Virginia Commonwealth University
Fri 10:50am-11:10am
Youth’s Commitment to Responsibilities in Youth Programs
Natali Gracia; University of Illinois at Urbana-Champaign

White Hall Classroom Building 110
Psychology

Fri 11:10am-11:30am
Solving behaviors for “kiddos”: Early intervention and its influence on behavior plans
Hannah Schultz; University of Hartford

Fri 10:30am-10:50am
“The Surveillance Industrial Complex: America’s Privacy Crisis.”
Nicole Faas; Black Hills State University

Singletary Center - President’s Room
Dance
Fri 10:30am-10:50am
“Apathetic and Non-Athletic: How A Strong Woman Can Still Be Silenced”
Florianne Jalac; State University of New York, Brockport

Fri 10:50am-11:10am
“Neurobiology of Avian Pair Bonds”
Paige Baechle, Eleanor Bailey, Ashley Boerrigter; Centre College

Fri 10:50am-11:10am
“African Dance: Hidden Beneath the Surface”
Sara Palmisano; State University of New York, Brockport

Fri 11:10am-11:30am
Connecting Feldenkrais and Bartenieff to Helping Those with PTSD
Barbara Evans; University of Texas at El Paso

Fri 10:50am-11:10am
The Ongoing Role of Original Principles in Internet Evolution: Internet Leaders Continue to Adhere to Early Ideals.
Shakori Fletcher; Elon University

Fri 11:10am-11:30am
Letters of Marque and Reprisal and Cyber Warfare
Michael Tal; Lehman College

Fri 10:30am-10:50am
Domains of Reasoning in Typical and Atypical Development
Kathleen Saigh; Oakland University

Fri 10:30am-10:50am
Non-profit and University Collaboration
Ida Iselin Eriksson; Adelphi University
Oral Session 5

Marketing

Fri 10:50am-11:10am
Enhancing the Advanced Academy
Raquel Carpenter, Chantal Atkinson, Andrew Gallagher, Brittany Groves, Maxwell Roberts; University of West Georgia

Engineering/Engineering Technology

Fri 11:10am-11:30am
Structural Vulnerability on School Buildings in Mexico
Nestor Carter; Howard University

White Hall Classroom Building 201

English

Fri 10:30am-10:50am
Subversive Evolution: George Lippard’s The Quaker City and Gothic Influence on the Development of American Literature
Keith Lydon; Bridgewater State University

Fri 10:50am-11:10am
Wuthering Heights and Gothic Materialism
Brendan Ezvan; Truman State University

Fri 11:10am-11:30am
Separating the Sea from the Symbols: Psychological Wholeness in Ernest Hemingway’s The Old Man and the Sea
Andrew Harris; Winthrop University

White Hall Classroom Building 203

Cell & Molecular Biology

Fri 10:30am-10:50am
Immunophenotypic Characterization and Potential Purification of Several Perivascular Soft Tissue Tumors.
Marco Mravic; University of California, Los Angeles

Fri 10:50am-11:10am
Metabolic and Cellular Elasticity of Adipose Tissue
Lahib Douda; Wayne State University

Fri 11:10am-11:30am
Interactions between Lymphoid Tissues and Antigenic Challenge in Cockatiels (Nymphicus hollandicus)
Matthew Warren; University of California, Davis

White Hall Classroom Building 204

English

Fri 10:30am-10:50am
Within the Zodiac of Her Own Wit: Humor in Modern Feminism
Tyler Call; Westminster College

Fri 10:50am-11:10am
Feminine Characteristics and the Animus in Jane Eyre
Kaitlyn Murphy; Winthrop University

Fri 11:10am-11:30am
Feminine Meridian
Laura Martin, laura martin; Cerritos College

White Hall Classroom Building 205

Biochemistry

Fri 10:30am-10:50am
The Effects of Aflatoxin B1 on Jurkat T-cell Growth, Viability, and Activation
Lauren Sutherland; Elon University

Fri 10:50am-11:10am
Building a Better Phospholamban: Using Structure and Dynamics-Based Design to Engineer Therapeutic Mutants for Treating Heart Failure
Adedolapo Ojoawo, Choua Xiong; St. Catherine University, St. Paul

Fri 11:10am-11:30am
A Novel Biosensor for Point-of-Care Medical Diagnostics
Jaden Wilkes; Elon University
### Oral Session 5

**White Hall Classroom Building 207**

**Engineering/Engineering Technology**

**Fri 10:30am-10:50am**  
*Safety First: Preventing Extension Ladders from Slipping*  
Michael Fricke, Adam Resnick; Milwaukee School of Engineering

**Fri 10:50am-11:10am**  
*The Effects of Controlled and Uncontrolled Climbing Styles on Slip Outcome*  
Erika Pliner; University of Wisconsin, Milwaukee

**Fri 11:10am-11:30am**  
*Performance Testing of a New Knot for Life Safety and Rope Access Applications*  
Stephanie Fonseca; Eastern Illinois University

**History**

**Fri 10:30am-10:50am**  
*Ireland and the British Monarchy: Queen Victoria’s Influence on Anglo-Irish Relations*  
Alison Lange; Carthage College

**Fri 10:50am-11:10am**  
*"Bloody" Mary, Quite Contrary: The Original Perspectives on Queen Mary I*  
Alexandra Fox; Salisbury University

**Fri 11:10am-11:30am**  
*Rivalry, Betrayal, and Blood: The Relationship Between Lady Margaret Douglas, Countess of Lennox, & Queen Elizabeth I*  
Amanda Tees-Bulgarelli; Salisbury University

**Ecology & Organismal Biology**

**Fri 10:30am-10:50am**  
*The relationship between brain size and muscle mass among primates*  
Heidi Vollrath; University of Kentucky

### White Hall Classroom Building 211

**Geography & Earth Sciences**

**Fri 10:30am-10:50am**  
*Effects Of Hurricanes on Sea Surface Temperature*  
Travis Bush; Salisbury University

**Fri 10:50am-11:10am**  
*Particle Settling Velocities in Turbulent Conditions*  
Marek Jendrassak, Wilmot Merchant; Coastal Carolina University

**Fri 11:10am-11:30am**  
*Magnetic Susceptibility of Tree Leaves as a Simple, Cost-Effective Means of Monitoring Air Quality*  
Lucas Lloyd, Ryan Heaslet; Utah Valley University

**Political Science**

**Fri 10:30am-10:50am**  
Devon Wells; Carthage College

**Fri 10:50am-11:10am**  
*A Comparison on Education Policy*  
Quinn Neal; Hendrix College

**Fri 11:10am-11:30am**  
*Why Bother with School? Student Perceptions of Education and Business Sector Corruption in Russia*  
John Turiano; Fordham University
## Oral Session 5

### Health Sciences & Public Health

**White Hall Classroom Building 213**

**Fri 10:30am-10:50am**

*Establishing Specificity of Concussion Special Tests*
Elena Keretes; Western Carolina University

**Fri 10:50am-11:10am**

*No relationship exists between age and GPA on exerted effort during baseline concussion assessment*
William Grospitch; Ohio State University

### Psychology

**White Hall Classroom Building 214**

**Fri 10:30am-10:50am**

*A Weighty Issue: Is Perfectionism in Female College Athletes a Possible Predictor of Eating Disorders?*
Lauren Berry; Lafayette College

### Philosophy & Ethics

**White Hall Classroom Building 217**

**Fri 10:30am-10:50am**

*Bride Trafficking*
Xao Vang; Hamline University, St. Paul

**Fri 11:10am-11:30am**

*Female Genital Mutilation: The Ethical Necessity for Action*
Abbie Carver; Capital University

### Computer Science

**White Hall Classroom Building 219**

**Fri 10:30am-10:50am**

*J.E.B. (Java Electronic Butler)*
Tyler McConville; University of Nebraska, Kearney

**Fri 11:10am-11:30am**

*The USSR’s Role in Imbalanced Sex Ratios at Birth and Human Trafficking in the South Caucasus*
Abigail Burns; Virginia Commonwealth University

### Management

**White Hall Classroom Building 215**

**Fri 10:30am-10:50am**

*Let’s Get Fired Up*
Carson Cone, LaShaude James, Julie Sem; University of North Carolina, Pembroke

**Fri 10:50am-11:10am**

*Systematic Pedagogy to Line Balancing with EXCEL*
Thomas Lovejoy-Henkel; University of North Carolina, Asheville

**Fri 11:10am-11:30am**

*A Drop in the Bucket? : Optimal Greening of a Music Tour*
Matthew Able, Theron J. Mackey, Charles H. DeHart; Capital University

### English

**White Hall Classroom Building 219**

**Fri 10:30am-10:50am**

*Raskolnikov and the Path Least Chosen: An Exploration of Character Metaphysics in Dostoevsky’s "Crime and Punishment"*
Richard Adams; Augusta State University

**Fri 11:10am-11:30am**

*The Underground Man in Crime and Punishment*
Kristen Topping; Augusta State University
White Hall Classroom Building 231

Economics

Fri 10:30am-10:50am
It's Complicated: The Relationship Between Property Tax Valuations on La Crosse's Waterfront and Interest Rates
Jeremy Shur; University of Wisconsin, La Crosse

Fri 10:50am-11:10am
A Closer Look at Changing Credit Conditions in a Local Economy
Arya Bhattarai; Franklin and Marshall College

Sociology

Fri 10:30am-10:50am
The Relationship between Industrial Structure and Income Distribution in a Local Economy
Ameesh Upadhyay, Zefang Wang; Franklin and Marshall College

White Hall Classroom Building 233

White Hall Classroom Building 235

Mathematics

Fri 10:30am-10:50am
Combinatorics in the Sinha Spectral Sequence: Geometry of Knots in Higher Dimensions
Michelle Johnson; St. Catherine University, St. Paul

Fri 10:50am-11:10am
Counting Quantum Knots
Morgan Hoover; Morehead State University

Fri 11:10am-11:30am
Piecewise-linear Pseudodiagrams
Molly Durava; North Central College

White Hall Classroom Building 237

Anthropology & Archeology

Fri 10:30am-10:50am
Customization and Conflict: Biomedicine in Maasailand
Maye Emlein; Wheaton College - Massachusetts

Fri 10:50am-11:10am
Gorovodu Medicine Amongst the Ewes of Ghana and Togo
Nishanth Alluri; Wayne State University

Fri 11:10am-11:30am
Efficacy of Long-Chain Fatty Acids and Immune Response
Casey Polmueller; Eastern Washington University
Oral Session 5

White Hall Classroom Building 238

Education

Fri 10:30am-10:50am
Examining How Children’s Literature Historically Represents the Civil Rights Movement
Meghan Briscoe; Eastern Illinois University

Fri 10:50am-11:10am
Exploring the American Revolution from Multiple Perspectives through Critical Literacy Discussions in a Fifth-Grade Classroom
Janelle Roberts; Bridgewater State University

Fri 11:10am-11:30am
Investigating Amelia Earhart in Children’s Literature
Dylan Dilley; Eastern Illinois University

White Hall Classroom Building 239

Women and Gender Studies

Fri 10:30am-10:50am
The Power of Sex: A Global Comparative Analysis of Gender in Leadership within The Private Sector Utilizing Kuhnian Paradigm Shifts and Sexual Difference Theory
Derrick Gaitér; Howard University

Fri 10:50am-11:10am
Women’s Philanthropy: Why We Need to Reveal the Women Behind the Names
Ivy Keen; Hope College

Fri 11:10am-11:30am
Foucault and the Young Adult Heroine: Self-Discipline in the Dystopias of Divergent and The Hunger Games
Roberta Gordon; University of Missouri

White Hall Classroom Building 240

Media Studies

Fri 10:30am-10:50am
“Games People Play: a Study of Objectification in Gaming Culture
Nicole Gardella, Rusty Pope, Savannah Herber; Appalachian State University

Fri 10:50am-11:10am
Women in the Media: An Analysis of the Objectification of Women in the United States Media Utilizing the Interaction Theory
Gladys Hetherington; Howard University

Fri 11:10am-11:30am
Pussy Riot: Russian Rogues in the Media
Alexa Money; Ithaca College

White Hall Classroom Building 241

Anthropology & Archeology

Fri 10:30am-10:50am
(Un)gendering the intersex body
Juan Riano; Wheaton College - Massachusetts

Fri 10:50am-11:10am
Familiarity and Similarity in Relationships
Brooke Noden; University of Wisconsin, Stout

Fri 11:10am-11:30am
VIEWS INTO THE HUMAN CONDITION DURING THE NEOLITHIC IN CRETE: ECHOES FROM THE ENDOPLAIN SITE OF APOSELEMIS
Kimberly Lombardi, Samantha Zawistowski; Adelphi University

White Hall Classroom Building 242

English

Fri 10:30am-10:50am
A Multimodal Symbiosis: Exploring the Interdependency of Image and Print
Sadie Robertus; Montana State University, Bozeman

Fri 10:50am-11:10am
Reducing Information Overload
Colin Adamson, George Kinchen, Christian Gennaro, Derek May-West, Joshua Koehler, Peter Liu, Jason Zhang; University of Maryland

Interdisciplinary Studies
Fri 11:10am-11:30am
The Battle Between Digital and Print: An Analysis of Electronic and Print Circulation within South Dakota Public Libraries
Krystal Christensen-Wiederrich; Black Hills State University

White Hall Classroom Building 243

Philosophy & Ethics

Fri 10:30am-10:50am
Completing Perception with Perception not Conception
Nicklaus McKinney; Coastal Carolina University

Fri 10:50am-11:10am
Michael Sandel and Theories of Justice
Melissa Bradley; Western Carolina University

Fri 11:10am-11:30am
Hegel’s Logic Explained: An Exegetical Analysis of John W. Burbidge’s Interpretation
Vladimir Titkov; Eastern Washington University

White Hall Classroom Building 244

Environmental Studies & Sciences

Fri 10:30am-10:50am
Green Synthesis, Characterization of Sugar Coated Gold Nanoparticles for Catalytic Applications
Jason Payne, Yogesh Kherde, Fenil Chavda; Western Kentucky University

Fri 10:50am-11:10am
Production of Biodiesel from Microalgae growing at Ruai Wastewater
Patrick Beckley; Howard University

Fri 11:10am-11:30am
Rapid burial and unusual preservation of a crinoid garden in the Mississippian Borden Formation of south central Kentucky
Jonathan Sparr; University of Kentucky

White Hall Classroom Building 246

Electrical Engineering

Fri 10:30am-10:50am
Parametric Modeling of Electric Vehicle Charging Profiles
Nicole Ng; Seattle University

Fri 10:50am-11:10am
Can Wind Power be used to Provide Sustainable Energy to Electric Vehicles?
Patrick Berg; Seattle University

Fri 11:10am-11:30am
Low Cost Electric Motor Life Test Fixture
Erik Mustain, Kenton Leon; Metropolitan State University of Denver

White Hall Classroom Building 247

Art History

Fri 10:30am-10:50am
Jewish Women Artists’ Contribution to the Understanding of Jewish Traditional Practice
Cosette Shachnow; Union College

Fri 10:50am-11:10am
Margaret Brundage: The Pulp Pin-Up Illustrator
Alexandra Beetz; Eastern Illinois University
Oral Session 5

Fri 11:10am-11:30am
"Alice’s Adventures in Wonderland" and the Anthropomorphized Animal
Mamie Cox; Truman State University

White Hall Classroom Building 303

Art History

Fri 10:30am-10:50am
Reinvention as Innovation: Michelangelo’s Interaction with Antiquity
Amy Angell; John Brown University

Fri 10:50am-11:10am
New Interpretation of Michelangelo’s Rondanini Pietà
Xiaoyu Zeng; Rhodes College

Fri 11:10am-11:30am
Mapping Spirituality in Michelangelo’s Doni Tondo
Joseph Thibeault; Rhodes College

White Hall Classroom Building 306

Physics

Fri 10:30am-10:50am
Investigation of the Thermal Wake Beneath Ascending Stratospheric Balloons
Mara Blish; St. Catherine University, St. Paul

Fri 10:50am-11:10am
Fluid Galilean Cannon
Brian Good; Depauw University

Fri 11:10am-11:30am
Flying Discs and the Effect of Disc Shape on their Flight Characteristics
Nolan Dwyer; Guilford College

White Hall Classroom Building 316

Economics

Fri 10:30am-10:50am
“She Works Hard for Her Money”: Living Wages and Their Impacts on Female Workers
Megan Morris; Seattle University

Fri 10:50am-11:10am
Feminization of Poverty today: An analysis of welfare expenditures and single-mother households in the United States
Audrey Sabatini; Siena College

Fri 11:10am-11:30am
Violence Against Women in San Martín, Peru: An Economic Analysis of Determinants and Access to Justice
Nathan Gencarella; Wheaton College - Illinois

White Hall Classroom Building 331

Biology

Fri 10:30am-10:50am
The effect of temperature on nitrogen fixation in freshwater Nostoc in the Hengill region of Iceland
Aimee Ahles; St. Catherine University, St. Paul

Fri 10:50am-11:10am
The Effects of Common Storm Water Pollutants on Freshwater Organisms
Kimberly Givan, Michelle Warren; Eastern Washington University

Fri 11:10am-11:30am
Identification and Quantification of Amphibian Pathogens in Dupage County, IL
Joel Di Bernardo, Katy Reese, Andrew DuBois; North Central College

White Hall Classroom Building 333

Chemistry

Fri 10:30am-10:50am
The Analysis of Biodiesel Blends by Fourier Transform Infrared Spectroscopy (FT-IR)
Aleksandr Pikalov; Eastern Washington University

Fri 10:50am-11:10am
Extraction of Lipids from Trap Grease for Biodiesel Production
Colin Stacy; Drexel University
Fri 11:10am-11:30am
The Characterization of Germanium Hydride Intermediates Using Matrix Isolation Infrared Spectroscopy
Christopher Bailey; Penn State Erie, The Behrend College

White Hall Classroom Building 334

Sociology

Fri 10:30am-10:50am
A Sociological Investigation into the American Government’s Use of Drones
Aaron Albrecht; Truman State University

Fri 10:50am-11:10am
Urban Observations: Comparing Traditional Public Meetings and Creative Citizen Engagement and its Effectiveness in Community Redevelopment
Prami Sengupta; Florida Atlantic University

Fri 11:10am-11:30am
How the Authoritarian Government of Egypt Affects How the People Interact within Society
Sara Youssef; Virginia Commonwealth University

White Hall Classroom Building 335

Literature

Fri 10:30am-10:50am
George Egerton Re-imagining Motherhood During the Fin de Siècle
Elizabeth Neary; Muhlenberg College

Fri 10:50am-11:10am
The Oppressive Economy of Babies: Marxism in Atwood’s The Handmaid’s Tale
Samantha Baker; Winthrop University

Fri 11:10am-11:30am
From “The Handmaid’s Tale” to “Bumped”: The Continuing Discourse Concerning Women’s Reproductive Rights in Dystopian Fiction
Debra Fitch; Ohio State University

White Hall Classroom Building 336

English

Fri 10:30am-10:50am
Contradiction of Epic Proportions: Virgil’s Conflicting Portrayals of Aeneas in The Aeneid
Shauna Shahangian; University of West Georgia

Fri 10:50am-11:10am
Savage and Strange: The Literary Landscapes of Castaway Novels
Amanda Schoen; University of Hartford

Fri 11:10am-11:30am
Twice Made Men: The Journey to the Afterlife and Back
John-Michael Farkas; Xavier University

White Hall Classroom Building 337

Computer Science

Fri 10:30am-10:50am
Classification Algorithms for Detecting Duplicate Bug Reports in Large Open Source Repositories
Sarah Ritchey; Youngstown State University

Fri 10:50am-11:10am
Ontology-based Environment for Software Comprehension and Reuse
Andrew Boehner; Indiana University Kokomo

Fri 11:10am-11:30am
Creating Information Services for Tri-State Minority Organization
Abbie Clark; University of Southern Indiana

White Hall Classroom Building 338

Communications

Fri 10:30am-10:50am
Competent Communication In Business
Billy Conn; University of Kentucky

Fri 10:50am-11:10am
Decision-Making and the Creation of Counter-Cultural Organizational Power Structures
Daniel Chick; Georgetown College
Oral Session 5

Fri 11:10am-11:30am
Improving Virtual Work Team Relationships Through Socially Interactive Workspace Design
Megan Devlin, Matthew Caggiano, Gwen Fernau, Eric Poandl; Ithaca College

White Hall Classroom Building 339

International Studies

Fri 10:30am-10:50am
Kill List: US Drone Policy and The Laws of Armed Conflict
John Wainwright; Virginia Military Institute

Fri 10:50am-11:10am
How Do the Non-Governmental and Humanitarian Relief Organizations Surpass the Social and Political Boundaries Established by the World States?
Elvina Ganbarova; University of West Georgia

Fri 11:10am-11:30am
Nongovernmental Organizations: The Mechanisms by which They Influence the UN and Their Added Value
Gabrielle Keleher; Queens University of Charlotte

White Hall Classroom Building 340

History

Fri 10:30am-10:50am
Killer Nurses: Nurses Under Nazi Rule
Madison Roswell; Hendrix College

Fri 10:50am-11:10am
The ‘Good’ Nazi: Erich von dem Bach-Zelewski and the Role of Morality in the H
Jonathan Kagan-Kans; Carleton College

Fri 11:10am-11:30am
The Mischlinge Link: The Evolution of Nazi Policy toward Peoples of Mixed Jewish Descent
Dylan Botteicher; Hendrix College

White Hall Classroom Building 341

Chemistry

Fri 10:30am-10:50am
Beta-Nitrostyrene Synthesis
Sharla Gadson; North Carolina Agricultural and Technical State University

Fri 10:50am-11:10am
Isolation and Characterization of a Pigment from Streptomyces Grown in the Presence of Nickel
Ian Booth; West Chester University

Fri 11:10am-11:30am
Revisiting Valinomycin: Effect of Water on the Conformation of Valinomycin-Cation Complex
Amaan Kazerouni; University of West Georgia

White Hall Classroom Building 342

Biology

Fri 10:30am-10:50am
Canine Heartworm Infection: Mosquito Vector Species Richness and Abundance in Jacksonville, Florida
Katherine Kara; Jacksonville University

Fri 10:50am-11:10am
Development of Microsatellite Markers for the Study of Spider Argiope aurantia
Lauren Tesoriero; Adelphi University

Fri 11:10am-11:30am
Modeling the Activity of Adult Lone Star Ticks (Amblyomma americanum) in Northeast Missouri
Priya Maillacheruvu; Truman State University

White Hall Classroom Building 343

Diversity Studies

Fri 10:30am-10:50am
A COMPARATIVE STUDY OF THE IMPACT OF ACTIVISM AND/OR RESISTANCE ON INDIGENOUS AND CHICANO IDENTITY
SimHayKin Jack; Eastern Washington University
Fri 10:50am-11:10am
Appalachian as Backwards: Persistent Stereotypes Among College Seniors in the South
Xavier Watson; University of Kentucky

Fri 11:10am-11:30am
The Assimilatory Patterns of European Immigrants in Lexington, Kentucky
Rachel Dixon, Joel Parker, Clay Marshall, Austin VonAxelson; University of Kentucky

White Hall Classroom Building 345

Engineering/Engineering Technology

Fri 10:30am-10:50am
Applications of Additive Manufacturing in Ultrasound Phantoms
Cindy Angpraseuth; Harvey Mudd College

Fri 11:10am-11:30am
Experimental determination of fused deposition ABSplus moduli with regards to print orientation
Timothy Anderson; Minnesota State University, Mankato

White Hall Classroom Building 346

Computer Science

Fri 10:30am-10:50am
Using the Raspberry Pi as a continuous medical monitor
Kun Jiang, Daniel Wiederecht; Widener University

Fri 10:50am-11:10am
Improving Socialization and Emotion Recognition for Autistic Children Using a Smartphone App
Cassidy Lamm, Lauren Lambert, Joshua Wolfe; University of Alabama

Fri 11:10am-11:30am
Computational Modeling of the pre-Bötzinger Complex
Maya Shende; Roanoke College

White Hall Classroom Building 347

Communications

Fri 10:30am-10:50am
Rhetorical power: Persona, Collective Identity, and Ideology in Organizational Mission Statements
Duy Nguyen; Saint John's University

Fri 10:50am-11:10am
Out of Mind: Judith Hermann, Public Memory and Rhetoric
Ryan Bince; Ithaca College

Fri 11:10am-11:30am
Philanthropy and Profitability in the same stride: A case study of the use of Cause Marketing by Tom's Shoes
Janet Schnurr; Hanover College

White Hall Classroom Building 348

Music Research and/or Analysis

Fri 10:30am-10:50am
Homosexuality and Creativity: Truth or Perception?
Ryan Adams; Capital University

English

Fri 10:50am-11:10am
Reading Never Let Me Go Through the Lens of Judith Butler
Emily Hill; Arkansas State University

Fri 11:10am-11:30am
Emotional Communities: A Psychological Sway
Rodolfo Nunez; Cerritos College

SESSION 7

Fine Arts Building 0308B

International Studies

Fri 3:30pm-3:50pm
Analysis of Media Coverage of the Democratic People's Republic of Korea
Cecilia Moore, Holly Boggs; University of Georgia
Fri 3:50pm-4:10pm
Two Cultures, Two Worlds
Casey Graves; Georgia Southern University

Fri 4:10pm-4:30pm
Study Abroad and Global Citizenship: Evaluation of Competencies and Capacities
Raquel Munoz Ruiz; San Diego State University

Fine Arts Building 106

Ecology & Organismal Biology
Fri 3:30pm-3:50pm
Ecology and Biodiversity of Appalachian Cave Spiders
Linnea Carver; Sewanee

Fri 3:50pm-4:10pm
Seasonality Changes in Web Size of the Orchard Spider, Leucauge venusta
Rachel Frank, Alexis Crouch; Jacksonville University

Fine Arts Building 17

Arts Administration
Fri 3:30pm-3:50pm
Art, Ethics, and an FBI Investigation: Herring is sharing
Rebecca Schaller; University of Kentucky

Music Research and/or Analysis
Fri 3:50pm-4:10pm
Social Media and the Web-based Music Scene
Jameson Hynes; Bridgewater State University

Business/Finance/Accounting
Fri 4:10pm-4:30pm
An Ethical Analysis of Media Pirates: How Generations Sway Piracy
Allison Von Borstel; Carthage College

Fine Arts Building 208

Economics
Fri 3:30pm-3:50pm
More Money, More Problems?
Samantha Aw, Megan Morris, Louise Gappa; Seattle University
Fri 3:50pm-4:10pm
Effect of wealth shocks on health
Ryan Lindsay; Carthage College

Fine Arts Building 004

Music Research and/or Analysis
Fri 3:30pm-3:50pm
Veni Emmanuel: The "O" Antiphons
Allison McClain; Jacksonville University

Fri 3:50pm-4:10pm
A Theoretical Examination and Abstraction of Arvo Pärt's "Magnificat"
Gabriel Estes; Elon University

Fine Arts Building 006

Art History
Fri 3:30pm-3:50pm
John Cage: Drawing the Line Between Art and Performance in the 1960s
April Johnston; Truman State University

Fri 3:50pm-4:10pm
Buster Simpson and the Art of Urban Activism
Megan Moran; Seattle University
Oral Session 7

Fri 4:10pm-4:30pm
On the Road with Richard Prince: Beat Movement themes in the art of Richard Prince
Hannah Soltys; Saint Louis University

Lucille Caudill Little Fine Arts Library 301
Engineering/Engineering Technology

Fri 3:30pm-3:50pm
Stability of a Multi-Stage Amplifier Driving Complex Loads - A Topological Study
Jingyuan Liang, Maxwell Merget, Patrick Gallagher, Robert Pohlman; Milwaukee School of Engineering

Fri 3:50pm-4:10pm
Universal Shock Attenuator
Caitlin Holliday; Norwich University

Fri 4:10pm-4:30pm
High Receive Capacity Station
Guy Zerfoss, James Anderson, Mitchel Schroeder; Metropolitan State University of Denver

Patterson Office Tower 107
Nutrition

Fri 3:30pm-3:50pm
Effects of varying palmitic to stearic acid ratio in supplemental fat on dry matter intake, milk yield and milk composition of heat stressed primiparous cows
Kelly Froehlich; University of Minnesota, Twin Cities

Fri 3:50pm-4:10pm
Supplementing glycerol in nursery calf drinking water increases water intake but does not increase energy intake or calf growth
Kelly Froehlich; University of Minnesota, Twin Cities

Fri 4:10pm-4:30pm
Effects of Green Coffee Bean Extract on Weight: An Updated Meta-Analysis of Randomized Clinical Trials
Brianna Huynh; Jacksonville University

Patterson Office Tower 108
Film Studies

Fri 3:30pm-3:50pm
The Horror movie boom: What it meant for postwar Spain, and what it means for us today
Seth Nye; Weber State University

Fri 3:50pm-4:10pm
Living and Dying in Murderhouse: Abigail Hobbs in NBC's Hannibal
Emily Maesar; Western Carolina University

Fri 4:10pm-4:30pm
Media's Obsession with Tragedy: Are We Helping or Hurting Victims through Coverage?
Caroline Kim; George Mason University

Patterson Office Tower 110
Health Sciences & Public Health

Fri 3:30pm-3:50pm
A Comparative analysis of health care systems and their effectiveness in Uruguay and Paraguay
Brianna Kline; Brockport
Fri 3:50pm-4:10pm  
*Just Care: Healthcare on the Margins*  
Lauren Gentry, Jacob Boersma, Erick Skaff; Hope College

Fri 4:10pm-4:30pm  
*Interoperability of CommCare within India’s ASHA Framework: A study on mobile health in Kishangarh block of Ajmer, Rajasthan*  
Alison Flaming; Occidental College

**Patterson Office Tower 112**

**Biological Engineering**

Fri 3:30pm-3:50pm  
*The Optimization of Porosity and Pore Patterning for Patient-Specific Ti-6Al-4V Femur Implants*  
S. Alex Paolicelli; Union College

Fri 3:50pm-4:10pm  
*The Consequences of Ankle Foot Orthosis Joint Misalignment Using a 3D Model*  
Samuel Kwak; University of Rochester

Fri 4:10pm-4:30pm  
*Restoration of Continence via Electrical Stimulation of Feline Pudendal Nerve*  
Shana Black; University of Utah

**Patterson Office Tower 113**

**Geography & Earth Sciences**

Fri 3:30pm-3:50pm  
*LEAD CONTAMINATION IN PASSAGE ISLAND SOILS & ROCK POOLS, ISLE ROYALE NATIONAL PARK*  
Steve Oxley; University of Wisconsin, La Crosse

Fri 3:50pm-4:10pm  
*Convection Initiation Along the Rocky Mountain Front Range*  
Brian Matilla; Florida International University

Fri 4:10pm-4:30pm  
*Public Perception of Severe Weather Risk in La Crosse, Wisconsin*  
Michael Heing; University of Wisconsin, La Crosse

**Patterson Office Tower 145**

**Psychology**

Fri 3:30pm-3:50pm  
*A Natural Restorative: The Effects of Natural Environments on Ego Depletion*  
Alexander Ward; Elon University

Fri 3:50pm-4:10pm  
*Striving to be Thin: Pressures, Unrealistic Ideals and Essential Reformations in the Ballet World*  
Alyssa Mitchel; Dominican University of California

**Philosophy & Ethics**

Fri 3:50pm-4:10pm  
*The correlations between adolescent dance and body image*  
Katherine Bush; Virginia Commonwealth University

**Patterson Office Tower 003**

**Psychology**

Fri 3:30pm-3:50pm  
*Effect of Experience and Age of Exposure on Japanese Discrimination between /l/ and /r/ Phonemes: An ERP Study*  
Breya Walker; University of Memphis

Fri 3:50pm-4:10pm  
*Cognate Status Moderates Age of Second Language Acquisition Effects*  
Adam Bucar; Westmoreland County Community College

Fri 4:10pm-4:30pm  
*The Relative Contribution of Word Shape to Lexical Processing During Sentence Reading*  
Brandon Hansen, Radison Parry; Utah Valley University

**Patterson Office Tower 005**

**Biology**

Fri 3:30pm-3:50pm  
*Gene Duplication in Mitochondrial Genomes*  
Jose Maldonado; University of Texas, Arlington
Fri 3:50pm-4:10pm
The Mechanism of Asterless Reduction
Alberto Vizuet, Alberto Vizuet; University of Toledo

Fri 4:10pm-4:30pm
The Role of Asterless Domains in Embryogenesis
Suma Kolla, Suma Kolla; University of Toledo

Patterson Office Tower 007

History
Fri 3:30pm-3:50pm
God Himself Could Not Sink this Ship: The Altered Role of Religion in response to the R.M.S. Titanic
Kelly Hagerty; Gettysburg College

Fri 3:50pm-4:10pm
Rime of the Ancient Mariner: Christianity's Incompatibility with Inherent Human Inquisition
Elora Amtower; Salisbury University

Interdisciplinary Studies
Fri 4:10pm-4:30pm
The Drum Meets the Bell: Understanding Father Serra's Mission
Monica McGue; Dominican University of California

Patterson Office Tower 009

Political Science
Fri 3:30pm-3:50pm
Road to Partition?: Ethnic Self-Determination and Governance in Scotland and Catalonia
Matthew Levinson; Macalester College

Fri 3:50pm-4:10pm
Decision Making Strategies and Foreign Policy Outcomes: President Clinton's Advisory Group's Success in Bosnia
Cameron Millstone; Hendrix College

Fri 4:10pm-4:30pm
Red Lines: A Historiographical Analysis of the United States Military Engagements of Foreign Policy Utilizing the Just War Theory
Dannie Bolden; Howard University

Singletary Center - President's Room

Music Research and/or Analysis
Fri 3:30pm-3:50pm
An Endless Song: Aphasia, Music Therapy, and Communication
Erin Townley; Lafayette College

Fri 3:50pm-4:10pm
Amber Bruns; Capital University

Fri 4:10pm-4:30pm
Establishing a Musical Dialogue with Non-verbal Exceptional Children
Brooke Winters; Elon University

Student Center - Center Theatre

Music Research and/or Analysis
Fri 3:30pm-3:50pm
Scarlatti vs. Contemporaries
Joy Brammer; Cedarville University

Fri 3:50pm-4:10pm
Prince Nikolaus Esterházy's Legacy: The Baryton Trios of Franz Joseph Haydn
Lanson Wells; University of North Carolina, Charlotte

Fri 4:10pm-4:30pm
An Examination of Classical Music's Declining Relevance
Hayden Brown; Capital University
Oral Session 7

White Hall Classroom Building 102

Psychology

Fri 3:30pm-3:50pm  
Extraversion and Expressivity: Patterns in Extremity, Redemption, Intimacy, and Content  
Stephanie Smith; Saint Olaf College

Fri 3:50pm-4:10pm  
Exploration of Authentic Leadership, Core Evaluations & Perceived Leadership Effectiveness  
Mathew Goldberg; Elon University

Fri 4:10pm-4:30pm  
Projecting Self and Increasing Telepresence by Merging Identities  
Kevin Smith; Eastern Kentucky University

White Hall Classroom Building 110

Political Science

Fri 3:30pm-3:50pm  
The Middle East's Post-Revolutionary Transitions in light of Post-1989 Eastern Europe  
Dillon Baralt; Susquehanna University

Fri 3:50pm-4:10pm  
News Parody in the Middle East: Indications of Political Liberalization and Media Freedom  
Charles Harpole; University of Louisville

Fri 4:10pm-4:30pm  
Egypt Post-Mubarak and the Turkish Model  
Salma Abdou; Brooklyn College

White Hall Classroom Building 114

Psychology

Fri 3:30pm-3:50pm  
Woman to Woman: Understanding Violence in Lesbian Relationships  
Michayela Rosario; University of Memphis

Fri 3:50pm-4:10pm  
Experiences of Fire Survivors: What Factors Predict Resilience  
Austin Seeley; University of Northern Colorado

White Hall Classroom Building 122

Art History

Fri 3:50pm-4:10pm  
Botticelli and the Medici: The Patron's Support during the Age of Savonarola  
Abigail Johnson; Old Dominion University

White Hall Classroom Building 201

Biology

Fri 3:30pm-3:50pm  
Caffeine's Effect on Propagating Arrhythmias  
Karl Larson; Virginia Commonwealth University

Fri 3:50pm-4:10pm  
Chlamydia Pneumoniae in Atherosclerosis  
Jason John; Virginia Commonwealth University

Fri 4:10pm-4:30pm  
Galanin localization and actions in the guinea pig cardiac plexus  
Alisha Linton; Ithaca College

White Hall Classroom Building 203

Physics

Fri 3:30pm-3:50pm  
Synthesis and Characterization of Neodymium Nanoparticles  
Maya Castro De La Torre; California State University Fresno

Fri 3:50pm-4:10pm  
A classical analogue for adiabatic Stark splitting in non-hydrogenic atoms  
Graham Gordon; Auburn University
Fri 4:10pm-4:30pm
Charge transport in CVD graphene with and without a silver coating
Marishka Oquendo Mustafa; University of Puerto Rico at Humacao

White Hall Classroom Building 204

Education

Fri 3:30pm-3:50pm
Brown vs. Urban Students: A Qualitative Analysis on How the Brown v. Board of Education Decision Has Had an Adverse Effect on Urban Education Using the Conflict Theory
Jaimee Johnson; Howard University

Fri 3:50pm-4:10pm
What Emerging Cyber-bullying Case Law Teaches Us About College Readiness and the Common Good
John Cusick, Dara Byrne; City University of New York

White Hall Classroom Building 205

African American Studies

Fri 3:30pm-3:50pm
Dissemblance in Toni Morrison’s Beloved and the Slave Narrative of Dora Franks
Catherine Stiers; Western Carolina University

Fri 3:50pm-4:10pm
Cultural Twins: A Qualitative Study of Robert Farris Thompson’s Ten Cannons of African Art in Relation to the Cultural and Philosophical Archetypes in Africa and Black America
Olivia Harp; Howard University

Fri 4:10pm-4:30pm
If Only I Had A Chance: Chicago Restriction in Richard Wright’s Native Son
Sara Green; Western Carolina University

White Hall Classroom Building 207

Biochemistry

Fri 3:30pm-3:50pm
Structural and Functional Analysis of Disease Causing Mutations in the M10 Domain of Titin
Michael Rudloff; James Madison University

Fri 3:50pm-4:10pm
Structural Analysis of the Ig59 Domain of Obscurin
Tracy Caldwell; James Madison University

Fri 4:10pm-4:30pm
Structural Basis for Fas-Mediated Apoptosis and Mechanism of Inhibition
Bliss Chang; University of Alabama at Birmingham

White Hall Classroom Building 208

English

Fri 3:30pm-3:50pm
Finnegans Wake: James Joyce and His Public
Nathan Sandbothe; Truman State University

Fri 3:50pm-4:10pm
James Joyce and Pre-Revolution Ireland: The Living Ghost of Catholicism
Sean Clifford Clifford, David Twombly, John Condry, Paige Kelleher; Bridgewater State University

Fri 4:10pm-4:30pm
Irish Culture Created by William Butler Yeats
Paige Kelleher, John Condry, Sean Clifford, David Twombly; Bridgewater State University

White Hall Classroom Building 209

Engineering/Engineering Technology

Fri 3:30pm-3:50pm
Should consumers upgrade to energy efficient appliances or invest in alternative energy sources?
Lisa Bosman, Chase Quinney, Krista Buettner, Miranda Fink, Lincoln Peters; College of Menominee Nation
Oral Session 7

Fri 3:50pm-4:10pm
Small Scale Three-Stage Cascade Refrigeration System
Richard Anderson; Metropolitan State University of Denver

Fri 4:10pm-4:30pm
Sustainability through Soap: Small-Scale Solutions for Large-Scale Problems
Kendra Jones; Howard University
White Hall Classroom Building 211

Fri 3:30pm-3:50pm
Workplace Bullying and Job Satisfaction: The Moderating Effect of Perceived Organizational Support
Amy Francis; University of North Carolina, Asheville

Fri 3:50pm-4:10pm
Addressing Social Media Conduct at Fortune 100 Companies: A Study of Codes of Conduct
Melissa Hrabe, Parker Riegelman; Minnesota State University, Mankato

Fri 4:10pm-4:30pm
"The Working Woman": How Societal Perceptions of Female Leaders Affect Staffing and Generate Obstacles for Women in Higher Education Organizations
Stephania Rodriguez; North Central College
White Hall Classroom Building 212

Fri 3:30pm-3:50pm
I, the Queen: The Power and Gender in the Reign of Isabel I of Castile
Sarah Hayes; Gettysburg College

Fri 3:50pm-4:10pm
Evansville's Home for the Friendless and the Downfalls of Female Reform
Brianna McLaughlin; University of Evansville

Fri 4:10pm-4:30pm
Petticoats and Parlors: The Political Power of Women as Seen Through Home Entertaining in the Civil War Era
Alana Shuma; North Central College

White Hall Classroom Building 213

Women and Gender Studies

Fri 3:30pm-3:50pm
The Female Proletariat: Marxism in Moulin Rouge
Jessie Sherry; Lee College

Fri 3:50pm-4:10pm
A Not So Cinderella Story: Gender Inequality in Anne Sexton’s "Cinderella"
Elizabeth-Ann Diehl; Western Carolina University

Fri 4:10pm-4:30pm
Gender Strategies Associated with the Swedish Parental Leave Policy: Parenthood and Paternity Leave Ideologies in Stockholm
Catherine Yeh; Colgate University
White Hall Classroom Building 214

Political Science

Fri 3:30pm-3:50pm
Competing Frames of Egypt’s Arab Spring in International News
Zachary Lemon; Juniata College

Fri 3:50pm-4:10pm
Citizen Perception of Political News Bias in the Age of Selective Exposure
Derrick Magnotta; Juniata College

Fri 4:10pm-4:30pm
The Revolution Will Be Televised: Social Change and Technology
Donald Fantozzi; University of Hartford
White Hall Classroom Building 215

Microbiology & Immunology

Fri 3:30pm-3:50pm
Inhibition of Quorum Sensing by Bucida buceras in Conjunction with Antibiotics to Attenuate Virulence in Pseudomonas aeruginosa
Liana Angeli Apolis; Florida International University
Occurrence of Antibiotic Resistant Genes in Proximity to Wastewater Treatment Plants
Brooke Johnson; Eastern Kentucky University

Phylogeny of Soil Microorganisms in Runoff at an Extreme Acid Mine Drainage Site
Siby Sabu; Simpson University

Antiproliferative Effect of Resveratrol in Rat Endothelial Cells (RAMEC) is Dependent on the Post-translational Modification of VACM-1/cul5 by NEDD8
Collin Breit, Zachary DeBruine; Hope College

Expression of FGF9/16/20 and Foxp1 in Juvenile and Adult Ciona intestinalis
Brittany Prioleau; Winthrop University

Overexpression of BCL2 Improves HB1.F3.CD survival
Daniel Mota; Cerritos College

French Opera and the French Revolution: Etienne Nicolas Méhul
Savannah Dotson; Hamline University

Robespierre, The Supreme Being, and the French Enlightenment
Cabell Willis; Virginia Military Institute

Twentieth-Century Interpretations of the Influence of Jean-Jacques Rousseau on the Reign of Terror
Hannah Malcolm; Appalachian State University
Fri 4:10pm-4:30pm
Barbie's Rash Wish For The Curse
Margaret Speer; University of Rochester

White Hall Classroom Building 235

Anthropology & Archeology

Fri 3:30pm-3:50pm
Inside the Hidden House of Healing: Intentionality and Visual Anthropology at a Domestic Violence Shelter
Kenton Bell; University of North Carolina, Asheville

Fri 3:50pm-4:10pm
Revising the Past: Multiculturalism in Vietnam
Travis Muller, Cody Wiswasser; Ball State University

Fri 4:10pm-4:30pm
Dietary differences and activity budgets of Alouatta palliata in primary and secondary forest fragments in Northeastern Costa Rica
Lotte Jensen; University of Texas, San Antonio

White Hall Classroom Building 237

Computer Science

Fri 3:30pm-3:50pm
Creating a Successful Transit iPhone App (AsUBus)
Brian Clee; Appalachian State University

Fri 3:50pm-4:10pm
Real-Life Musical Composition Through Virtual Means: a Mobile Application Controlled Ukulele-Playing Robot
Christine Dierk; Elon University

Fri 4:10pm-4:30pm
Accurate and Timely Absolute Location for Augmented Reality Mobile Applications
Colleen Brockmyre; Elon University

White Hall Classroom Building 238

International Studies

Fri 3:30pm-3:50pm
Out of Many One People
Jonathon Cummings; Ithaca College

English

Fri 3:50pm-4:10pm
Willa Cather's Construction of Female Protagonists in My Antonia and Sapphira and the Slave Girl
Hanna Szigeti; Albright College

Fri 4:10pm-4:30pm
"HUMAN TONGUE CANNOT TELL": DIALECT, LYRICISM, AND ANTI-SLAVERY ARGUMENTS IN WILLIAM WELLS BROWNS' THE ESCAPE, OR A LEAP FOR FREEDOM (1858)
Jillian Fields; Wells College

White Hall Classroom Building 239

Religious Studies

Fri 3:30pm-3:50pm
The Search for a Pentadic Theme
Joshua Brandon; Abilene Christian University

Fri 3:50pm-4:10pm
Connecting the Influences of Scientific Theories and Religious Beliefs
Virginia Cohen; Western Carolina University

Fri 4:10pm-4:30pm
The Effectiveness of Short-Term Intensive Youth & Family Ministry Internships
James Masterson; Lubbock Christian University

White Hall Classroom Building 240

Marketing

Fri 3:30pm-3:50pm
Placing Google Glass and Augmented Reality in Plastic Surgery
Saajan Patel; Virginia Commonwealth University

Fri 3:50pm-4:10pm
Consumer Perceptions on Online Privacy
Cara Luke, Erika Loberg; Fordham University
Oral Session 7

Fri 4:10pm-4:30pm
For Time and All Eternity: A Qualitative Study of Bridal Shopping of Women in Utah County
Karson Kalt; Utah Valley University

White Hall Classroom Building 241

Literature

Fri 3:30pm-3:50pm
Modes of Communication: the Real, Visual, and Mental World in Julio Cortázar’s “Las Babas del Diablo”
Amanda Rigdon; Capital University

Fri 3:50pm-4:10pm
The Politics of Literature: Gabriel García Marquez and Jorge Luis Borges
Tanairi Alcaraz; University of the Pacific

Fri 4:10pm-4:30pm
The Role of Language in the Perception of Reality in the Writings of Jorge Luis Borges
Jordan Hill; Hope College

White Hall Classroom Building 242

Linguistics & World Languages

Fri 3:30pm-3:50pm
Translating Indigenous Poetics: A Translation of Luis de León’s “Su segunda muerte”
Savannah Logan; Loyola University

Fri 3:50pm-4:10pm
The Spanish Civil War in Translation
Michael Ehrenburg; Hendrix College

Fri 4:10pm-4:30pm
The Emergence of Arthurian Literature in Spain as a Response to Governmental and Societal Changes
Emily Stein; Hamline University

White Hall Classroom Building 243

Engineering/Engineering Technology

Fri 3:30pm-3:50pm
A comparative study of XPS and TEM depth compositional profiles
Jordan Hales; University of Michigan

Fri 3:50pm-4:10pm
A novel FPGA-based algorithm for message authentication using hybrid encryption scheme
Jonnetta Bratcher; Howard University

Art Studio (Visual Arts)

Fri 4:10pm-4:30pm
You got your code in my design
Brianna Piccari; Millersville University

White Hall Classroom Building 244

Health Sciences & Public Health

Fri 3:30pm-3:50pm
Three-Dimensional Segmentation and Reconstruction of Brain Tumors from MRI Images using a Hybrid Method of Gaussian Mixture Models and Region Growing
Remy Schott; Florida Institute of Technology

Fri 3:50pm-4:10pm
The Scientific Validity of Electroacupuncture Therapy
Anna Hegeler; Virginia Commonwealth University

Fri 4:10pm-4:30pm
Death and Dying: Natural Transition or Medical Problem?
Laryn Hoytt; Dominican University of California

White Hall Classroom Building 245

Sociology

Fri 3:30pm-3:50pm
SEXUAL VIOLENCE ON COLLEGE CAMPUSES: INDIVIDUAL EXPERIENCE AND COLLECTIVE SILENCE AMONG SURVIVORS
Kelsey Ruane; James Madison University
Oral Session 7

Fri 3:50pm-4:10pm
Homicide Survivors’ Needs, Experiences, and Perceptions of Closure: Asking the Experts
Larissa Saco; Occidental College

Fri 4:10pm-4:30pm
Visible Mobile Disabilities Students and their Social Interaction on Campus
Yanique Walker; Brooklyn College

White Hall Classroom Building 246

Women and Gender Studies

Fri 3:30pm-3:50pm
“I want to see some leg”: An Ethnographic Study of Burlesque in Terms of Empowerment versus Objectification.
Emily Hogan; Wartburg College

Fri 3:50pm-4:10pm
Breaking Body Barriers: Women in Physique Competitions
Sarah Wibell; Mercer University
Fri 4:10pm-4:30pm
Gender Performativity: Gender as a Performance and Social Construct
Shelby Vane; Salisbury University

White Hall Classroom Building 247

Education

Fri 3:30pm-3:50pm
A Qualitative Analysis of the Effects and Misplacement of Students in US Special Education Utilizing the Heutagogy and Ergonagy Theories
Zha’Mari Hurley; Howard University

Fri 3:50pm-4:10pm
Relationship of African American Vernacular English to Disproportionate Representation of African American Students in Special Education: A Meta-Synthesis of Research
Louise Strickland; Truman State University

Fri 4:10pm-4:30pm
The Effects of Maltreated Students Academically and Socially and Teacher’s Methods of Support
Kaitlyn Gentry; Dominican University of California

White Hall Classroom Building 303

Chemistry

Fri 3:30pm-3:50pm
Collagen-Gold Nanoparticle Array as LSPR-Based Biosensor of Glucose
Jenifer Hatch, Sarah Unser, Ian Campbell; University of Cincinnati

Fri 4:10pm-4:30pm
Designing a Unique Therapeutic Agent Involving Gold Nanoparticles Capped With Ceftazidime for Potent Antibacterial Applications
William Hamilton, Monic Shah, Varavoot Siriyutwatana; Western Kentucky University

Cell & Molecular Biology

Fri 3:50pm-4:10pm
Single Step, Aminoglycoside Mediated Synthesis of Gold Nanoparticles with Potent Antimicrobial Activity
Hannah Rodgers; Western Kentucky University

Fri 4:10pm-4:30pm
The reasons behind the hostility between members of Christianity and Islam while the origins of these religions remain intertwined
Jasmine Phaguda; Virginia Commonwealth University

Religious Studies

Fri 3:30pm-3:50pm
A Contextual Profile of Tariq Ramadan: Islam and Modernity Revisited
Lucy Ballard; Appalachian State University

Fri 3:50pm-4:10pm
“Religion in the Shadow of the Shoah: Exploring the Social Dimensions of Christianity”
Sarah Holland; Elon University

Fri 4:10pm-4:30pm
The reasons behind the hostility between members of Christianity and Islam while the origins of these religions remain intertwined
Jasmine Phaguda; Virginia Commonwealth University
Oral Session 7

White Hall Classroom Building 316

History

Fri 3:30pm-3:50pm
"Yes, of course there are problems..." Margaret Thatcher's Objection to German Reunification and its Effects
Richard Bordelon; Fordham University

Fri 3:50pm-4:10pm
A Forced Identity: The Production of a Distinct East German National Identity
Ryan McCluskey; Hendrix College

Fri 4:10pm-4:30pm
Nuremberg's Legacy Through the Lens of the John Demjanjuk Legal Saga
Julia Okada; Elon University

White Hall Classroom Building 331

English

Fri 3:30pm-3:50pm
Recovering a Living Poet: The Poetry of Herbert Woodward Martin
LaVelle Ridley; University of Toledo

Fri 3:50pm-4:10pm
Fitting into the Story: Western Romance and Blackness in Toni Morrison's "Tar Baby"
Carrie Moore; University of Southern California

Fri 4:10pm-4:30pm
Langston Hughes's Trailblazing Literary Aesthetic: Ignoring the White Gaze
Donald Brown; Mississippi State University

White Hall Classroom Building 333

Art History

Fri 3:30pm-3:50pm
Gazing at the Gazer: An Analysis of the Turkish Bath (1973) by Sylvia Sleigh
Katie Choi; University of the Pacific

Fri 3:50pm-4:10pm
Gender Crash: A Semiotic Analysis of Masculine Sexuality in Grant Wood's "Death on the Ridge Road"
Mark Lisowski; Ripon College

Fri 4:10pm-4:30pm
Art Nouveau Sexualization: Gendered Viewing Experiences of Poster Art
Anthony Amettis; Northern Illinois University

White Hall Classroom Building 334

Biology

Fri 3:30pm-3:50pm
Evaluating the efficacy of fenbendazole against Parascaris equorum in young horses to reduce fecal egg counts
Michelle Wynn; University of Kentucky

Fri 3:50pm-4:10pm
Comparison between hoof bath products
Alexis Thompson; University of Kentucky

Fri 4:10pm-4:30pm
Complete Genome Sequence Analysis of the KY84 Strain of Equine Arteritis Virus
Bora Nam; University of Kentucky

White Hall Classroom Building 335

Chemistry

Fri 3:30pm-3:50pm
Adaptability of Monoglyceride-Templated Crystallization: Effect of Specific Anion and Chain Splay
Omoakhe Tisor, Michelle Muzzio; Iona College

Fri 3:50pm-4:10pm
An Alternative Mechanism for the Kinetics of the Aqueous Formation of N-chloro-N-methylacetamide
Bridget Gromek; University of Hartford

Fri 4:10pm-4:30pm
Balancing the Intermolecular Forces in Peptide Amphiphiles for Self-Assembly
**Oral Session 7**

Michael Nicholl; Ohio State University

**White Hall Classroom Building 336**

**Sociology**

**Fri 3:30pm-3:50pm**
*Identifying Need in the Inner City: Residents' Experiences and Perceptions on Living on the Near East Side of Columbus, Ohio*
Christophe Valcourt; Capital University

**Fri 3:50pm-4:10pm**
*Evaluating the Revanchist Theory: The Spatial Politics of Homelessness in Washington, DC*
Hunter Scott; The George Washington University

**Fri 4:10pm-4:30pm**
*Determining the Origins of the Nationalistic Culture of the Southern United States as Displayed through Flag Culture: A Review of Literature*
John Rackoski; Virginia Commonwealth University

**White Hall Classroom Building 337**

**Economics**

**Fri 3:30pm-3:50pm**
*College Campus Substance Violations and Sexual Assaults*
Stacey Morris; Siena College

**Fri 3:50pm-4:10pm**
*Determinants of Violent Crime in U.S: Evidence from State Level Data*
Grace Piggott; University of Wisconsin, Stout

**Fri 4:10pm-4:30pm**
*Crime Rates, Income Inequality, and Density at the Neighborhood Level*
Andrew Hovel; Saint John's University

**White Hall Classroom Building 338**

**Computer Science**

**Fri 3:30pm-3:50pm**
*Assessing the Level of Knowledge About Cybercrimes Among Young Adults Within the United Arab Emirates*
Sarah Bamatraf; Zayed University

**Fri 3:50pm-4:10pm**
*Identifying Product Preference by Gender Using Twitter*
Justin Edse, Justin Edse, Yiye Ruan, Srinivasan Parthasarathy; Ohio State University

**Fri 4:10pm-4:30pm**
*Modeling Tolerance in Dynamic Social Networks*
Amanda Luby; College of Saint Benedict

**White Hall Classroom Building 339**

**Anthropology & Archeology**

**Fri 3:30pm-3:50pm**
*Growing Up Woolly: Ontogenetic scaling of the hindlimb musculature of Humboldt's woolly monkey (Lagothrix lagotricha)*
William Beckerson; Georgetown College

**Fri 3:50pm-4:10pm**
*The comparative and functional anatomy of the hindlimb musculature of Humboldt’s woolly monkey (Lagothrix lagotricha) and why it matters to ape and human evolution*
Vanya Bistrekova; University of Kentucky

**Fri 4:10pm-4:30pm**
*A new 3D approach to dietary reconstruction in fossil apes and early humans*
William Witt; University of Kentucky

**White Hall Classroom Building 340**

**Communications**

**Fri 3:30pm-3:50pm**
*Google Service: The Bridge between Expectations and Satisfaction*
Jennifer Segal, James Walsh, Jennifer Barish, Michela Moe, Michelle Ammirati; Ithaca College

**Fri 3:50pm-4:10pm**
*America the Be-You-Tiful*
Elise Mihranian; Juniata College
**Oral Session 7**

**Fri 4:10pm-4:30pm**  
*Beauty, Happiness, and Other Figments of the Imagination: An Autoethnographic Examination of Body Image and Body Dissatisfaction*  
Courtney Pearson; University of Wisconsin- River Falls

**White Hall Classroom Building 341**

**Philosophy & Ethics**

**Fri 3:30pm-3:50pm**  
*Internal vs. External Law: A Critique of the Categorical Imperative from a Social and Political Perspective*  
Ariel May; Iona College

**Fri 3:50pm-4:10pm**  
*The Ethics of Anti-Panhandling Laws and the Criminalization of Homelessness*  
Carolyn May; Capital University

**Fri 4:10pm-4:30pm**  
*Practical Revolution: The Rejection of Violence and the Implementation of Peaceful Change*  
Jonathan Henderson; Midwestern State University

**White Hall Classroom Building 342**

**History**

**Fri 3:30pm-3:50pm**  
*Emerson and Thoreau on Slavery: Voices of Change or Changing Voices*  
Kelly McCormick; Illinois College

**Fri 3:50pm-4:10pm**  
*Slave Religions*  
Matthew Rakowski; Adelphi University

**Fri 4:10pm-4:30pm**  
*Slavery as Entertainment: Power Relationships of Slavery in 19th Century Minstrel Shows*  
Kelly Schmidt; Xavier University

**White Hall Classroom Building 343**

**Law & Legal Studies**

**Fri 3:30pm-3:50pm**  
*The New Direction of Affirmative Action: Judicial Decision Making, Social Science, and Meaningful Review of Race in Higher Education*  
Victoria Willis-Howard; Hamline University, St. Paul

**Fri 3:50pm-4:10pm**  
*Abolish, Maintain, or Reform? The Impartial Jury and the future of the Peremptory Challenge*  
Getzy Berger; Brooklyn College

**Fri 4:10pm-4:30pm**  
*Guilty of Homelessness: Evaluating the Criminalization of Homelessness Through a Human Rights Framework*  
Cristina Semi; Hamline University, St. Paul

**White Hall Classroom Building 345**

**Philosophy & Ethics**

**Fri 3:30pm-3:50pm**  
*Deconstructing Thomas Paine’s Criticism of the Gospel of Matthew in the The Age of Reason*  
Stephan Rochefort; Massachusetts College of Liberal Arts

**Fri 3:50pm-4:10pm**  
*Implications on Selfhood in Alasdair MacIntyre’s After Virtue*  
Walker Dorsett; Western Carolina University

**Fri 4:10pm-4:30pm**  
*Freedom, Respect, and Faithfulness: Epictetus’ Essential Virtues*  
Mary Kathryn Jorgensen; Samford University

**White Hall Classroom Building 346**

**Mathematics**

**Fri 3:30pm-3:50pm**  
*Population Estimation; a Bayesian Approach*  
Ricky Moore; University of North Alabama
Fri 3:50pm-4:10pm
Estimation of Growth Rates of Dreissena bugensis in Lake Michigan
Dylan Hardwick, Liv Heidenreich; University of Wisconsin, Milwaukee

Fri 4:10pm-4:30pm
Measuring the Effect of Crowd Attendance
Jess Conner, Garret Ruckel; Jacksonville University

White Hall Classroom Building 347

Literature

Fri 3:30pm-3:50pm
Darkness Lurking within William Blake’s Songs of Innocence
Hannah Benden; Salisbury University

Fri 3:50pm-4:10pm
Thematic Similarities in George Chapman’s “The Memorable Masque” and John Smith’s “The Generall Historie”
Tyler Auffhammer; Western Carolina University

Fri 4:10pm-4:30pm
Multiplicities of Self and Fame Culture in Margaret Cavendish
Taylor Burmeister; Wittenberg University

White Hall Classroom Building 349

Education

Fri 3:30pm-3:50pm
Research-Oriented Series: A Portal into the Culture of Biomedical Research for Junior Medical Students
MOHAMMAD SHAREEF; Alfaisal University

Fri 3:50pm-4:10pm
Undergraduate Research: An Innovative Student-Centered Committee from the Kingdom of Saudi Arabia
Abdulhadi Alamoudi, hassan hrahmatullah, ranim chamseddin, mohammed shareef, loai dweik dweik; Alfaisal University

Fri 4:10pm-4:30pm
An Undergraduate Research Initiative to Improve K-12 Student Outcomes
Sarah Holt, Caroline McLean, Kristin Unruh, Brittani Shaw, Meagan Mingirulli, Carly Hall; Georgia Southern University

SESSION 8

Fine Arts Building 0308B

Biochemistry

Fri 5:00pm-5:20pm
MDA-MB-231: PROPOSED AS A MODEL CELL LINE FOR STUDIES OF MONOCARBOXYLIC ACID TRANSPORTER-4
Logan Van Hon; University of Minnesota, Duluth

Fri 5:20pm-5:40pm
Effects of Cellular Conditions on Hybrid Duplex Conformation and Stability
Leanna Hengst; State University of New York, Brockport

Fri 5:40pm-6:00pm
Galectin-1 and H-Ras mediate intermediate filament abnormalities in Giant Axonal Neuropathy
Kelsey Loden; Valparaiso University

Fine Arts Building 106

Health Sciences & Public Health

Fri 5:00pm-5:20pm
What social factors contribute to the under diagnosis of Type 2 diabetes among the Hmong community?
Jasmine Carter; University of the Pacific

Fri 5:20pm-5:40pm
The Associations Between Food Insufficiency, Dietary Choice and Body Mass Index
Kwasi Nyantakyi; University of Rochester

Fri 5:40pm-6:00pm
Exploring Heart Health in Appalachian Kentucky: Preparing Students for a Healthier Future
Michael Deaton; Eastern Kentucky University

Fine Arts Building 17

English

Fri 5:00pm-5:20pm
The Ambiguity of Masculinity and Femininity in The
Strange Case of Dr. Jekyll and Mr. Hyde  
Holly Bassett; Valdosta State University  
**Fri 5:20pm-5:40pm**  
*Taking Control: Women and Architecture in James, Hawthorne, Gilman and Poe*  
Lucia Smith; Ithaca College

**Fine Arts Building 208**

**Sociology**

**Fri 5:00pm-5:20pm**  
*The Role of Economic Development in Women’s Social Capital: A Comparative Analysis of El Salvador and Poland*  
Dylan Brugman; Abilene Christian University

**Fri 5:20pm-5:40pm**  
*Life in Extraordinary Times: A Study of Muslim Women’s Identities in Minnesota*  
Ardo Jimale; St. Catherine University, St. Paul

**Fri 5:40pm-6:00pm**  
*A Feminist Contradiction: How Feminist Anti-pornography and Anti-hookup Culture Movements Fail to Empower Women.*  
Amalia Ashley; Central Connecticut State University

**Fine Arts Building 004**

**Music Research and/or Analysis**

**Fri 5:00pm-5:20pm**  
*Songs of the Great French Heroes: France’s Rich History of the Chansons de Jeste*  
Allison Butterworth; Cedarville University

**Fri 5:20pm-5:40pm**  
*Music as a Redeeming Force: Textual Manifestations in Gabriel Fauré’s Setting of “La Chanson d’Ève”*  
Emma Childs; University of Minnesota, Twin Cities

**Fri 5:40pm-6:00pm**  
*Claude Debussy: Harmonic Innovations in Historical and Musical Context*  
Ford Fourqurean; Columbus State University  
**Fine Arts Building 006**

**History**

**Fri 5:00pm-5:20pm**  
*The University of Wisconsin and Madison: City and School in Symbiosis*  
Mark Boxell; University of Evansville

**Fri 5:20pm-5:40pm**  
Jordan Marshall; University of Wisconsin, La Crosse

**Fri 5:40pm-6:00pm**  
*Progressive Era Business: An Analysis of the Great Northern Railway and its relations with the city of Duluth, Minnesota.*  
Enrique Ortega; Hamline University

**Lucille Caudill Little Fine Arts Library 301**

**English**

**Fri 5:00pm-5:20pm**  
*A Deconstructive Reading of In The Aeroplane Over The Sea*  
Nathaniel Smith; University of Wisconsin, La Crosse

**Fri 5:20pm-5:40pm**  
*Screwed-up Children in Henry James’ Turn of the Screw*  
Javiera Green; Eastern Illinois University

**Fri 5:40pm-6:00pm**  
*As If a Man Were Author of Himself: An Analysis of the Relationship Between Coriolanus and Aufidius*  
Peter Dziadowicz; University of Wisconsin, La Crosse

**Lucille Caudill Little Fine Arts Library 302**

**English**

**Fri 5:00pm-5:20pm**  
*Look! Magazine: The Push Towards Visual Literacy*  
Katherine Spevak; University of Wisconsin- River Falls
Economics

Fri 5:20pm-5:40pm
Online Poker Legalization: A Big Deal in the American Economy
Vinikarn Phahurat; Hendrix College

Fri 5:40pm-6:00pm
Reliability of A Weightlifting Accelerometer During Repeated 1 kg Drop Trials
Joseph Watso; Salisbury University

History

Fri 5:40pm-6:00pm
Rubber Versus Rail: The Decline of Streetcars in Detroit, 1922 - 1956
Robert Pfaff; Wayne State University

Poetry & Creative Writing

Fri 5:00pm-5:20pm
How Euripides Slew My Writer’s Block, and Other Stories
Emily Brower; Union College

Fri 5:20pm-5:40pm
Poetry for the Average Joe
Caroline Eckstrom; Dordt College

Fri 5:40pm-6:00pm
Stork Daughter: A Novel
Ren (Lauren) Martin; Indiana Wesleyan University

Ecology & Organismal Biology

Fri 5:00pm-5:20pm
Female Personality Depends on Body Size, Reproductive State, and Social Context in the Invasive Western Mosquitofish
Claire Hemingway; St. Edwards University

Fri 5:20pm-5:40pm
Difference in Diet Contents Among Sunfish Species Reveals Habitat Partitioning Within Dream Lake, Hobart, WI
Kristin Kniech; St Norbert College

Fri 5:40pm-6:00pm
Dispersal ability of the Frecklebelly Darter (Percina Stictogaster).
Brooke Washburn; Morehead State University

Kinesiology & Exercise Science

Fri 5:00pm-5:20pm
Comparability of a weightlifting accelerometer to an infrared photocell timing system during repeated 1kg drop trials
William Castor; Salisbury University

Fri 5:20pm-5:40pm
Comparability of a weightlifting accelerometer to an infrared timing system during bench press exercise performed with different concentric muscle actions
Patrick Ferrara; Salisbury University

Business/Finance/Accounting

Fri 5:00pm-5:20pm
Optimizing Shelf-Space Allocation at a Retailer
Corey Lewis; Capital University

Fri 5:20pm-5:40pm
The Outdated Grocery Shopping System and Solution to Current Consumer Demands
Beth Portesi; Sierra Nevada College

Fri 5:40pm-6:00pm
University Park: An Opportunity to Link Town and Gown
Taylor McCreery, Taylor Clark; University of Hartford
Oral Session 8

Patterson Office Tower 113
Management
Fri 5:00pm-5:20pm
Exploring Nonprofit Managers’ Response to Budgetary Constraints During the Great Recession
Clary Lamberton; University of North Carolina, Asheville
Fri 5:20pm-5:40pm
Strategic Analysis of the Confucius Institute of New England
JIA WU, Zhenqing Wu, Fang Ji; Bridgewater State University
Fri 5:40pm-6:00pm
Students’ Perception of Key Performance Indicators for Peer Assessment in Group Work
Alexy Luecke; Hamline University

Patterson Office Tower 145
International Studies
Fri 5:00pm-5:20pm
The Impact of Third Party Mediation on the Sustainability of Peace After Internal Conflicts
Casey Boland; University of Rochester
Fri 5:20pm-5:40pm
Risky Business: a panel study of the effect of government economic policies on FDI in post conflict countries
Samantha Garst; Roanoke College
Fri 5:40pm-6:00pm
The Effects of Ethnic Saliency on Post-Conflict Democratization: A Comparative Analysis of Bosnia-Herzegovina, El Salvador and Afghanistan
Connor Diesing; Virginia Military Institute

Patterson Office Tower 003
Political Science
Fri 5:00pm-5:20pm
A Mixed Methods Analysis of the Social Effects Resulting from the Illegalization of Cannabis Using the Utilitarian, Capitalist and Group Conflict Theories
Darius West; Howard University

Interdisciplinary Studies
Fri 5:20pm-5:40pm
Drug Dosage – Ensuring a High Level of Effectiveness through Applications of Loading Doses
D’von Jackson; Fisk University
Political Science
Fri 5:40pm-6:00pm
David Clark; Truman State University

Patterson Office Tower 005
Psychology
Fri 5:00pm-5:20pm
The Effects of Repetitive Transcranical Magnetic Stimulation on Major Depression Disorder
Qinpu He; Centre College
Fri 5:20pm-5:40pm
Replenishing Mental Energy for Pain Management
John Notorgiacomo; Thomas More College
Fri 5:40pm-6:00pm
Distinguishing the Meditative Benefits of Drawing Within and Without Borders on Acute Stress Levels
Kaitlin Schneider; Black Hills State University

Economics
Fri 5:00pm-5:20pm
The Economic Impact of Home Weatherization in Reading, Pennsylvania
Darielle Christman, Shangqin Chen; Franklin and Marshall College

History
Fri 5:20pm-5:40pm
Revolution in the Heartland: White Guilt and Ideological Superiority in the Weather Underground
Taylor Williams; Hendrix College
Oral Session 8

Literature
Fri 5:40pm-6:00pm
Weather as Science and Literature
Sarah Fingerle; Valparaiso University

Patterson Office Tower 009
Biology
Fri 5:00pm-5:20pm
An immunotherapy against human tumor cells using viral RNA.
Ellen Dore; University of Alaska Anchorage

Fri 5:20pm-5:40pm
Potential Environmental Causes for Central Appalachia's Thyroid Hotspot
Maddison Couch; University of Virginia's College at Wise

Fri 5:40pm-6:00pm
Investigation of the Genetic Links between Hippo Signaling Pathway and Drosophila C-terminal Src Kinase (d-Csk)
Hailey Kwon; University of Dayton

Singletary Center - President's Room
Theatre/Drama
Fri 5:00pm-5:20pm
Gender Performance in Aeschylus' Persians and its Effects on Chorus- Character Interactions
Amanda Wood; Gustavus Adolphus College

Fri 5:20pm-5:40pm
I Am My Own Wife: Research for the Actor
Matthew McDougal; Keene State College

Fri 5:40pm-6:00pm
"Late Seventies, Southern California, Punk-Rock Kid": Queer Places, Counterpublics, and Tim Miller's Spilt Milk
Colin Loeffler; North Central College

Student Center - Center Theatre
Music Research and/or Analysis
Fri 5:00pm-5:20pm
Sarah Tomlinson; Michigan State University

Fri 5:40pm-6:00pm
The Question of Major and Minor
Dylan Woodring; Capital University

White Hall Classroom Building 102
Psychology
Fri 5:00pm-5:20pm
Evolutionary Influences on the Face-in-the-Crowd Effect: Interactions Between Race and Emotion
Priyanka Shrestha; Berea College

Fri 5:20pm-5:40pm
The Influence of Anxiety on Verbal Memory in Multiracial and Monoracial Students
Thandi Lyew; Florida International University

White Hall Classroom Building 110
Architecture & Interior Design
Fri 5:00pm-5:20pm
Mediating Self-identity
Abida Bibi; University of Wisconsin, Milwaukee

Psychology
Fri 5:20pm-5:40pm
Acoustic Features of Cultural Attitude in Koreans and Non-Koreans
In Hyuk Hwang; Hope College

Fri 5:40pm-6:00pm
Effectiveness of "Global to Local” Program on Cultural Self-Awareness
Victoria Rehr; Juniata College
Oral Session 8

White Hall Classroom Building 114

Political Science

Fri 5:00pm-5:20pm
A Comprehensive Study of the Ethiopian Commodity Exchange
Alex Stoffregen; University of Wisconsin, La Crosse

Fri 5:20pm-5:40pm
The Unreached Consensus: The Effects of Corruption on Economic Growth in Advanced, Transitional, and Least Developed Economies
Elena Shulgina; University of Kentucky

Fri 5:40pm-6:00pm
The DPRK’s "Military First Policy" and Its Impact on the North Korean leaderships’ Pursuit of the Chinese "Open-Door” Economic Reforms
Cho Yeon Kim; Macaulay Honors College - Baruch

White Hall Classroom Building 122

Psychology

Fri 5:00pm-5:20pm
The Effects of Religious/Cultural Ideologies and Experiences on Attraction and Comfort Level in Cross-sex Interactions
Mindy Schaper; University of Memphis

Fri 5:20pm-5:40pm
PERCEPTION OF RELIGIOUS DISCRIMINATION IN JUDGMENTS OF LAW ENFORCEMENT BEHAVIOR
Danielle Siebert; University of Kansas School

Fri 5:40pm-6:00pm
Constructing Spiritual Mattering: A Validation Study
Avia Gray; Abilene Christian University

White Hall Classroom Building 201

Art History

Fri 5:00pm-5:20pm
In the Mouth of the Monster: a Study of Ancient Maya Architecture and its Relationship to the Cosmos
Rosemarie Bermudez; University of Wisconsin- River Falls

Fri 5:20pm-5:40pm
Illuminated Manuscripts of the Golden Age
Margot Willis; John Brown University

Fri 5:40pm-6:00pm
Joaquin Torres-Garcia: Going beyond the Grid
Laura de Socarras-Novoa; Saint Louis University

White Hall Classroom Building 203

Women and Gender Studies

Fri 5:00pm-5:20pm
Disembodied Objects: Japanese Tentacle Erotica and the Genderless Construction of Genitalia
Dylan Hallingstad O’Brien; Hamline University, St. Paul

Fri 5:20pm-5:40pm
Legislating Lust: A Comparative Legal Analysis of Prostitution Policies in Central and Eastern Europe
Bethany Murray; Gustavus Adolphus College

Fri 5:40pm-6:00pm
Reproductive and Sexual Health Disparities Among US College-aged Black Women: An Examination of Perceptions and Consequences
Omolayo Ogunnowo; Minnesota State University, Mankato

White Hall Classroom Building 204

Interdisciplinary Studies

Fri 5:00pm-5:20pm
Human Rights Norm Change: LGBT Rights in an Enlarged Europe
Ashley Fowler; Elon University

Fri 5:20pm-5:40pm
Behind Closet Doors: The Early Foundations of the Queer Rights Movement
Hailey Jures; Occidental College-

Fri 5:40pm-6:00pm
Freaks, Fags, and Ferocious Feminists
Jake-Ryan Kent; University of Wisconsin- River Falls
White Hall Classroom Building 205

Cell & Molecular Biology

Fri 5:00pm-5:20pm  
MOLECULAR FORENSICS OF HUMAN BLOOD ISOLATED FROM BED BUGS  
Jennifer Raffaele, Brittany McCarthy; James Madison University

Fri 5:20pm-5:40pm  
Suppression of Lymphangiogenesis Using VEGF-C Trap  
Ryan Watkins; University of Utah

Fri 5:40pm-6:00pm  
The Anti-angiogenic and Anti-proliferative Effects of Falcarindiol  
Whitney Stibb; Wisconsin Lutheran College

White Hall Classroom Building 207

Philosophy & Ethics

Fri 5:00pm-5:20pm  
Instrumentalism in Epistemology and Education  
Brolin Graham; Eastern Washington University

Fri 5:20pm-5:40pm  
The Presocratic Roots of the Doctrine of Divine Immutability  
Dennis Calkins, Jacob Larson; Hamline University

Fri 5:40pm-6:00pm  
The Scientific Outlook  
Evan Haynes; University of the Pacific

White Hall Classroom Building 208

Education

Fri 5:00pm-5:20pm  
Exploring the Possibilities: Using iPads to Enhance Teaching and Learning  
Kaleigh Kennedy, Cassandra Carter, Olivia Wardle, Alexandra Lee, Edrick Hamilton, Nikki Erdely, Alanna Rowan, Victoria Cann; Jacksonville University

Fri 5:20pm-5:40pm  
Benefits of iPads Being Used As Assistive Technology For Students On The Autism Spectrum  
Barbara Livingston; Dominican University of California

Fri 5:40pm-6:00pm  
Teaching Through Video Games  
Jenna Peet; Brooklyn College

White Hall Classroom Building 209

International Studies

Fri 5:00pm-5:20pm  
Attracting Foreign Direct Investment in the Central Asian Republics: A Lesson in Investing Dangerously  
Sagatom Saha; American University

Fri 5:20pm-5:40pm  
Official Development Assistance and Foreign Direct Investment and their Effects on Democratization and Governance  
Daniel Durbin; Hendrix College

Fri 5:40pm-6:00pm  
HOW DOES FOREIGN DIRECT INVESTMENT INTO RESOURCE EXTRACTING INDUSTRIES AFFECT THE ENVIRONMENTAL WELFARE OF THE DEVELOPING WORLD?  
Timothy Cywinski; Roanoke College

White Hall Classroom Building 211

Microbiology & Immunology

Fri 5:00pm-5:20pm  
The Role of Physical Interaction Between Allergenic Fungi and Human Airway Epithelial Cells in Activation of the Innate Immune Response  
Kristina Marinak, Sergio Rodriguez; Randolph College

Fri 5:20pm-5:40pm  
AhR as an Immunoregulator  
Erica Miller; Virginia Commonwealth University
Fri 5:40pm-6:00pm
Transgenic Expression of CXCR3 Worsens the Already Inadequate Th2-Type Immune Response to Leishmania major Parasites
James Stock; Ohio State University

White Hall Classroom Building 212

English

Fri 5:00pm-5:20pm
“The New Pyrrhus: Hamlet, the Players, and Acts of Compromise”
Tyler Brooks; Winthrop University

Fri 5:20pm-5:40pm
Feste of Twelfth Night: Shakespeare’s Indispensable “Corrupter of Words”
Leah Rhodes; Western Carolina University

Fri 5:40pm-6:00pm
Hamlet, Luther, and the Protestant Hero
Matthew Higdon; Winthrop University

White Hall Classroom Building 213

African American Studies

Fri 5:00pm-5:20pm
A Qualitative Analysis of the Prospect of Achieving Peace and Equality in America through Acts of Nonviolence: The 50th Anniversary of the March on Washington as Evidence
Loren Parker; Howard University

Fri 5:20pm-5:40pm
Gentrification in the Black Metropolis of Washington, DC: A Triangulative Analysis Using the Independent versus Dependent Communities Theory
Candace Broughton; Howard University

Fri 5:40pm-6:00pm
Race in American Politics: A Qualitative Analysis of Why African American Politicians Use Deracialization as an Election Strategy
Cymill Jarrett-Thorpe; Howard University

White Hall Classroom Building 214

History

Fri 5:00pm-5:20pm
Pirate Gold and Sailor Gain: Property and Ownership among Pirates, Privateers and Sailors during the Golden Age of Piracy
Allyson Ropp; University of North Carolina, Asheville

Fri 5:20pm-5:40pm
Across the Middle Passage: Cultural Retention through African Naming Practices in Seventeenth-Century Barbados
Johanna Obenda; University of Alabama

Fri 5:40pm-6:00pm
The Co-hong and the Company: An Analysis of Quasi-Governmental Relations in Eighteenth Century Canton
Nicholas Drake; Hendrix College

White Hall Classroom Building 215

Marketing

Fri 5:00pm-5:20pm
Social Media’s Influence on the Motivations of College Students to Volunteer
Mallory Mitchell; University of Montevallo

Fri 5:20pm-5:40pm
Consumer Behavior Implications Regarding Non-Profit Organizations
Zachary Heckscher, Alyssa Giacomucci, Silke Bechtel, Christopher O’Farrill, Andrew Herman; West Chester University

Fri 5:40pm-6:00pm
CCFB
Julia Drake, Julia Drake, Matt Delio, Tyler Wallace, Dan Tirney; West Chester University

White Hall Classroom Building 217

Engineering/Engineering Technology

Fri 5:00pm-5:20pm
Automotive Generated Thermal Exhaust Waste to Electrical Power Conversion
Adam Kocienski; Norwich University
Fri 5:20pm-5:40pm
Electromagnetic Clutch
Korey Whitaker, Chad Wasson, Tashon Brown; Norwich University

Fri 5:40pm-6:00pm
Heat Transfer Manipulation of Friction Based Vehicle Braking Systems
Lukas Vaznonis, Adam Thomas, Jason West; Metropolitan State University of Denver

White Hall Classroom Building 219

Sociology

Fri 5:00pm-5:20pm
How does online gaming affect adolescents’ social behaviors?
Hien Dang; Virginia Commonwealth University

Fri 5:20pm-5:40pm
No Girls Allowed: How Female Gender Performance is Restricted in World of Warcraft
Karissa Mehr; Concordia College, Moorhead MN

Fri 5:40pm-6:00pm
Online Dating and American Culture: Economy, Serendipity, and Self-Construction in Memoirs of Internet-Mediated Courtship
Andrew Anguiano; San Jose State University

White Hall Classroom Building 231

History

Fri 5:00pm-5:20pm
William Thompson; Virginia Military Institute

Fri 5:20pm-5:40pm
Chinese Women’s Urban Employment and its Relationship with the Media in the Reform Period
Chelsea Miller; Wayne State University

Fri 5:40pm-6:00pm
Manzhouguo’s Forgotten Collaborators, 1932-1945
Jennifer Imber; Hendrix College

White Hall Classroom Building 233

Education

Fri 5:00pm-5:20pm
Examining the Implementation Process Related to the Use of E-text/Course Content in Business School Classrooms
Shadlan Gale, Ashley Jefferies; Utah Valley University

Fri 5:20pm-5:40pm
Interdisciplinary Research and Writing to Create Textbooks: Tablet Technology for Elementary Social Studies
Scott May, Adam Shigley, Heidi Noneman; Ball State University

Fri 5:40pm-6:00pm
The Application of Universal Design for Learning (UDL) in an Early Literacy Study
Laura Geiman; Morehead State University

White Hall Classroom Building 234

Political Science

Fri 5:00pm-5:20pm
Human Dignity and Involuntary Sterilization: How Changing Conceptions of Reproductive Justice affected the Reformation of Involuntary Sterilization Law
Benjaman Ault; Hendrix College

Fri 5:20pm-5:40pm
Reproductive Rights and Development: Effectively Using Male and Cultural Perspectives
Alyssa Scott; Carthage College

Fri 5:40pm-6:00pm
Investing in the Empowered: Women’s Attainment of Human Rights Attracting Foreign Direct Investment
Jeremy Williams; Hendrix College

White Hall Classroom Building 235

Literature

Fri 5:00pm-5:20pm
Bridget Jones and Hannah Payne: the Nineteenth Century Heroine Remade
Anna Falardeau; Anderson College
Oral Session 8

Fri 5:20pm-5:40pm
Power is Power: Women and George R. R. Martin’s A Song of Ice and Fire
Kerishma Panigrahi; Macaulay Honors College at Hunter College, CUNY

Fri 5:40pm-6:00pm
Undressing Little Red Riding-Hood: Female Sexual Power in Angela Carter’s “The Company of Wolves”
Christian Rogers; Western Carolina University

White Hall Classroom Building 237

Philosophy & Ethics
Fri 5:00pm-5:20pm
Harmony and Justice from Within: The Good Life
Tiffany VonVitzthume; Western Carolina University

Fri 5:20pm-5:40pm
Natural Harmony: A Moral Imperative
Jessica Strasen; Dominican University of California

Fri 5:40pm-6:00pm
Moral Creation: Aesthetic Aspects of Existential Ethics
Lucas Dolan; Hamline University

White Hall Classroom Building 238

Biology
Fri 5:00pm-5:20pm
Individuality in Canyon Wren Birdsong
Kelsey Eickelman; University of Northern Colorado

Fri 5:20pm-5:40pm
How does continuity and versatility vary in mockingbird song based on marital status and breeding stage?
Helen Wright; Elon University

Fri 5:40pm-6:00pm
The effects of noise from gas extraction sites on the songs and density of breeding bird populations.
Maiya Block; Hendrix College

White Hall Classroom Building 239

Physics
Fri 5:00pm-5:20pm
Exploring the Collective Properties of 160Gd through the (n,n′γ) reaction.
Zachary Tully; University of Wisconsin, La Crosse

Fri 5:20pm-5:40pm
Silicon Photomultiplier Testing for the Class 12 Hodoscope and G-2 Calorimeter Detectors
Edwin Dunnavan; James Madison University

Fri 5:40pm-6:00pm
Optimization of the Static First Hyperpolarizibility of Many Non-Interacting Fermions in One Dimension
Edwin Bernardoni; Case Western Reserve University

White Hall Classroom Building 240

Neuroscience
Fri 5:00pm-5:20pm
Environmental Enrichment Promotes Adaptation to Rearrangement of the Environment in Young Rats
Dana Cobb; Appalachian State University

Fri 5:20pm-5:40pm
Optogenetics in Alzheimer’s disease: activation of PP-2A in protein tau hyperphosphorylation
Ellen Korcovelos; Virginia Commonwealth University

Fri 5:40pm-6:00pm
Enhanced Assay for Monitoring Age-Dependent Dopaminergic Neuronal Loss in a Fly Model of Parkinson’s Disease
Aditya Srivatsan; Stanford University

White Hall Classroom Building 241

Chemistry
Fri 5:00pm-5:20pm
The Determination of 2, 4, 6-Trichloroanisole using picoSpin NMR
Derek McCoy; Siena Heights University
Fri 5:20pm-5:40pm
The Effects of Various Components on Bacterial Growth in Artificial Urine
Rida Khan; University of Houston

Fri 5:40pm-6:00pm
The Impact of Cellular Crowding on the Kinetics of the Ascorbate Reduction of the Ferrioxamine B and Bipyridine Ternary Complex
Evan Samples; Radford University

White Hall Classroom Building 242
Nursing
Fri 5:00pm-5:20pm
Hispanic Women's Adherence to U.S. Providers' Recommendations
Maritza Contreras; Marquette University

Fri 5:20pm-5:40pm
Food cost may be an incentive to healthy eating in Kentucky counties
Anthony Carney; University of Kentucky

Fri 5:40pm-6:00pm
Compassion Fatigue in Rural Midwestern Nurses
Joshua Heinzen; Gustavus Adolphus College

White Hall Classroom Building 243
Interdisciplinary Studies
Fri 5:00pm-5:20pm
The Economic Violation of Sovereignty: A Triangulative Analysis of the International Repercussions of the United States’ Subsidization of Agribusiness Using the Capitalist and Social Contract Theories
Jack Solano; Howard University

International Studies
Fri 5:20pm-5:40pm
Conceptualizing the Paradox Surrounding the Commodification of Quinoa in the Andes
Bailey McWilliams; Wheaton College - Massachusetts

Fri 5:40pm-6:00pm
America, Real or Perceived Superpower?: A Qualitative Analysis of US Interventionism Using the Power and Coercion Paradigm
Shanique Campbell; Howard University

White Hall Classroom Building 244
Linguistics & World Languages
Fri 5:00pm-5:20pm
"We're Not Stupid Y'all: Disproving the Misconception of Southern Stupidity and the False Connection Between Dialect and Intellect.”
Lauren Clark; Winthrop University

Fri 5:20pm-5:40pm
China, America, and Chinglish
Amy Lee; Virginia Commonwealth University

Fri 5:40pm-6:00pm
Can You Escape Miasma?
Kimberly Hughes; Marshall University

White Hall Classroom Building 245
Biology
Fri 5:00pm-5:20pm
Life History of the Umatilla dace (Rhinichthys umatilla) in the Colville River, Stevens County, Washington
Bryan Witte; Eastern Washington University

Fri 5:20pm-5:40pm
Invasive Brook Stickleback on Turnbull National Wildlife Refuge and their Impact on other Species
Jessica Walston; Eastern Washington University

Fri 5:40pm-6:00pm
Diet, age and growth of brown trout, Salmo trutta, in the Colville River watershed
Jenna Hatem; Eastern Washington University
**Oral Session 8**

**White Hall Classroom Building 246**

**Religious Studies**

Fri 5:00pm-5:20pm  
_Evil's Mockery: Morality and Marring in the Mind of Tolkien_  
Michael Thames; Western Carolina University

Fri 5:20pm-5:40pm  
_The Evolution of Satan._  
Hanan Huneidi; Dominican University of California

Fri 5:40pm-6:00pm  
_Absolved from Evil: Theodicy in the Jewish Tradition_  
Sarah Cohen; Winthrop University

**White Hall Classroom Building 247**

**Economics**

Fri 5:00pm-5:20pm  
_Is It The Economy Or The Institutions Themselves? A Case Study For Determining The Factors That Contribute To Rising Tuition Rates at Private Colleges And Universities in Texas_  
Michael Ijeh, Joshua Neel; Texas Tech University

Fri 5:20pm-5:40pm  
_Rising Above the Deficit: Reform and Developing Student Loan Management Strategies_  
Mikelya Gilyard; Albany State University

Fri 5:40pm-6:00pm  
_Educational attainment and income among Wisconsin Native American tribes_  
Elliot Charette Charette; University of Wisconsin, Superior

**White Hall Classroom Building 247**

**Ecology & Organismal Biology**

Fri 5:00pm-5:20pm  
_Recovery of Forest Diversity After Removal of Invasive Euonymus fortunei_  
Kali Mattingly; Transylvania University

Fri 5:20pm-5:40pm  
_Examining the influence of disturbance on the relative success of sexual and clonal recruitment of Japanese Knotweed_  
Chelsea Gowton; Susquehanna University

Fri 5:40pm-6:00pm  
_Flowering Phenology of Echinacea angustifolia in Minnesota Tallgrass Prairie Remnants Over Three Years_  
Sarah Baker; St. Catherine University, St. Paul

**White Hall Classroom Building 306**

**English**

Fri 5:00pm-5:20pm  
_Shaping and Struggling: Feminine Agency in Pre-Christian Scandinavia_  
Adam Carl; Ohio State University

Fri 5:20pm-5:40pm  
_Battle-Wolf_  
Zacrey Hansen; Utah Valley University

Fri 5:40pm-6:00pm  
_Ravenous Wolves: Premonition, Resonance, and the Animal-Human Continuum in Blood Meridian_  
Katharyn Makaroff; Cerritos College

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Oral Session 8

White Hall Classroom Building 331

English

Fri 5:00pm-5:20pm
The History and Scandal of Ireland’s Magdalene Asylums: A Historical and Literary Review
David Twombly, John Condry, Paige Kelliher, Sean Clifford; Bridgewater State University

Fri 5:20pm-5:40pm
Between “Tartan” and “Noir:” Investigating Identity and Nation in Scottish Detective Fiction
Kelsey Roebuck; Grinnell College

Fri 5:40pm-6:00pm
Burns the Man, Burns the Poet: Critical Studies and Receptions of Scotland’s National Bard
Nicholas Hall; Wheaton College - Massachusetts

White Hall Classroom Building 333

Communications

Fri 5:00pm-5:20pm
A Widening Digital Divide: Infrastructure and Governmental Control in an Age of Expanding Internet Use
Joseph Bruno; Elon University

Fri 5:20pm-5:40pm
Moscow Gets the Cold Shoulder: Framing of the 1980 Olympic Boycott in U.S., Soviet and British Media
Michelle Alfini; Elon University

Fri 5:40pm-6:00pm
Organizational Values in Crisis Communication: Exploring the Use of Corporate Codes of Values in Public Responses to Crises
Baron Smith; Elon University

White Hall Classroom Building 334

Education

Fri 5:00pm-5:20pm
Science Fiction and the Gothic; Experience and Imagination to Promote Meaningful Learning
Sarah Hubbard; John Brown University

Fri 5:20pm-5:40pm
The Importance of the Storyteller
Kim Griffin; University of North Georgia

Fri 5:40pm-6:00pm
Accuracy of Historical Content in Children’s Literature
Valerie Metz; Eastern Illinois University

White Hall Classroom Building 335

Anthropology & Archeology

Fri 5:00pm-5:20pm
GIS Analysis of Social and Spatial Interactions of Australian Aboriginal Peoples in NW Northern Territory, Australia Before and After European Contact
Yolona Ngandali; University of Wisconsin, La Crosse

Fri 5:20pm-5:40pm
How to Define Genocide
Rhiannon Hansing; Albright College

Fri 5:40pm-6:00pm
Humanizing Prisoner Rights
Chelcee Carter, Kathryn Anderson; University of Kentucky

White Hall Classroom Building 336

History

Fri 5:00pm-5:20pm
Their Only Chance at Happiness: Religion as a Factor in the Assimilation of Jewish Refugee Children from the Kindertransport in Great Britain
Kelly Timmerman; University of Wisconsin, La Crosse

Fri 5:20pm-5:40pm
To Fight and Die as Lions: Jewish Resistance in Warsaw, Treblinka and Vilna
David Lincoln; Elon University

Fri 5:40pm-6:00pm
British-Jewish Volunteers in the Spanish Civil War
Danielle Fontaine; Lafayette College
## Oral Session 8

### White Hall Classroom Building 337

**Chemistry**

**Fri 5:00pm-5:20pm**  
A Multi-step Synthesis of the Lactone 3,6-dihydro-2H-pyran-2-one  
Bradley Cundiff; Georgetown College

**Fri 5:20pm-5:40pm**  
Isolation and characterization of bioactive pseudoguaianolides from Helenium flexuosum seeds  
Gyungyoun Baek; University of Minnesota, Crookston

**Fri 5:40pm-6:00pm**  
CH3CHFCH2Cl and CF3CHFCH2Cl: an examination of the effect of an electron-donating and electron-withdrawing substituent on the CH2FCH2Cl analogue  
Corey McClintock; University of North Carolina, Asheville

### White Hall Classroom Building 338

**Art History**

**Fri 5:00pm-5:20pm**  
The Male Venus in Art History: Emulating the Trope of the Goddess of Love and Sexuality  
Kevin Whiteneir; Ripon College

**Fri 5:20pm-5:40pm**  
The Greek Male Nude in Art: Heroic Herakles and Ephebic Apollo  
Lauren Harding; Utah Valley University

**Fri 5:40pm-6:00pm**  
Michelangelo, Nicodemism and The Florence Pietà  
Taylor Conrad; Rhodes College

### White Hall Classroom Building 339

**Communications**

**Fri 5:00pm-5:20pm**  
How to Communicate with a Foreigner When Doing Group Work in College  
Peiqing Chen; University of Wisconsin, La Crosse

**Fri 5:20pm-5:40pm**  
Overcoming Communication Apprehension for Future Pharmacists  
Dale Dong; University of the Pacific

**Fri 5:40pm-6:00pm**  
Pell grant recipient fears financial pain in face of government shutdown  
David Thackham; Winthrop University

### White Hall Classroom Building 340

**Literature**

**Fri 5:00pm-5:20pm**  
V for Vendetta: The Clash of Extremes and Who They Create  
Allison Kim; Mercer University

**Fri 5:20pm-5:40pm**  
Using New Historicism to Critique Cultural Oppression and Discrimination in the Harry Potter Novel Series  
Sarah Lechner; University of Wisconsin, La Crosse

**Fri 5:40pm-6:00pm**  
The Three Sisters: Bringing New Light to the Deathly Hallows  
Lindsey Monroe; Winthrop University

### White Hall Classroom Building 341

**Anthropology & Archaeology**

**Fri 5:00pm-5:20pm**  
Religiosity and Attitudes Towards Cosmetic Surgery among Latter-day Saint Women  
Danielle Jennings; Utah Valley University

**Fri 5:20pm-5:40pm**  
The Search for Women in Archaeological Site Records  
Kristina Hill; Eastern Washington University

**Fri 5:40pm-6:00pm**  
Cassandra Newcomb; Salisbury University
Oral Session 8

White Hall Classroom Building 342

English

Fri 5:00pm-5:20pm
Moral Crossroads of World War I: Examining Shell Shock in Both Literature and News
Caitlin Bean; Hood College

Fri 5:20pm-5:40pm
Reading William Osbourne, Writing Denis O'Connell
Denis O'Connell; Bridgewater State University

Fri 5:40pm-6:00pm
Realization of the Castration Anxiety: Psychoanalysis of The Sun Also Rises
Aaron Cole; Western Carolina University

White Hall Classroom Building 343

Environmental Studies & Sciences

Fri 5:00pm-5:20pm
Atmospheric Characterization on a Regional and Local Scale from Radiosonde and Surface Meteorological Measurements
Ian Krintz; Appalachian State University

Fri 5:20pm-5:40pm
Land Use Implications on Rural Community Resilience, National Security, and Climate Change in Brazil
Maximilian Stiefel; University of Utah

Fri 5:40pm-6:00pm
Payment for Ecosystem Services for Carbon Sequestration in Haiti: Climate Action and Cross Cultural Partnerships for Resiliency, Adaptation, Research, and Education
Linnea Carver; Sewanee

White Hall Classroom Building 346

Communications

Fri 5:00pm-5:20pm
Road to Glory: Representation, Race, and the 1966 NCAA Basketball Championship
James Wittenborg; Saint John's University

Fri 5:20pm-5:40pm
The Glass Ceiling and Gender Bias in the Media
Kelsey Zenna; Albright College

Fri 5:40pm-6:00pm
The Readability of Fantasy Sports Journalism
William Loveland; Ithaca College

White Hall Classroom Building 347

Mathematics

Fri 5:00pm-5:20pm
Timetabling Using Graph Coloring and Artificial Intelligence
Jordan Rickman; Rollins College

Fri 5:20pm-5:40pm
Optimal allocation of employee resources to meet staffing demands
Kane Mach, Eli Towle; University of Wisconsin, Stevens Point

Fri 5:40pm-6:00pm
Effectiveness of Course Offerings Using the Suurballe Algorithm
Margaret Wieczorek; North Central College
White Hall Classroom Building 349

Business/Finance/Accounting

Fri 5:00pm-5:20pm
The impact of Glass-Steagall and its repeal on the Financial System during the past two decades
XINJIAO ZHAI; Fordham University

Fri 5:20pm-5:40pm
Exploring the Economic Value of Communist Party Membership
Ran Wang; Union College

Fri 5:40pm-6:00pm
Get in or Get out: Does financial liberalization of banking sector have impact on China’s economic growth?
Licheng Yin; Saint John’s University

SESSIO N 9

Fine Arts Building 106

Religious Studies

Sat 9:00am-9:20am
Critical Analysis of Neo-Pagan Ritual and Identity
Elliott Skaggs; Appalachian State University

Sat 9:20am-9:40am
Storytelling and Story-listening as an Effective Response to the Problem of Evil
Carolyn May; Capital University

Sat 9:40am-10:00am
An Examination of the Political and Religious Reasons for Anti-Semitism in Early Christian Documents
Anthony Nuccio; North Central College

Fine Arts Building 17

English

Sat 9:00am-9:20am
Irony and the Insecurity of Puritan America in The Holder of the World
Simon Harris; University of the Pacific

Sat 9:20am-9:40am
Re-imagining Boundaries: Travel Writing, Knowledge Production, and Empire in Bharati Mukherjee’s The Holder of the World
Adnan Hashtam; University of the Pacific

Sat 9:40am-10:00am
The Development of Twentieth Century Female Education in Kiran Desai’s The Inheritance of Loss
Ambreen Hooda; Trinity University

Fine Arts Building 002

Music Research and/or Analysis

Sat 9:00am-9:20am
Collaborative Composition: A (Non)Musical Perspective of the Creative Process
Ford Fourqurean; Columbus State University
Sat 9:20am-9:40am
Control Freak: The Battle for Musical Control Between the Original Composer and the Improvising Performer: The History of Improvisation and Embellishment
Simon Yeh; Cedarville University
Fine Arts Building 208

Sat 9:00am-9:20am
The Burning and Rebuilding of St. Xavier Church: Understanding Catholic-Protestant Relations
Charles Rosebrough; Xavier University
History

Sat 9:20am-9:40am
Turkey and Israel: The Ten Good Years
Ayala Lieberman; Brooklyn College

Sat 9:40am-10:00am
Understanding Zionism by Uncovering its Origins
Tyler Weisman; Randolph Macon College

Fine Arts Building 004
Music Research and/or Analysis

Sat 9:00am-9:20am
Low Latency Audio Video: Potentials for Collaborative Playing Through Distance Learning
Holly Riley; University of North Carolina, Greensboro

Sat 9:20am-9:40am
Teaching Tonewoods and Transforming Values: How we can ensure music as we know it is sustainable
Calla Olson; Luther College

Sat 9:40am-10:00am
Counterpoint Through the Ages
Kevin McCall; Western State College
Fine Arts Building 006

Economics

Sat 9:00am-9:20am
Agent-Based Modeling of Capacity Constrained Oligopoly
Yue Yin; Lafayette College

Sat 9:20am-9:40am
Impacts of Macroeconomic Factors on Industries’ Equity Returns
Yen Tran; Morehead State University

Sat 9:40am-10:00am
Multi-metric Indicator Use in Social Preference Elicitation and Valuation
Patrick Fogarty; University of Wisconsin, Whitewater

Lucille Caudill Little Fine Arts Library 301

English

Sat 9:00am-9:20am
Drowning Capitalism: The Aquatic Redemption of the Rabbitte Family in Roddy Doyle’s The Barrytown Trilogy
Ashley Miller; Valdosta State University

Sat 9:20am-9:40am
Infinite Self-Consciousness: The Life and Work of David Foster Wallace
Colby Minifie; Macaulay Honors College - Hunter

Sat 9:40am-10:00am
Travel Memoirs: Catering to a Unique Kind of Dreamer
Laura Epps; Anderson College

Lucille Caudill Little Fine Arts Library 302

Sat 9:00am-9:20am
The Role of Genre Cues in Naturalizing Sherwood Anderson’s Winesburg, Ohio
Matt Sluder; Truman State University

Sat 9:20am-9:40am
“Reasoning with Paradox, Contradiction, & the Second Earl of Rochester”
Alexandria Hughes; University of Wisconsin, La Crosse

Sat 9:40am-10:00am
Gabriele D’Annunzio and a New Italy
Joseph Lewis; Anderson College
Patterson Office Tower 107

Kinesiology & Exercise Science

Sat 9:00am-9:20am
Effect of multi-joint velocity-based training on the
development of explosive power in NCAA Division III hockey
players
Brendan Durkee; State University of New York, Brockport

Sat 9:20am-9:40am
Test-Retest Reliability of Tendo Weightlifting Analyzers With
Recreational and Explosive Contractions During Bench Press
Exercise
Edwin Miranda; Salisbury University

Sport Management

Sat 9:40am-10:00am
The Brand of Universities Through Athletics: Target
Marketing or Target Missing?
James Bradley, Caitlin Gerig, Nicholas Senti; Radford
University

Patterson Office Tower 108

Linguistics & World Languages

Sat 9:00am-9:20am
Language Maintenance and Shift Among the Polish
Community in Georgia
Simone Romuzga; Occidental College

Sat 9:20am-9:40am
This Isn't Your Grandma's Polish: Sex, Drugs, Hip-Hop and
the Influence of American English on Polish Slang
Michael Chruscici; Wayne State University

Sat 9:40am-10:00am
Heritage Language Maintenance
Gladys Gonzalez; University of Wisconsin, Milwaukee

Patterson Office Tower 110

Physics

Sat 9:00am-9:20am
The Effect of Impact Mechanics and Chest Protectors on
Commotio Cordis
Rebecca Megchelsen; Dordt College

Sat 9:20am-9:40am
Preparation of Lithium Niobate for Silver Nanowire Synthesis
by Mechanical Polishing
Aaron Mosey; University of North Carolina, Asheville

Sat 9:40am-10:00am
Utilization of noise in micro-electro-mechanical systems
Patrick Snyder; University of Illinois at Urbana-Champaign

Patterson Office Tower 112

Geography & Earth Sciences

Sat 9:00am-9:20am
Slum or Settlement? Rewriting the Narrative of Urban
Poverty, with a Focus on Community Organizing and
Autonomy in Oaxaca, Mexico
Evan Sweet; University of Kentucky

Sat 9:20am-9:40am
The Human Geography of Assateague Island
Thomas Green; Salisbury University

Sat 9:40am-10:00am
The Motivations and Impacts of Government Policy on Cross-
Border Dynamics: A Case Study of Costa Rica Border Regions
Gloriana Sojo Lara; The George Washington University

Patterson Office Tower 113

Microbiology & Immunology

Sat 9:00am-9:20am
Isolation and Characterization of Novel Bacillus
Bacteriophages
Jacob Jaminet, Akhil Garg; Virginia Commonwealth
University
Sat 9:20am-9:40am
CAPTURE AND DETECTION OF BACILLUS ANTHRACIS SPORES USING APTAMER BASED SURFACE ENHANCED RAMAN SPECTROSCOPY
Alyssa Pagel; University of Minnesota, Twin Cities

Sat 9:40am-10:00am
Deep UV Spectroscopy of The Mojave Desert
Veronica Margot Paez; East Los Angeles College

Patterson Office Tower 145

Political Science

Sat 9:00am-9:20am
The Supreme Court and the Politics of Language: Some Lessons from Public Debates about Same Sex Marriage and Gun Regulations
Connor Dye Dye, Penny Trieu; Randolph College

Sat 9:20am-9:40am
Gun Laws on Violent Crimes
Matthew Turner; Western Carolina University

Sat 9:40am-10:00am
In Defense of Marriage: How Young Liberals and Conservatives Debate About Proposition 8 and the Defense of Marriage Act on Facebook
Jamel Love, Dara Byrne; John Jay College of Criminal Justice

Patterson Office Tower 003

Diversity Studies

Sat 9:00am-9:20am
The Comedic Manifestations of Louis C.K. Hispanic Heritage
Arturo Desantiago; Texas Tech University

English

Sat 9:20am-9:40am
Sweet Little Lies: A look at the Bracero Program in U.S. Labor History and its Remnants
Laura Coyt; University of the Pacific

Sat 9:40am-10:00am
Insidious Absence and Loss in lê thi diem thuy’s The Gangster We are all Looking For
John Steiner; University of the Pacific

Patterson Office Tower 005

Dance

Sat 9:00am-9:20am
How We Move: An Integration of Dance and Biological Science
Liza Bustle; University of Kentucky

Computer Science

Sat 9:20am-9:40am
Identifying Phases of Gait in RGB-D Videos
Sam Gelman; George Mason University

Health Sciences & Public Health

Sat 9:40am-10:00am
Assessment of Gait With Zero Drop Shoes While Walking
Richard Roberts; Utah Valley University

Patterson Office Tower 007

Political Science

Sat 9:00am-9:20am
Identifying how the Definition of Terrorism Justifies their Use of Extended Surveillance on the American People while Analyzing the Constitutionality of their Justification
Iman Abid; Rochester Institute of Technology

Sat 9:20am-9:40am
Strengthening the Hull: Improving Philippine Counterterrorism and Counterinsurgency
Kristina Sherman; Susquehanna University

Sat 9:40am-10:00am
Can the United States Avoid Terrorism by Changing Its Foreign Policies?: An Analysis of Political Terrorism Utilizing the Liberalism Theory
Brittainy Joyner; Howard University
Oral Session 9

Patterson Office Tower 009
English

Sat 9:00am-9:20am
Seeing New Englandly: Reading and Writing Place Right in My Own Backyard
Kirsten Ridlen; Bridgewater State University

Sat 9:20am-9:40am
The Personified Environment in Jean Rhys’s Wide Sargasso Sea
Chelsea Bergmann; Winthrop University

Sat 9:40am-10:00am
Under the Greenwood Trees: The forests of medieval art and literature
Jennifer Wegmann-Gabb; Northern Illinois University

Singletary Center - President’s Room

Dance

Sat 9:00am-9:20am
Contact Improvisation Applied to Independent Concert Dancing
Jessie DeSalvia; State University of New York, Brockport

Sat 9:20am-9:40am
The Ballerina Portrayed
Katherine Delorme; State University of New York, Brockport

Sat 9:40am-10:00am
The Height of Dance: Duncan Style
Marissa Subik; State University of New York, Brockport

White Hall Classroom Building 102

Psychology

Sat 9:00am-9:20am
LSD-Assisted Motivational Enhancement Therapy for Alcohol-dependent Individuals
Kelly Grzech; Virginia Commonwealth University

Sat 9:20am-9:40am
Neutralizing bFGF (FGF2) in the infralimbic medial prefrontal cortex facilitates extinction of cocaine self-administration.
Carolynn Rafa Todd; University of Wisconsin, Milwaukee

Sat 9:40am-10:00am
The effectiveness of buprenorphine in treating opioid addiction
Skylee Campbell; Utah Valley University

White Hall Classroom Building 110

Psychology

Sat 9:00am-9:20am
Students versus Counselors: A cross-cultural investigation of prominent stressors and outreach programming from the perspective of Scottish undergraduates and university counselors.
Meghan Pickett; North Central College

Sat 9:20am-9:40am
A Bibliometric Analysis of School Psychology International: What is the Prevalence of International Affairs in the Field of School Psychology?
Kristen Paulsen, Katie Westermayer; Minnesota State University, Mankato

Sat 9:40am-10:00am
A is for App: Surveying Teachers About the Use of iPads/Tables in the Classroom
Christine Scheper; Minnesota State University, Mankato

White Hall Classroom Building 114

International Studies

Sat 9:00am-9:20am
Rebranding: Chinese Fashion in East Asian Politics
Loujing Pan; Lafayette College

Sat 9:20am-9:40am
Fabricating Conversation: How Business Interferes with Clothing Design
Channing Wan; Texas State University- San Marcos
Sat 9:40am-10:00am  
Japan’s Imaginary Obsession: How the Unreal Engendered a Subculture  
Rebecca Weiss; North Central College

White Hall Classroom Building 122  

Political Science

Sat 9:00am-9:20am  
Regulation, Enforcement, or Negligence: A Look into the Possible Causes of Continued Abuse Within the Bangladesh Apparel Sweatshop Industry  
Anne Marie Sketch; Hamline University

Sat 9:20am-9:40am  
Loopholes and Lust: A Case Study of Sex Trafficking in Japan  
Bethany Murray; Gustavus Adolphus College

Sat 9:40am-10:00am  
The Impact of Colonial Legacy on African Women: A Comparative Analysis of British and French Colonial Institutions  
Kaylee Gleason; Carthage College

White Hall Classroom Building 201  

Education

Sat 9:00am-9:20am  
Integrating Physical Activity and Movement into the Classroom  
Alyssa Mitchel; Dominican University of California

Sat 9:20am-9:40am  
The Use of Professional Noticing by Inservice Elementary Teachers  
Patricia Cummane, Rebecca Roark, Brittany Flanery; University of Kentucky

Sat 9:40am-10:00am  
A Qualitative Analysis of the Effects of Allowing Grade School Students to be Comfortable with Their First Language in School Settings  
Katrina Gilbert; Howard University

White Hall Classroom Building 203  

Health Sciences & Public Health

Sat 9:00am-9:20am  
Racial Differences in Breast Cancer Risk Factors and Biomarkers among Healthy Premenopausal Women  
Alexandra Hudson; University of Pittsburgh

Sat 9:20am-9:40am  
Perceived cognitive function and reproductive hormones in women receiving adjuvant hormonal therapy for early-stage breast cancer  
Ceara Conley; University of Pittsburgh School of Nursing

Sat 9:40am-10:00am  
Perceived Risk for Breast Cancer and Preventative Behavior among Women in Rural Appalachia  
Santana VanDyke; University of Virginia's College at Wise

White Hall Classroom Building 204  

Biology

Sat 9:00am-9:20am  
The Effect of Digestive Health on One’s Physical and Mental Health  
Elizabeth Darsan; Brooklyn College

Sat 9:20am-9:40am  
Analysis of weight and abdominal fat gain in mice due to a diet rich in glucose, fructose, maltose, or high fructose syrup.  
Nicole Morici; Wisconsin Lutheran College

Sat 9:40am-10:00am  
Histological Studies in a Mouse Model Pave the Way for the Treatment of Abdominal Aortic Aneurysms (AAA) in Humans  
Samuel Janes; University of Kentucky

White Hall Classroom Building 205  

Women and Gender Studies

Sat 9:00am-9:20am  
“Bad Gyals”, “One Minute Men” & Sexual Supremacy: Women-Rappers Both Appropriating & Resisting Sexism and Misogyny Within Hip Hop.  
Mekhatansh McGuire; University of Kentucky
Sat 9:20am-9:40am
You Are What You Drink: A Feminist Critique of Milk and its
Consequences for the Female
Tessa Cunningham; University of Wisconsin- River Falls

Sat 9:40am-10:00am
Emirati Women: Do they struggle between traditional beliefs
and modernization?
Mariam Al Marzouqi; Zayed University

White Hall Classroom Building 207

Cell & Molecular Biology

Sat 9:00am-9:20am
Identification of Retinal Degeneration Loci: Adhesion and
Phagocytosis
Arash Ghaffari-Rafi; University of California, Los Angeles

Sat 9:20am-9:40am
Weaning and adaptation of SH-SY5Y cells to low-glucose
media for manganese exposure studies
Hannah Smerker; Gannon University

Sat 9:40am-10:00am
Role of Forkhead transcription factors in endothelial-cardiac
myocyte co-cultures
Hannah Hadaway; Winthrop University

White Hall Classroom Building 208

Music Research and/or Analysis

Sat 9:00am-9:20am
Ancient Worship Wars: An Investigation of Conflict in
Church Music History
Michael Wood; Cedarville University

Sat 9:20am-9:40am
The Apostle Paul’s Letter to the Romans: An Application of
Critical Theory
Nick Covaleski; University of Wisconsin, La Crosse

Art History

Sat 9:40am-10:00am
Justification by Faith: A Comparative Study of the Developing
Concept of Grace in Select Paintings by Rembrandt of the
Apostle Paul
Rachel Thomas; Hendrix College

White Hall Classroom Building 209

Cell & Molecular Biology

Sat 9:00am-9:20am
Drug Screening for Heterochromatin Promoting Drugs in
Drosophila Melanogaster
Alejandro Chavez; University of California, San Diego

Sat 9:20am-9:40am
The Effects of the Msr Gene in the Drosophila melanogaster
When Exposed to an Elevated Thermal Induced Environment
Syed Raza; Florida Atlantic University

Sat 9:40am-10:00am
Discovering the Genetic Basis of Centrosome Reduction
Kasasha Arum; University of Toledo

White Hall Classroom Building 211

Marketing

Sat 9:00am-9:20am
Marketing Opera to Millennials
Kelsey Gulliver; John Brown University

Sat 9:20am-9:40am
Marketing Strategies: Generational Differences
Olivia Hottle; University of Northern Iowa

Sat 9:40am-10:00am
Marketing to the New Reality: The Rise of Hispanics in United
States and their presence in marketing
Cristina Cosme; Brooklyn College
White Hall Classroom Building 212

Education

Sat 9:00am-9:20am
A Yunnan Perspective: Gender and Rural Education Development in China
Caitlin Keliher; The George Washington University

Sat 9:20am-9:40am
Educational Challenges During and Post War In Uganda
Ashley Metelus; University of South Florida

Sat 9:40am-10:00am
Formative Assessment in the Republic of Ireland
Megan Cave; North Central College

White Hall Classroom Building 213

Ecology & Organismal Biology

Sat 9:00am-9:20am
Comparing two different fish sampling methods to evaluate fish communities of the Ottawa River, Lucas County, Ohio
James Moriarty; University of Toledo

Sat 9:20am-9:40am
Long-Term Responses of Brook Trout Populations to Catastrophic Flooding of Tropical Storm Lee
John Panas; Susquehanna University

Sat 9:40am-10:00am
Trophic Morphology of a Near Shore Marine Fish Family, Blenniidae.
James Weagley; University of Minnesota, Twin Cities

White Hall Classroom Building 214

English

Sat 9:00am-9:20am
Discordant Satanic Metaphors: Dante's Odd Comparisons of Satan in the Last Canto of the Inferno.
Lenora Popken; University of West Georgia

Sat 9:20am-9:40am
THE GENTLE POET: VIRGIL'S SADISTIC COUNSEL IN DANTE'S INFERNO
Andrew Barrow; University of West Georgia

Sat 9:40am-10:00am
The Tyranny of the Logos: Satan as Hero in Paradise Lost
Lee Borocz-Johnson; Elmhurst College

White Hall Classroom Building 215

Neuroscience

Sat 9:00am-9:20am
Effects of Depolarized Hyperpolarization-activated Cation Channels on the Secretions of Gonadotropin-releasing Hormone
Kelsey Cleland; Austin PEAY State University

Sat 9:20am-9:40am
Regulatory Mechanisms Underlying Stereotyped Axon Pruning in the Mammalian Visual System
Atrin Toussi; University of California, Davis

Sat 9:40am-10:00am
Intrauterine Growth Restriction Increases Tyrosine Hydroxylase Expression and Propensity for Addiction in Low Birth Weight Rats
Katelynn Ondek; Susquehanna University

White Hall Classroom Building 217

International Studies

Sat 9:00am-9:20am
China and Russia: Sanctions as a Means of Evaluating Motive
David Kelly; Seton Hall University

Sat 9:20am-9:40am
Falsely Rebranding Democracy: Negative Public Opinion of the Hybridization of Democracy In Russia
Hannah Roberg; Hamline University, St. Paul

Sat 9:40am-10:00am
Not-So-Strange Bedfellows: Explaining Russia's Involvement in the Syrian Crisis
Maria Smerkovich; Wheaton College - Massachusetts
White Hall Classroom Building 219

Biology

Sat 9:00am-9:20am
Population Genetic Structure of the Genus Cladophora in Western Lake Michigan and its Tributaries
Sara Schaal; University of Wisconsin, Milwaukee

Sat 9:20am-9:40am
A Comparison of Methods Measuring Nitrogen Fixation Across a Stream Temperature Gradient
Jackelyn Goldschmidt; St. Catherine University, St. Paul

Sat 9:40am-10:00am
Identification and molecular characterization of a novel Chlamydomonas reinhardtii chlorophyll deficient non-photosynthetic mutant
Katherine Smith; University of West Georgia

White Hall Classroom Building 231

Sociology

Sat 9:00am-9:20am
How Sexy are you? Understanding the Role Human Sexuality Plays in American Society: A Triangulative Analysis Using the Cultural Relativity Theory
Ron’Neisha Horton; Howard University

Sat 9:20am-9:40am
Hot or Not? A Triangulate Study on Self-Esteem, Attractiveness and Its Importance in Romantic Relationships
Linh Nguyen; University of Wisconsin, La Crosse

Sat 9:40am-10:00am
Exotic Dancing in 2013: Raunch Culture, the Economy, and Technology
Hannah Mabry; Morehead State University

White Hall Classroom Building 233

History

Sat 9:00am-9:20am
The Concentration of Force: Technological Innovations of Dreadnoughts in the Battle of Jutland
Elizabeth Pratt; Western Carolina University

Sat 9:20am-9:40am
Carrying On: Wartime Experiences of One Nebraska Family
Megan Veburg; University of Nebraska, Kearney

Sat 9:40am-10:00am
Candid Ken and the Cuban Crisis: Senator Kenneth Keating, the Red Menace, and the Missile Crisis of 1962
Daniel Gorman Jr.; University of Rochester

White Hall Classroom Building 234

History

Sat 9:00am-9:20am
Struggle Over Peace: The Political Battles of Woodrow Wilson
Sean Lovellette; University of Evansville

Sat 9:20am-9:40am
The Role of Organization and Ideology in the Goldwater Presidential Campaign
Nicholas D’Angelo; Union College

Sat 9:40am-10:00am
The Election of 1828: A Changing of the U.S. Political Landscape
Victoria Patterson; Salisbury University

White Hall Classroom Building 235

Chemistry

Sat 9:00am-9:20am
Modification of Solid-supports with Phosphonium Polyelectrolytes: Uptake and Removal of Species from Solution
Rachel Perry; Clemson University

Sat 9:20am-9:40am
Phosphonium Polyelectrolytes: Synthesis, Photophysics, Electrochemistry and Film Morphology
Catherine Conrad; Clemson University

Sat 9:40am-10:00am
The Joule-Thomson Coefficient as a Predictor for Column Efficiency in Supercritical Fluid Chromatography
Stephanie Greengo; University of Minnesota, Duluth
Oral Session 9

White Hall Classroom Building 237

Engineering/Engineering Technology

Sat 9:00am-9:20am
Design of a Motorized Computer Monitor Arm for Client with Quadriplegia
Grace Waters; University of Memphis

Sat 9:20am-9:40am
Prostheses: Through the Lens of a Unifying Theory of Innovation
Matthew Abreu; United States Military Academy

Sat 9:40am-10:00am
Muscle Oxygenation During Kneeling With Two Different Ankle Postures
Alexa Hernandez Principe; University of Wisconsin, Milwaukee

White Hall Classroom Building 238

Sociology

Sat 9:00am-9:20am
Similarity Is Not the Same as Sameness: A Qualitative Analysis of Language Usage of Jamaican Immigrants in the United States
Bianca Sullivan; Howard University

Sat 9:20am-9:40am
Understanding the Difficulties and Risks of Undocumented African Immigrants and Their Children: A Triangulative Analysis Utilizing Functional Theory
Helen Anyanwu; Howard University

Sat 9:40am-10:00am
The Impact of Globalization on Cultural Alienation among Qatar University Students
Sareh Pejdam; Qatar University

White Hall Classroom Building 239

African American Studies

Sat 9:00am-9:20am
Finding Freedom at Miami University: an Oral History Project
Kai Parker, Rhonda Baldwin; Miami University

Sat 9:20am-9:40am
Home to Harlem: Meeting Place for The Displaced
Kevin Morris II; University of Arkansas

Sat 9:40am-10:00am
The Fundamental Theorem of Miller: An Examination of Kelly Miller’s Deanship at Howard University
Lennex Cowan; Howard University

White Hall Classroom Building 240

Interdisciplinary Studies

Sat 9:00am-9:20am
Better Off Dead! A New Musical Project
Joshua Reinhardt, Shelley Washington; Truman State University

Sat 9:20am-9:40am
Carmen: French Ideas of “Spanishness” in Romantic Literature and Music
Austin Norrid; University of Kentucky

English

Sat 9:40am-10:00am
A Hopeless Mind: An Analysis of Endgame
Lucia Smith; Ithaca College

White Hall Classroom Building 241

Computer Science

Sat 9:00am-9:20am
Image Recognition and Classification Using Multi-Histogram Approach
Jorge Chang; Morehead State University
Oral Session 9

Sat 9:20am-9:40am
White Line Detection in an Autonomous Vehicle
Joseph Salmento, William Koch; United States Military Academy

Sat 9:40am-10:00am
Collision Sensing with Sphero’s Accelerometer
Melissa Mulcahy, Daniel Tobin; Central Connecticut State University

White Hall Classroom Building 242

Environmental Studies & Sciences

Sat 9:00am-9:20am
Remember the Ocelot: Effects of an international border fence on conservation efforts.
Kathryn Benavidez; St. Edwards University

Sat 9:20am-9:40am
Sustaining the Land of Fire and Ice
Chandler Green; University of South Carolina

Ecology & Organismal Biology

Sat 9:40am-10:00am
Accounting for Variability in Paleocological Mixing Models
Kelsey Grinde, Nora Peterson, Nora Forbes; Saint Olaf College

White Hall Classroom Building 243

Philosophy & Ethics

Sat 9:00am-9:20am
The Conception of the Individual: What Hegelian Marxism Leaves Out
Elliny Hiebert; Eastern Washington University

Sat 9:20am-9:40am
Schmitt, Hegel and the Roots of Conservative Political Thought
Corey Zielinski; Xavier University

Sat 9:40am-10:00am
Man is Political: Rawls, Hegel, and the Notion of the Self
Taylor Fulkerson; Xavier University

White Hall Classroom Building 244

Engineering/Engineering Technology

Sat 9:00am-9:20am
Pan Species Chemical Agent Detector through Optomechanics of Surface Acoustic Waves
Andrew Oswald; United States Military Academy

Sat 9:20am-9:40am
Stability of a Multi-Stage Amplifier Driving Complex Loads - A Topological Study
Max Merget, Jingyuan Liang; Milwaukee School of Engineering

Sat 9:40am-10:00am
Mathematical Modeling an Multicriteria Optimization in Radiotherapy
Christian Svetnicka; University of Michigan

White Hall Classroom Building 245

Education

Sat 9:00am-9:20am
The Effect of Community Service on Western Carolina University
Peyton Flinchum; Western Carolina University

Sat 9:20am-9:40am
Utilizing a RtI Service Learning Program to Train Pre-Service Teachers
Kayla Dolan; High Point University

Sat 9:40am-10:00am
Developing an Instrument to Explore Pre-service Elementary Teachers’ Understanding of the Role of Trees in an Ecosystem
Vera Soules Mabson; University of Kentucky
Oral Session 9

White Hall Classroom Building 246

**Physics**

**Sat 9:00am-9:20am**
*Analysis of the Lyapunov Exponent and Poincare Plots for a Nonlinear Field Model of a Blazar Jet with Optical Microvariability*
Andrew Brown, Mitchell Harmon, Benjamin Guthrie, Cameron Hubbard; Western Kentucky University

**Sat 9:20am-9:40am**
*STUDYING THE REACTION CHAIN OF 17O(P,?)18F(?) IN CLASSICAL NOVAE VIA ONE-PROTON BREAKUP REACTIONS*
Bryan Isherwood; James Madison University

**Sat 9:40am-10:00am**
*“Increase of Ionizing Radiation at the Pfotzer Maximum over the Southern Appalachians”*
Michele Coker; Western Carolina University

White Hall Classroom Building 247

**English**

**Sat 9:00am-9:20am**
*Pride and Prejudice Adaptations Contrast Fine Lines between Byronic Hero and the Contemptible*
Jessica Madron; University of Nebraska, Kearney

**Sat 9:20am-9:40am**
*Jane Austen and Nicholas Sparks: The Head and the Heart*
Victoria Cockrell; Anderson College

**Sat 9:40am-10:00am**
*The Woodhouse’s Use of an Apothecary: The Ambiguous Mr. Perry*
Haley Russell; Murray State University

White Hall Classroom Building 303

**Computer Science**

**Sat 9:00am-9:20am**
*Leaf Identification on Android Devices*
Clint Guin; Appalachian State University

Sat 9:40am-10:00am
*An Extensible and Adaptable Software Framework for Robotic Control*
Gabriel LePage; State University of New York, Brockport

White Hall Classroom Building 306

**Health Sciences & Public Health**

**Sat 9:00am-9:20am**
*The Role of AGTR2 in Cystic Fibrosis Severity*
Kayla Herbell; Capital University

**Sat 9:20am-9:40am**
*Morphological & Genetic Characterization of Triatomine: Vectors of Chagas Disease in Texas*
Heather Frady; Eastern Washington University

**Sat 9:40am-10:00am**
*Longitudinal Evaluation of Iron Accumulation in Deep Gray Matter of Patients with Multiple Sclerosis and its Relationship to White Matter Pathology*
Alexandra Casillas; George Mason University

White Hall Classroom Building 316

**Art History**

**Sat 9:00am-9:20am**
*The New Victoria Theatre: A Case Study in American and German Influence on British Cinema Design*
Christopher June; Seattle University

**Sat 9:20am-9:40am**
*The Reign of Deitch*
Jenna Linder; Eastern Illinois University

**Sat 9:40am-10:00am**
*From Technique to Subject Matter: A Generation of Difference in the American Avant-Garde*
Anthony Amettis; Northern Illinois University

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White Hall Classroom Building 331

Ecology & Organismal Biology

Sat 9:00am-9:20am
HABITAT CHARACTERIZATION OF YEAR-ONE AND YEAR-TWO RED DRUM AND SPOTTED SEATROUT
Caleb Fligor; University of Kentucky

History

Sat 9:20am-9:40am
Amelia Brackett; New York University

Economics

Sat 9:40am-10:00am
Predictive Validity of Stated Preference Data: Application to Demand for Rocky Knob Mountain Bike Park Visits
Kevin Atkinson; Appalachian State University

White Hall Classroom Building 333

Mathematics

Sat 9:00am-9:20am
Properties of Peak Polynomials
Matthew Fahrbach; University of Kentucky

Sat 9:20am-9:40am
The Multiplicative Structure of the Group of Units of Quotient Rings
Erika Gerhold; Salisbury University

Sat 9:40am-10:00am
Schur Positivity in Difference of Products of Schur Functions
Nadine Jansen; North Carolina Agricultural and Technical State University

English

Sat 9:00am-9:20am
A Vision of Unity in Simon Pokagon’s novel Queen of the Woods
April Miller; Wheaton College - Illinois

White Hall Classroom Building 335

Communications

Sat 9:00am-9:20am
HOOK-UP CULTURE: A QUALITATIVE ANALYSIS OF SEXUAL SCRIPTS WITHIN GENDER AND RELIGIOUS IDENTITIES
Sarah Dursteler; Weber State University

Sat 9:20am-9:40am
To Have and To Hold: Rhetorical Constructions of Greek Orthodox Christian Notions of Sex
Ryan Bince; Ithaca College

Sat 9:40am-10:00am
“I’m Gay, and I’m Going to Play”: A Qualitative Study on How Athletes Choose To Disclose Their Homosexuality to Their Teammates
Emily Rauscher; University of Wisconsin, La Crosse

White Hall Classroom Building 336

Biology

Sat 9:00am-9:20am
Seasonal essential hypertension in Chlorocebus aethiops sabaues, the vervet monkey
Alexandra Guest; Skidmore College

Sat 9:20am-9:40am
Effects of stress on urocortins expression in the rat stomach
Chee Lor; University of Wisconsin, La Crosse

Sat 9:40am-10:00am
Hibiscus sabdariffa, Therapeutic uses for treating Pulmonary Hypertension.
Johnny Glenn; Tuskegee University
Oral Session 9

White Hall Classroom Building 337

Computer Science

Sat 9:00am-9:20am
Over-privileged Apps: An Easy Way in for Mobile Malware?
Sophie Dankel; Seattle University

Sat 9:20am-9:40am
DynaMa: DNS Based Dynamic Malware Analysis
Sean D’Antonio; United States Military Academy

Sat 9:40am-10:00am
Secure Exchange of Intrusion Detection Data among Coordinating Groups
Ian Ziarko; Lewis University

White Hall Classroom Building 338

English

Sat 9:00am-9:20am
"THE HOMELY NURSE DOTH ALL SHE CAN": GENDER AND PERSONIFICATION IN ODE: INTIMATIONS OF IMMORTALITY FROM RECOLLECTIONS OF EARLY CHILDHOOD
Rebekkah McKalsen; Wells College

Sat 9:20am-9:40am
Dames in Shining Armor?: Examining Gender and War in the 17th Century French Fairytale
Cate Anderson; Luther College

Sat 9:40am-10:00am
English and the Imposition of the Gender, Sex, and Sexuality Binary
Laura Burgess; Winthrop University

White Hall Classroom Building 339

Philosophy & Ethics

Sat 9:00am-9:20am
Magnanimity, Pride, and Humility
Marissa Willis; John Brown University

Sat 9:20am-9:40am
Challenging the Need to Define Mutuality through Sameness in Romantic Love: A Model Based on Differences
Shayna Yeates; Juniata College

Sat 9:40am-10:00am
The Mean of Modernity
Russell Webster II; Eastern Washington University

White Hall Classroom Building 340

Art History

Sat 9:00am-9:20am
CARRIE MAE WEEMS: THE AFRICAN AMERICAN FEMALE NUDE IS "NOT MANET’S TYPE"
Xiaoshan Bao; University of the Pacific

Sat 9:20am-9:40am
The Science of Art: Manet's Olympia Scandal of 1865
Sarah Huddleston; Hamline University

Sat 9:40am-10:00am
The Great Wonder of Nature
Brittney Woodrum; University of Kentucky

White Hall Classroom Building 341

International Studies

Sat 9:00am-9:20am
Negotiating in the Shadow of the Law: Cultural Property Restitution in the European Union
Allison Blauvelt; American University

Sat 9:20am-9:40am
Regionalism, Globalization, and the European Union: Germany's Newest Anti-Euro Party as a Challenge to the European Experiment
Kristin Decker; Hamline University

Sat 9:40am-10:00am
French Youth's Perception of May 1968
Genevieve Beck; Seattle University
White Hall Classroom Building 342

Economics

Sat 9:00am-9:20am
*The Effect of Charter School Competition on Traditional Public Schools in Michigan*
Anthony Galston; University of Wisconsin, Whitewater

Sat 9:20am-9:40am
*Resources and Educational Outcomes: A Look at Kansas and Missouri Public Schools*
Josh Russell; University of Kansas School

Sat 9:40am-10:00am
*No Child Left Behind—Good or Bad? The Effect of No Child Left Behind on the Percentage of Students Enrolled in Individualized Education Programs*
Connor Cosenza; Mercer University

White Hall Classroom Building 343

Film Studies

Sat 9:00am-9:20am
*Harry Potter and the Theory of Film*
Luiz Rosa Lippel; Western Carolina University

Sat 9:20am-9:40am
*The (Cinematic) Dark Knight: The Development of Bruce Wayne, Batman and the Characters Around Them*
Brian Fitzgerald; State University of New York, Brockport

Sat 9:40am-10:00am
*The Fading West: A Look at the Western Frontier*
Chris Warner; Brooklyn College

White Hall Classroom Building 344

Biochemistry

Sat 9:00am-9:20am
*Difference FTIR Studies on the Effects of Buffers on Nucleotide Binding to RecA*
Joshua Temple; James Madison University

Sat 9:20am-9:40am
*HscB, the J-protein in Fe-S cluster biogenesis, uses two distinctive binding sites to interact with its Hsp70-type chaperone protein, HscA*
Thomas Alderson, Jin Kim; University of Wisconsin, Madison

Sat 9:40am-10:00am
*Interactions among carbohydrates and proteins that could determine performance of terrestrial slug glue*
Sarah Rabice; Ithaca College

White Hall Classroom Building 346

Anthropology & Archeology

Sat 9:00am-9:20am
*The Politics of Youth Mobilization and Intervention in the Coloured Townships of Cape Town*
Jessica Nielsen; University of Rochester

Sat 9:20am-9:40am
*Youth in Revolt: Political Militancy and Militarized Culture in Argentina, 1970-Present*
Bronwyn Scott-McCharen; Hendrix College

Sat 9:40am-10:00am
*‘Bharat Mata Ki Jai’: ‘Homeland Politics’, the Hindu Lobby, and Shifting Trends in the Political Assertion of the Hindu American Community*
Priyanka Srinivasa; American University

White Hall Classroom Building 347

Chemistry

Sat 9:00am-9:20am
*Spectral Fluorescence Characteristics of Commercially Available Hydrocarbon Sensors*
Stephanie Jocis; United States Coast Guard Academy

Sat 9:20am-9:40am
*A photocatalytic reactor for use with Raman spectroscopy to analyze photocatalytic degradation of iodinated X-ray contrast media*
Isaac Kresse; Western Kentucky University
Sat 9:40am-10:00am
Illustrated Everyman: Sherlock Holmes and Professional Class Identity in the Strand Magazine
Dana Sly; Grinnell College

Sat 9:40am-10:00am
Aluminum-diimine complexes: Redox-active aluminum systems
Bren Cole; Albright College

White Hall Classroom Building 349

History

Sat 9:00am-9:20am
Lifting the Veil
Kyle O’Brien; Keene State College

Sat 9:20am-9:40am
"With All Winds Straight Ahead": The Influence of the World Wars on the Understanding of Friedrich Nietzsche
Grayson Bodenheimer; Appalachian State University
At Toyota, building great cars is just part of what we do. We’re also helping to make a difference in the lives of young people throughout Kentucky. Working together with schools and non-profit organizations across the state, we’re giving more students a chance to go places. It’s just one more way we’re driving Kentucky’s future.

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SESSION 1

African American Studies

Kiosk: 3C
Images of African American Women in Today’s Society and its Impact on the Black Community
Jessica Laguerre-Joseph; California University of Pennsylvania

Anthropology & Archeology

Kiosk: 11C
An Ethnography of Cell Phone Repair: Uniting a Global Network of People, Places, and Things
Grace Cooper; Eastern Washington University

Kiosk: 45C
From the Creek Bed to the Laboratory: An Experimental Analysis of Temper in Pigeon and Connestee Series Ceramics
Paige Tester; Western Carolina University

Kiosk: 46A
Sea Otter Resource Depression? Analysis of Enhydra lutris Remains from Yerba Buena Shellmound, San Francisco, California
Mary Barnewitz; University of Utah

Architecture & Interior Design

Kiosk: 12A
An Educational Facility for Autistic Children that uses Interior Design to stimulate and enhance the learning environment.
Abby Hyland; University of Kentucky

Art History

Kiosk: 46B
The Limitations of Modern Patronage Theory as Shown in the Case of Eli Broad, a Los Angeles Arts Patron
Jessica Evans; Virginia Commonwealth University

Kiosk: 47A
Where the Queen Calls Home: The Ownership and Housing of the Bust of Nefertiti
Autumn Pittman; Radford University

Arts Education

Kiosk: 12B
The Effect of Age, Prior Knowledge and Experience on the Ability to Demonstrate Connections Between Musical Elements and Pictorial Representations
Caitlin Skrbec; North Central College

Biochemistry

Kiosk: 12C
Aggregation Studies of A-549 Cancer Cells
Emma Hannigan; Montana State University, Bozeman

Kiosk: 13A
Catalytic and X-ray Crystallographic Study of Wild Type Azurin and its Mutants
Emmalee Toldo; University of Minnesota, Duluth

Kiosk: 46C
Determination of Antimicrobial Activity of Europium Metal Complexes
Kristy Rogers; Western Carolina University

Kiosk: 47B
Inhibition Kinetics of Carboxypeptidase B
Nicholas Decker; University of Illinois at Springfield

Kiosk: 47C
Molecular engineering of aquaporin to improve stability
Travis Combs; University of Kentucky

Kiosk: 48A
TCA cycle substrate selection and doxorubicin resistance in breast cancer cells
Joshua Bruhn; University of Minnesota, Duluth

Kiosk: 48B
The Signaling Pathway Mediated by GPR56 and TG2 in Metastatic Melanoma
Brigitta Gehl, Siddhi Shah; University of Rochester

Biological Engineering

Kiosk: 13B
Development of in vitro Assay to Study Tumor Cell Migration
Benjamin Wissel; Ohio State University
Nondestructive screening for meningitis by means of Brillouin spectroscopy
Zachary Steelman; Texas A&M University, College Station

Understanding Gold Nanoparticles Peptide Triazole mediated HIV-1 virolysis
Aakansha Nangarlia; Drexel University

A Bioinformatics Approach to Investigating Microbial Community Structure
Erika English, Eliza Chevalier, Eliza Doncaster, Hannah Sargent; Johnson State College

Agoutis On the Alert!
Rhonda Carson; University of Central Oklahoma

Analysis of the DNA Polymerase gene in the D. longicaudata Entomopoxvirus suggest classification in Gammaentomopoxivirus
Benjamin Talbot; Eastern Washington University

Assessing the Role of TNFa in Cryptococcus neoformans Infection in the Mouse Model
Jacob Carolan; University of Michigan

Biogeography and microhabitat of the green salamander (Aneides aeneus) in the Valley and Ridge physiographic province
John Wayland, Melissa Blackburn; University of Virginia's College at Wise

Characterizing of soybean genes using an endogenous transposable element
Callie Jean Johnson, Christopher Navarro; University of Wisconsin, Stevens Point

Comparing Odonata Populations in Natural and Constructed Emergent Wetlands in the Bluegrass Region of Kentucky
Brittany Brookshire; Eastern Kentucky University

Effect of Melanocortin Agonist MTII and BMS470539 on Body Temperature in Wild Type and Mc1r Deficient Mice
Anna Panyutin; National Institutes of Health

Endocrine and Developmental Abnormalities in Developing Larvae of the Ebony Strain of Drosophila Melanogaster
Ross Micciche, Eui Sung Kim; University of Kentucky

Examining the genome of Sigma Rhabdovirus infecting Drosophila Melanogaster in Eastern Washington
Meghan Woods; Eastern Washington University

Mechanisms Responsible for the Differentiation of Glial Cells in Drosophila Melanogaster
Kevin Craig; Susquehanna University

Characterizing of soybean genes using an endogenous transposable element
Callie Jean Johnson, Christopher Navarro; University of Wisconsin, Stevens Point

Inhibitory effects of 0.6mg Colchicine on the presence of activated neutrophils
Brian Robley, Omolayo Oggunnowo, Nanis Elkaramany, Timothy Akhalu; Minnesota State University, Mankato

Investigating the Role of PKCs in Formation of a Parasitophorous Vacuole by Coxiella burnetii in THP-1 Macrophages
Lucas DeYoung; John Brown University

Morphology of Ometepe Island Boa constrictor imperator
Margaret Milano; SUNY Geneseo
Kiosk: 52C
Population Density of Feral Hogs (Sus scrofa) in Hill County, Texas
Tracina Maiden; McLennan Community College

Kiosk: 53A
Recognizing predators before you are born: The effects of prenatal and perinatal predator cue exposure on wolf spiderling antipredator responses
Nathan Boyd; Susquehanna University

Kiosk: 53B
Scarless Wound Healing: Increased Collagen Deposition Along Wound Edge In Human Fibroblasts vs. hESCs
Tam Nguyen, Eileen Ing, Roxanne Bartolome; Dominican University of California

Kiosk: 53C
Sophia Pham; University of Illinois at Springfield

Kiosk: 54A
_Symbiotic endophytes could improve crop production_ 
Katelyn Knight; University of West Alabama

Kiosk: 54B
The effect of uPA, PAI-1 and APC on PC3 invasion and HUVEC microtubule growth
Grace Jones; Winthrop University

Kiosk: 54C
The genetics of speciation between Drosophila mauritiana and its sister species
Benjamin Goulet; University of Rochester

Kiosk: 55A
The Role of Complement Proteins in Cancer
Ruchi Shah; Stony Brook University

Kiosk: 55B
The role of the GPI anchor on transmissible spongiform encephalopathy transmissibility
Matt Graham; Virginia Commonwealth University

Kiosk: 55C
Use of Refinery Waste Glycerol as a Carbon Source in Algae Growth Medium
Jordan Rode, Adam Santiago, Josef Baylis; Dominican University of California

Kiosk: 66C
Changes in Gene Expression in the Rat Testis following Inflammation
Genevieve Fasano; Monmouth University

Business/Finance/Accounting

Kiosk: 15B
Do Paying Loads and Expenses Affect the Performance of Mutual Funds?
Brenda Gary; University of Wisconsin, Whitewater

Cell & Molecular Biology

Kiosk: 15C
Annotation of a DNA contig from the Dot chromosome of Drosophila biarmipes
McKenzye DeHart-McCoyle; Western Carolina University

Kiosk: 16A
DEVELOPMENT OF A COCHLEAR SPECIFIC CRE RECOMBINASE EXPRESSION VECTOR FOR TARGETED GENE INACTIVATION
Abrar Zawed; Minnesota State University, Mankato

Kiosk: 16B
Evaluation of Double-stranded (ds) RNA from Select Isolates of Rhizoctonia solani
Lauren Comunale, Lauren Comunale, Hannah Cornman, Mary Chey, Shan Min Chin, Chin Hong Siew; Indiana University of Pennsylvania

Kiosk: 16C
Green Monkey kidney cell lines - Vero vs. Vero-76 - for Virus Titers
Makda Gebre; Utah State University

Kiosk: 56A
Lifelong Satellite Cell Depletion does Not Change Muscle Phenotype
Marin Lehman; University of Kentucky
Poster Session 1

Kiosk: 56B
Morphological Characterization of Male Reproductive Aging in Drosophila melanogaster
Chelsea Weaver, Andrea Gonzalez, Justin-Joseph Simpao, Dalton Hampton, Michelle Giedt; University of Kentucky

Kiosk: 56C
Recruitment of Beta-Arrestin2 to Primary Cilia Upon Receptor Activation
Elizabeth Bley; Ohio State University

Kiosk: 58B
Determining Host-Guest Interactions of Common Environmental Pollutants via Fluorescence Spectroscopy
Grace Gast; Luther College

Kiosk: 58C
Education and Chemistry
Breche Wells; Spelman College

Kiosk: 57A
The Effect of Ultraviolet Radiation on Alpha-Melanocyte Stimulating Hormone Production in Keratinocytes
Mary Boulanger; University of Kentucky

Kiosk: 57B
The role of residue K752 in b1 integrin homodimerization
Kaitlyn Reasoner; Berea College

Kiosk: 57C
Zinc transporter gene expression profiling in ovarian cancer cell lines
Conor McCammon, Amanda Gaytan, Hannah Agren, Lauren Alpen, Lisa Geronimo, Stacy Ditta, Isabel Rangel, Brianna Fennell, Victoria Santos; Dominican University of California

Chemical Engineering

Kiosk: 17A
Development of a Novel Zebra Finch-Based Bacterial Biosensor for Endocrine Disruptors
Angela Chen; Ohio State University

Kiosk: 17C
Animal Fat Waste: A New Source for Biodiesel
Mai Do; Dominican University of California

Kiosk: 18A
Catalytic Oxidation of Primary Alcohols by Transition-Metal-TRIPHOX Complexes
Edward Bedell, Vincent Shallal; Xavier University

Kiosk: 18B
Interactions of Dialkylcarboxy Complexes with Divalent Metal Ions Potentially form Liquid Crystalline Conducting Materials
Hallie Crosby; Sewanee

Kiosk: 18C
Ligand-Centered Absorptions as a Means of Enhancing the Visible Absorption Spectra of Ruthenium(II) Polypyridyl Complexes Used in Dye-Sensitized Solar Cells.
Savannah Kapper; Eastern Illinois University

Kiosk: 59A
Novel SPE Materials With Highly Ordered Hybrid Nanostructured Architectures for Lithium Rechargeable Batteries
Charles Liggett; Saint Olaf College

Kiosk: 59B
Preparation of a molecularly imprinted polymer for the selective retention of the insecticide fenvalerate
Alexander Rhodes; Susquehanna University

Kiosk: 59C
Quorum Sensing Molecules for Unicellular Organisms: Spectroscopic and Computational Study of Conformational Behavior
Daniel Tollefson; Minnesota State University, Mankato

Kiosk: 60A
Structure Determination of H2C=CFH2C=CF2 by Fourier-Transform Microwave Spectroscopy
Rachel Dorris; Eastern Illinois University
Kiosk: 60B
Synthesis and Characterization of Nanoporous Silver Foams
Dana Hess; California University of Pennsylvania

Kiosk: 60C
Synthesis of Metal Organic Frameworks For Peptide Adsorption Studies
Maryanna Kroska, Magen Nivison; University of Minnesota-Morris

Kiosk: 61A
Synthesizing Substituted Borrerines for Heterodimerization
Muhammed Ashar Afaq; University of Houston

Kiosk: 61B
The use of natural orbitals in predicting molecular properties
Evan Jahrman; Gonzaga University

Kiosk: 61C
Visualization of Internalized Viral Nanoparticles (VNPs) for Early Cancer Detection
Heidi Fenske, Darien Jefferson; Carthage College

Communications

Kiosk: 19A
A Cross-Cultural Examination of Government Environmental Agencies’ Websites in Norway, China, Costa Rica and the United States
Jill Capotosto; Elon University

Kiosk: 19B
Factors Effecting Graduation Rates: Students Perspective
Brooke Brunner, Kevin Klipp, Lauren Fitzgerald, Mark Marusich; University of Wisconsin, Whitewater

Kiosk: 20A
Decreasing Bias in Forensic Fingerprint Analysis: A Review of the Methodology
Amy Thurston; Virginia Commonwealth University

Dance

Kiosk: 20B
Vaudeville’s Influence on African American Performers
Katherine Poe; University of Kentucky

Ecology & Organismal Biology

Kiosk: 20C
An Assessment of the Susquehanna River Upper Main Stem by Interpreting Different Methods of Sampling Benthic Macroinvertebrate Communities Over a Five Year Period (2009-2013).
Andrew Anthony; Susquehanna University

Computer Science

Kiosk: 1A
Creating a Usable Interface for a Markov Decision Process Policy Explainer
Jordan Jorgensen; University of Kentucky

Kiosk: 1C
Creating Software Defined Network Topologies with Mininet
Magdalene McArthur; Howard University

Kiosk: 19C
Designing Nanostructures with DNA Sequences
Connor Uhlman, Tony Clark, Jamie Ethington; Simpson College

Kiosk: 62B
Preemptive Rumor Detection on Twitter Based on Credibility and Gullibility Dual
Arathi Mani; Ohio State University

Kiosk: 62C
Using Machine Learning Techniques to Effectively Handle Collision in A Wheelchair Simulation System
Zhibin Zhang, wenxi zeng; University of Central Oklahoma

Criminology

Kiosk: 21A
Effects of Northern pike (Esox lucius) on Yellow Perch (Perca flavescens) and Sunfish (Lepomis spp.) Population
Chao Xiong; University of Wisconsin- River Falls
Kiosk: 63A
The Effect of Climate Change on Migration Timing of American Migratory Birds
Sean Reynolds; Stevenson University

Economics

Kiosk: 21B
Analyzing the Potential for Neighborhood Revitalization in Economically Distressed Areas
Mussie Tizazu; Franklin and Marshall College

Kiosk: 21C
Exploring Regulatory Strategies to Facilitate the Growth of Peer-to-Peer Lending Industry in China
Guanxiong Zhou; Lafayette College

Kiosk: 63B
The Effects of Minimum Wage Hikes on Poverty Rates…Do Increases in Minimum Wages Actually Reduce Poverty?
Vern Summers; Augsburg College

Kiosk: 63C
Patient movement and profitability effects in California’s healthcare market
Kendra Johnson-Tesch, Alex Everhart, Joey Dickens; Saint Olaf College

Education

Kiosk: 2A
“A” is for Apple and “E” is for Exercise: Suburban Health and Fitness Policies
Sarah Peck; Bridgewater State University

Kiosk: 22A
Children who are Homeless in K-12 Public Schools
Stanley Kennedy; Winthrop University

Kiosk: 22B
Falling Off a Cliff: Transitioning From Special Education to Adult Life
Samantha Modica; Bridgewater State University

Kiosk: 22C
Outreach Research Conferences: Bridging the Gap Between Academia and the Public
Philip Jarrett, Joshua Willms; Texas Tech University

Kiosk: 64A
YoungA Choi, Dabitan Chung; University of Minnesota, Crookston

Kiosk: 64B
Increased Thermal Diffusivity of Carbon Fiber Reinforced Polymer Composites: Multiwall Carbon Nanotube-Studded Carbon Fiber
Patrick Mansfield; University of Kentucky

Kiosk: 64C
Non-Intrusive Monitoring of Civil and Mechanical Structural Deflection: A 3D Imaging Approach
Eric Rogers; West Virginia University

Kiosk: 67A
Middle School Science Textbook Analysis: Implications for Students with Disabilities
Gregory Taylor; University of Cincinnati

Electrical Engineering

Kiosk: 2B
Characterization of acoustic echoes & a comparison of bat and human waveforms
Yiming Jia; Ohio State University

Kiosk: 23A
Investigating Charge Induced Swelling of Porous Carbon Electrodes in Ionic Liquids
Alexander McBride; Drexel University

Engineering/Engineering Technology

Kiosk: 2C
Dependence of Volume of Distribution on Gel Strength for Convection Enhanced Delivery of Drugs to the Brain.
Kunal Sunthankan, Christopher Brown, Alyssa Fountain, Dr. Luke Bradley, Dr. Peter Hardy; University of Kentucky

Kiosk: 23B
BIG DATA ANALYSIS OF IRREGULAR OPERATIONS: Aborted Approaches and Their Underlying Factors
Hodua Kerkoub Kourdali; George Mason University
Kiosk: 65A
Testing of Particulate Composites to develop stronger materials
John Goolcharan; Florida International University

Kiosk: 66A
Tick Species and Their Potential Effects Within the Elk Population of Eastern Kentucky
Jansen Cunningham; University of Kentucky

Geography & Earth Sciences

Kiosk: 3B
"It's a Beautiful Reciprocal Arrangement": Fictive Personalities, Formative Responses, and Adult Interest in The Catcher in the Rye
Michelle Nussbaum; Elon University

Kiosk: 23C
AN INVESTIGATION OF THE EFFECT OF SOIL DISKING ON GEWÜRZTRAMINER (Vitis vinifera) GRAPE MATURATION IN THE FINGER LAKES REGION OF NEW YORK.
Molly Baillargeon; Wells College

Kiosk: 24A
Effect of chemically dispersed and physically weathered crude oil on behavior and predation in the marsh shrimp Palaemonetes vulgaris
DeAnna Franklin, DeAnna Franklin, Rene Smith, Ryan Johnson, Akia Borders, Sue Ebanks; Savannah State University

Kiosk: 24B
Habitat Preferences for Adult and Juvenile Red-Backed Salamanders (Plethodon cinereus) Between Cover Boards and Natural Cover Objects in the MCLA Forest
Macy Fredericksen; Massachusetts College of Liberal Arts

Kiosk: 25A
Locating Sinkholes in LiDAR Coverage of a Glacio-fluvial Karst, Washington County, Minnesota
Emma Young, Caitlin Castner; University of Minnesota, Twin Cities

Kiosk: 25B
Use of Trace Element Indicators to Test Tectonic Interpretations of Ordovician Metavolcanic Rocks in the Southern Appalachians
Kenneth Roop-Eckart; Columbus State University

Gerontology

Kiosk: 4A
Development of an Isometric Leg Strength System for Measurement of Maximal Voluntary Contraction Strength in the Elderly
Eric Lindahl; Hamline University, St. Paul

Health Sciences & Public Health

Kiosk: 25C
Body Composition Analysis of Heart Failure Patients With and Without Diabetes Using Bioelectrical Impedance Scale
Sima Amin; University of California, Los Angeles
Kiosk: 26A  
Effectiveness of a Peer (Unit) Coach Model on End-of-Life Care Education  
Eliza McGoldrick; University of Pittsburgh School of Nursing

Kiosk: 26B  
Factors Associated with Clinical Outcomes following Autologous Chondrocyte Implantations (ACI) to the Knee  
David Brueggeman; University of Kentucky

Kiosk: 26C  
Local Food Systems and Health Disparities  
Abra Sickles; University of North Carolina, Asheville

Kiosk: 66B  
Sleep quality effect on immune response throughout pregnancy  
Brittany U’Wren; Asbury University

International Studies

Kiosk: 5B  
An International Civil War: How Did Diamonds in Sierra Leone Play a Central Role in Creating and Maintaining Armed Conflict?  
Lauren Matturri; Lafayette College

Kiosk: 5C  
Empire of Slavery - The 1926 Slavery Convention  
Robert Anderson; University of Connecticut

Kiosk: 6A  
Empowering Women Collectively and Individually from Her Perspective: A Case Study of SEWA Delhi  
Asthaa Chaturvedi; The George Washington University

Kiosk: 6B  
Left-Behind: The Impact of Parental Migration on Salvadoran and Mexican Children  
Isabel Duarte Vasquez; Dominican University of California

Kiosk: 6C  
Structural Violence Extermination Project (SVEP) in Zimbabwe  
William Lee; Ohio State University

Kiosk: 7A  
The Constitution of the Sea: Energy Implication and Blue Growth in the Mediterranean  
Rebecca Olsho; Drexel University

Kiosk: 7B  
The Failing Economy: A Gain for the Parti Quebecois?  
Allison Baker; Roanoke College

Kiosk: 7C  
The Multifaceted Origins of the Basque Conflict in Spain  
Hans Dosland; Luther College

Kiosk: 8A  
The Role of Propaganda in the British Response to the Mau Mau Rebellion  
Amelia Hussein; Depaul University

Kiosk: 27A  
Dr. John A. Otte: A Study in Christian Cross-Cultural Mission Methods in China  
Rebekah Llorens; Hope College

Kiosk: 27B  
The Eugenics Movement in America: 1920-1980  
Chelise Conn; Morehead State University

Kiosk: 27C  
Social Entrepreneurship Venture for Health & Happiness  
Carling Andrews; Elon University

Interdisciplinary Studies

Kiosk: 4C  
LGBT the final frontier of human rights: A case study of same-sex marriage in Spain  
Faith James; University of the Pacific

Kiosk: 27C  
Social Entrepreneurship Venture for Health & Happiness  
Carling Andrews; Elon University
Kiosk: 8B
Ticket to Ride: Access to Public Transportation and Improved Livelihoods in Bogota, Colombia
Kate Brunette; American University

Kiosk: 28B
Trade Perceptions
Jenna Florence; Georgia Southern University

Kiosk: 28A
Examining Drunkorexia across Greek Affiliation
Lauren Cain; Miami University

Kiosk: 28C
The Influence of Sleep on ImPACT Performance
Mathew Schneider; University of Texas, Arlington

Linguistics & World Languages

Kiosk: 29A
The Christmas Markets in Germany: the German View Today
Hannah Kramer; North Central College

Mathematics

Kiosk: 29B
Locked and Unlocked Chains in 3-Space
Alicia Altemose; Moravian College

Kiosk: 29C
The Archbishop’s Odyssey: A New Path, Creating New Opportunities
Leonard Sprague; Bridgewater State University

Microbiology & Immunology

Kiosk: 30A
Isolation and characterization of naturally-occurring plasmids from non-pathogenic human gut Escherichia coli.
RAY MIREMBO; Berea College

Kiosk: 30B
Statins, the cholesterol-lowering drugs cause myotoxicity through phospholipase D-mediated lipid signaling
Eric Tretter; Ohio State University

Neuroscience

Kiosk: 1B
Jordan Rice; Transylvania University

Kiosk: 30C
Attempt to attenuate age related hearing loss caused by oxidative stress by-products using an acrolein scavenger
Julie Luna; University of Puerto Rico

Kiosk: 31A
Dynamic causal modeling reveals distinct working memory networks in fetal alcohol spectrum disorders
Rohan Bhalla; Wayne State University

Kiosk: 31B
Gene Expression Analysis in Absence Epilepsy Using a Monozygotic Twin Design between Affected and Unaffected Discordant Twin Pairs: Implications for Contemporary Treatment Methods
Jonathan Maksabo; Wayne State University

Kiosk: 32A
Role of 5-HT2A in Timekeeping Behavior
J. Daniel Obray; Utah State University

Kiosk: 32B
The Neuroprotective Role of Combined Antioxidant Therapy in the Rat Model of Parkinson’s Disease
Chelsea Mursch; Moravian College

Nursing

Kiosk: 32C
Auricular Point Acupressure to Manage Chronic Low Back Pain in Older Adults: A Randomized Controlled Pilot Study
Teika Takedai, Leah Morgolia, Shreya Bhatnagar, Jaclyn Primavera; University of Pittsburgh School of Nursing

Kiosk: 33A
Educating Pregnant Women on the Benefits of Exercise During Pregnancy
Sarah Toler; Baylor University Waco-University Development
**Poster Session 1**

**Kiosk: 33B**  
*Frequency of Errors Among Novice Nurses During Interrupted Medication Administration Tasks*  
Tatiana Podchinenova, Deja Zaritsky; University of Utah

**Kiosk: 33C**  
*Intervention Fidelity in a Randomized Clinical Trial to Promote Physical Activity in Older Adults with Comorbidity*  
Alyssa Sartore; University of Pittsburgh School of Nursing

**Kiosk: 34A**  
*Postoperative Nausea and Vomiting in Women Following Breast Cancer Surgery: Does Age Make a Difference?*  
Abbey Parrott; University of Pittsburgh School of Nursing

**Kiosk: 34B**  
*The Association of Health Behaviors Prior to and During Pregnancy and Maternal Complications and Neonatal Outcomes in Women with Type 1 Diabetes*  
Amanda Stone; University of Pittsburgh School of Nursing

**Physics**

**Kiosk: 8C**  
*Analysis of Thermonuclear X-ray bursts in the Neutron Star X-ray Binary Cygnus X-2*  
Shaina Reisman; CUNY Brooklyn College

**Kiosk: 9A**  
*Electrical Double Layer Capacitors with Activated Carbon/Carbon Nanotube Composite Electrodes*  
Génesis Ayala; University of Puerto Rico at Humacao

**Kiosk: 34C**  
*Experimental Demonstration of the Single-Photon Sensitivity of a Quantum Dot, Optically Gated, Resonant RLC Circuit*  
Yann Talhouarne; University of Wisconsin, La Crosse

**Kiosk: 35A**  
*Modeling of Waveguides on Matlab*  
James Leiter; New Jersey City University

**Kiosk: 35B**  
*Production and Measurement of Four Degree of Freedom Photonic States with Single-Photon Entanglement*  
Darwin Cordovilla Cordovilla, Jaehyuk Choi, Brian Lasher; University of Evansville

**Kiosk: 35C**  
*Using FDTD simulations to investigate how light travels through subwavelength holes in Au+VO2 films*  
Bertrand Irakoze; Sewanee

**Physiology**

**Kiosk: 36A**  
*Range of Hematology and Biochemistry Values in Open-water, Captive Bottlenose Dolphins (Tursiops truncatus) in Roatan, Honduras*  
Tracina Maiden, Connor Pogue; McLennan Community College

**Poetry & Creative Writing**

**Kiosk: 9B**  
*August and Everything After*  
Anna Wright; University of Wisconsin, Oshkosh

**Political Science**

**Kiosk: 9C**  
*Ballot Bomb: Exploring the Young Voter Trends in Kentucky's 2014 U.S. Senate Race*  
Lara Osborne, Stephanie Driskill, Austin Sprinkles; University of Kentucky

**Kiosk: 36B**  
*Cracking the Marble Ceiling: The Partisan Gender Gap in Congress*  
Lauren Currie; College of Saint Benedict

**Kiosk: 36C**  
*Mujeres Poderosas: Profiles of Argentine Politicians*  
Caitlin Hagan; University of Kentucky

**Kiosk: 37A**  
*The Influence of ECFA on Taiwan's Public Opinion of Cross-Strait Relations*  
Ruobing Wang; University of Rochester

**Psychology**

**Kiosk: 10A**  
*Adolescent marriage & Risk of depression*  
Bao Lee; University of Wisconsin, Stout
Kiosk: 37B
Attitudes Towards People with Disabilities and of Ethnic Minorities
Matthew Biver, Emily Aus; University of South Dakota

Kiosk: 37C
Can Self Conscious Emotions Lead to Academic Success?
Joseph Diaz; Adelphi University

Kiosk: 38A
College Therapist Experiences of Shortened Therapy Sessions
Jessica Baglione, Megan Casey; Massachusetts College of Liberal Arts

Kiosk: 38B
Directed Forgetting and Political Retractions
Korey Nicholls; University of Kentucky

Kiosk: 38C
Effects of Age of First Use of Alcohol and Age of First Intoxication on Impulsivity and Behavioral Control in Young College Students
Renee Meister; Northern Kentucky University

Kiosk: 39A
Examining physical and psychological health outcomes of home repairs on rural Appalachian residents
Nathaniel Andrew; Milligan College

Kiosk: 39B
Gender Differences in Expectations about Online Dating
Karly Harris; Dominican University of California

Kiosk: 39C
How To Do College: Reflective Judgment in Academia
Michael McCormick; Massachusetts College of Liberal Arts

Kiosk: 40A
Influence of General Parental Racial Socialization on Adolescents' Racial Identity and Psychological Well-Being
Josefina Banales; Illinois Wesleyan University

Kiosk: 40B
Jury Decision Making Involving Rape Trials: Civil vs. Criminal Court Cases
Taylor Rippe; University of Kentucky

Kiosk: 40C
Naltrexone decreases food-maintained responding but is dependent on environment and food deprivation status
Hailey Walters; University of Kentucky

Kiosk: 41A
Parental Distress in Mothers of Very Low Birth Weight Infants: Examining the Influence of Medical, Family and Maternal Mental Health Factors.
Laurin Wilson; Utah State University

Kiosk: 41B
Pigeons Can Make Transitive Inferences
Korey Nicholls; University of Kentucky

Kiosk: 41C
Rates of Teacher's Behavior Specific Praise and Relation to Disruptive Behavior
Sawyer Howe, Morgan Eldridge; Eastern Illinois University

Kiosk: 42A
Semantic Satiation and the Comprehension of Emotional Language
Megan Wehse; University of Wisconsin, Whitewater

Kiosk: 42B
Sport Education Model and Motivation in University Physical Education Classes
Michael Mellinger; Appalachian State University

Kiosk: 42C
Testing the Long-Term Impact of Dangerous Calls on EMT’s Well-Being
Steven Clements, Kent Hinkson Jr.; Utah Valley University

Kiosk: 43A
The effect of family values on early romantic relationship formation and attitudes in Black-American and Hispanic adolescents
Chelsey Boulden, Ciara Bush; George Mason University

Kiosk: 43B
The Effects of Popularized Stereotypes on Jury Decision-Making
Anastasia Formica; Iona College

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**Poster Session 1-2**

**Kiosk: 43C**  
*The Influence of Heart Rate Variability on Decision Making*  
Ravi Bhatt; Ohio State University

**Kiosk: 44A**  
*The Relationship between Sexual Assault History and Current Substance Abuse in Women*  
Brandy McAdams-Hart; Southern Illinois University Edwardsville

**Kiosk: 44B**  
*TROUBLE FINDING THE RIGHT WORDS?: An investigation into lexical selection using auditory distraction*  
Jessica Crawford; University of Central Lancashire

**Kiosk: 44C**  
*You Be the Judge: Mood and Impression Formation*  
Elizabeth Ziemer, Sara Dorow; St Norbert College

**Recreation and Leisure Studies**

**Kiosk: 10B**  
*Sustainable Tourism*  
Shannan Eagan; California University of Pennsylvania

**Sociology**

**Kiosk: 10C**  
*A Perfect Storm: The Hope VI Program and the Atlanta 1996 Summer Olympics*  
Sarah Nash; Saint Louis University

**Kiosk: 11A**  
*Local Food Policy Development for Community Stability*  
Erica Indiano; University of Kentucky

**Kiosk: 45A**  
*Slacktivism or Activism?: A Study of Online and Offline Civic Engagement in College Students*  
Chelsea Champion; Iona College

**Kiosk: 45B**  
*The Increase in African American gangs: 1960-2012 structural and cultural factors*  
Alexia Johnson-Cole; University of Wisconsin, Whitewater

**Theatre/Drama**

**Kiosk: 11B**  
*Dressing the Part: Theatrical Costume Design and its Implications for Character Development in the Rehearsal Process*  
Carlee Fields; North Central College

**SESSION 2**

**Anthropology & Archeology**

**Kiosk: 3C**  
*Achill Island, Ireland: An Archaeological Experience*  
Karina Sanchez; California University of Pennsylvania

**Kiosk: 11C**  
*Anthropological Archaeology Considerations Regarding the Geometric Period Burial Ground at Naxos Island-Greece*  
Allison Adler, Ashley Corbeil, Joanna Wells; Adelphi University

**Kiosk: 45C**  
*Genetic Diversity in Totonacan-Speaking Populations and Their Interactions with Other Populations from the Veracruz and Puebla States of Mexico*  
Daniel Brooks; University of Pennsylvania

**Architecture & Interior Design**

**Kiosk: 46A**  
*Skeletal Trauma as a Result of Human Rights Abuses and Armed Conflict in the Former Yugoslavia and Guatemala*  
Meghan Conroy; University of South Carolina

**Kiosk: 12A**  
*Promoting Design Thinking in Education*  
Andrea Burns; University of Kentucky

**Astronomy**

**Kiosk: 1A**  
*A precision photometry study of Galactic H II regions*  
Steven Bartel; University of Wisconsin, Oshkosh
Poster Session 2

Kiosk: 12B
Analysis of Diffuse Interstellar Bands in Open Cluster NGC 7160
Cory Schrandt; Carthage College

Biochemistry

Kiosk: 12C
Analysis of RNA-binding Protein Dynamics with Elastic Network Models
Ann Quigley; Elon University

Kiosk: 46B
CCL21 and CCR7's interaction in Cancer Metastasis
Asha Bailey; University of Wisconsin, Whitewater

Kiosk: 46C
Determination of Enzyme Kinetics Using Electrophoretically Mediated Microanalysis
Kaitly Woodard; Appalachian State University

Kiosk: 48A
The Activity of BACE1 and BACE2 Accelerates the Development of Alzheimer's Disease
Kelsey Melgaard; University of Minnesota, Duluth

Kiosk: 48B
The Structure of the Chemokine CCL21 and its Receptor CCR7
Larry Williams; University of Wisconsin, Whitewater

Kiosk: 48C
OpenSim as a Biological Simulation for Sensorimotor Experiments
Justin Sellman; George Mason University

Biochemical Engineering

Kiosk: 13A
Brain Modeling to Mimic Functionality Studies of Cerebrospinal Fluid
Esther Bieszk; Milwaukee School of Engineering

Kiosk: 48B
The Structure of the Chemokine CCL21 and its Receptor CCR7
Larry Williams; University of Wisconsin, Whitewater

Kiosk: 13C
A general integrative approach to genomic phylogeography and species delimitation in Brown and Red-bellied snakes (Storeria)
Felisa Wei Hsieh; The George Washington University

Kiosk: 14A
Algae, a Source of Biofuels: Extraction of Key Components is the Key to Making it Work
Maria Oseguera, Ashton Mikell, Pooja Prasad; Dominican University of California

Kiosk: 14B
Analysis of the nucleoside triphosphate phosphohydrolase I gene from the Diachasmimorpha longicaudata entomopoxvirus
Sarai Milliron; Eastern Washington University

Kiosk: 14C
Assessment of How Pause Time Affects the Efficiency of a New Point of Use Water Filtration System in Siem Reap, Cambodia
Minh Lam, Amanda Kutok; Bridgewater State University

Kiosk: 15A
Biogeography and microhabitat of the green salamander (Aneides aeneus) in the Valley and Ridge physiographic province
Melissa Blackburn, John Wayland; University of Virginia's College at Wise

Kiosk: 49A
Characterization and effectiveness of the antifungal metabolite produced by the Isaria fungus
Katherine Betuel; State University of New York, New Paltz
Kiosk: 49B
Circadian Profile of pCREB Expression in the Adrenal Medulla of Rats
Maurice Tran; Seattle University

Kiosk: 49C
Comparison of Physical, Acid, and Hot Water Scarification on Seed Germination in Easter Redbud Seeds
Kara Mylor, Sarah Holton; University of Kentucky

Kiosk: 50A
Effect of Peppermint Extract on Adipocyte Differentiation and Lipid Uptake
Mary Kamos; Loyola University

Kiosk: 50B
Endophytic Colonization and Growth Promotion of Rice (Oryza sativa) by Azoarcus olearius DQS4
Sydnee Rausch; University of Wisconsin, Milwaukee

Kiosk: 50C
Examining the interactions between YAK1 and MSS11, PAT1, and DCS1 in signal transduction in Saccharomyces cerevisiae
Adeline Boettcher, Christina Carstens, Scott Blaszak; North Central College

Kiosk: 51A
Identification of a diverse group of soil bacteria to study their potential for blocking male development in Ceratopteris richardii gametophytes
Nicole McAllister; Gannon University

Kiosk: 51C
Investigating Transporter Genes Involved in Nematode Infection of Arabidopsis thaliana
Courtney Mercadante; Bridgewater State University

Kiosk: 52A
Metabolic recovery following submaximal exercise is not dependent upon training status or gender
Lauren Maze; Luther College

Kiosk: 52B
Multimodal Functional Imaging of the Tumor Microenvironment: MRI, US, and PAI
Ryan Cullen; College of St Scholastica

Kiosk: 52C
Potential Influence of Fish Bites on Yellow Band Disease on Corals off the coast of Roatan, Honduras
Kara Schmidt; McLennan Community College

Kiosk: 53A
Reduction in stochastic environmental variation increases behavioral repeatability in house sparrows (Passer domesticus)
Nur Ali; Transylvania University

Kiosk: 53B
Screening Potential Anthelmintic Compounds for Novel Activity
Kendra Wells; University of Wisconsin, La Crosse

Kiosk: 53C
Sources of Uncertainty in Nutrient Sampling Below a Point Source
Hayden Campbell; Utah State University

Kiosk: 54A
Targeting Human Hepatocellular Carcinoma with Syncytin-Conjugated Liposomes
Fatime Qosaj; Adelphi University

Kiosk: 54B
The Effects of Atypical PKC on the Differentiation of Kidney Cells
Fatime Qosaj; Adelphi University

Kiosk: 54C
The Genomic and Morphological Effects of Bisphenol A on Arabidopsis thaliana
Kiera Dunaway; Trinity Christian College

Kiosk: 55A
The Role of dHb9 Expressing Motor Neurons in the Eclosion Behavior
David Conway, Joseph Conway, Catherine Lok; Miami University

Kiosk: 55B
The Roles of Endocannabinoids and Their Chemical Relatives in Regulating Drosophila melanogaster Metabolism
Ruth Bishop; University of Alabama
**Poster Session 2**

**Kiosk: 55C**  
Using Germline Markers to Understand Genomic Rearrangement in Lamprey  
Sarah Whelan; University of Kentucky

**Business/Finance/Accounting**

**Kiosk: 15B**  
Perceptions that Drive Cloud-Based Application Adoption Decisions by Students and Faculty  
Abigail Habeck, Adam Revak; University of Wisconsin, Eau Claire

**Cell & Molecular Biology**

**Kiosk: 1B**  
3D Dynamic Model of the Switch I and II Regions of H-RAS Using Shape Memory Material  
Summer Hoskins; University of Wisconsin, Whitewater

**Kiosk: 15C**  
Assessing Pro-Inflammatory Biomarkers as Early Indicators of Influenza Disease  
Makda Gebre; Utah State University

**Kiosk: 16A**  
Differentiating Molecular Subtypes of Breast Cancer Using High-Frequency Ultrasound  
Caitlin Carter; Utah Valley University

**Kiosk: 16B**  
Expression of Non-Coding Trinucleotide Repeats in a Mouse Embryonic Stem Cell Model of Myotonic Dystrophy  
Michael Krueger; University of Wisconsin, Stout

**Kiosk: 16C**  
Heme Iron Causes Cytotoxicity to Vascular Endothelial Cells Through Oxidant Lipid Signaling: Protection By Novel Lipophilic Thiol Chelator Drug and Implications Toward Treatment of Sickle Cell Disease  
Yizhou Wu; Ohio State University

**Kiosk: 56B**  
Multiplex Polymerase Chain Reaction Assignment of Community and Hospital Acquired Methicillin-Resistant Staphylococcus aureus Isolates from Ecuador, SA  
Justin Mabin; University of Wisconsin, Eau Claire

**Kiosk: 56C**  
Role of OV3 in sensitivity to antiestrogens  
Vlad Popescu; University of Minnesota, Duluth

**Chemical Engineering**

**Kiosk: 17A**  
Electrochemical Measurement of Toxic Metal Contaminants in the Waters of Golden Triangle Area  
Progga Chirontoni; Lamar University

**Chemistry**

**Kiosk: 17B**  
19F-NMR as a Reaction Monitor of 7-methoxy-4-trifluoromethylcoumarin conversion to 7-hydroxy-4-trifluoromethylcoumarin by CYP19A1  
Samantha Zukowski; Adelphi University

**Kiosk: 17C**  
Antioxidant Activity in Different Forms of Hops  
Jennifer Popernack; College of St Scholastica

**Kiosk: 18A**  
Characterization of Peptide 1 within the Metal Binding Domain of SlyD  
Tara Bjorklund; University of Nebraska, Kearney
Kiosk: 18B
Development of a Multi-purpose Electrospray-Electron Impact Tandem Mass Spectrometer
Cody Hill; Humboldt State University

Kiosk: 18C
Effect of Heme Electron Density on the Nitrite Reductase Activity of Myoglobin
Amanda Stetz; Penn State Erie, The Behrend College

Kiosk: 57C
Examination of pH and the electric field in simultaneous chromatography and electrophoresis.
Brae Petersen, Tim Rose, Kishor Prasain; Brigham Young, University-Idaho

Kiosk: 58A
Identification of multisubunit complexes containing the S. cerevisiae bud neck ring protein Elm1p
Hunter Hoffman; Susquehanna University

Kiosk: 58B
Investigating the Conformational Preferences of Aromatic Oligoureas using Substituted N,N'-Diphenylurea Compounds
Amanda Pawlowski; Penn State Erie, The Behrend College

Kiosk: 58C
Mitochondria Targeting Nitrone Antioxidants To Treat Degenerative Diseases
Ana Villegas; Florida International University

Kiosk: 59A
Optimization of Iron Oxide Nanoparticles by Density Gradient Centrifugation and Surface Modification
Daniel Bakke; University of Minnesota,Twin Cities

Kiosk: 59B
Preparation of Ketones Using a Catalyst and an Oxidant from Alkynes
Kathryn Sauka; Penn State Erie, The Behrend College

Kiosk: 59C
Radical combination of H2S and HCFCs followed by HF and HCl elimination
Sam Rossabi, Kylie Smith; University of North Carolina, Asheville

Kiosk: 60A
STUDIES ON THE TOTAL SYNTHESIS OF AMPHIDINOLIDE C
Xuan Wu; Ohio State University

Kiosk: 60B
Katherine Savell; University of Montevallo

Kiosk: 60C
Synthesis of Metal-organic Frameworks for Peptide Adsorption Studies
Magen Nivison, Maryanna Kroska; University of Minnesota-Morris

Kiosk: 61A
Synthetic Efforts of Natural Product NA22598A1 Isolated from Streptomyces species NA22598 and the Discussion of its Biological Effects
Florence Fernandez; University of Utah

Kiosk: 61B
Thermoreversible Gelation of Polycaprolactone in Dimethylformamide
Joseph Monaghan; King's College

Communications

Kiosk: 19A
A Cultural Comparison of the Impact of Community Involvement on Happiness: USA and Lebanon
Christine Miller, Lydia Wathen, Christine Miller, Haley Donahue; Hope College

Kiosk: 61C
Forming Romantic Relationships
Elizabeth Fox; University of Kentucky

Computer Science

Kiosk: 19B
A Dynamic Faceted Search Interface for PubMed
Ogenna Esimai; University of Texas, Arlington
Poster Session 2

Kiosk: 19C
Determining Proximity Through High Frequency Emission and Detection
Christine Dierk; Elon University

Kiosk: 62A
Microenterprise Sustainability: The After-Effect of ICT Adoption and Use
Joseph Jackson; State University of New York, Brockport

Kiosk: 62B
Reward-Selective Propagation Cascade Model
Tyler Olson; Saint John's University

Kiosk: 62C
Utilizing Python for Computational Thinking in University Physics
Samuel Adeogun; Fisk University

Criminology

Kiosk: 1C
A proposed method and application of techniques to retrieve latent fingerprints from post-blast improvised explosive device situations
Fadi Hijaz; Virginia Commonwealth University

Kiosk: 20A
Family Ties: Exploring Familial Relationships for Individuals with a Felony Conviction
Vanessa Lopez; Marquette University

Diversity Studies

Kiosk: 20B
Afro-Colombian Exclusion and the Feasibility of Affirmative Action Policies
Rachel Crooks; Florida State University

Ecology & Organismal Biology

Kiosk: 20C
Assessing Bat Activity Across the Northern Tier of Yellowstone National Park
Mary McKenna; University of Kentucky

Kiosk: 21A
Fossil Mammals from the Ancient Mojave: Tracking Faunal and Environmental Change
Molly Moroz; University of Michigan

Kiosk: 63A
The Effects of Pack Density on Territorial Responses to Simulated Intrusion by Gray Wolves (Canis lupus) in the North Central Forests of Wisconsin
Sarah Wyrick, Phillip Pieper; University of Wisconsin, Whitewater

Economics

Kiosk: 21B
Are For-Profit Hospitals Bad For Your Health?
Victoria Bonisese; Lafayette College

Kiosk: 21C
Faulty Financial Reporting: The Evolution of Earnings Restatements
Abby Floyd-Jones; Lafayette College

Kiosk: 22B
The Effects of Political Crises Events on the Venezuelan Bolivar
Daniel Schwindt; Wake Forest University

Education

Kiosk: 2A
A Modern Version of Harvard Project Physics’s Determining the Orbit of Mars Experiment
Lance Kush; University of Nebraska, Kearney

Kiosk: 22A
Comparing Anatomy and Physiology Stretch to Human Biology...Which is more successful?
Jamie Cousineau; Vermont College

Kiosk: 22B
From Worst to First: A Phenomenological Study of One School’s Story of Change
Elizabeth Dow; Northern Michigan University
Kiosk: 22C
Perceptions of Latino High School Students on Parental and High School Support for Higher Education Preparation
Megan Guerra, Christianna Snyder, Daniela DeSousa Arocha; Milligan College

Kiosk: 63C
The Educational Experiences of Latinas in Higher Education
Carmencita Navarro; San Jose State University

Kiosk: 64A
Through the eyes of teachers: Benefits and challenges of implementing blended learning in a public school district
Carolyn Miesen, Kimberly Filer, Mathew Rearick; Roanoke College

Electrical Engineering

Kiosk: 2B
Allan Richmond Morales; The George Washington University

Kiosk: 23A
Mobile Technology for STEM Education
Matthew Reader; North Carolina Agricultural and Technical State University

Environmental Studies & Sciences

Kiosk: 23C
Assessing the Impacts of the Lake Muhlenberg Dam: Physical, Chemical and Biological Effects
David Siepietowski, Dana Fineman, Rachel Johnson; Moravian College

Kiosk: 24A
Effects of temperature and precipitation anomalies in a specific winter/summer on the corresponding summer/winter
John Troutman; California University of Pennsylvania

Kiosk: 65B
Nitrogen content of lichens as an indicator of inversion-based deposition
Brianna Palmer; Utah State University

Kiosk: 65C
Solutions for Wastewater Treatment in Poor Rural Mining Communities
Ariel Ward, Ahnna Beruk; Howard University

Kiosk: 66A
University of Wisconsin- River Falls Green House Gas Emission Sources
Daniel Saunders; University of Wisconsin- River Falls
Geography & Earth Sciences

Kiosk: 3B
A Stratigraphical Analysis of the Tremaine Site: Erosional Processes Preserving Oneota Remains
Spencer Kawell; University of Wisconsin, La Crosse

Kiosk: 24C
Examining microbial diversity in a Paleocene Wilcox Group Coal from Texas
Sharon Brooke; Morehead State University

Kiosk: 25A
Mineralogy and geochemistry of Saharan dust from marine cores
Mollie Pope; Western Kentucky University

Gerontology

Kiosk: 4A
Effects of Yoga on Measures of Stress, Exhaustion, and Physiological Function in Healthy Elderly Individuals
Katherine Tilton, Nicole Eickholt, Eric Lindahl; Hamline University

Health Sciences & Public Health

Kiosk: 25B
Access for All: Higher Education Accessibility for Europeans with Disabilities
Thomas Bouril; Northern Illinois University

Kiosk: 25C
Body Image Disturbance and Self-Perception in Young Adult Women
Hannah Lerner; Emory University

Kiosk: 26A
Effects of Salamba Sirsasana on Heart Rate Variability in Advanced Yoga Practitioners
Steven Munassi; Loyola Marymount University

Kiosk: 26B
Factors Associated with Failing to Seek Medical Care for Vulvar Pain
Katherine Kelsey; University of Minnesota, Twin Cities

Kiosk: 26C
Model of Cost-Effectiveness of MRI for Women of Average Lifetime Risk of Breast Cancer
Mckenna Kimball; Dominican University of California

Kiosk: 66B
Sophomore = Wise Fool? The Examination of Alcohol Consumption Throughout Class Years
Victoria Xidas; Miami University

History

Kiosk: 4B
“I carry War in my right hand and in my left Peace”: George Rogers Clark and the Illinois Country Middle Ground during the American Revolution
Mark Stanford; Eastern Illinois University

Kiosk: 27A
Foreign Memories of a Chinese Tragedy: the Nanking Massacre through Western Documents and Eyewitness Accounts
Zi Yang; George Mason University

Kiosk: 27B
The Portrayal of Women Slaves
Renee Fuchs; Adelphi University

Interdisciplinary Studies

Kiosk: 4C
Accuracy of Visual Depth Perception in an Open Field
Lauren Beck; Susquehanna University

Kiosk: 27C
The Economic Role of the Mexican Sweatshops: Exploitation or Saving Grace?
Charla Henley; Roanoke College

Kinesiology & Exercise Science

Kiosk: 5A
ASSOCIATION BETWEEN POSTURE AND PULMONARY FUNCTION IN MIDDLE AGE AND OLDER ADULTS
Katherine Doro, Molly Heiman, Abigail Berens; University of Wisconsin, Eau Claire
Kiosk: 28A
Female mice serum parameters are not affected by controlled exercise during pregnancy
Christa Childers; University of Kentucky

Kiosk: 28B
The Effect Of Hamstring And Ankle Plantar Range Of Motion On 50-Yard Flutter Kick Performance Time
Laura Drake, Elliot Hoekstra; Gustavus Adolphus College

Kiosk: 28C
The Kinematic Analysis of the Effects Using Different Stretching Protocols Before Executing an Instep Soccer Kick. Rachael Lewin; University of Kentucky

Law & Legal Studies

Kiosk: 5B
"ECONOMIC DEVELOPMENT" OR "PUBLIC USE": FIVE SUPREME COURT JUSTICES DEVELOP AN UNJUST PRECEDENT TO USE AND ABUSE THE SYSTEM
Cole Mizak; Sierra Nevada College

Linguistics & World Languages

Kiosk: 29A
Tongues from Across the Mediterranean: The Influence of Classical Arabic on Spanish Phonology
Erica Mattingly; University of Kentucky

Literature

Kiosk: 5C
"Where Do You Think Fortune Cookies Come From?": Aphorisms, Ethnic Stereotypes, and Feminine Wisdom in M. Butterfly
Judith Lavelle; Wells College

Management

Kiosk: 6A
Business Intelligence in Higher Education Administration
Carson Cone, LaShaude James; University of North Carolina, Pembroke

Mathematics

Kiosk: 6B
A Cognitive Hierarchy Model of Economics Students
Callie Mettie; Eastern Washington University

Kiosk: 29B
Mathematical Modeling of Dynamic Social Processes
Alexandra Zeller; George Mason University

Kiosk: 29C
Using Euclid’s Theorems to Minimize Skin Grafts in the Operating Room
Emily Thren; Gettysburg College

Media Studies

Kiosk: 6C
Comparison of Australian and US Newspaper Coverage of Female Athletics
Madison Hibshman; University of Portland

Microbiology & Immunology

Kiosk: 7A
A four-year assessment of soil bacterial diversity in SW Pennsylvania
Christine Dee, Christopher Casagrande; Washington and Jefferson College

Kiosk: 30A
Isolation and Screening of Soil Bacteria for Polycyclopropanated Fatty Acid Production Genes
Katherine Savell; University of Montevallo

Kiosk: 30B
The Effect of Endothelial Monocyte-Activating Polypeptide II on the Capacity of Dendritic Cells to Attract T-cells
Amber Washington; Oklahoma State University

Music Original Composition

Kiosk: 7B
Marching Percussion: The Art of Creative Redesign
Elizabeth Renaud; Albion College
Neuroscience

Kiosk: 30C
Attenuation of Methamphetamine Induced Microglial and Astroglial Activation by Leptin
Vartan Pahalyants; Hunter College

Kiosk: 31A
Effect of Age on Sexually Dimorphic Expression of Selected Sex Chromosome Genes in the Mouse Cortex and Hippocampus
Debbie Moreira; California State University - Long Beach

Kiosk: 31B
How Pre-exposure to Cocaine Affects Adult Behavior and Physiology in Zebrafish
Ana Espinoza, Robert Longie, Shelby Poitra; Arizona Western College

Kiosk: 31C
Opioidergic Modulation of Mitral Cells in Accessory Olfactory Bulb Processing
Abigail Alexander; Bates College

Kiosk: 32A
Testing L-Type Calcium Channel Effects on Brain Stimulation Reward in the Sublenticular Central Extended Amygdala
Alex Schultz; University of Wisconsin, Whitewater

Kiosk: 32B
The Role of a Serotonin Transporter Gene Polymorphism in Relation to Novelty Seeking and Risky Sexual Behavior
Desirae Wood, Houda Nizam; Weber State University

Nursing

Kiosk: 7C
A Description of BSN Students’ Beliefs about Birth Before and After OB Clinical Rotations
Rebecca Meyer; University of Alabama in Huntsville

Kiosk: 8A
Association of Biological and Self-Reported Stress Measures with Cardiovascular Disease and Risk Factors Among Adults with Type 2 Diabetes
Valerie Gideon; Ohio State University

Kiosk: 32C
Breast Health Needs of African American Women Less than 50 Years of Age: Assessment of Breast Awareness and Breast Cancer Screening
Shelby Wester; University of Wisconsin, Milwaukee

Kiosk: 33A
Emotional Eating and Visual Food Records
Winter Chambers; Lubbock Christian University

Kiosk: 33B
Function of auricular point acupressure in inducing changes in inflammatory cytokines during chronic low back pain: A pilot study
Shreya Bhatnagar, Teika Takedai; University of Pittsburgh School of Nursing

Kiosk: 33C
Medication regimen complexity and medication management errors in caregivers of older adults with memory loss living in the community
Erica Wolf; University of Pittsburgh School of Nursing

Kiosk: 34A
Pre-Health Majors Perception of Inter-Professional Collaboration
Jessica Hechsel; Gustavus Adolphus College

Kiosk: 34B
The Association of Perceived Exercise Barriers and Physical Activity in Adults with Type 2 Diabetes
Jennifer Mai; University of Pittsburgh School of Nursing

Philosophy & Ethics

Kiosk: 8B
Problems with the Protection Model for Biomedical Research and Potential Solutions in the Access Model
Tatiana Cody; Eastern Kentucky University

Physics

Kiosk: 8C
Analysis of Untriggered Small Events in the HAWC Telescope
Ian Sohl; University of Utah
Kiosk: 34C
Growth and Characterization of AM~2Ru4O11 Single Crystals (A = Sr, Ba; M = Co, Fe, Mn, Ni)
Eric Teipel; University of Kentucky

Kiosk: 35A
Molecular dynamics simulation of electrodes for capacitors made with nano-onions
Jordan Caraballo Vega, Frances Martinez Miranda; University of Puerto Rico at Humacao

Kiosk: 35B
Riemann Track Finder Algorithm on GPUs for PANDA
Jonathan Timcheck; Ohio State University

Kiosk: 35C
Using VPython Modeling to Design the Magnetics for an Artificial Cilia Platform
Jacob Brooks; High Point University

Kiosk: 36A
Respiratory Physiology for Second Graders
Jennica Hipes, Taylor Artley, Carson Moesle; Indiana State University

Kiosk: 36B
Damaging Media and the Weary Public: An Analysis of Political Participation in an Increasing Polarized Electorate
Walker Yanarella; University of Kentucky

Kiosk: 36C
Opposites Attract: How NGO Penetration Affects Repression
Ashley Palin; Northern Illinois University

Kiosk: 37A
The United States: A Benevolent Intervener?
Matthew Lane; University of Kentucky

Psychology

Kiosk: 10A
An Analysis of Personality and Neurocognitive Correlates of Internet Addiction
Peter Krause, Taralynn Balingit, Bryan Kitagawa, Brian Ortiz, Gina Hernandez, Kimmy Kee; California State University Channel Islands

Kiosk: 37B
Authenticity and Time Use
Jaime Haines; University of Wisconsin- River Falls

Kiosk: 37C
Caregiver Reaction to Placement Scale: A New Instrument to Assess Caregiver Emotional Functioning Following Nursing Home Placement
Joshua Taylor; University of South Alabama

Kiosk: 38A
Community connections workshops: Helping children and families with the transition to kindergarten through parental engagement and community support.
Jodie Lawlor; Carleton University

Kiosk: 38B
Discrepancies Between Implicit and Explicit Self-Esteem And Well-Being: The Role of Negativity Biases
Nelson Zounlome; Indiana University

Kiosk: 38C
Effects of D-Amphetamine Sensitization on Sprague-Dawley and Spontaneously Hypertensive Rat Acquisition and Preferred Strategy of Learning
Melanie Vassallo, Emily Bates; James Madison University
Examining the association between the duration of untreated psychosis and symptom severity in a Mexican outpatient sample
Faviola Valdez; University of Wisconsin, Milwaukee

Gender differences in mental and physical health outcomes of drug treatment court participants
John Wilson; University of Rochester

Human Trafficking: University Students’ Attitudes Toward Victims
Kayla Volbrecht, Megan Overstreet, Courtney Berquist; University of Wisconsin, Eau Claire

Intrinsic Motivation for Equine Assisted Therapy Measured Through Engagement and Autonomy
Kendall Tadych, Haley Bray; St Norbert College

Justification for Stimulant Drug Uses and Likeability of College Students
Eileen Borczon; Xavier University

Navigating the Health Care System: Strategies and Resources of Parents with Transgender and Gender-Nonconforming Children
Rebecca Wesseh; Miami University

Parental Warmth and Psychopathy
Ashley Nienhuis; Eastern Washington University

Political Values versus Mental Health Status: Identifying the More Salient Predictor of Favorability
Yekaterina Pavlopoulos; North Central College

Reflecting the Image of God: An Examination of Spirituality's Influence on the Expression of Negative Health Behaviors in College Students
Mathew Giffin; Miami University

Sex Differences in Cocaine-Induced Sensitization in Japanese Quail
Emily Edmiston; University of Kentucky

Stereotype Spillover Effects on Women in Mathematics
Laura Jensen, Rachel Unruh; Bethel College

The ABCs of Environmentalism: Does Affect or Cognition Cause Pro-Environmental Behavior?
Jennifer Cole; Rice University

The Effect of Parental Food Rule Perceptions on Young Adults’ Food Choices and BMI
Jennifer Bennis; Millersville University

The Effects of Procrastination on Self-Esteem
Leah Ruiz; Eastern Washington University

The King-Devick Test as a Predictor of Long-Term Cognitive Effects Post-Concussion
John Bernstein; University of Rochester

The Relationship between Shyness and Academic Success
Kayla Fouraker; Jacksonville University

Undergraduate Students’ Self-Report of Depression and/or Anxiety and the Utilization of Campus Resources
Brittany Heilman; College of St Scholastica

The Relationship Between College Students’ Connectedness to Nature, Quality of Life, and Stress
Hannah Shields; Carthage College
Social Work

Kiosk: 44C
Perceptions of Health-related Family Quality of Life Among Breast Cancer Survivors with Radiation Induced Brachial Plexopathy
Mallory Waters, Anjana Jagpal, Antoinette Lentz, Briana Deer; Miami University

Sociology

Kiosk: 10C
Are student evaluations of teaching a measure of non-cognitive skills? The link between student opinion of teaching and academic achievement.
Alexandra Martin; St Norbert College

Kiosk: 11A
Professional Helpers: Parents with Cognitive Disabilities
Laura Hanson; University of Wisconsin, Stout

Kiosk: 45A
Social Perception of Qatari Women Marriage to Foreigners
Noora jobran; Qatar University

Kiosk: 45B
The Male Perspective on a Lasting Marriage
Amy Loberg, Ashley Glover; University of Wisconsin, Stout

Women and Gender Studies

Kiosk: 11B
Correlation between Rape in the American Armed Forces and the U.S. Judicial System and the Development of Rape Normalization in the U.S.
Kristina Soriano; Virginia Commonwealth University

SESSION 3

Anthropology & Archeology

Kiosk: 11C
Comparing Virulent Breast Cancer Types in Sub-Saharan African Women and Women of African Descent
Thomasina Watts; Indiana University-Purdue University Indianapolis

Kiosk: 45C
Here There Be Monsters
Dovie Jenkins; Wayne State University

Architecture & Interior Design

Kiosk: 3C
A Statistical Analysis of the Influences on Historical Property Ownership in Oklahoma
Jessica Sanders, Ariel Webb; University of Central Oklahoma

Kiosk: 12A
Redefining Ergonomics: Helping Students Achieve the Best
Christopher Wilson; Western Carolina University

Astronomy

Kiosk: 12B
Building a New Small Radio Telescope
Bryan Cardwell, Amy Damitz; North Central Col

Biochemistry

Kiosk: 12C
Analysis of substrate binding and catalytic activity of phosphorylated Fyn mutants and wt Fyn
Giovanna Stein; Norwich University

Kiosk: 46B
Characterizing how annexin A1, A2, and dysferlin bind to and repair muscle membrane
Spencer Kruggel; University of Minnesota,Duluth

Kiosk: 46C
Development of a Protein-Based System for the Detection of Organophosphates Using the pH Dependence of Enhanced Green Fluorescent Protein
Ashlyn Henson; Appalachian State University
Kiosk: 47A
**HDAC3 is Necessary for Thymopoesis**
Nicholas Klus; Sewanee

Kiosk: 47B
**Interaction of RNA Binding Proteins with the Long-Noncoding RNA, SRA, an Estrogen Receptor Activator**
Aaztl Coria; Maryville University Saint Louis

Kiosk: 47C
**Preparation of a Recombinant Enzyme of the Fungus Phanerochaete chrysosporium for the Breakdown of Agricultural Waste for Biofuel Production**
Joshua Thomas; Lubbock Christian University

Kiosk: 48A
**The cardiovascular effect of Fgf23 in chronic kidney disease**
Tyler Unsicker; Indiana University-Purdue University Indianapolis

Kiosk: 48B
**Toward crystallizing proteins from NMDA receptor in complex with toxins from marine snails**
Bianca Rich; University of Utah

**Biological Engineering**

Kiosk: 13A
**Calibration of a Spectroscopy Imaging System for Intraoperative Brain Tumor Demarcation**
Lashawnta Goss; Florida International University

Kiosk: 13B
**Development of Thin Film Barriers Using Circumallergenic Guayule Natural Rubber Latex**
Spencer Gardner; Ohio State University

Kiosk: 48C
**Optical Sprayer Nozzle Discharge Sensor**
Luke Bryant; University of Kentucky

**Biology**

Kiosk: 13C
**A MATHEMATICAL MODELING AND SIMULATION OF BONE REMODELING CONTROL MECHANISM**
Sobyuk Son, Sangil Yi, Jooyoung Lee, Youna Lee, Anna Kang; Minnesota State University, Mankato

Kiosk: 14A
**Alleviation of Pain Associated with Disbudding**
Amanda Mathias; Oklahoma State University

Kiosk: 14B
**Analyzing Rhythmic Gene Expression in the Embryonic Kidney and Eye of Xenopus laevis**
Elizabeth Campbell; University of Wisconsin, Whitewater

Kiosk: 14C
**Assessment of the Microbial Community in the Siem Reap River, Siem Reap, Cambodia.**
Amanda Kutok, Minh Lam, Shelby Eanes; Bridgewater State University

Kiosk: 15A
**Breast Cancer Cell Response to Telomere Loss**
Teressa Pauelsen; University of Utah

Kiosk: 49A
**Characterization of hAT Transposons in the C. cinerea genome**
Kendra Boyd; Roanoke College

Kiosk: 49B
**Classification of Uncharacterized Zebrafish Genes Expressed in Kupffer's Vesicle**
Krista Ellis; Longwood University

Kiosk: 49C
**Conservation genetics of the black redhorse in northeast Iowa**
Nicole Miller; University of Northern Iowa

Kiosk: 50A
**Effects of Acetaminophen, Caffeine, and Tetracycline on Photosystem II Activity in Lemna minor**
Sarah McElligott; Kentucky Wesleyan College

Kiosk: 50B
**Erythropoietin Levels in Rats Exposed to Smoke and Exercise**
Sarah Krause; University of Nebraska, Kearney

Kiosk: 50C
**Examining the Relationship between Particulate Matter, Nitrogen Oxide, Carbon Oxides, Sulfur Dioxide and Hypertension in Urban Areas in India**
Hiren Kolli; Virginia Commonwealth University
Kiosk: 51A
Identification of Lake Superior microbial communities through 16S rRNA sequencing
Sher Her; College of St Scholastica

Kiosk: 51B
Inbreeding Avoidance in N. Lecontei
Katherine Harper; University of Kentucky

Kiosk: 51C
Investigation of Ocean Sunfish, Mola mola, strandings on the shores of Cape Cod, MA.
Christine Fallon; Bridgewater State University

Kiosk: 52A
Micropropagation Studies of Calochortus Species
Maria Velasco; Utah Valley University

Kiosk: 52B
Nodulation of Invasive Vetch (Vicia sativa) by Rhizobia Isolated from Nodules of Native Vetch (Vicia americana)
Sydnee Rausch; University of Wisconsin, Milwaukee

Kiosk: 52C
Potential use of Nonvisual Cues for Predation in Jackson's Chameleons
Randy Cheung, Alyssa Smith, Danielle Clark; SUNY Geneseo

Kiosk: 53A
Reflections of Dental Health at Medieval Polystylon: Contributions of Forensic Odontology
Jee Sun Kim, Ji hyun Lim; Adelphi University

Kiosk: 53B
Seed characteristics of Schizachyrium scoparium (Poaceae) along geographical gradients
Elizabeth Marshall; University of Minnesota, Duluth

Kiosk: 53C
Sox11 Regulates Expression of Neurogenic Factors Involved in Retinal Cell Fate Specification
Mallika Gopalaiahgari; University of Kentucky

Kiosk: 54A
Temperature and LDH activity in the Atlantic killifish
Amanda Biederman; Salisbury University

Kiosk: 54B
THE EFFECTS OF MISFOLDED PROTEIN STRESS ON DIFFERENT CELL TYPES IN C. ELEGANS
Shvan Kareem; James Madison University

Kiosk: 54C
The Hunt for Agmatine Receptors on Macrophages
Jacelyn Peabody; Carthage College

Kiosk: 55A
The Role of DNM1 in Mitochondrial Genome Stability in Budding Yeast
Amber Altrieth; State University of New York, Brockport

Kiosk: 55B
Using the Brine Shrimp Test to Compare Acetogenin Activity in Twig and Ripe Fruit of Six Pawpaw [Asimina triloba (L.) Dunal] Varieties.
Rebecca Graves; Kentucky State University

Business/Finance/Accounting

Kiosk: 15B
The Effects of Student Organizational Commitment on Withdrawal Cognitions at Wittenberg University
Megan Loofbourrow, Ana Paula Veiga; Wittenberg University

Cell & Molecular Biology

Kiosk: 15C
Assessment of cellular toxicity of a potential immunoadjuvanticity of Phytanyl sulfate
Rin Reeves; Indiana State University

Kiosk: 16A
Effects of Treatments on Hepatocellular Carcinoma Growth
Zachary Howard; Northern Illinois University
**Poster Session 3**

| Kiosk: 16B | Finding the PARP-etrator: An analysis of the roles of PARP and Caspase-3 in Retinoblastoma  
| Brittany Townley; Bridgewater State University |
| Kiosk: 16C | HISTONE MODIFICATIONS ARE ALTERED IN THE RENAL CORTEX OF VENTILATED PRETERM LAMBS  
| Adam Blair; University of Utah |
| Kiosk: 56A | Localization Studies of Uncharacterized Mitochondrial Protein SLC25A46  
| Andrew Mathison; University of Wisconsin, Whitewater |
| Kiosk: 56B | Murine myoblast transfected with VCP-R155H and VCP-A232E display sustained NFκB nuclear localization after LPS treatment  
| Julio Flores; University of California - Merced |
| Kiosk: 56C | Role of proteasome-dependent degradation of Ephexin 5 in activity-induced spine formation  
| Sina Dadafarin; University of California, Davis |
| Kiosk: 57A | The Effects of Geography and Disease Incidence on Mutation Rates of Chinese HIV-1 vif Genes  
| Brittany Lawrence; Winthrop University |
| Kiosk: 57B | Tissue Freezing & Vibration  
| Matthew Welch, Fritz Stolle; Dominican University of California |

**Chemistry**

| Kiosk: 17B | A Green Synthesis of Halopyridine Bicycles Related to Phantasmidine  
| Anna Walls; Indiana State University |
| Kiosk: 17C | Aromatic-Aromatic Interactions of Complex Ions  
| Sheldon McLetchie; University of Kentucky |
| Kiosk: 18B | Development of an Undergraduate Chemistry Experiment Synthesizing CdTe and CdSe Quantum Dots and Fabricating a Working Solar Cell  
| Kathryn McHenry; Black Hills State University |
| Kiosk: 18C | Effects of Dissolution of Biomass in Ionic Liquids Using Direct Analysis in Real Time (DART) Mass Spectrometry  
| Casey Howdieshell; Eastern Kentucky University |
| Kiosk: 57C | Exploring Linker Length as a Method to Increase Protein-pPEGA Conjugation Yield  
| Peter Nauka; University of California, Los Angeles |
| Kiosk: 58A | Identification of Synthetic Organic Pigments in Works of Art  
| Samuel Peterson, Samuel Peterson; United States Naval Academy |
| Kiosk: 58B | Investigating the Electropolymerization of Ferriprotoporphyrin for Electrocatalytic Applications  
| Chris Alverson; Penn State Erie, The Behrend College |
| Kiosk: 58C | NKU Fullerene Research: Continued innovations in the synthesis of novel ligands to connect fullerene and transition metal subunits for supramolecular applications  
| Zachary Ewing, Emma Jones, Corrine Basinger, Chad Beneker, Jessica Horn, Hanna Hearn; Northern Kentucky University |
Kiosk: 59A
Optimization of the Suzuki polymerization reaction for thiophene-containing monomers with electron-deficient coupling partners
Ethan Hull; Appalachian State University

Kiosk: 59B
Principles of Bipolar Superposition
Dimitri Leggas; Western Kentucky University

Kiosk: 59C
REGIOSELECTIVE RING OPENING OF EPOXIDES WITH DILITHIUM TETRAHALOCUPRATES USING AQUEOUS AND SOLVENT-FREE CONDITIONS
Yoliem Miranda-Alarcón; Fordham University

Kiosk: 60A
Study of the effects of chemical etchants on the quality of silver nanowires grown on periodically poled lithium niobate
Jade Snow; University of North Carolina, Asheville

Kiosk: 60B
Synthesis and Structural Characterization of Photochromic Platinum(II) Complexes
Mallory Prylinski; Penn State Erie, The Behrend College

Kiosk: 60C
Synthesis of novel tridentate ligands for use in targeted chemotherapeutic drug delivery mechanisms.
Carrie Black Johnson; Eastern Kentucky University

Kiosk: 61A
Teratology of Xanthine Derivatives
Catelyn Steinmueller; University of Wisconsin- River Falls

Kiosk: 61B
Time-dependent Chemical Modeling of Interstellar Nitrogen Bearing Organic Molecules
Allison Durr; Eastern Kentucky University

Kiosk: 61C
Keeping Your Distance- The Effects of Clothing on Personal Space and Touch
Daniel Nelson; University of Wisconsin- River Falls

Computer Science

Kiosk: 19B
A Genetic Algorithm for Evolving DNA Sequences
Kendra Klocke, Abby Lantzky, Kyle Reimers; Simpson College

Kiosk: 19C
Developing a Virtual Collator to Aid Scholarly Edition
Ryan Olivieri; Texas A&M University, College Station

Kiosk: 62A
Mining Force Fields Using Graph Embeddings
Radamés Vega-Alfaro; University of Puerto Rico at Humacao

Kiosk: 62B
Segmental overlay of the algorithms of the brain: A computational model of the visual system
Scott Boyd; Minnesota State University, Mankato

Kiosk: 62C
WEB-BASED MIDDLEWARE FOR PROTEIN ANNOTATION
Samuel Adeogun; Fisk University

Criminology

Kiosk: 20A
Police Corruption in South Africa and the United States: A Cross-Cultural Comparison
Mary Hughes; Western Carolina University

Dance

Kiosk: 1C
Body Image and Eating Disorders in the World of Ballet
Lindsey Gasper; California University of Pennsylvania
Ecology & Organismal Biology

Kiosk: 20C
Comparison of Ovitrap Types in Collecting Eggs of Mosquito Species Oc. triseriatus, Oc. japonicus, and Ae. albopictus
Sabrina Ferrara; Stonehill College

Kiosk: 21A
Gene flow and Dispersal In Central U.S. Populations of Canis latrans
Robert Duncan; Maryville University Saint Louis

Kiosk: 63A
The effects of row covers on arthropod communities in a cucurbit agroecosystem
Sarah Barney; University of Kentucky

Economics

Kiosk: 21B
Banking Employment in the early Twenty-First Century: Regional Effects of Consolidation
Derrek Grunfelder-McCrack; University of Wisconsin, Whitewater

Kiosk: 21C
Foreign Direct Investment in the Middle East: Trends and the Effects of Regional Political Instability
Camille Ridgeway; University of Wisconsin, Milwaukee

Kiosk: 63B
The Financial Role of Agents in College Athletics and NCAA Sanctions
Matthew Seeman; Eastern Washington University

Education

Kiosk: 2A
Assessing Student’s Learning Gains in General Education Science classes
Tyler Fabian; George Mason University

Kiosk: 22A
Conceptualizing Student Achievement and TFA Training: An Examination of Quantitative and Qualitative Aspects of Student Achievement; Experience, Discussion, and Reflection in Teacher Training
Courtney Hemker; Grinnell College

Kiosk: 22B
Gender Equity in University Students’ Decision-Making on Teacher Evaluations in Dubai
Hamda Al Ansari; Zayed University

Kiosk: 22C
Preventative Programs for Bullying of LGBTQ Youth
Lauren NCUR® 2014 O’Hare; Capital University

Kiosk: 63C
THE IMPACT OF INTEGRATING SERVICE LEARNING IN AN ELEMENTARY SPECIAL EDUCATION CLASSROOM
Tori Lybber; Weber State University

Electrical Engineering

Kiosk: 2B
Development of Low Cost, Efficient CZTS Thin Films and Solar Cells
Denzell Barnett; Berea College

Kiosk: 23A
Optoelectronic Properties of CVD grown MoS2 Nanowalls
Ankit Sharma; University of Texas, Austin

Engineering/Engineering Technology

Kiosk: 2C
3D Print Construction: Researching and Modeling the Future of Construction
Ian White; Missouri Western State College

Kiosk: 23B
Comparison of Flexural Creep of Consumer and Industrial Grade 3D Printed Materials
Brandon Free; Miami University

Kiosk: 64A
From Bolts to Bytes: Recreating the Physical Machinery
Jeremy Beale; University of Kentucky

Kiosk: 64B
Internship: Human Robotic Interaction: Are robots dangerous?
Nathaniel Nuttall; University of Central Lancashire
Kiosk: 64C
Savannah Medlar; Norwich University

Kiosk: 65A
The significance of debriefing in HRO through conceptual recurrence plots.
Dong Yeob Kim, Sara Schumacher; Texas Tech University

Kiosk: 3A
Missing the Boat: International Law's Inadequacy to Protect and Defend the Rights of Seamen in Francisco Goldman's, The Ordinary Seaman
Constance Hackler; University of Florida

Environmental Studies & Sciences
Kiosk: 23C
Biosurfactants: A Greener Approach to Oil Remediation
Jessica Armstrong; Mercer University

Kiosk: 24A
Effects of Wetland Management on Carbon Storage in Soil
Jason Jung; University of the Pacific

Kiosk: 24B
Increasing Environmental Consciousness Through Motivational Factors
Haley Rabic; University of South Carolina

Kiosk: 65B
Nitrogen removal via denitrification in lotic ecosystems in Central Wisconsin
Bree Bender; University of Wisconsin, Stevens Point

Kiosk: 65C
Stand structure and composition in treatment areas following the 2012 Grand Fire
Gregory Black; Northern Arizona University

Kiosk: 66A
Usage and Excretion of ADHD and Anti-Depression Medications from College Students in Ithaca, NY
Kenneth Greiser; Ithaca College

Geography & Earth Sciences
Kiosk: 3B
A Synoptic-Dynamic Analysis of Cases of Major Underestimation of the Forecast Uncertainty
Carlee Loeser; Salisbury University

Kiosk: 24C
Experimental Study of Particle Settling Velocities
Wilmot Merchant, Marek Jendrassak; Coastal Carolina University

Kiosk: 25A
Origin of Methane and Other Hydrocarbons in Magmatic Systems
Cristian Virrueta; University of California, San Diego

Gerontology
Kiosk: 4A
Medical and Psychiatric Health Needs and Service Utilization of Older Homeless Veterans
LaDonna Gleason; University of South Florida

Health Sciences & Public Health
Kiosk: 25B
ACUTE EXERCISE ACTIVATES PULMONARY ENOS AND LOWERS PULMONARY PRESSURE IN RATS WITH PULMONARY ARTERIAL HYPERTENSION
Tsungai Chingombe; Indiana University-Purdue University Indianapolis

Kiosk: 25C
Body Image Perception in Adolescent Males
Jamie Erickson; University of Wisconsin, La Crosse

Kiosk: 26A
Efficacy of Inhaled Nitric Oxide (iNO) in the Treatment of Hypoxic Respiratory Failure in Neonates
Marissa Abbott; University of Rochester

Kiosk: 26B
Factors Influencing Educational Outcomes Among Adolescents in Northeast Peru
Anna Selby; University of Rochester
Kiosk: 26C
*Multiple Dimensions of Fitness - Predictors of Bone Mineral Density in Middle-Aged Women*
Brady Hansen; Weber State University

Kiosk: 66B
*STEPS TO A HEALTHIER HEART: IMPROVING CHD KNOWLEDGE IN AFRICAN AMERICAN WOMEN*
Tyranicia Spencer, Kayla Cummins; Winston-Salem State University

History

Kiosk: 4B
*Adaptation vs. Manipulation - A Comparative Study on the use of Environmental Warfare during the Korean and Vietnam Wars*
Hannah James; Samford University

Kiosk: 27A
*From College Girls to Housewives: Young Women's Role in Cold War Politics*
Julie Travers; Wheaton College - Massachusetts

Kiosk: 27B
*Using Preston's newspapers to understand Rural Lancashire 1840-1900*
Tyrone Moore; University of Central Lancashire

Interdisciplinary Studies

Kiosk: 4C
*Creation of kinetic model for learning gross anatomy*
Erica Malone, Michelle Pine; Texas A&M University, College Station

Kiosk: 27C
*The Effects of Classical Music on Perceived Stress and Physiologic Measures*
Olivia Reininger; Gustavus Adolphus College

Kinesiology & Exercise Science

Kiosk: 5A
*Association between the level of physical activity and hemispheric motor lateralization in elderly*
Jennifer Bambrough; University of Wisconsin, Milwaukee

Kiosk: 28A
*Flexibility and range of motion improvements in older adults after completing a 12-week, progressive, interval exercise program*
Luke Robertson, Zackary Duvall; Kentucky Wesleyan College

Kiosk: 28B
*The Effect of Metronome Tempo Pacing on One-Mile Run, Team Sport Athletes*
Grant Steine, Phillip Butler; Gustavus Adolphus College

Kiosk: 28C
*The relationship between trunk power, rotation and muscle endurance*
Grant Boggess; University of Kentucky

Linguistics & World Languages

Kiosk: 5B
*A natural contrast: NP parallelism in comparatives*
Benjamin Lee; Morehead State University

Kiosk: 29A
*Transfer from Second Language to Third Language: Role of Second Language in Third Language Acquisition*
Chen Zhou; State University of New York, New Paltz

Literature

Kiosk: 5C
*A Comparative and Psychological Analysis of Breaking Bad*
Joseph Morrell; Virginia Commonwealth University

Marketing

Kiosk: 6A
*Comparisons and Contrasts Between Marketing Techniques Used by the Tobacco Industry and Public Health Figures*
Dorothy Yen; Virginia Commonwealth University

Mathematics

Kiosk: 6B
*A Mathematical Model of HIV/AIDS with Stability Analysis*
Shayla Nolen; Fisk University
Poster Session 3

Kiosk: 29B
*Modeling the spread of white-nose syndrome in hibernating North American bats*
Sarah Bogen; Capital University

Kiosk: 29C
*Who Want to Play Sadisticube?*
Danica Baker; Bridgewater State University

Media Studies

Kiosk: 6C
*What Moves the Millennials? The Effects of Different Forms of Media on International Political Knowledge and Interest*
Jillian Laumbacher; North Central College

Microbiology & Immunology

Kiosk: 7A
*Antibiotic Resistance of Escherichia coli Isolated from the Feces of Playa Lake Resident Waterfowl*
Sara McBride; Lubbock Christian University

Kiosk: 30A
*Lymphocytes genetically engineered to express Anti-MAGE-A3 antigens provoke anti-propagating immune responses in malignant melanoma patients*
Sarah Algino; Virginia Commonwealth University

Kiosk: 30B
*The role of glutathione synthesis in the survival Group B Streptococcus post immunologically relevant oxidative stresses*
Poojan Parikh; Saint Louis University

Music Research and/or Analysis

Kiosk: 7B
*A Review of Recordings in Suzuki Book 1*
Ashley Hanke; University of Wisconsin, La Crosse

Neuroscience

Kiosk: 30C
*CHANGES IN EMPATHETIC REACTION IN RESPONSE TO MEDIA IN PRE-HEALTH STUDENTS AND HEALTH PROFESSIONALS*
Max George, Lisa Hornsby; Weber State University

Kiosk: 31A
*Effects of Orexin Receptor Antagonism on Drug- and Cue-Induced Methamphetamine Reinstatement (Relapse) in Adolescent and Adult Rats*
Torie Lepak; University of Minnesota, Twin Cities

Kiosk: 31B
*Intracranial Seizure Onset Zone Identification by Automated High-Frequency Oscillation Analysis in Patients with Intractable Epilepsy*
Michelle Reed; University of Utah

Kiosk: 31C
*Optimal Prediction of Moving Sound Source Direction in the Owl*
Weston Cox; Seattle University

Music Research and/or Analysis

Kiosk: 32A
*The Aryl Hydrocarbon Receptor and Notch Signaling Pathways Contribute to the Proliferation of Human Medulloblastoma Cells*
Zachariah Adham; University of Rochester

Kiosk: 32B
*The Role of Calpain 7 in Cell Death and Degeneration Following Traumatic Brain Injury/Spinal Cord Injury and other Neurological Diseases and Disorders*
Sibi Rajendran; University of Kentucky

Nursing

Kiosk: 32C
*Can Self-Perceived Health Status Predict the Level of Distress in Cancer Inpatients?*
Margaret von der Embse; Ohio State University

Kiosk: 33A
*Examining Undergraduate Research Opportunities in Schools of Nursing*
Rebecca Findle; University of Pittsburgh School of Nursing
Kiosk: 33B
GENE: Genetic Essentials in Undergraduate Nursing Education
Denzel Anderson, Rebecca Zobel, Marshall Pritchett, Elizabeth Hassen, Marshall Pritchett; Clemson University

Kiosk: 33C
Medication Regimen Complexity in Patients with Co-morbid Conditions
Leah Winner; University of Pittsburgh School of Nursing

Kiosk: 34A
Preparing the Future Workforce: A Pilot Survey of Hospital Nurse Leaders
Brooke North, Nicholas Jaeger; University of Wisconsin, Eau Claire

Kiosk: 34B
The Impact of Receiving Reiki on Nurses Compassion Fatigue and Compassion Satisfaction
Annetra Taylor; University of Louisville

Kiosk: 34C
HEATING EFFICIENCY OF NANOPARTICLES FOR MAGNETIC HYPERTHERMIA
Matthew Bausch; Elon University

Kiosk: 35A
Mu2e Extinction Monitor Testing at Fermilab
Ashlyn Shellito, Brandon Schabell; Northern Illinois University

Kiosk: 35B
Short Range Tests of Gravity
David Smith, Holly Leopardi, Crystal Cardenas, A. Conrad Harter; Humboldt State University

Kiosk: 35C
Wild Silk Based Biomaterials for Medical Applications
Justin Buchicchio; Rowan University

Physiology

Kiosk: 36A
Skeletal muscle deletion of Bmal1: potential for systems effects on molecular clock function
Alexander Christie; University of Kentucky

Kiosk: 36B
Disadvantage Deconstructed: African American Perceptions of Success Prospects
Szymon Kesek; North Central College

Kiosk: 36C
Privatize to Stabilize: The Commodification of Peace
Adam Ashley; University of West Georgia
Poster Session 3

Kiosk: 37A
UW-RF Security versus Privacy Survey 2013-2014
Arianna Pajtash, Andrew Trapp, Reven McGee; University of Wisconsin- River Falls

Psychology

Kiosk: 10A
An examination of stigmatizing attitudes surrounding mental illness and psychological treatment
Jessica Petri; Xavier University

Kiosk: 37B
Autism Spectrum Disorders And Language Impairments: Evaluation Of The Framing Of Their Definitions And Assessment In DSM-5 And Tennessee DOE Criteria
Tiffany Anderson; Austin PEAY State University

Kiosk: 37C
Characteristics and Sequelae for Adolescents whose Pain is Dismissed by a Parent
Kathleen Bauer; University of Wisconsin, Milwaukee

Kiosk: 38A
Compassion Meditation Increases Positive Perceptions of Difficult People
Arpan Prabhu; University of Pittsburgh

Kiosk: 38B
Disparities in expectations in Newlyweds and how Relationship Education can Help.
Jeremy Kanter; University of Illinois at Urbana-Champaign

Kiosk: 38C
Effects of Religious/Spiritual Engagement, Coping, and Community Support on Academic Stress and Self-Efficacy
Brittany Sievers; University of Illinois at Springfield

Kiosk: 39A
Exploring Differences in Embodiment of Emotional Language Comprehension between Westernized Hmong and Non-Westernized Hmong
Mindy Thao; University of Wisconsin, Whitewater

Kiosk: 39B
Gender Differences in Risky Driving Behavior in Young Adults with ADHD
Allysun Sharp, Maureen Hayat; University of Kentucky

Kiosk: 39C
Identifying individual differences in cocaine addiction
Lucas Nyerges; University of Kentucky

Kiosk: 40A
Investigating the Effects of Choice on Writing with Students Receiving Extended School Year Services
Raechel Erdman; Minnesota State University, Mankato

Kiosk: 40B
Keep calm and cope on: How families cope with childhood cancer
Christine Czapek; Eastern Illinois University

Kiosk: 40C
Neural Basis of Value-Bases Learning and Decision Making
Evan Gennrich; University of Michigan

Kiosk: 41A
Parenting Stress Among Biological, Adoptive, Foster, and Guardian Parents of Children with Prenatal and/or Environmental Substance Exposure
Kristina Kochanova; Elmhurst College

Kiosk: 41B
Predictability, Deviance and Distraction: Does the Neural Model Represent Post-Categorical Features?
Christopher Thomas, Eleanor Wong; University of Central Lancashire

Kiosk: 41C
Regret vs. Disappointment across Decision-Making Styles
Chelsea Frank; Miami University

Kiosk: 42A
Sex Differences in Mate Preferences for Muscularity, Aerobic Fitness and Other Traits
Rachel Doerr, Thomas Alley; Clemson University

Kiosk: 42B
Strengthening the Ties That Bind: An Investigation Into the Effects of Mutual Religious Activities on Marital Relations
Kathryn Thompson, Field Smith, Sarah Solesbee; University of North Georgia
The Contribution of Peer Stress to Maladaptive Stress Responses and Depression: A Prospective Examination during the Transition to Adolescence
Zachariah Berry; Bethel University

The Effect of Random Context on Memory
Joseph DeAngelis; Rutgers, The State University of New Jersey, New Brunswick

The effects of school-based mental health programs on the prevalence and lifetime estimated use of alcohol and drug use in adolescents
Meagan Smith; Milligan College

The Misattribution of Attraction and Arousal: The Role of Gender
Elizabeth Ziemer, Josephine Dobson-Mann; St Norbert College

The relationship of social anxiety on social networking sites usage
Megan Hartz; Drexel University

Understanding Individual Differences in Conflict Management: How Optimism Influences Beliefs and Behavior
Raymond Haack; Elon University

Authenticity, Older Adults, and Sexual Orientation: Implications for Mental Health
Marissa Rurka; Elon University

Sociology and Supplemental Instruction: Experience and Efficacy
Kyra Martinez, Elizabeth Richmond; Old Dominion University

The Prevalence of Cosmetic Surgery in Qatari Society
Reem Al-Kuwari; Qatar University

Al Oliver: A Career Worthy of the Hall of Fame
Betsy Haugh; Marshall University

Home Away from Home
Suzan Gingery; Westmoreland County Community College

Comparison of Cranial Nonmetric Traits Between Five Mimbres Mortuary Sites
Desiree Haggberg; Hamline University, St. Paul

Historic Glassware: Material, Decoration, and Social Status
Melanie Lowrie; California University of Pennsylvania

The Analysis of Microartifacts to Evaluate the Diet and Cooking Techniques of Paleoindian and Archaic Age Inhabitants of the Dust Cave Archaeological Site in Alabama
Alessandra Daniel; Murray State University
Architecture & Interior Design

Kiosk: 12A
Satisfying the Social, Privacy, and Family Care Needs of Pediatric and Adolescent Young Adult Hematology- Oncology Patients
Brenna Murphy; University of Kentucky

Astronomy

Kiosk: 12B
Engineering a Research Grade Spectroscopic Instrument
Stephen Sheler; Marshall University

Biochemistry

Kiosk: 12C
Application of Statistical-Thermal Coupling Analysis to Identify Residue-Residue Interaction Networks that Facilitate Coupled-Domain Dynamics in E. coli Methionyl-tRNA Synthetase
Samuel Fehling, Alexander Strom; University of Wisconsin, Eau Claire

Kiosk: 46B
Characterizing the BACE protease family in order to study native and Alzheimer's disease amyloid pathways
Bryan Jensen; University of Minnesota, Duluth

Kiosk: 46C
Development of THAM-3PhG as a Novel Antibacterial Compound against Methicillin-Resistant Staphylococcus aureus
Michael Burt; Montana State University, Bozeman

Kiosk: 47A
HEDGEHOG SIGNALING IS IMPAIRED IN MUSCULAR DYSTROPHY AND CONTRIBUTES TO PATHOLOGY.
Samantha Devenport; Ohio State University

Kiosk: 47B
Internalization and Colocalization in Raft-Mediated Endocytosis
Cassandra Nyati; Suffolk County Community College

Kiosk: 47C
Purification and Characterization of 15N-labeled Desulfovibrio desulfuricans Flavodoxin in the Presence and Absence of Macromolecular Crowding Agents Using 2D and 3D 1H-15N NMR Spectroscopy
Luke Cotellessa; Adelphi University

Kiosk: 48A
The Effect of BPA on the Expression of Aromatase B
Sara Sobota; Minnesota State University, Mankato

Kiosk: 48B
Using a Library of Random Polypeptides to Rescue Essential Biological Functions in E. coli
Sarah Dremel; University of Minnesota, Twin Cities

Biological Engineering

Kiosk: 13A
Can Cells Solve Mazes? - Understanding Cell Responses to Wound Healing
Nora Hlavac, Sharon Olang, Elliott Mappus, Tyler Harvey; Clemson University

Kiosk: 13B
Electroencephalogy and Hand Kinematics in a Reach-to-Grasp Task
Holly Thomas, Kristin Upah, Justin Keister, Nicholas Wilson, Dylan Beyhl; St. Ambrose University

Kiosk: 48C
Optimizing Elastomeric Heart Valves via Ceramic Particulate Reinforcement
Angie Estrada; Florida International University

Biology

Kiosk: 6C
Fish Trait Diversity in Shallow Water Habitats of a Large River
Andrea Swanson, Alyssa Vogt, Kayla Weihing, Sarah Steffen, Darellynn Oo; University of Wisconsin, Eau Claire
Kiosk: 13C
A PILOT STUDY: MACROALGAL PREFERENCES FOR Diadema antillarum ON THE MESOAMERICAN REEF IN ROATAN, HONDURAS
Clara Hernandez; McLennan Community College

Kiosk: 14A
Alpha Trait Diversity Along a Shade Gradient in Pine Barrens in Western Wisconsin
Zachary Nonn, Kate Beaton, Nathan Peterson; University of Wisconsin, Eau Claire

Kiosk: 14B
Analyzing the Role of Folic Acid in Male Fertility Due to Sperm Viability
Sarah Roberts; Virginia Commonwealth University

Kiosk: 14C
Association Mapping of Leaf Rust Resistance in Wild Barley
Margaret Krause; University of Minnesota, Twin Cities

Kiosk: 15A
Breast Satisfaction and Acceptance of Breast Augmentation
Kaitlyn Suda; University of Wisconsin, Stout

Kiosk: 49A
Characterization of Mouse Mammary Tumor Cells with Reduced Inflammatory Cytokine Receptor Expression
Iva Stojkovska; Boise State University

Kiosk: 49B
Cloning the Gene for Single Stranded DNA-binding Protein of Escherichia coli
Kelsey Pinkham; Bridgewater State University

Kiosk: 49C
Detection of Phorid Fly Parasite in Wisconsin Honey Bees
Samuel Barton, Zachary De Moulin, Kyle Karlen, Mark Martinez, Theodore Cummins; University of Wisconsin-River Falls

Kiosk: 50A
Effects of Fibrinolysis in Hibernating 13-lined Ground Squirrels
Brittany Lehrer; University of Wisconsin, La Crosse

Kiosk: 50B
Establishment of Ectopic Stem Cell Niches in Drosophila Testis
Aaron Fowler, Jiawei Zhao, Emma Holland; University of Kentucky

Kiosk: 50C
Exposure to Varying Concentrations of Folic Acid During Neurogenesis in Dorsal Root Ganglia
Maren Finsand, Mikayla Freese; University of Northern Iowa

Kiosk: 51A
Identification of the psbDII gene signal transduction pathway in S. Elongatus PCC 7942 by utilizing the codA and luxAB reporter gene and transposon mutagenesis.
Katherine Berman, Poonam Bhavsar; Drexel University

Kiosk: 51B
Initial Selection of Humulus lupulus L. for a Long-Term Breeding Program
Joshua Havill; University of Minnesota, Twin Cities

Kiosk: 51C
JNK activity is required for spindle organization and chromosome separation in sea urchin embryonic development
Danielle Ditty, Hillary Martin; Susquehanna University

Kiosk: 52A
miRNome functional analyses reveal complex miRNA-mediated regulatory effects on class-specific dendritic architecture.
Francis Aguisanda; George Mason University

Kiosk: 52B
Occurrence of Multiple Antibiotic Resistant Bacteria in Aquatic Environments in Central Minnesota.
Megan Bollin; College of Saint Benedict

Kiosk: 52C
Pre-exposure to salinity stress in Zea Mays increases expression of ZmERD4 and ZmbZIP60 genes in subsequent stresses
Josephine Slater; Hamline University, St. Paul
Kiosk: 53A
RELATIVE IRON CONCENTRATIONS IN THE LEAVES OF CHAMAESYCE MULTIFORMIS (EUPHORBIACEAE), A TRADITIONALLY USED ENDEMIC HAWAIIAN MEDICINAL PLANT
Maria Petelo, Lindsey Watanabe; Kapiolani Community College

Kiosk: 53B
Several Lines of Evidence Identify edn3 as the Gene for the white Axolotl Mutant
Naomi Hayes; University of Kentucky

Kiosk: 53C
Sox4 affects expression of rod lineage genes in the zebrafish retina
Joanna Ng; University of Kentucky

Kiosk: 54A
Temporal changes in diversity and activity patterns of terrestrial vertebrates in central PA: Phase 1
Anneliese Himmel; Susquehanna University

Kiosk: 54B
The effects of short-term exposure of naproxen on Xenopus laevis tadpoles
Aaron Patterson, Jake Litmer, Lakeisha Crouch; Xavier University

Kiosk: 54C
The Influence of Different Reclamation Phases on Distribution of Frogs at The Wilds
YUHYUN SHIN; Ohio State University

Kiosk: 55A
The Role of FOXM1 In Multiple Myeloma
Jehnae Linkins; Lincoln University

Kiosk: 55B
The toxic effects on the liver and kidney of administering an analgesic (acetaminophen) and a drug to treat obesity-related diabetes (metformin) to dietary-induced obese male mice (C57BL/6j).
Quinn Hofmann, Yuko Nakamura, Sara Sobot; Minnesota State University, Mankato

Kiosk: 55C
Using the RbcL Gene and DNA Barcoding Techniques to Identify Members of the Cactaceae Family
Lillian Sanders; Ouachita Baptist University

Business/Finance/Accounting
Kiosk: 15B
Value Congruence: Is Organizational Ownership Type a Moderator
Ian Hopkins; Eastern Kentucky University

Cell & Molecular Biology
Kiosk: 15C
Catabolism of D- and L-amino acids by rhizosphere-dwelling bacteria
Katlyn McNeill; University of Kentucky

Kiosk: 16A
Electron Tomographic Analysis of the Lipid Droplet-Mitochondrial Interface in Cardiomyocytes
Fariha Ghazi; Wayne State University

Kiosk: 16B
Fluorescent Imaging of Rhizoctonia solani Isolate Strain ToM7 Hyphae Anastomosis
Robert Connacher; Indiana University of Pennsylvania

Kiosk: 16C
Identification of the Gene “Eyeless”
Gareth Voss; University of Kentucky

Kiosk: 56A
Localization Studies of Uncharacterized Mitochondrial Protein SLOWMO1.
Michael Olson; University of Wisconsin, Whitewater

Kiosk: 56B
New Imaging Method to Detect Structural Chromosomal Abnormalities in Acute Myeloid Leukemia
Hillary Figler; University of Rochester

Kiosk: 56C
Role of Rho GEFs in regulating the epithelial-mesenchymal transition during gastrulation in chicken embryos
Ben Van Maren; University of Arizona
**Kiosk: 57A**  
The Effects of Host and Viral ssDNA-Binding Protein Overexpression on Viral Propagation  
Thomas Cole; Bridgewater State University

**Kiosk: 57B**  
Tracking Pairing and Compaction of Meiotic Chromosomes Using Fluorescence Microscopy in Saccharomyces cerevisiae  
Tomás Rodríguez; University of California, Davis

**Chemical Engineering**

**Kiosk: 17A**  
In vitro study of Inhalable Anti-tumor nanoparticles for the treatment of lung cancer  
Shuo Tang, Nathanael Stocke, Zach Hilt; University of Kentucky

**Chemistry**

**Kiosk: 17B**  
A New General and Practical Method for the Deprotection  
Reatna Taylor; Johnson C Smith University

**Kiosk: 17C**  
Assessing the Toxicity of Synthesized Nanomaterials  
Tayler Ripley; Black Hills State University

**Kiosk: 18A**  
Co-crystals of 1,3-dinitrobenzene and 10-methylphenothiazine: implications for detecting explosives  
Mirza Beg; University of Alabama

**Kiosk: 18B**  
Development of Copper–Catalyzed Reactions Driven by Light for Chiral Molecule Synthesis  
Matthew Wilen; Black Hills State University

**Kiosk: 18C**  
Effects of Environmental Pollutants on Endophytes in Rumex crispus  
Yonic Michaca, Yonic Michaca, Lincoln Trunnell; Utah Valley University

**Kiosk: 58A**  
Improved Synthesis of 3-aryl-4,5-dihydro-1H-pyrazoles  
Kenneth Stanitis; West Chester University

**Kiosk: 58B**  
Investigation of the Unusual Metal Dependency of Peptide Deformylase Using Zn(II) and Cd(II) Synthetic Model Complexes  
Martin Garcia-Chavez; Manchester University

**Kiosk: 58C**  
NKU Fullerene Research: Initial efforts for solar cell production using fullerene-transition metal systems as sensitizers  
Hannah Hearn; Northern Kentucky University

**Kiosk: 59A**  
Phospholipids, Dietary Supplements, and Chicken Eggs: A Guided Inquiry-Based Exercise Using Thin Layer Chromatography  
Sara Poteiger; King’s College

**Kiosk: 59B**  
Progress Towards the Synthesis of Piperodione  
Patrick Nordeen; University of Wisconsin - River Falls

**Kiosk: 59C**  
Silver Nanoparticle Synthesis: Different Core Morphologies  
Matthew Styles; University of Minnesota, Twin Cities

**Kiosk: 60A**  
Summertime measurements of non-methane hydrocarbons in rural western North Carolina  
Ryan Cook; Appalachian State University

**Kiosk: 60B**  
Synthesis of “clip” molecules involving Diels-Alder reaction of dienes with electron-withdrawing/donating groups  
Zachary Price; Eastern Illinois University

**Kiosk: 60C**  
Synthesis of Photocleavable Molecules for Surface Modification  
Bryan Ingoglia; University of Kentucky
Kiosk: 61A
The Acid Mitigation Planning and Results of Two Appalachian Highland Streams
Lindsay House; James Madison University

Kiosk: 61B
Trace metal analysis of bone ash, Portland cement, and human cremated remains by ICP-AES.
Kelsey Sparks; Thomas More College

Kiosk: 19A
Cultural Storytelling and Happiness
Sarah Manke; Hope College

Kiosk: 61C
Lay Information Mediary Behavior (LIMB) of UW-Whitewater Students
Sydney Sipos; University of Wisconsin, Whitewater

Computer Science

Kiosk: 19B
A Research and Training System for Young Children with Severe Motor Impairments
Sean Smith, Wenxi Zeng; University of Central Oklahoma

Kiosk: 19C
Development of an Android based Cellbot using Arduino Microcontrollers
Donald Buhl-Brown; Austin PEAY State University

Kiosk: 62A
Mitigating Hijack Security Risks of QR Code Redirection for Mobile Device User
Brian Dunn; University of Wisconsin, Whitewater

Kiosk: 62B
Specifying Melodic Features for Jazz and Swing Melody Evaluation
Malcolm Williams; Howard University

Kiosk: 62C
What’s APPening? A Critical Review of Math Apps on Selected Tablet: Microsoft Surface Pro
Zanier Fuller; Johnson C Smith University

Criminology

Kiosk: 20A
The Impact of Privatizing and Closing of Youth Centers on Youth Workers and Youth Community Members: A Qualitative Exploration
Taty Benson; Hamline University, St. Paul

Diversity Studies

Kiosk: 20B
What Motivates Hmong Students To Obtain a College Degree
Gaozong Her; University of Wisconsin - River Falls

Ecology & Organismal Biology

Kiosk: 20C
Coral Growth under Thermal Stress and Different Levels of Light Intensity in Acropora aspera.
Devan Klein, Mary Barana, Leeanne Obilor; Dominican University of California

Kiosk: 21A
Genetic Relatedness among Maternity Colonies of Big brown Bats (Eptesicus fuscus) in Flagstaff: Implications for Disease Transmission
Cami Platts; Northern Arizona University

Kiosk: 63A
The role of the Asian elephant (Elephas maximus) as a potential seed disperser for anachronistic fruit like the American persimmon (Diospyros virginiana)
Madison Boone; Hendrix College

Economics

Kiosk: 1A
Ending Poverty in Newark: Social Entrepreneurship and the Transition to Service-Based Economy
Junyi Cui; Denison University

Kiosk: 21B
Civil Conflict, Education, and Child Labor: A Look at Afghanistan
Elena Ramirez; Salisbury University
Kiosk: 21C
Impact of Reshoring on the U.S. Economy
Samantha Wieczorek; University of Wisconsin, Stout

Kiosk: 63B
The Modern Sino-Industrial Revolution: What the US Industrial Revolution can tell us about China's future
Leon Jia; Virginia Commonwealth University

Education

Kiosk: 1B
Chicago Public School Disparities as Relating to Ineffective Budgetary Allocation and Discriminative Education Policy
Allison Clark; Loyola University Chicago

Kiosk: 22A
Content Analysis of Mission and Value Statements From Accredited School Counseling Programs
Lauren Mahan; Old Dominion University

Kiosk: 22B
Giving voice to the voiceless: The Advocacy of Eunice Kennedy Shriver
Lianna Lazur; The College of New Jersey

Kiosk: 22C
Race-Segregated Schooling and Mathematics Self-Efficacy Among African American Boys
Akia Jones, Talesha Ross, Amanda Butz, Ellen Usher; University of Kentucky

Kiosk: 67A
Sources of Mathematics Self-Efficacy in Non-Rural and Rural Contexts
Chelsea Adams, Chelsea Adams, Brianna McCrea; University of Kentucky

Electrical Engineering

Kiosk: 23A
Photoresponse of Self-Switching Nano-Diodes
Elizabeth Bradley; University of Rochester

ENGINEERING/ENGINEERING TECHNOLOGY

Kiosk: 2C
3D Printing of Stainless Steel for Engineering Applications
Michael Doyle; Minnesota State University, Mankato

Kiosk: 23B
Computation of the Steady Aerodynamic Performance of a Transonic Compressor Blade in Stalled and Unstalled Flow
Chuyoung Kim; University of Kentucky

Kiosk: 64A
Getting Rich on Fast Fuel
Matthew Brockbank; Utah Valley University

Kiosk: 64B
Microexplosive Combustion Behavior of Soybean Oil and Butanol Mixtures
Joel Braden; University of Minnesota, Duluth

Kiosk: 64C
Overlooked Daily Energy Waste
Stephen Kuluris, Nathan Croswell, Leah Richardson; Northern Arizona University

Kiosk: 65A
Thermal Properties Measurement of Surrogate Nuclear Fuel Compacts Using the 3-Omega Technique
Levi Gardner; Utah State University

Environmental Studies & Sciences

Kiosk: 23C
Chemical Monitoring of a Mountain Headwater Stream Impacted by Urbanization in Western North Carolina
Barbara Hobbs; Appalachian State University
Kiosk: 24A
Elemental Analysis of Soils and their Chemical Impact on Macon, Georgia Neighborhoods
Ishika Patel; Mercer University

Kiosk: 24B
Investigating the effect of noisy permeability distributions on hyporheic flow
Mitchell Godfrey; St. Ambrose University

Kiosk: 65B
Phytoremediation of heavy metals in a stormwater remediation wetland
Ashby Gale; Appalachian State University

Kiosk: 65C
Strategic Decommissioning of Coal Power Plants in Illinois
Ember McCoy; Carthage College

Geography & Earth Sciences

Kiosk: 3B
Assessment of Evaporation Duct Models as a Source of Uncertainty in Radar Wave Propagation Simulations
Nathaniel Grimes; Coastal Carolina University

Kiosk: 24C
Geochemical Analysis and Diatom Assemblages of International Paper Holding Pond in Terre Haute, Indiana
Kevin Hardin; Indiana State University

Kiosk: 25A
Paleoenvironmental Study of Late Holocene, Organic-Rich Deposits Recovered from Pink Beds, A Southern Appalachian Wetland in Western NC
Michele Coker; Western Carolina University

Kiosk: 4A
Evaluating Immunohistochemistry Techniques Within Breast Cancer Pathology
Chelsey Kamson; University of California, San Diego

Health Sciences & Public Health

Kiosk: 25B
Acute UCL Injury in Collegiate Quarterback
John Loehner; Ithaca College

Kiosk: 25C
Comparing Two Methods for Detection of Sepsis Pathogens: Roll Plate and Direct RT-PCR
Linda Arrabi; Wayne State University

Kiosk: 26A
ELSI Concerns of Participants and Decliners in the MedSeq Project, A Randomized Trial of Whole Genome Sequencing
Thomas Carroll; Rice University

Kiosk: 26B
Fall Protection in Roofing Industries
Brandon Zimmerman, Weston Klink; University of Wisconsin, Whitewater

Kiosk: 26C
Osteochondroma of the Distal Tibia in College Ballet Dancer
Jenna Neumann; Western Carolina University

Kiosk: 66A
Primary Drinking Location & Amount of Alcohol Consumed
Gregory Bourn; Miami University

Kiosk: 66B
The association of a variant in the IRF7 locus in systemic lupus erythematosus (SLE)
Rena Ryumae; Western Kentucky University

History

Kiosk: 4B
Black Feet, Red Sand, and Greener Grass: Losing French Algeria Amidst Metropolitan and Settler Conflict
Joshua Duncan; Carthage College

Kiosk: 27A
Integration Before Integration: How World War II Exploded Diversity in Baseball
Bill Getschman; Hope College

Kiosk: 27B
Voltaire and the Enlightenment Response to Superstition
Jordan Greene; Elon University
Interdisciplinary Studies

Kiosk: 4C
Elementary Students’ Strategies for Solving Visual Logic Tasks
Camille Schulman; Bridgewater State University

Kinesiology & Exercise Science

Kiosk: 5A
Can we predict preferred walking pace based on mood?: Examining a dual-valence model of affect.
Annie Shreckhise, Annaliese LaDuke; Roanoke College

Kiosk: 27C
Development of a RPE-based Submaximal Oxygen Consumption Test Using Total Body Recumbent Stepper in Spinal Cord Injury
Jeffrey Manning; University of Louisville

Kiosk: 28A
Gender and BAC: A Predictor of Risky Behavior?
Madeline McDonough; Miami University

Kiosk: 28B
The Effects Of Barefoot Running Versus Shod Running On Mile Time
Cassie Rogness; Gustavus Adolphus College

Kiosk: 28C
Underwater Treadmill Exercise in Adults with Osteoarthritis
Kristin Walker, Cade Walker; Utah State University

Linguistics & World Languages

Kiosk: 5B
Accents influence attachment through focus
Dallas Cox; Morehead State University

Kiosk: 29A
Where’s the contrast in ‘let-alone’ structures?
Megan Ison; Morehead State University

Literature

Kiosk: 5C
Janteloven and Social Conformity in Thorbørn Egner’s Literature
Ellen Ahlness; Minnesota State University, Mankato

Marketing

Kiosk: 6A
Branding of Higher Education
Nicole Jakobsze; North Central College

Mathematics

Kiosk: 6B
Accounting for the geometry of a leaf when considering its radial and axial conductances
Cullen Faulwell; Occidental College

Kiosk: 29B
Modelling the Spread of Cholera
Ben DeVries; Dordt College

Microbiology & Immunology

Kiosk: 7A
Aromatic Essential Oils as Antifungal Agent Against Aspergillus Species in Georgia Peanuts
Reesheda Gilbert; Kennesaw State University

Kiosk: 29C
Effects of Citric Acid and Sodium Lauryl Sulfate on Bacteriophages
Elizabeth Mitchell, Heather Ruck; Rockhurst University

Kiosk: 30A
Natural Transformation of Commensal Neisseria species is DNA Uptake Sequence Dependent
Armando Bosch; Transylvania University

Kiosk: 30B
The Role of Inflammatory Cytokines in Glioma Progression
Rohit Anand; Wayne State University
Music Research and/or Analysis

Kiosk: 7B
Bridging the Gap: Popular Music in the Middle School Music Classroom
Lindsay Shank; University of Wisconsin, Whitewater

Neuroscience

Kiosk: 2B
Transmitters and second messengers involved in Drosophila melanogaster habituation to tactile stimuli
Stephanie Biecker; University of Kentucky

Kiosk: 30C
Characterizing Microglia in Transgenic Lines
Brittany Hopkins; University of Rochester

Kiosk: 31A
Effects of stretch stimuli on the nonspiking (NS) and touch (T) cells of the leech
Jason Kim; Emory University

Kiosk: 31B
ION DYNAMICS IN EPILEPTIC STATES
Thao-Chi Vo; George Mason University

Kiosk: 31C
Overcoming Fear: The effect of anxiolytic medication administration on interval timing distracters
Chance Christensen, Alexander Matthews; Utah State University

Kiosk: 32A
THE ASSOCIATION BETWEEN THE SEROTONIN TRANSPORTER PROMOTER REGION POLYMORPHISM, HARM AVOIDANCE, AND AGGRESSIVE BEHAVIOR
Daniel Linford; Weber State University

Kiosk: 32B
The role of Toll-Like Receptor 2 (TLR2) in macrophage activation
Kyeong Ran Jang; University of Kentucky

Nursing

Kiosk: 7C
A Team-based Approach to Internet Ethnography: Evaluating Community Needs in South Sudan, Central Africa
Lakesa Williams, Clara Dalton, Michael Short, Marian Gemender; Old Dominion University

Kiosk: 32C
Comparison of Pregnancy Health Information Needs, Barriers, and Information-seeking Behaviors Between First-time and Non-first-time Pregnant Women
Kelli Johnson; Indiana University-Purdue University Indianapolis

Kiosk: 33A
Exploring Pregnancy Anxiety of Women Pregnant After Loss Through Their Journal Entries
Sarah Moore; University of North Carolina, Greensboro

Kiosk: 33B
Geographic Access to Breast Cancer Screening Facilities Among African American Women in Southeastern Wisconsin
Keighla Mueller, Anna Conroy, Paulina Santos; University of Wisconsin, Milwaukee

Kiosk: 33C
Mixed Method Analysis of Post-Operative Dementia Symptoms
Cassara Harmelink; University of Minnesota, Twin Cities

Kiosk: 34A
Primary Care Patients who Complete Colonoscopy after Referral and Those Who Do Not: Are they Different?
Kemi Olofinkua; Indiana University-Purdue University Indianapolis

Kiosk: 34B
The Importance of Interprofessional Education from a First Year Health Student Perspective
Marianne McCoy, Rosemary Hoffmann; University of Pittsburgh School of Nursing

Nutrition

Kiosk: 8A
Does Context Explain Inabilities to Identify Physical Hunger Among Obese Women?
Aalia Farukhi; University of Houston
**Poster Session 4**

**Philosophy & Ethics**

**Kiosk: 8B**  
*The Trolley Problem Through the Eyes of Philosophers*  
Katie Liebel; California University of Pennsylvania

**Physics**

**Kiosk: 8C**  
*Building a Straw Detector for the g-2 Muon Experiment*  
Octavio Escalante-Aguirre; Northern Illinois University

**Kiosk: 34C**  
*Investigating the Efficiency of Solar Cells at High Altitudes Using a Weather Balloon*  
Rebecca Holzer; University of Wisconsin, Whitewater

**Kiosk: 35A**  
*Nanomorphological study of polymer bulk heterojunction used in flexible solar cell devices.*  
Gabriel Calderón-Ortiz, Gabriel Calderon; University of Puerto Rico at Humacao

**Kiosk: 35B**  
*Simulation of Dark Matter Wakes*  
Christian Horst; North Central College

**Physiology**

**Kiosk: 3C**  
*The effects of combined modulators on Drosophila melanogaster heart physiology: dopamine, octopamine and serotonin*  
MADISON VAUGHN, KAYLA KING, ZANA MAJEED, JOSH TITLOW, CLARA DE CASTRO; University of Kentucky

**Kiosk: 9A**  
*Effect of Cardiac troponin I degradation on force and power output in human heart failure*  
Byron Hempel; University of Kentucky

**Kiosk: 35C**  
*Liquid Courage*  
Aaliyah Thompson, Isaiah Stewart; Miami University

**Kiosk: 36A**  
*Teaching Heart Electrical Function to Second Grade Students*  
Emily Barrett, Breanna Fagg; Indiana State University

**Poetry & Creative Writing**

**Kiosk: 9B**  
*The Healing Power of Narrative Medicine: Aiding Adults in Aging Creatively*  
Tayla Curran; High Point University

**Political Science**

**Kiosk: 36B**  
*Distracted into Destruction: The effects of Distracting Political Advertisements on Candidate Quality and “Correct Voting” and its Corruption of the Electoral Process*  
Sara Yeganeh; Lafayette College

**Kiosk: 36C**  
*Personal Roots of Representation: Applying Burden’s Model to Female Leaders in State Legislatures*  
Lindsey Juszczak; Eastern Illinois University

**Kiosk: 37A**  
*Youth and Political Motivation*  
John Proffitt; Eastern Illinois University

**Psychology**

**Kiosk: 1C**  
*I was Just Joking!: Humor Decreases Perceptions of Sexism*  
Sophia Smith; Loyola University Chicago

**Kiosk: 2A**  
*Infant Cognitive Development and PsychoPhysiological Measures*  
Cydney Stein; Loyola University Chicago

**Kiosk: 9C**  
*Predicting Adolescent Risky Behavior From Childhood Social Preference*  
Mary Moussa; University of North Carolina, Greensboro
Kiosk: 10A
Analysis of Van Gogh's Portraits Through Brushstrokes and Emotions
Ria Koukoulis; Adelphi University

Kiosk: 37B
Availability of Recovery Programs for Human Trafficking Victims
Rebecca Oswalt; Wittenberg University

Kiosk: 37C
Child Abuse as a Potential Cause of Schizophrenia: A Meta-Analysis
Faith VanMeter; University of Kentucky

Kiosk: 38A
Concealment and Disclosure: Exploring Secret Keeping Decisions
Valerie Provenza; Wells College

Kiosk: 38B
Distinguishing between Risk Factors for Aggression Perpetration, and Victimization in Adolescent Dating Relationships
Ericka Daniels; Marquette University

Kiosk: 38C
Effects of syllabus elements on student perceptions of professor trustworthiness
Hannah Ramsey, Aaron Caplan; Longwood University

Kiosk: 39A
Exploring Effects of Facial Fatigue on Emotional Language Comprehension
Thomas Haasl; University of Wisconsin, Whitewater

Kiosk: 39B
Gender Differences in the Association Between Negative Affect and ADHD Symptoms in Young Adults
Damon Tichenor, Samantha Mink; University of Kentucky

Kiosk: 39C
Impact of Threat Level in Stalking Cases on Juror Perceptions in the Courtroom
Casey Magyarics; University of Kentucky

Kiosk: 40A
Investigating the Role of Conservatism in Brand Preferences
Samuel Minor, Julia Chous, Coleman Sandstrom; University of Wisconsin- River Falls

Kiosk: 40B
Learning styles and their Effect on Working Memory
Nicole Lee, Mark Ivey; Capital University

Kiosk: 40C
Once a Pun a Time: Effects of Context and Individual Differences on Reactions to Puns and Punsters
Brandon Payne, Alison Yeager, Charles Hoogland, Richard Smith; University of Kentucky

Kiosk: 41A
Pathways to Young Adulthood Status Attainment: The Longitudinal Influence of Future Aspirations and Social Capital
Ariel Smith; George Mason University

Kiosk: 41B
Prediction of Emotional Changes While Reading a Short Story
Kirsten Bushman; North Central College

Kiosk: 41C
Relations of Parent Reported Attention Problems to a Lab-Based Inhibition Task in Young Children with Neurofibromatosis-1
Kathleen Bauer; University of Wisconsin, Milwaukee

Kiosk: 42A
Sex Differences in the Association Between Positive Affect and ADHD Symptoms in Young Adults
Samantha Mink, Damon Tichenor; University of Kentucky

Kiosk: 42B
Stress in the Life of a College Student
Cody Dirksen, Cody Dirksen; University of Minnesota, Duluth

Kiosk: 42C
The correlation between young adults with Attention-Deficit/Hyperactive Disorder symptoms and their associations with delinquent peers.
Aaron Barr; University of Kentucky
Kiosk: 43A
The Effect of Type of Abuse on Repressed Memory in the Courtroom
Ashlyn Rice; University of Kentucky

Kiosk: 43B
The Effects of Sleep Deprivation on Moods As Seen in a Group of College Freshmen
Jamie Haydock; Dominican University of California

Kiosk: 43C
The moderating role of acquired capability for suicide in the relationship between stoicism and over-exercise
Aimee Yeager; Miami University

Kiosk: 44A
THE SEROTONIN TRANSPORTER GENE POLYMORPHISM AS A PREDICTOR OF NOVELTY SEEKING, SMOKING BEHAVIOR, AND COGNITIVE ASSESSMENT OF RISK
Houda Nizam; Weber State University

Kiosk: 44B
Valproic Acid Reduces Amphetamine Sensitivity in Anxious Rats
Vanessa Romero; University of Massachusetts

Kiosk: 44C
THE SEROTONIN TRANSPORTER GENE POLYMORPHISM AS A PREDICTOR OF NOVELTY SEEKING, SMOKING BEHAVIOR, AND COGNITIVE ASSESSMENT OF RISK
Houda Nizam; Weber State University

Kiosk: 45A
Identification of Paleo-Indian Hearth Features
Jeffrey Johnson, Adam Calkins; Eastern Washington University

Kiosk: 45B
The Public Health Implications of Contraceptive Choices to Discontinue Reproduction
Nicole Panaggio; Elon University

Sociology

Kiosk: 10C
Celtic Tradition: The Understanding and Interpretation of Celtic Symbol and Myth in the Contemporary United States
Melanie Johnson; Indiana State University

Kiosk: 11A
Augmenting Electricity Output of Ellipticals through Behavioral Change
Adam Hancock; University of Kentucky

Kiosk: 11B
Yoga and Mindfulness Meditation: Effects on Post Traumatic Stress Disorder and Drug and Alcohol Addiction Treatment
Bailee Nebeker; Eastern Washington University

Women and Gender Studies

Kiosk: 11B
Parents’ Perspectives on African American Boys and Academic Achievement
Rachel Johnson; University of Wisconsin, Milwaukee

Anthropology & Archeology

Kiosk: 11C
Egyptian Paleolithic Stone Tools at the University of Kentucky
Krsten Bhattacharyya; University of Kentucky

Kiosk: 45C
Identification of Paleo-Indian Hearth Features
Jeffrey Johnson, Adam Calkins; Eastern Washington University
Kiosk: 46A
The Forgotten Dictatorship: A Collection of Oral Histories Concerning the Trujillo Regime
Anastashia Cuddihy; George Mason University

Architecture & Interior Design

Kiosk: 12A
Social Public Housing that uses Interior Design to Evoke Psychological Ownership and Maintenance
Annaliese Loxley; University of Kentucky

Art History

Kiosk: 3C
An exploration into the obsolete: the resurgence of the letterpress in the digital age
David Baker, Gary Josebeck; Westmoreland County Community College

Astronomy

Kiosk: 12B
Re-analyzing Archival Data of Spectroscopic Binary Systems
Taylor Seitz; Guilford College

Biochemistry

Kiosk: 12C
Aromatic Hydrocarbon Metabolism by Caulobacter Crescentus
Denise Funk, Landry Umbu; Eastern Illinois University

Kiosk: 46B
Cloning and Expression for the Future Characterization of the Air2 Protein
Emily Frampton; Utah State University

Kiosk: 46C
Differential Toxicity of Cholera Toxin and E. Coli Enterotoxin Explored Using Molecular Dynamics Simulations
Lindsey Brier; University of Houston

Kiosk: 47A
Human Metapneumovirus Matrix Protein Localization and Protein Interactions
Andrea Eastes; University of Kentucky

Kiosk: 47B
Investigating the Expanding Role of Transmembrane Domains in the Enveloped Virus Infection Process
Tamas Nagy; University of Kentucky

Kiosk: 47C
Quality and Stability of Peanut Oils in Raw Nuts Treated with Ultraviolet Light to Reduce Bacterial Loads
Bryan Hettick; Lubbock Christian University

Kiosk: 48A
The Effects of Growth Conditions on Bacterial Inhibition of Water Mold
Mary Blaha, Kori Sye; North Central College

Kiosk: 48B
Using DNA Profiles to Determine the Commonality of Escherichia coli Isolated from Canada Geese Feces and Urban Playa Lake Water
Jordan Putman; Lubbock Christian University

Kiosk: 1A
Biodegradable Microspheres for Hepatic RMT
Jessica Delgado; Florida International University

Kiosk: 13A
Characterization of Tetracycline Inducible Orn Strain UM431
Fariba Kianmajd; University of California, Berkeley

Kiosk: 13B
Genetically Modified Food
Roshan Ara Nizamuddin; Wayne State University

Kiosk: 48C
Oxygen Sensing Properties of Nanofibrous Biomaterials Incorporating the Luminescent Probe [Ru(DPP)3]2+
Susan Zhao; Appalachian State University

Kiosk: 66C
Development of Reserpine/PLGA Matrix for Anti-Hypertensive Therapy
Robert Simril; Clemson University
Biology

Kiosk: 6C
Functional Characterization of Newly Identified Antiterminator RNAs
Connor VanMeter; Western Kentucky University

Kiosk: 13C
A Potential Role of Adipose Tissue in the Systemic Response to Ultraviolet Light Exposure
Evan Sommer; Ohio State University

Kiosk: 14A
An ABC type Transporter is essential for biofilm formation, nodulation of Sesbania cannabina and endophytic colonization of rice (Oryza sativa) by Rhizobium sp. IRBG74
Brigit Blemberg; University of Wisconsin, Milwaukee

Kiosk: 14B
Annotation of Fosmid_2602K20 of D. ananassae
Kayla Holder; University of the Cumberlands

Kiosk: 14C
Automated Shape Modeling for Undulatory Swimmers Using Blum’s Medial Axis
Sean Waters; Lafayette College

Kiosk: 15A
Can You Hear Me Now? The Impact of Our Sound Environment on Avian Communication
Jessica Magnotti; George Mason University

Kiosk: 49A
Characterization of the enzyme steroid sulfatase in the frog, Xenopus laevis
Anderson Chen; Duquesne University

Kiosk: 49B
Colorectal Cancer Prevention Studies
Ilona Aleksandrovich; New York Institute of Technology

Kiosk: 49C
Dissecting the role of autophagy in mediating dendrite development in Drosophila
Caroline Thomas; George Mason University

Kiosk: 50A
Effects of isoprenaline injection on ground squirrel and rat myocardial ischemia.
Jenna Kerr; University of Wisconsin, La Crosse

Kiosk: 50B
Evaluation of Fungicides for Control of Stem Rust In the Upper Midwest
Samuel Haugen; University of Minnesota, Crookston

Kiosk: 50C
Expression of Olfactory Receptor P2 outside of the Olfactory System
Rachel Turn; Florida Atlantic University

Kiosk: 51A
Identification of the psbDII gene signal transduction pathway in S. elongatus PCC 7942 by utilizing the codA reporter gene and transposon mutagenesis.
Poonam Bhavsar, Katherine Berman; Drexel University

Kiosk: 51B
Interactive effects of temperature and oxygen concentration on growth and development of lizard embryos
Sarena Flewelling; Coastal Carolina University

Kiosk: 51C
Laboratory-Directed Evolution of Salt Tolerant Microbes
Olivia Slayton, Sarah Ragsdale, Patricia Lane, Lora Flanagan, Jadeah Jackson, Archana Krishnamoorthy; Middle Tennessee State University

Kiosk: 52A
Molecular Dissection of the Mechanism of ssDNA –binding Proteins
Kelly Binns; Bridgewater State University

Kiosk: 52B
Optimal Growth Parameters of Pycnoporous sanguineus for Enzymatic Breakdown of Peanut Hulls
Markese Bohanon; Lubbock Christian University

Kiosk: 52C
Prevalence of antibodies to Leishmania spp. in coyotes and foxes from Pennsylvania and Tennessee
Andrew Alexander; Johnson C Smith University
Kiosk: 53A
Resistance to skeletal fluorosis in relation to the amount of sorbitol dehydrogenase present in a highly-susceptible mouse model
Caitlin Finnane; Wisconsin Lutheran College

Kiosk: 53B
SEXUAL DIMORPHISM IN WATER USE AND HEAT SHOCK RECOVERY IN BRYUM ARGENTEUM
Leslie Kollar; Washington and Jefferson College

Kiosk: 53C
Spatial Ecology, Habitat Use and Survival Rates of Headstarted Blanding's Turtles (Emydoidea blandingii) in Southern Wisconsin
Nick Rudolph; University of Wisconsin, Whitewater

Kiosk: 54A
Testing abiotic stress in maize and forming protocols
Hailey Karlovich; Hamline University, St. Paul

Kiosk: 54B
The Effects of the Artificial Sweetener Sucralose and the Natural Sweetener Stevia on 3T3-L1 Adipogenesis.
Jacob Brittingham; Susquehanna University

Kiosk: 54C
The influence of spatial pattern and color on visual signal detection in anoline lizards.
Anna Yeo; Union College

Kiosk: 55A
The role of green light in shade and sun adapted leaves measured in higher plants
Yongqian Zhang; Ithaca College

Kiosk: 55B
The Transformation and Conjugation of Ampicillin Resistant Escherichia coli
Nicholas Stapleton, William Gannon; Xavier University

Kiosk: 55C
West Nile Virus Detection by RT-PCR in Immature Mosquitoes in Southwest Ohio
Marcella Costello, Krista Swegheimer; Xavier University

Cell & Molecular Biology

Kiosk: 15B
A Genome-Wide Association Study of Factors Influencing Reproductive Lifespan of Male Drosophila melanogaster
Shannon Brady, Victoria Thompson, Sandra Onekhen, Olivia Utley, Michelle Giedt; University of Kentucky

Kiosk: 15C
Characterization of a Chlamydomonas reinhardtii mutant defective in chlorophyll biosynthesis
Tashana Haye, Theresa Fuller, Tai Truong; University of West Georgia

Kiosk: 16A
Elucidating a Mitochondrial Protective Transcriptional Network
Kevin De Jesus; University of Puerto Rico at Humacao

Kiosk: 16B
Functional Role of the EGF-like Module in SPARC-Mediated Signaling in Temozolomide
Swathi Nallapa, Swathi Nallapa, Sandra Rempel; Wayne State University

Kiosk: 16C
Idiopathic Infantile Arterial Calcification as Caused by ENPP1
Craig Conder; Utah Valley University

Kiosk: 56A
Major Pathogens Isolated from Rentable DVDs
Nicholas Gallina; Indiana State University

Kiosk: 56C
Screening for Potential New Prions in Wild Yeast Strains
Aung Soe Lin; Berea College

Kiosk: 57A
The Effects of Receptor Status on Protein Expression in Metastatic Breast Cancer Cells
Hannah Graff; Western Kentucky University
Kiosk: 57B
Using breast cancer subtypes as a model for detecting cytoskeletal dysfunction in Alzheimer’s disease
Ashley Calder; Utah Valley University

Chemical Engineering

Kiosk: 17A
Manufacturing & Characterization of Carbon Nanotube Microcables
Nicholas Kienzle; University of Cincinnati

Kiosk: 17B
An Investigation of Chemical Interferences in Two Different Methods of Vehicle Arson Accelerant Identification
Lauren Humphrey; Eastern Illinois University

Kiosk: 17C
Atmospheric Reactions of Catechol with Ozone at the Air-Water Interface
Robert Camm; University of Kentucky

Kiosk: 18A
Synthesis of a Photosensitizer-PEG-folate Complex for PDT
Munira Munshi; Loyola University Chicago

Kiosk: 18B
Development of Electrically Conductive “Ink” from Colloidal Silver Nanoparticle Systems
Daniel Webb, Mara Olenick; King’s College

Kiosk: 18C
Effects of Various Ligands on Mesoporous Silica Nanoparticles for Cancer-Targeted Drug Delivery
Alexandra Bird; Clemson University

Chemistry

Kiosk: 58A
Improving the Solubility of Antiepileptic Drugs
Wendy Price; Lindsey Wilson College

Kiosk: 58B
Ireland-Claisen Sigmatropic Rearrangements
Cassandra Heller; University of Wisconsin, Whitewater

Kiosk: 58C
NMR and Statistical Analysis of Maillard Reaction Products of Varying Sugars
Gianna Medina, Aaron Langer; North Central College

Kiosk: 59A
Photo-controlled nitric oxide release from metal complex/polymer composites for therapeutic applications
Jonathan Mase; Bowling Green State University

Kiosk: 59B
Progress Toward The Synthesis of Suberedamine A
Bhanupreet Gill; Cal State University

Kiosk: 59C
Simultaneous Chromatography and Electrophoresis: Apparatus Design
Jared Breakall; Brigham Young University-Idaho

Kiosk: 60A
Surface Enhanced Luminescence of a Rare Earth Complex by Silver Nanoparticles
James Beimborn II; Western Carolina University

Kiosk: 60B
Synthesis of 7-substituted coumarin derivatives
Jami DeGrote; Adelphi University

Kiosk: 60C
Synthesis of Several 8-Hydroxyquinolate-and 2-picolinate-based Ligands as Molecular Scaffolds for Metal-Organic Frameworks (MOFs)
Tanya Hanoman; New Jersey City University

Kiosk: 61A
The Assessment of Azulenyl Nitro as a Sensing Material for Gamma Radiation Sterilization Dosimetry of Healthcare Products
Kenneth Riggott; Florida International University
Kiosk: 61B  
*Treatment of Radioactive Hydraulic Fracturing Waste by Sorption on Natural Zeolites*  
Erica Howard; Ohio State University

**Communications**

Kiosk: 19A  
*Direct-to-Consumer Advertising Influence on the Request for Prescription Drugs: How do Patients Become Informed about an Advertised Drug?*  
Sarah Gentilucci; Roanoke College

Kiosk: 61C  
*Learning Styles and Engagement in Class: A student’s perspective*  
Sharpe Tom, Nick Tursi, Jennifer Coates; University of Wisconsin, Whitewater

**Computer Science**

Kiosk: 19B  
*A Union of Art and Technology*  
Jaspir Pool, Elizabeth Clay, Natalie Kuenzi; Western State College

Kiosk: 19C  
*Digital Music Composition: Dual Genetic Algorithms with Objective Fitness*  
Stephen Bussey; Shippensburg University

Kiosk: 62A  
*Mobile Physics Engine based on Modeling Two Dimensional Elastic and Inelastic Collisions for the Educational Demonstration of Physics Phenomena*  
Cameron Powell, Deborah Ferguson; University of Kentucky

Kiosk: 62B  
*The Speed of Information Dissemination in a Faulty Dynamic Network*  
Samuel Caulker; Moravian College

**Criminology**

Kiosk: 20A  
*The Relationship between Depressive Traits and Inmate Infractions*  
Jezebel Ristow; Hamline University, St. Paul

**Diversity Studies**

Kiosk: 1C  
*A Qualitative Analysis of Cultural Identity: Do Young Americans Identify with a Culture?*  
Alicia Wadsworth; California University of Pennsylvania

**Ecology & Organismal Biology**

Kiosk: 20B  
*A Morphological Tradeoff Between Courtship and Forced Mating in the Male Trinidadian guppy*  
Amy Hedrick; University of Kentucky

Kiosk: 20C  
*Damselfish as a Keystone in Increasing Biodiversity*  
Jared Baxa, Rachel Streich, Mitchel Lytle; Saint John’s University

Kiosk: 21A  
*Ichthyofaunal monitoring in the forks of the Platte River, NE, following five years of drought*  
Henry Hansen; University of Wisconsin, Stout

Kiosk: 62C  
*Relationship among life history and energy metabolism of the African cichlid Julidochromis ornatus*  
Matthew Hodanbosi; Ohio State University

Kiosk: 63A  
*Use of Snow Tracking Surveys to Compare Gray Wolf (Canis lupus) and Coyote (Canis latrans) Population Densities in Northern Wisconsin.*  
Aaron King, Nicholas Rudolph, Kenneth Witt; University of Wisconsin, Whitewater
**Economics**

**Kiosk: 21B**  
*Climbing the Economic Ladder: Latino Business Owners in Central and Eastern Parts of Washington*  
Jereny Mendoza, Jereny Mendoza; Eastern Washington University

**Kiosk: 21C**  
*Key Cost Associations with Private Non-Profit Liberal Arts Colleges*  
Andrew Switzer, Ryan Peterson, Matt Hultgren; Saint Olaf College

**Kiosk: 63B**  
*The World in 2050: A Complex Story of Convergence*  
Laura Roller, Shane Buxman, Devin Landis, Abby Chestnut; John Brown University

**Education**

**Kiosk: 2A**  
*Boys vs. Girls: Exploring Gender Equality in the Elementary Classroom*  
Katelyn Fitzsimmons; Bridgewater State University

**Kiosk: 22A**  
*Creating a Global Community: A Study of Global Competency in the Elementary and Special Education Teacher Candidates*  
Sarah Spaeth; Elon University

**Kiosk: 22B**  
*Interactive teaching of the Central Nervous System improves learning in second grade children.*  
Shannon Hamilton, Jaylyn Brown; Indiana State University

**Kiosk: 22C**  
*Sexuality Education and Sexual Health Disparities: A Comparison between the United States and the Netherlands*  
Farah Sheikh; University of Kentucky

**Kiosk: 63C**  
*The Impact of School Environment on Teachers’ Motivation in Sweetwater Elementary*  
Nusrat Mosharraf, Kyrsten Alvarez, Andres Roque, Roxanna Vargas; Florida International University

**Engineering/Engineering Technology**

**Kiosk: 2C**  
*A Closer Look at Poisson’s Ratio*  
Dennis Maguire; Loyola University

**Kiosk: 23A**  
*A Wearable Sensing Garment to Detect and Prevent Suit Injuries for Astronauts*  
Crystal Compton, Reagan Rockers; University of Minnesota, Twin Cities

**Kiosk: 23B**  
*Design and Construction of A Flow System For Testing Aerogels as Three Way Catalysts*  
Rebecca Knepple; Union College

**Kiosk: 64A**  
*Herbal Beer Infuser*  
Tyler Anderson, Lance Avey, Jonathan Carlin; Metropolitan State University of Denver

**Kiosk: 64B**  
*Microfluidics and Microfabrication as a Research Platform for Understanding Metastasis, Tumor Microenvironments, and Pharmacological Responses to Cancer*  
Jonathan Grabau; University of Kentucky

**Kiosk: 64C**  
*Signal Interference on Mobile Robots Testing*  
Dillon Allen, Lindsey Smith, Raymond Gonell, Taylor Carrick, Montrell Taylor, Jordan Peyton; Middle Tennessee State University

**Kiosk: 65A**  
*TWO-PHASE ENERGY SYSTEM*  
Eric Leaman, Jack Cochran; James Madison University

**Environmental Studies & Sciences**

**Kiosk: 3A**  
*A Biological Assessment of the Arthur Kill Ecosystem*  
John Grew, Jorge Ruiz, Bill Surena, Ousmane Kara; New Jersey City University

**Kiosk: 23C**  
*Chloride Monitoring at Coldwater Spring*  
Sophie Kasahara; University of Minnesota, Twin Cities
Poster Session 5

Kiosk: 24A
Evaluating the Habitat Suitability of the Bald Eagle Haliaeetus alascanus Along the Susquehanna River
Claudia Bartoli; Susquehanna University

Kiosk: 24B
Investigating the relative importance of local and global mercury sources in Pennsylvania
Gregory Gray, Ellis Neilly; Slippery Rock University of Pennsylvania

Kiosk: 65B
Pore Space and Concretion Distribution In a Prairie Mound Fragipan.
Grace Pelton; University of Kentucky

Kiosk: 65C
The effect of in-utero mercuric chloride exposure on lever learning (shaping) procedures in sprague dawley rats who's dams were fed a high and low selenium based diet
Atta Conduah; Tuskegee University

Geography & Earth Sciences

Kiosk: 3B
Bullet Boulder Striations: Implications for Drumlin Formation in Iceland
James Amato; University of Wisconsin, Milwaukee

Kiosk: 24C
Geometric Morphometric, Size-Frequency Distribution, and Taphonomy of Brachiopoda from the Hughes Creek Shale (Carboniferous) of Southeastern Nebraska
Daryl Johnson; University of Wisconsin, Whitewater

Kiosk: 25A
Peak Current and Polarity of Cloud-to-Ground Lightning Strikes in Multicell and Supercell Convection related to Polarimetric Radar Data
Levi Boggs, Kun-Yuan Lee; University of Nebraska, Lincoln

Health Sciences & Public Health

Kiosk: 4A
Passive Suicidal Ideation, Suicide Risk and Quality of Life among Veterans with Depression and Chronic Medical Conditions
Connie Wang; Rice University

Kiosk: 5C
They've got the next round, they can afford it: College alcohol consumption in relation to socioeconomic status
Charlie Chen; Miami University

Kiosk: 25B
An Application of the Rate of Adoption Theory Relevant to Personal Health Record Adoption
Brian Norman; University of Nebraska, Kearney

Kiosk: 25C
Comparison of Sanitation for Personal UV Lights and Bleach Spray
Jessica Ricchio; Western Carolina University

Kiosk: 26A
Estimated Costs of Alcohol-Related Negative Consequences in College Students
Kimberly Parent, Lauren Powers, Rachel Ronau, Mathew Giffin; Miami University

Kiosk: 26B
Financing College and Drinking Behaviors
Kristen Couch; Miami University

Kiosk: 26C
Outdoor Recreation and Health Indicators in Central Appalachia
Andrew Chapman; University of Virginia's College at Wise

Kiosk: 66A
Relationship between Cardiovascular Disease Risk and Fast Food Consumption in Undergraduate Honors College Students
Maitha Atta; East Carolina University

Kiosk: 66B
The Current Economic Impact on Youth Sports
Sheri Casey, Martinez Cristian; Utah Valley University
History

Kiosk: 4B
Blasting Off: How the Cold War Affected NASA’s Goals
Kolby Addis; Westminster College

Kiosk: 27A
INTERNMENT AND REPATRIATION: THE GENDERED BRITISH POLICY CONCERNING GERMAN IMMIGRANTS IN THE FIRST WORLD WAR
Emma Lagle; State University of New York, New Paltz

Interdisciplinary Studies

Kiosk: 4C
Engaging Undergraduate Students in Program Assessment – a Data Collection/Strategic Planning Project
Carolyn Wolff, Nicole Peters; University of Wisconsin, Eau Claire

Kiosk: 27B
Leadership Motives Behind the Interdisciplinary Undergraduate Research Journal
Anastasiya Martinova; Adelphi University

Kinesiology & Exercise Science

Kiosk: 5A
Comparison Between Traditional Arm Swing and Compact Arm Swing Techniques on One Mile Run Performance
Janelle Derbique; Gustavus Adolphus College

Kiosk: 27C
Differences among health related behavior choices between adults who choose an organic diet compared to those who do not.
Bradley Sermon; Gustavus Adolphus College

Kiosk: 28A
Gender Differences in Exercise and Alcohol Consumption
Abigail Gilligan; Miami University

Kiosk: 28B
The Effects of Exercise on Memorization
Ka Bao Vang, Katie Hopfner; Gustavus Adolphus College

Kiosk: 28C
Using the Functional Movement Screen to Assess Performance in the Occupational Athlete
Logan Thorp; University of Wisconsin, Milwaukee

Linguistics & World Languages

Kiosk: 5B
An Examination of 21st Century Appalachian English
Morgan Lancaster; Western Carolina University

Marketing

Kiosk: 6A
Creating a Digital Identity: Developing Materials for Integrated Media Arts
Christina Briggs; Juniata College

Kiosk: 29A
User Perception of Sponsored Posts on Social Media
Jennifer Whitford, Samantha Timmerman; Fordham University

Mathematics

Kiosk: 6B
An analysis of zebra mussel spread in the continental United States
Kiegan Rice, Thomas Scott, Josh Jacobson; Saint Olaf College

Kiosk: 29B
North Georgia Playfulness Scale (NGPS)
Samantha Duchscherer, Denver Coker, Katelyn Pitts, Georgianna Campbell; University of North Georgia

Microbiology & Immunology

Kiosk: 7A
Cold Loving Bacteria May Be Negatively Impacted By Climate Change
Joseph Hoffmann; Maryville University Saint Louis

Kiosk: 29C
Identification and Characterization of Salmonella Hyper-biofilm Mutants in Typhoid Carriers
Michael Neiger; Ohio State University
Kiosk: 30A
PREVALENCE OF METHICILLIN-RESISTANT STAPHYLOCOCCUS AUREUS AMONG WEBER STATE STUDENTS
AHMED MOHAMMED, RICHARD SCOTT; Weber State University

Kiosk: 30B
The Type IV Pilus of the Commensal Neisseria mucosa and Neisseria sicca Undergo Phase and Antigenic Variation
Courtney Marshall; Transylvania University

Music Research and/or Analysis
Kiosk: 7B
Interpreting audible intervals into visual learning tools for cognitive brain training and musical advancement
Caitlin Cowen; Nicholls State University-All Departments

Neuroscience
Kiosk: 30C
Determination of gamma-glutamyl cysteine ethyl ester efficacy using enzymatic analysis of oxidatively modified proteins in moderate traumatic brain injury
Jonathan Overbay; Eastern Kentucky University

Kiosk: 31A
Endogenous Expression of Chondroitin Sulfate Proteoglycans by HEK Cells
Jay Van Doorn; University of Kentucky

Kiosk: 31B
Lateral Amygdala Activation in Young Rats with Acquired Audiogenic Seizures
Elizabeth O’Neil; Appalachian State University

Kiosk: 31C
Peripheral Nerve Stimulation and Upper-Extremity Motor Training in Chronic Stroke
Emily Salyers; University of Kentucky

Kiosk: 32A
THE EFFECT OF COCAINE ON DELAY DISCOUNTING IN THE SPONTANEOUSLY HYPERTENSIVE RAT
Matthew Clasen; James Madison University

Kiosk: 32B
The Role of TUBB3 in Axon Guidance
Genevieve Bern; Hamline University, St. Paul

Nursing
Kiosk: 7C
A Team-based Approach to Internet Ethnography: Evaluating Community Needs in South Sudan, Central Africa
Clara Dalton, Marian Gemender, Michael Short, Lakesa Williams; Old Dominion University

Kiosk: 32C
Confidence and Competence: Undergraduate Nursing Student’s Self-Reported Levels of Confidence in CPR Competency
Amanda Balomaga; Dominican University of California

Kiosk: 33A
Exploring Racial Differences in Biomarkers, Stress and Anxiety Throughout Pregnancy
Corinna Hughes; University of Kentucky

Kiosk: 33B
Health Care Experiences of African American Women
Morgan Pennenberg; University of Wisconsin, Milwaukee

Kiosk: 33C
Mother’s Understanding the Effects of Diabetes on Reproductive-Health in Daughters with Diabetes: Implications for Preconception Counseling and Support
Jessica Choi; University of Pittsburgh School of Nursing

Kiosk: 34A
Rural women’s access to health care: are the global trends discussed in current literature represented in Colombia?
Kathleen Barth; Saint Olaf College

Kiosk: 34B
The Level of Volatile Organic Compounds Exposure in New Buildings: Can Adding Indoor Potted Plants Reduce Exposure?
Kelly Vazquez, Lydia Adams; University of Alabama in Huntsville
Nutrition

Kiosk: 8A
Gouda Cheese: Effects of Aging on Consumer Perception
Josey Pukrop; University of Wisconsin- River Falls

Physical/Occupational Therapy/Speech Language Pathology

Kiosk: 8B
Can core strength influence the knee valgus angle during a step down test?
Rachelle McKinley; University of Kentucky

Physics

Kiosk: 8C
Jamil Guevara, Lee Dunnavan; James Madison University

Kiosk: 34C
Light-Induced Structural Transformations in Spin Coated and Thermally Evaporated Chalcogenide Thin Films
Justin Cook; Austin PEAY State University

Kiosk: 35A
Nuclear Forensics: Radioactive Trace Analysis with HPGe Detectors
Ian Goldsmith-Rooney; University of Rochester

Kiosk: 35B
Spray Pyrolosis of Zinc Tungstate Thin Films
Brandon Zink; University of Wisconsin, La Crosse

Psychology

Kiosk: 9A
Effects of hibernation on the enteric nervous system of the thirteen-lined ground squirrels
Lauren Eliades, Amelia Ruiz; University of Wisconsin, La Crosse

Kiosk: 35C
Making Renal Physiology Fun to Second Graders
Patrick Doyle, Jennica Hipes; Indiana State University

Kiosk: 36A
The effect of the Rho-kinase inhibitor Y-27632 on alpha-actin and beta-actin cytoskeletal remodeling in resting and contracting A7r5 aortic smooth muscle cells
Sarah McClanahan; Morehead State University

Political Science

Kiosk: 9B
A Leap Toward the Poles: An Analysis of Political Polarization and its Influence on the Political Party
Adam Ironside; Saint John's University

Kiosk: 36B
Drone Warfare: A Look Into the Legality of the U.S. Drone Program
Marco Martinez; Carthage College

Kiosk: 36C
Realignment in the Republican Party on Public Lands and Wilderness Policy: The Electorate, Government, and Organization
Stephanie Pinkalla; College of Saint Benedict

Testing John Gottman's theories in a married student population.
Ty Martin; Utah Valley University

Kiosk: 10A
Animal-assisted Therapy Amongst Veterans
Kent Hinkson, Jr.; Utah Valley University

Kiosk: 37A
Assessing Race-Related Stress in Correspondence to Moral Consciousness and Self-Efficacy
Kiwane Kemp; University of Wisconsin, Whitewater

Kiosk: 37B
Beyond Depression: Maternal Neural Response Differs with Comorbid Anxiety Disorder
Heidi Martinez; University of Oregon
Kiosk: 37C
Child Sleep and School Liking and Avoidance
Allison Perkins, Eric Haak; University of Kentucky

Kiosk: 38A
COORDINATION OF GUILT AND REGRET: A DEVELOPMENTAL STUDY
Patricia Dirks; Weber State University

Kiosk: 38B
DMXB-A REDUCES THE DAMAGING EFFECTS OF DEVELOPMENTAL ETOH EXPOSURE IN AN IN VITRO RODENT HIPPOCAMPAL SLICE MODEL
Faiyad Mannan; University of Kentucky

Kiosk: 38C
Emotion Understanding as a Mediator of the Relationship Between ADHD Symptoms and Social Functioning
Holly Poore; University of Kentucky

Kiosk: 39A
Exploring the Effects of Developmental Alcohol Exposure in the Absence of Sensory Preexposure on Adolescent Drinking Habits
Rekha Gupta; University of Kentucky

Kiosk: 39B
Generous Behavior Index: Do Males and Females Display Generosity in Different Ways?
Obianuju Okonkwo; Sewanee

Kiosk: 39C
Implications of Personality Assessment for Social-Housed Rhesus Macaques (Macaca mulatta)
Elaine Bucknam; St. Mary’s College of Maryland

Kiosk: 40A
Is House the Next CSI? Medical Shows, Need for Cognition, and Perceptions of Physicians
Shelby Mytyk; Xavier University

Kiosk: 40B
Majors and Labeling through Self-Fulfilling Prophecies
Jerry Watkins Jr.; University of Wisconsin, Whitewater

Kiosk: 40C
Operant Conditioning in Anolis carolinensis and A. sagrei: Initial Shaping Procedures
Zoe Austin, Chris Dinges; Oklahoma State University

Kiosk: 41A
Perceptions of Child Sexual Assault in Criminal versus Civil Trials
Linnette Hacker; University of Kentucky

Kiosk: 41B
Preschool Children’s Ability to Convey Happy and Sad Emotions in Their Drawing
Erinn McConville; Gettysburg College

Kiosk: 41C
Relationship between ADHD symptoms and impulsivity traits in young adults
Kelly Slaughter; University of Kentucky

Kiosk: 42A
SEXUAL EXPECTATIONS OF INTIMATE PARTNERS AND PERCEPTIONS OF RAPE
Vanessa Tirabassi; University of Kentucky

Kiosk: 42B
Student Melatonin Use and Knowledge
Matthew Mignosa; Salisbury University

Kiosk: 42C
The cultural impact of rapid growth: A Cross-generational exploration of cultural values amongst citizens of the United Arab Emirates.
Jaffar Mahmoud, Abdullah Eissa Abushahab, Omar Khouri; Zayed University

Kiosk: 43A
The Effects of Alcohol and Energy Drinks on Simulated Driving
Desia Talbott; Northern Kentucky University

Kiosk: 43B
The Effects of Unilateral Hand Clenching and Emotion on Memory
Brooke Matheus; University of Wisconsin, La Crosse
SESSION 6

African American Studies
Kiosk: 11B
The Effects of Racism-Related Stress on the Health of African American Males
LaCherie Weathers; University of Wisconsin, Whitewater

Anthropology & Archeology
Kiosk: 11C
Estimating Live Deer Meat Weight from Archaeological Faunal Remains: A Case Study from Fox Farm, a large Fort Ancient (A.D. 1300-1650) site in Mason County, Kentucky.
Jonathan Davis; University of Kentucky

Kiosk: 45C
Mortuary and Religious Practices during the Classical Period at Naxos Island, Greece: Reflections through Zooarchaeology
Danaleah Schoenfuss, Jennifer Babayev; Adelphi University

Architecture & Interior Design
Kiosk: 12A
Urban Design for a Cultural Experience
Kacy Rhoades; University of Kentucky

Art Studio
Kiosk: 3C
Critical Fine Arts
Gwendolyn Patrick; San Diego State University

Astronomy
Kiosk: 12B
Spectroscopic Characterization of White Dwarf Candidates for Calibrating Dark Energy Survey
Mees Flx; Austin PEAY State University
Biochemistry

Kiosk: 12C
Biosynthesis of Base J by JBP1 and JBP2
Melissa Jennings; University of Georgia

Kiosk: 46B
Computational Docking Analysis to Increase Understanding of Chiral Drugs Metabolism
Jessie Meyer; Ouachita Baptist University

Kiosk: 46C
Effects of overexpression of the peptidyl-prolyl cis/trans isomerase Pin1 on oxidative stress in an Alzheimer Disease model APP/PS1 human double mutant knock-in mice
Jessime Kirk; University of Kentucky

Kiosk: 47A
Identification and Function of Novel Proteins in Lafora Disease and Glycogen Metabolism
Brienna Meffert, Vikas V. Dukhande, Elham Schokraie, Mary Katherine Brewer, Oliver Kötting, Matthew S. Gentry; University of Kentucky

Kiosk: 47B
Investigating the Role of Carboxy-Terminal Domain of RNA Polymerase II in Chromatin Remodeling and Gene Expression in Schizosaccharomyces pombe
Ruby Benn; Ithaca College

Kiosk: 47C
Regulation of a bacterial aggregation-promoting virulence factor by the RNA pyrophosphohydrolase
Kawen Zhang; Saint Louis University

Kiosk: 48A
The Influence of Catechol and Inhibitors on the Oxidation of L-Dopa by Potato Catechol Oxidase
Mitchell Schramel; College of St Scholastica

Kiosk: 48B
Using Protein Cages as T1 enhanced contrast agents for Magnetic Resonance Imaging
Riley Shearer; Montana State University, Bozeman

Biological Engineering

Kiosk: 13A
Comparative modeling of breast cancer metastasis in fibroblastic versus adipogenic artificial stromal tissues.
Jesse Robinson; University of Wisconsin- River Falls

Kiosk: 13B
Gold Nanoparticle siRNA Delivery To Treat Allergic Contact Dermatitis
Jared Fialkoff; University of Rochester

Kiosk: 13C
Scale Tractor Design for Development of Autonomous Control Systems
Joshua Harmon; University of Kentucky

Biology

Kiosk: 6C
Functions of the Fun30 Chromatin Remodeler in DNA Postreplication Repair and Heterochromatin Structure in Saccharomyces cerevisiae
Yanhan Ren; University of Rochester

Kiosk: 13C
A RELATIONSHIP BETWEEN STEM BASE DIAMETER AND LENGTH IN HEBACEOUS PLANTS
Hieu Van; College of Saint Benedict

Kiosk: 14A
An investigation of milk snakes, a coral snake mimic
Stephen Brick; Hendrix College

Kiosk: 14B
Annotation of fosmids on the 3L Chromosome of D. ananassae
Jackie Alexander; University of the Cumberlands

Kiosk: 14C
Average Size Threshold for Sex Expression between Male and Female Plants
Zainab Farooqui; University of Kentucky
Kiosk: 15A
Candida Parapsilosis Clinical Strains Reduce the Ability of Candida albicans to Damage Premature Intestinal Epithelial Cells
Margaret Shevik; University of Minnesota,Twin Cities

Kiosk: 49A
CHARACTERIZATION OF THE OLFACTORY BEHAVIORS OF WNT5 LOSS-OF-FUNCTION AND GAIN-OF-FUNCTION MUTANTS
Kathryn Yaeger; Brockport

Kiosk: 49B
Combating The Antibiotic Resistance Threat
Wardha Qureshi; Monmouth University

Kiosk: 49C
Do wolf spiders orient and navigate using magnetic fields?
Matthew Brady; Susquehanna University

Kiosk: 50A
Effects of Pioglitazone on Liver Cell Bioenergetics
David Grimm, Leo Altamirano; Eastern Illinois University

Kiosk: 50B
Evaluation of Pediatric Sickle Cell Disease Pulmonary Complications
Dakarai Moton; Dillard University

Kiosk: 50C
Extraction and Analysis of peptides from Traditional Chinese Medicine Herbs
Patrick Ovington, Olga Uvarov, Tyler Ovington; Clemson University

Kiosk: 51A
Identifying Bacteria Active in Supragingival and Subgingival Plaque of Healthy Adults
Marina Ojaimi; Baldwin-Wallace College

Kiosk: 51B
Investigating Pathogenicity in White-Nose Syndrome Among Hibernating Bats
Amanda Blackett, Angelique Irizarry, Kayla Kirby, Paul Nestor, Neal Banks, Pauline Shih, Megan Mackanos, Jenna Tisdale, Lindsay Tirrell; Miami University

Kiosk: 51C
Latitude and Environmental Pressure: their Impact on Carapace Shape in Three Species of Fiddler Crabs from Different Regions Across the Atlantic Ocean
Katherine Thomas; University of Northern Iowa

Kiosk: 52A
Molecular Identification of Aphid Species in Utah
Brianna Rhoads; Utah State University

Kiosk: 52B
Outdoor Weather Characterization for a Swine Transport Assessment
Dana Anderson; Northeastern Illinois University

Kiosk: 52C
Pro and anti inflammatory cytokines and their role in the spectrum of NAFLD and depression
Sweta Sedhai; George Mason University

Kiosk: 53A
Role of CGRP (Calcitonin Gene Related Peptide) in Thyroid C-cell line CA 77 for a Migraine Research Model
Shweta Chaudhary; George Mason University

Kiosk: 53B
Simple Method to Immobilize Cultured VX2 Cells Using Alginate Hydrogel Beads
Joseph Ehrenreich; University of Scranton

Kiosk: 53C
Spontaneous alternation behavior in three genotypes of mice exposed to polychlorinated biphenyls during gestation and lactation
Josephine Brown; Northern Kentucky University

Kiosk: 54A
TGF-Beta induction in dermal fibroblasts and progenitor stem cells increases type 1 collagen gene expression in vivo
Brandi Tacdol, Brandi Tacdol, Michael Malabed; Dominican University of California

Kiosk: 54B
The effects of topotecan on nuclear RanGTP levels in HeLa cells
Sarah Broskin; Westminster College
Kiosk: 54C
The link between handedness and schizophrenia
Kira Eicher; California University of Pennsylvania

Kiosk: 55A
The Role of KNOX Genes During Simple and Compound Leaf Development in the Genus Ampelopsis (Vitaceae)
Allie Simpson; University of Northern Iowa

Kiosk: 55B
The Transportation and Accumulation of Iron Oxide Nanoparticles in Arabidopsis Plants
Sarah Cox; University of Alabama

Kiosk: 55C
Wound Healing in a Petri Dish?
Danielle Perlingiere, Kyle Williams, Yee Woon Yap; University of Central Oklahoma

Kiosk: 66C
Inhibitory effects of Aloe species against Candida albicans, an opportunistic pathogen
Allison Gordon; Miami University

Cell & Molecular Biology

Kiosk: 15B
A Radial Diffusion Assay for the Rapid Evaluation of Antimicrobial Peptides
Dustin Walter; Ouachita Baptist University

Kiosk: 15C
Characterization of Cadherin Expression in Retinoblastoma Cell Lines
Laura Knapik; Bridgewater State University

Kiosk: 16A
Elucidating the Mitochondrial Targeting Sequence of the Yeast Flap Endonuclease (Rad27)
Sarah Joseph; University of Rochester

Kiosk: 16B
Gene Expression Levels of Breast Cancer Cells Treated with Selenium Derivatives
James Bastin; University of Kentucky

Kiosk: 16C
Imaging Intracellular Fatty Acids in Brown Adipocytes
George Paul; Wayne State University

Kiosk: 56A
Maternal Exercise Delays Tumorigenesis in Mouse Offspring
Toria Fischer; University of Kentucky

Kiosk: 56B
Nutritional Requirements for Protein Production in the Male Accessory Glands of Tribolium castaneum
Ashlee Anciro; University of Kentucky

Kiosk: 56C
Sensitization of Human Prostate Cancer and Hepatocellular Carcinoma to Current Chemotherapies by AR-Degradation Enhancer ASC-J9
Joshua Cho, Max Cheng; University of Rochester

Chemical Engineering

Kiosk: 17A
Metabolism of Terpenoid Indole Alkaloids from Catharanthus roseus Hairy Roots
Ehsun Angadjivand; University of Minnesota, Duluth

Chemistry

Kiosk: 1B
The Expression of Drug Transporters and Interacting Proteins in Cytosolic and Membrane Fractions Using Caenorhabditis elegans
Steven Pifer; Appalachian State University

Kiosk: 17B
An Investigation of Extracting Gold on a Small Commercial Scale
Katherine Wehde; Ohio State University
Kiosk: 17C
Balancing the Intermolecular Forces in Peptide Amphiphiles for Self-Assembly
Michael Nicholl; Ohio State University

Kiosk 18A
Computer Modeling of Tholins in the Atmosphere of Titan
Walter Para; Eastern Kentucky University

Kiosk: 18B
Direct Detection Of Physiological Glucose Through Gold Nanoparticle Formation
Ian Campbell, Sarah Unser, Jenifer Hatch; University of Cincinnati

Kiosk: 18C
Electrochemical Characterization of the Dye Mediator Indigo Tetrasulfonate
Baoyuan Liu; University of Wisconsin, Milwaukee

Kiosk: 18C
Formation of Copper Coordination Complexes
Jamie Vescio, Jamie Vescio, Amanda Bowman; Transylvania University

Kiosk 58A
Increasing the Proficiency of Copper-Catalyzed Azide–Alkyne Cycloaddition (CuAAC) Reactions in Live Cells
Dema Shobaki; University of Houston

Kiosk: 58B
Isolation of Compounds from Plant Sources, Including Traditional Medicines
Ariel Stephenson, Yvonne Ejorh, Breanna Price, Josiah Opeke, Jacob Basham; Middle Tennessee State University

Kiosk: 58C
Novel Bioactive Compounds Produced by Juniperus osteoperma
Kip Brower, Kip Brower, Megan Black; Utah Valley University

Kiosk: 59A
PHYSICAL BEHAVIORS OF IONIC LIQUIDS IN LOW POLARITY SOLVENTS
Elise Cade; State University of New York, Brockport

Kiosk: 59B
Producing Fuel from Carbon Dioxide
Jamie Stafford; Lamar University

Kiosk: 59C
Solid-phase synthesis organic molecule arrays on planar supports: a teaching and research tool
Benjamin Mohr; Ohio State University

Kiosk: 60A
Surface Modification with Phosphonium Polyelectrolytes
Kara Jolly; Clemson University

Kiosk: 60B
Synthesis of Compounds for the International Clinical Compound Library (ICCL) Project
Nicholas Krabacher, Jacob Stephens; Xavier University

Kiosk: 60C
Synthesis, Characterization, and Electrochemical Properties of a Series of Trispyrazolylborate Nickel Complexes

Kiosk: 59C
Solid-phase synthesis organic molecule arrays on planar supports: a teaching and research tool
Benjamin Mohr; Ohio State University

Kiosk: 60B
Surface Modification with Phosphonium Polyelectrolytes
Kara Jolly; Clemson University
Alycia Frampton; Susquehanna University

Kiosk: 61A
The Development of a Verification Method for the Field Detection of Trace Illicit Drugs Using Ion Mobility Spectrometry
Alexandria Combs, Daniel Wicker; Centre College

Kiosk: 61B
Unimolecular Rate Constants for the 1,2-HCl Eliminations From Chemically Activated CF3CH2CCI3, CH3CH2CCI3, and CH3CCI3
Martha Turpin; University of North Carolina, Asheville
Communications

**Kiosk: 19A**
*Effects of Heuristic Cues on Information Processing and Attitude Formation in Social Media Marketing*
Jason Waterman; Elon University

**Kiosk: 61C**
*Modern Food and Drink Television Commercials: Reinforcing Children's View of Gender Role Stereotypes*
Ashley Moy; Virginia Commonwealth University

**Computer Science**

**Kiosk: 19B**
*An Adaptive Online System for Calculating Lexical and Sublexical Components of Children's Literature*
Jennifer Gerometta, Stephen Rodriguez, Eleni Catechis, Evan Johnson, Taylor Makinen, Matthew Stelnicki, Rina Rexha, MaryKate Ryan, Alexis Perez; Iona College

**Kiosk: 19C**
*Efficient Assembly of DNA sequence using Genetic Algorithm*
Parasher Ghimire; Fisk University

**Kiosk: 62A**
*Multi-texture Analysis of Satellite Images using Bayes Point Machine*
William Rich; Austin PEAY State University

**Kiosk: 62B**
*Topic Segmentation and Text Coherence Detection in Wikipedia using Latent Semantic Analysis*
Martin Torres, Tiffany Chu; California State University Stanislaus

**Ecology & Organismal Biology**

**Kiosk: 1C**
*A Comparison of Peruvian and Ecuadorian Devils Gardens*
Alexander Baxa, Jacob Herr; Saint John's University

**Kiosk: 20B**
*Aboveground and belowground interaction of hydrogen cyanide and extrafloral nectary expression in Lima bean (Phaseolus lunatus)*
Cara Smith; Susquehanna University

**Kiosk: 20C**
*Does Pond Size Matter? Fall Odonate Pond Size Preferences on the Jacksonville University Campus, Jacksonville, Florida*
Ariel White; Jacksonville University

**Kiosk: 21A**
*Influence of Habitat on Ebony Jewelwing, Calopteryx maculata, Mating Activity and Movement in South Brook, Bridgewater, MA*
Rachel Toews; Bridgewater State University

**Kiosk: 62C**
*Reproductive Investment and Fecundity in Callosobruchus maculatus; A Re-examination of Bateman's Principle.*
Ajibola Bakare; Transylvania University

**Kiosk: 63A**
*Using Bioacoustics to Monitor Amphibian Species in Urban Wetland Sites*
Michael Fuerte; University of Wisconsin, La Crosse

**Economics**

**Kiosk: 21B**
*Consumer Confidence Indicators for Northern Minnesota and Northwest Wisconsin*
Calvin Wing; University of Wisconsin, Superior

**Kiosk: 21C**
*Market strategy of Chinese Educational Agencies*
YiFan Zhu; Ohio State University
Kiosk: 63B
Variables Influencing Student Success and Success in the Work Force
Connor Lewis, Amanda Wiener; University of Minnesota-Morris

Kiosk: 2A
Break Before You Start
Alexandria Wages Robinson, Allison Blair; Morehead State University

Kiosk: 22B
Investigating the effects of the use of robotic patient simulators on pharmacy teaching at the University of Central Lancashire
Anwar Irhouma; University of Central Lancashire

Kiosk 22C
Kristin Arnold; Bridgewater State University

Kiosk: 63C
The pursuit of STEM (Science, Technology, Engineering and Math) careers from a Middle Eastern Perspective
Alyssa Sandner; Montana State University, Bozeman

Kiosk: 2B
Evolvable Mixed-Signal Hardware Engine for PSoCs
Ian Barge; Milwaukee School of Engineering

Kiosk: 23B
Design of the Next Generation of Gel Phantom Mimics
DeMarkus Butler; University of Kentucky

Kiosk: 23A
Anti-icing Effectiveness on Pavements
Thu Nguyen, Andrew Pfeffer; Minnesota State University, Mankato

Kiosk: 64B
Modeling and Sizing of Energy Storage Devices for Wind Power Generation
Darwin Cordovilla; University of Evansville

Kiosk: 64C
Strength Testing of Welded Pre-manufactured Modular Systems
Robert Kostick; University of Minnesota, Duluth

Kiosk: 64A
Hotwire Measurement System for Investigation of Rotating Stall Inception in the University of Kentucky Low Speed Axial Compressor
Elisabeth Morris; University of Kentucky

Kiosk: 65A
Water Infrastructure and Sustainability and Health in Alabama’s Black Belt
Holly Poole; University of Alabama

Kiosk: 3A
A Four Year Mathematical Analysis as a Predictor of Dams Impact on Biodiversity and Stream Recovery
Aimee Turner; Drexel University

Kiosk: 23C
Comparison of the Ecology of three Agricultural Soils, one treated with Synthetic Pesticides, one with Organic Pesticides, and one without any Pesticides.
Caitlin Birmingham; California University of Pennsylvania

Kiosk: 24A
Examining Air Quality and Synoptic Meteorology from 2002-2012, in Houston, Texas
Kaitlin Leachman; Texas Tech University

Kiosk: 24B
Irrigation Project
Lauren Settles, Brad Hagan; University of Kentucky
Kiosk: 65B
Predatory Insect Populations in Native Perennial and Pasture Borders in Central Kentucky
Leticia Estill, John Sedlacek, Karen Friley; Kentucky State University

Kiosk: 65C
The effect of in-utero mercuric chloride exposure on spatial discrimination in sprague dawley rats who's dams were fed a high and low selenium based diet
Porsha Thomas; Tuskegee University

Geography & Earth Sciences

Kiosk: 3B
CHARACTERIZING WATER-RELATED LAND USE DIFFERENCES ACROSS URBAN RIVER REACHES
Dusty Pilkington; Weber State University

Kiosk: 24C
Glacier Recession on Kilimanjaro: A Comparison of Different Mapping Approaches
Sarah Pierce; Westfield State College

Kiosk: 25A
Polarimetric radar analysis of the microphysics of charge separation in an MCC event on June 15, 2013
Kun-Yuan Lee, Levi Boggs; University of Nebraska, Lincoln

Health Sciences & Public Health

Kiosk: 4A
"Don't Give Up We Can Help! Oral Treatment for the Oncology Patient"
Kimberly Conley, Farrah Keedy; Westmoreland County Community College

Kiosk: 5C
TRAUMATIC KNEE INJURY IN A COLLEGIATE FOOTBALL PLAYER
Nichole Eads; Western Carolina University

Kiosk: 25B
An EMS Stress Model and Clues to Why they Quit
Cassandra Southam, Cassandra Southam, Kent Hinkson; Utah Valley University

Kiosk: 25C
Deep Thigh Pain in a Female Collegiate Softball Catcher: A Case Report
Theresa Lau; Ithaca College

Kiosk: 26A
Evidence-Based Anterior Cruciate Ligament Orthopedic Special Tests Vs. Gold Standard In Clinical-Based Practice
Tabitha Maurer; California University of Pennsylvania

Kiosk: 26B
Gender Differences in the Link between Hooking Up and Alcohol
Dana Nocera, Rose Marie Ward; Miami University

Kiosk: 26C
Patterns of Disordered Eating and Body Perception among the Dietetics Student Social Network
Teresa Schwendler; Miami University

Kiosk: 66A
Replacing standard amniocentesis with cff DNA testing
Danarubini Ramanan; Virginia Commonwealth University

Kiosk: 66B
The Effect of Communication Partner Training on AAC Users
Jessica Phillips; Eastern Illinois University

History

Kiosk: 4B
Brown v. Board: The Racial Meridian
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GPU Accelerated Approach to Numerical Linear Algebra and Matrix Analysis with CFD Applications
Adam Phillips; University of Central Florida

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Shannon Esswein; University of California, Los Angeles

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Danel Salazar; University of Rochester

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Laura Mortenson; Utah State University

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Emily Hofmann; Northern Kentucky University

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Ju-Yeon Lee; University of California, Los Angeles

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Sarah Nainar; Washington and Jefferson College

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Christopher Dawson; University of Rochester

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NADERA DABBAIN, JUSTIN GRAFF, ZANA MAJEED, ROBIN COOPER; University of Kentucky

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Cameron Ketch, Shane Maryott, Jared Roberts; Utah Valley University

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Brittany Conroy; University of Nebraska at Omaha

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Beth Klein, Benjamin Massat; Carthage College

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Alina Burks; Hamline University

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Ebrahim Afshinnekooh; Macaulay Honors College - Queens

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Sierra Thompson; University of Kentucky

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Bisola Asaolu, Mai Vue; Minnesota State University, Mankato

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Elizabeth Del Greco, Vivian Ong; Dominican University of California

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Medina Baitemirova, Lukas Cara; University of St. Thomas

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Karenzha Huwae; Minnesota State University, Mankato

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Katelyn Butler; Berea College

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Lindsay Molinaro; Anoka-Ramsey Community College

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Benjamin Poznic; Eastern Illinois University

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Katherine Updike, Michaelyn Hartmann, Cory Stewart, Kathleen Farry; Siena College

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Jonah Pearson; Concordia College, Moorhead MN

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Kendall Huddleston; University of Kentucky

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Matthew Moesta; Penn State Erie, The Behrend College
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Lori-Ann Williams; Kalamazoo College - General Office

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Dylan Perraut, Connor Smith, Kevin Elmer; Eastern Kentucky University

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Thu Nguyen; Eastern Washington University

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Paul Chazovachii; College of St Scholastica

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Stephanie Carpenter; University of Kentucky

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Natalie Fedder; Eastern Illinois University

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Maximilian Eveleth; Roanoke College

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Chelsea Choi; University of Rochester

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Danielle Rigley; George Mason University

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Brendon Mendoza; University of Wisconsin, Whitewater

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Nicole Akin; Bridgewater State University

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Allison Hodorowicz; University of Wisconsin, Whitewater

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Matt Ball; University of Utah

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*Impact of Leisure Noise Levels Revised (Case Study)*
Brian Connolly; University of North Carolina, Asheville

Kiosk: 24B
*Looking at Crime Through a Public Health Lense*
Mary Hughes; Western Carolina University

Kiosk: 65B
*Regeneration of M. acuminata in Tompkins County, NY*
Rebecca Sibner; Ithaca College

Kiosk: 65C
*The effect of streamside management zones on substrate colonization patterns by aquatic insects*
Anne Preston; Transylvania University

**Geography & Earth Sciences**

Kiosk: 3B
*Climate Change Across North America According to the Koppen Classification Scheme*
Ashley Vedvig; University of Wisconsin, Whitewater

Kiosk: 24C
*Johnny Appleseed: Trees and Travels, Matthew Hellyer*
Matthew Hellyer; Carthage College

Kiosk: 65A
*Water Sustainability Through Rainwater Harvesting: Design and Outreach*
Taylor Hinkle, James Allard, Nathaniel Morhouse; Norwich University
Kiosk: 25A
Seeing Past the Aisle: Community views on local and alternative food networks
Alexandra LaBonte; University of Wisconsin, Whitewater

Kiosk: 4A
A Comparative Analysis of the Relationship Shared by Sleep Disorders and Diabetes: A Review
Jess Copeland; Boise State University

Kiosk: 25B
An Evaluation of Motivators for Colonoscopy Screening Compliance
Holly Wright, Holly Wright; Weber State University

Kiosk: 25C
Do You Think That Electronic Health Record’s Will Deliver Better Quality of Care?
Vanessa Murphy; Westmoreland County Community College

Kiosk: 26A
Exploring college student alcohol consumption patterns through social network analysis
Rachel Ronau; Miami University

Kiosk: 26B
Halloween and Alcohol Consumption
Christina Xidas; Miami University

Kiosk: 26C
Perceptions of Malaria in Khwisero District, Kenya
Leanna Hansen; Montana State University, Bozeman

Kiosk: 66A
Risk of Incident Heart Failure and Mortality in Older Former Smokers with up to 15 years of Abstinence: Findings from a prospective population study
Amiya Ahmed, Kanan Patel, Inmaculada Aban, Ali Ahmed; University of Alabama at Birmingham

Kiosk: 66B
THE EFFECT OF PULSED SHORTWAVE DIATHERMY, MOIST HOT PACK AND PASSIVE STRETCHING ON HAMSTRING FLEXIBILITY
Sarah McNamara; Western Carolina University

History
Kiosk: 4B
Campaigns for the Land of the Great Khan: the Chinese and Russian Struggle for Hegemony over Outer Mongolia, 1911 – 1922
Zi Yang; George Mason University

Interdisciplinary Studies
Kiosk: 4C
Identification of the Role of Endosymbiotic Bacteria in Marine Environments: An Interdisciplinary Approach to Biological Research
Andrew Martin, Kurtiss Keefner; Massachusetts College of Liberal Arts

Kiosk: 27B
Monitoring the Effects of a High Capacity Well on Upper Phantom Lake, Wisconsin
Eric Doescher; University of Wisconsin, Whitewater

Kinesiology & Exercise Science
Kiosk: 5A
Comparison of Hip Flexor Length Between Collegiate Hockey Athletes and Collegiate Non-Athletes and Implications for Low Back Pain
Maggie King, Molly King; Gustavus Adolphus College
Kiosk: 27C
Differences in Body Image and Perceived Versus Actual Weight and Body Fat Percentage Between Individual Sport Athletes, Team Sport Athletes, and Non-Athletes
Brennan Benson, Anderson Amber; Gustavus Adolphus College

Kiosk: 28A
Party Now Pay Later: The Effect of College Alcohol Consumption on Future Income
Denise Buenger, Teresa Schwendler, Dana Nocera, Scarlett Shader; Miami University

Kiosk: 29A
Identifying Critical Components of A Bacterial Adaptive Immune System
Joshua Carter; Montana State University, Bozeman

Kiosk: 29B
Parameter Optimization for Preprocessing in fMRI Brain Image Analysis
Alessandra Mitchell; Slippery Rock University of Pennsylvania

Microbiology & Immunology
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Discovery and Characterization of Bacteriophage Larenn
Allyson King; Western Kentucky University

Kiosk: 29C
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Melissa Zins; University of Wisconsin, La Crosse

Kiosk: 30A
Virus Populations in Plasma and Tissues are Well-Mixed in RT-SHIV-Infected Macaques
Charles Coomer; Western Kentucky University

Kiosk: 30B
Studying the role of serotonin in neural circuit modulation and behavior in Drosophila melanogaster
Aubrey Bankemper, Zana Majeed, Robin Cooper; University of Kentucky

Neuroscience
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The Role of Dopamine Homeostasis on Dopaminergic Neuron Morphology, Function, and Fate in Drosophila
Douglas Potts, Josh Titlow, Robin Cooper; University of Kentucky

Kiosk: 7B
A Single Enrichment Experience Activates Layers of Entorhinal Cortex in Rat
Casey Carlay; Appalachian State University

Kiosk: 9B
Developmental Differences in Implicit Learning of the Serial Reaction Time Task
Ishan Patel, Nikhil Adapa; Wayne State University
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<td>Nikhil Ailaney; Virginia Commonwealth University</td>
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<th>Nursing Roles in Predicting Adverse Events in Hospitalized Patients</th>
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<td>Julia Roland; Baylor University Waco-University Development</td>
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<td>Victoria Buck; University of Pittsburgh School of Nursing</td>
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<td>Quincy Conrad; University of Wisconsin - River Falls</td>
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<th>Garment-integration and Washability of E-Textile Stretch Sensors for Astronauts</th>
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Kiosk: 8C
*Design of Optical Cavity for Atomic Frequency Comb Based Quantum Memory*
Colin Cattanach; George Mason University

Kiosk: 34C
*Metropolis Algorithm for Computational Molecular Modeling*
Samuel Cupp; Austin PEAY State University

Kiosk: 35A
*Organic Inorganic Hybrid High Reflectivity Bragg Mirrors*
Anthony Donato; University of West Georgia

Kiosk: 35B
*The Effect of Sonication and Surfactant Addition on the Properties of CNT/PMMA Composite Nanofibers*
Valeria Capel; University of Puerto Rico at Humacao

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Kiosk: 3C
*The effects of K+ on skeletal muscle and synaptic transmission in relation to deep tissue injury of muscle*
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Tin Nguyen; University of the Incarnate Word

Kiosk: 35C
*MitoNEET Expression and Oxidative Capacity in Neuronal Cell Based Models*
Julia Ross; University of Rochester

Kiosk: 36A
*The role of proteolytic processing in ENaC recycling and trafficking*
Saad Ahmed; Washington and Jefferson College

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Kiosk: 36B
*Foreign Influence in US Presidential and Congressional Elections*
Emily Hurtt; University of Kentucky

Kiosk: 36C
*SOCIAL CONNECTIVITY AND THE YOUTH VOTE: COMPARING YOUTH VOTER TURNOUT IN 1992 AND 2008*
Daniel Simmons; Weber State University

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Kiosk: 9C
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Alec Manuel; University of Kentucky

Kiosk: 10A
*Approach/Avoidance & Action/Inaction: Priming Health Behavior*
Alexandra Azanov; University of Michigan

Kiosk: 28C
*Integrating with Grace*
Maria Matty; University of Tennessee at Chattanooga

Kiosk: 37A
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Gavin Allman; University of Central Lancashire

Kiosk: 37B
*Blood Alcohol Levels and Hangover Symptoms*
Christina Stone; Miami University

Kiosk: 37C
*College Bullying: An Exploratory Analysis*
Amelia Perry; Longwood University

Kiosk: 38A
*Detection of Sexual Orientation as a Function of Ovulation*
Tyler Bridges-Parlet; University of Wisconsin, Eau Claire
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Does The Importance of Moral Identity Predict (Un)Fair Behavior
Breana Gallagher, Vincent Reginella; Allegheny College

Kiosk: 38C
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veronica angel; Eastern Washington University

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Facial Feedback Hypothesis, Empathy and Faces
Kristina Cotroneo; Adelphi University

Kiosk: 39B
Handling Environmental and Internal Stressors in the Appalachian Region
Cody Nevins, Danielle Balsamo, Brittany O’Bryant, Daniel Hatch (PhD), Toralf Zschau (PhD); University of North Georgia

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Kiosk: 39C
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Giulia Zanini; Northern Illinois University

Kiosk: 40A
Item Specific Processing Reduces False Memory in Collaborative Triads
Morgan Hale, Lauren Cook; University of North Georgia

Kiosk: 40B
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Rachel Johnson; University of Wisconsin, Milwaukee

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Overcoming Gender Stereotypes of Spatial Abilities by Activating the Self-Serving Bias May Reduce Stereotype Threat
Sara Brunner; Black Hills State University

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Nina Talavera; University of Kentucky

Kiosk: 41B
Psychological Correlates of Mindfulness in Healthy Young Adults
Hemapreya Selvanathan, Tom Gugel, Zachary Donovan; University of Wisconsin, Eau Claire

Kiosk: 41C
Resiliency and Red Flags of PTSD and Suicide Among Utah EMS Personnel
Steven Clements, Kent Hinkson Jr.; Utah Valley University

Kiosk: 42A
Shades of Envy: The Effect of Sustained Envy and Target Likeability on Envy through Time
Logan Leatham; University of Kentucky

Kiosk: 42B
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Christina Bounds; Eastern Illinois University

Kiosk: 42C
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Jacob Levine; Dominican University of California

Kiosk: 43A
The Effects of Arousal and Disfluency on Confirmation Bias
Nancy Guzman; North Central College

Kiosk: 43B
The Impact of Defendant Demeanor on Mock Jurors’ Perception in a Child Sexual Abuse Trial
Faria Morshed; University of Kentucky

Kiosk: 43C
The Relationship between Childhood Stress, Personal Wellness, and Current Perceived Stress in Young Adults
Edward Diemer; Wartburg College

Kiosk: 44A
The Use of the Drug Propranolol to Reduce the Development of PTSD in Returning American Combat Soldiers
Mounika Abbareddy; Virginia Commonwealth University

Kiosk: 44B
What Would Authoritarians Do? Social Norms versus Submission to Authority
Daniel McClung, Shayna Yeates; Juniata College
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Kiosk: 10B
Faith-Based Social Services Offered by Churches to Communities in Central Chile
Hannah Yoder; Christopher Newport University

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Kiosk: 10C
GENDERED EFFECTS OF SCHOOL-AGED BULLYING ON EMERGING ADULTHOOD
Kristin Ziehl; University of Wisconsin, Stout

Kiosk: 44C
Pussy Riot, Putin and Internet Memes: The Limits of Soviet Style Authoritarian Leadership in the Internet Age
Tatiana Rosario; Beloit College

Kiosk: 45A
The Impact of a Citation on Underage Drinking Behaviors
Daniel Gissing, Jenalee Grabowski; University of Wisconsin, Stout

Sustainability

Kiosk: 11A
Comparative analysis of Bacillus thuringiensis serovar Israelensis (Bti) and Bacillus sphaericus (BS) against Culex spp. larvae in laboratory and field assays
Omar Cossio, Tashay Brown; Johnson C Smith University

Kiosk: 45B
RAINWATER HARVESTING IMPLEMENTATION INSTITUTIONAL AND HUMAN-RELATED OPPORTUNITIES AND CONSTRAINTS
Stephanie Mitts; Weber State University

Kiosk: 45C
The Sense of Wonder and the Humility It Takes
Lauren Madison; Hope College

SESSION 8

Anthropology & Archeology

Kiosk: 11B
All Eyes on Hurston
Jaclynn Morrow; University of Wisconsin, Oshkosh

Kiosk: 11C
Exploring the Relationship between Modernity and Religious Traditions in Contemporary India
Emily Schueller; Ohio State University

Art History

Kiosk: 12A
Egypt’s Controversial Zahi Hawass
Robert Pristas; Radford University

Arts Education

Kiosk: 3C
The Design Educational Philosophy of the Early Bauhaus Applied to the VCUarts Art Foundation Program
Emily Kieber; Virginia Commonwealth University

Biochemistry

Kiosk: 12B
The Interaction of Gonadal Hormones with the Hypothalamic-Adrenal-Pituitary Axis and Its Consequences of the Development of Post-Traumatic Stress Disorder: An Analysis
Lindsay Kunik; Virginia Commonwealth University

Kiosk: 12C
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Oresta Borodevyc; Drexel University

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Contribution of the N-terminal Domain of Human Lysyl-tRNA Synthetase to tRNAlys Binding
Jacob Calhoun, Pearl Tsang, Sruthi Sundaram; University of Cincinnati
Kiosk: 46C
Fluorescence Analysis of Modified CUG RNA Repeats Responsible for Myotonic Dystrophy 1
Julie Kibui, Julie Kibui, Andy Berglund, Elaine DeLorimier; Marywood University

Kiosk: 47A
Identifying Factors Responsible for Incomplete N-terminal Deformylation of Recombinantly Expressed Anti-TRAP
Jane Corwin; Ohio State University

Kiosk: 47B
Kinetic Parameter Derivation from Elementary Rate Laws and Easily Measurable Parameters
Zachariah Ingram; University of Alabama at Birmingham

Kiosk: 47C
Studying the Effects of Vitamin E on the Degree of Lipid Peroxidation in the Model Membrane System
Regina Friedl; Walsh University

Kiosk: 48A
The Mechanism of Acrolein-Induced Vascular Endothelial Permeability
Rajshekhar Basak; Macaulay Honors College - City College

Biological Engineering

Kiosk: 13A
Design, Construction, and Screening of an Alternative Scaffold Protein-Binding Combinatorial Protein Library
Samantha Mullins, Jessica Gambrel, Griff Motes; University of Kentucky

Kiosk: 13B
Imaging the Three Dimensional Microstructure of Collagen Gels by Focused Ion Beam Scanning Electron Microscopy
Niloofar Farhang; University of Utah

Kiosk: 14A
Analysis of changes in Daphnia heart rate in response to environmental stimuli using video recordings
Cody Groen; Saint John's University

Kiosk: 14B
Application of Phage Display Technology to Establish Binding Partners to the Autophagy Protein ATG8 from Evolutionarily Diverse Organisms
Danielle Wingerter; University of Kentucky

Kiosk: 14C
Beta Trait Diversity Along a Shade Gradient in Pine Barrens in Western Wisconsin
Justin Walkoviak, Amanda Reed, Quinn Collins; University of Wisconsin, Eau Claire

Kiosk: 15A
Cell Proliferation in the Telecephalon of Adult Garter Snakes is Not Affected by Vomeronasal Nerve Lesions
Erin Davidowicz, Margaret Gerardi; SUNY Geneseo

Kiosk: 49A
Characterization of Transposable Elements from the En/Spm Family in Coprinopsis cinerea
Colleen Britain; Roanoke College

Kiosk: 49B
Comparison of Column Chromatography Techniques For The Purification of Influenza A/NWS/33 (H1N1) Virus
Jorgen Madsen; Utah State University
Kiosk: 49C  
Dopamine and Proline Induced Abnormalities in Zebrafish and Human Neuroblastoma Cells: Implications for the Pathogenesis of Schizophrenia  
Courtney Veilleux; Iona College

Kiosk: 50A  
Embryo Growth in Various Monocot Families  
Claudia Mendoza; University of Kentucky

Kiosk: 50B  
Evidence of specialization in two populations of the red headed pine sawfly, Neodiprion lecontei  
Mary Collins; University of Kentucky

Kiosk: 50C  
Fecal score evaluations of pre-weaned dairy calves in group housing  
Morgan Kittell; University of Wisconsin - River Falls

Kiosk: 51A  
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Kolin Konjura; University of Wisconsin, Milwaukee

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Ameya Kulkarni; NC State University

Kiosk: 51C  
Making an RNA interference (RNAi) library to screen virulence phenotypes in the pathogenic yeast, Cryptococcus neoformans.  
Matthew Alexander; Western Carolina University

Kiosk: 52A  
Morlin, Mode and Mechanisms of Action  
Jarrad Gollihue; University of Kentucky

Kiosk: 52B  
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Gregory Shanley; Morehead State University

Kiosk: 52C  
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Adam Kleinman; North Central College

Kiosk: 53A  
Scarless Wound Healing: Increased Collagen Deposition Along Wound Edge in Human Fibroblasts vs. hES cells  
Eileen Ing, Roxanne Bartolome, Tam Nguyen; Dominican University of California

Kiosk: 53B  
Social Stress in Group Housing of Male Side-Blotched Lizards  
Marilize Van der Walt; Utah State University

Kiosk: 53C  
Strategies for Analyzing Genome Evolution In H5N1 Influenza  
Paeton Wantuch; University of Wisconsin, Whitewater

Kiosk: 54A  
The Analysis of KCTD Gene Expression on Adipose Tissue Function in Diet Induced Obesity  
Kuan Yao; George Mason University

Kiosk: 54B  
The Functional Morphology of the Intervertebral Articular Surfaces of Prehensile and Nonprehensile-Tailed Anthropoids: A 3D Perspective  
Michael Miller; University of Kentucky

Kiosk: 54C  
The Next Microscope: Academic Synthesis of Biology and Mathematics  
Megan Campbell; Saint Olaf College

Kiosk: 55A  
The Role of the COP9 Signalosome in Insect Leg Development  
Monique McLeary; North Carolina State University

Kiosk: 55B  
Understanding the role of MQO and Malic Enzyme in growth of the plant pathogen DC3000  
Zabrina Ebert; Elmhurst College
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**Business/Finance/Accounting**

**Kiosk: 1A**
Commitment on Withdrawal Cognitions at Wittenberg University
Ana Paula Veiga, Megan Loofbourrow; Wittenberg University

**Cell & Molecular Biology**

**Kiosk: 15B**
An Immunocytochemical Analysis of the Signaling Pathway blimp-1 in Sea Urchins Embryos Treated with Thalidomide
Sheila De Young, Justin Ward; Susquehanna University

**Kiosk: 15C**
Comparison of Methods of Sample Preparation and Nucleic Acid Extraction in Detection of Norovirus
Merci Duffy; Milwaukee Area Technical College

**Kiosk: 16A**
Estrogen mediated regulation of TGFbeta pathway signaling in cardiac hypertrophy
Payton Malone; Eastern Kentucky University

**Kiosk: 16B**
Genetic interactions of telomere binding proteins in yeast.
Alice Nakasone; Barry University

**Kiosk: 16C**
Inhibition of Cell Growth and Induction of Apoptosis in KSHV-transformed Cells by an Inhibitor of Sirtuins
Karthis Vasan; University of Southern California

**Chemical Engineering**

**Kiosk: 17A**
Synthesis and Characterization of Inhalable Powder Systems and Magnetic Nanoparticles for Targeted Pulmonary Delivery
Marjorie Guy; University of Kentucky

**Chemistry**

**Kiosk: 17B**
Analysis of Volatile Organic Compound Signatures From Wildfire Emissions in Southeast Texas
Brian Morgan; Appalachian State University

**Kiosk: 17C**
Biomimetic Models of Quercetin Dioxgenase
Ariel Schuelke; University of Wisconsin, Eau Claire

**Kiosk: 18A**
Design of Nanoscale Compositions for Remineralization of Human Dentin
David Christianson; University of South Dakota

**Kiosk: 18B**
Pigment Epithelium-Derived Factor Gene therapy: A New Mean for Treating Prostate Cancer
Dalia Martinez-Marin; Texas Tech University

**Kiosk: 56C**
The effect of an increase in intracellular calcium on the localization of the catabolic subunit of telomerase, TERT, in HeLa cells
Gretchen Diffendall; Westminster College

**Kiosk: 57A**
The role of mucus during acute Toxoplasma infection in m1ce
Joshua Mayoral; Northern Arizona University

**Kiosk: 57B**
Validation of Transcription Induced Chimeras in Human Stage IV Colon Cancer Liver Metastasis
Brandon Edlund; University of Minnesota, Duluth

**Kiosk: 56A**
Method Development: Direct amplification of the entire human mitochondrial genome
Meghan Lawler; Western Carolina University
Kiosk: 18C
Enhancing Bacterial Denitrification Rates by using nanoscale zero valent iron (nZVI)
Jesse Britz; University of Illinois at Springfield

Kiosk: 28C
Nano-Nickel Hydroxide Catalysis Application in Oxidation Reactions and Its safety
Amanda Loch; University of Wisconsin, Whitewater

Kiosk: 57C
Green Approaches in Photoinitiator Synthesis and Utilization
Matthew Torrez; University of Wisconsin, Whitewater

Kiosk: 58A
Indicator Displacement Approach to the Detection of Anions with Chromophore-Appended Phosphonium Polyelectrolyte Films
Mallory Turner; Clemson University

Kiosk: 58B
Kinetics and Thermodynamics of Nitrate Ion Release from a Hydroxy Double Salt, [Zn5(OH)8](NO3)2.nH2O: A Model for Controlled Release from Layered Compounds
Anna Johnson; College of St Scholastica

Kiosk: 58C
Novel Formation of Core-Shell Nanoparticles
Nathan Klein; University of Minnesota, Twin Cities

Kiosk: 59A
Predicting the Oxidation Potentials of Diarylamine Derivatives for Overcharge Protection in Lithium-ion Batteries
Corrine Elliott; University of Kentucky

Kiosk: 59B
Quantification of Gliadin Content in Beer
Taylor Smith; Appalachian State University

Kiosk: 59C
Spectroelectrochemical Investigation of Electropolymerized Ferriprotoporphyrin for Gasotransmitter Oxidation
Nicole Gardner; Penn State Erie, The Behrend College

Kiosk: 60A
Syntheses and Structural Studies of (2-halobiphenyl) Chromium Tricarbonyl Complexes
Alexander Korger; University of Wisconsin, La Crosse

Kiosk: 60B
Synthesis of Ketones from Carboxylic Acids Using a Convenient, One-pot Protocol
Jennifer Rak; New Jersey City University

Kiosk: 60C
Synthesis, materials characterization, and toxicological evaluation of Eu(III) doped- Fe3O4 nanoparticles using YPEN rat endothelial cells
Kortney Schumann; Western Carolina University

Kiosk: 61A
THE SYNTHESIS OF A SOLUBLE DIRHENIUM(III,III) PADDLEWHEEL COMPLEX FOR THE STUDY OF LIGAND EXCHANGE.
Thomas Maderer; State University of New York, Brockport

Kiosk: 61B
Using Gold-Nanoparticle Amplified Targets to Develop Surface Plasmon Resonance (SPR) Spectroscopy as a Method of Measuring the Thermal Stability of DNA hybrids on a Surface
Caleb Wagner; University of Wisconsin, La Crosse

Communications

Kiosk: 19A
Facebook: Friend or Foe for Self-Esteem and Happiness?
Ashley Fraley, Gloria Holder, Allison Vanderveld; Hope College

Kiosk: 61C
Public Health Communication: A content analysis of mass communication during SARS and H1N1
Lianna Hachborn; Roanoke College

Computer Science

Kiosk: 1B
A Chitosan modeling tool for Molecular Dynamics Simulations optimized by means of a Genetic Algorithm
Wensy Cuadrado-Dávila; University of Puerto Rico at Humacao
Kiosk: 19B
Calculating the Melting Temperature of Linker DNA
Louis Joslyn, Adrian Gibson, Thomas Klein; Simpson College

Kiosk 19C
Emergency Management Systems Emergency Hazard Analysis using ArcGIS
Michael Gibbs, Allen Johnson, Mia Greer, Joseph Brown, Jheanelle Linton, Kevon Scott, Brandon McMurray; Johnson C Smith University

Kiosk: 62A
Overall Competence in Case Based Reasoning
Spencer Knight; University of Nebraska, Kearney

Kiosk: 62B
User-in-the-Loop Calibration and Mensuration
Johnathan Smith, Scott Workman, Ryan Baltenberger; University of Kentucky

Dance
Kiosk: 20A
Copyright and Choreography
Erin Smith; University of Kentucky

Ecology & Organismal Biology
Kiosk: 20B
An Analysis of the Influence of C. parvidens Activity in Maintaining Arthropod Diversity
Richard Grewelle; University of Kentucky

Kiosk: 20C
ECOLOGICAL STOICHIOMETRY OF BITHYNIA TENTACULATA
Alexandra Clussman; University of Wisconsin, La Crosse

Kiosk: 21A
Possible Mitigation of Coral Bleaching Using Shading in Conditions of Cumulative Thermal Stress in Acropora aspera
Elizabeth Rice, Kathryn Que, Serafina Tulioc, Jacob Steele; Dominican University of California

Kiosk: 62C
Sink or Ecological Trap for Tree Swallows in Central Minnesota?
James Pathoulas, Nicole Noyes; Saint John’s University

Kiosk: 21B
Determining the Major Factors Influencing Student Loan Default Probability
Cody Nehiba; Augsburg College

Kiosk: 21C
Progressive Taxation’s Effects on Consumption
Spencer Lewen; Roanoke College

Kiosk: 63A
The Costs and Benefits of a Subsidized Baseball Stadium in Richmond, Virginia
Nathaniel Matthews; Virginia Commonwealth University

Kiosk: 63B
Women’s Professional Tennis Long-run Effect of Age Rules for Player’s Longevity
Tamara Smith; Roanoke College

Education
Kiosk: 1C
Musical and Social Development of Pre-school Children through Musical Play
Emilee Deck; University of Wisconsin, Whitewater

Kiosk: 2A
Case Study in Middle School Students’ Science Learning
David Turner; Utah State University

Kiosk: 22A
Effectiveness of Implementing a STEM Service Learning Component Engaging Students in After School Time Activities
Lauren Dahlquist; University of Nebraska at Omaha

Kiosk: 22B
Maternal and Child factors Influence on Maternal Language During Play and Teaching Contexts
Kristin Murphy; Utah State University
Kiosk: 63C
The role of depression and posttraumatic stress on university academic performance among student service members and veterans
Kent Hinkson, Jr; Utah Valley University
Electrical Engineering

Kiosk: 2B
Hardware Solutions for the Optimization of AFNI Processing
Trokon Johnson; University of Tulsa

Kiosk: 2C
Engineering/Engineering Technology
A Novel Fabrication Method for Hollow or Encapsulated Controllable Microstructures for Use in Microrobotic and Microdelivery Systems
Tyler Flynn; University of Kentucky

Kiosk: 23A
Automated Device to Orient and Open Carriers
Omar Gomez; Metropolitan State University of Denver

Kiosk: 23B
Development of an Experimental Rig to Measure the Transient Response of Crossflow Heat Exchanger
Joseph Schaadt; Villanova University

Kiosk: 64A
Implementing Safe Cooking Methods in Senegal
Mame Fall; Howard University

Kiosk: 64B
Multi-Material Preforming of Structural Composites
Thomas Sudbury; University of Tennessee at Chattanooga
Kiosk: 64C
Synthesis of Optical and Electrical Biosensor using Gold Nanoparticles and Carbon Nanotubes
Megan Casco, Andrew Crites; Clemson University

Kiosk: 65A
Wind Turbine
Sanusi Conteh; Howard University

Environmental Studies & Sciences

Kiosk: 3A
An assessment of the attractiveness of domestic food waste bins to synanthropic Diptera (flies)
Laura Bailey; University of Central Lancashire

Kiosk: 24A
General Survey of Shallow Lakes and Wetlands on the St. John’s University Campus
Michael Culshaw-Maurer; Saint John’s University

Kiosk: 24B
Measurements of ambient ammonia using an ion mobility spectrometer
Logan Scholl; Susquehanna University

Kiosk: 65B
Relationship between Precipitation and Delivered Water to Downstream Water Pollution in DC
Molly Seltzer, Molly Seltzer; The George Washington University

Kiosk: 65C
The Value of Ecosystem Services in the Commonwealth of Kentucky’s Forestland
Michelle Gilmore; University of Kentucky

Geography & Earth Sciences

Kiosk: 3B
Common Meteorological Features of Mid-Atlantic and Ohio Valley Synoptic High Wind Events
Brittany Kusniar; California University of Pennsylvania

Kiosk: 24C
Landslide Susceptibility Assessment Using GIS in Allegheny County, Pennsylvania
Clarissa Enslin; California University of Pennsylvania

Kiosk: 25A
Topographical Effect on Tornadoes in Wisconsin and Indiana
Andrew Courtney; University of Wisconsin, Whitewater
Health Sciences & Public Health

Kiosk: 4A
A Correlation between Alcohol and Marijuana Use and GPA
Samantha Bettinger; Miami University

Kiosk: 2B
An Examination of Alcohol Consumption and Behaviors in Female Intercollegiate Athletes vs. Nonathlete Counterparts
Kelsey Barnes; Miami University

Kiosk: 25C
Effect of Alcohol Consumption on College Student's Academic Performance
Lauren Powers; Miami University

Kiosk: 26A
Exploring Socio-Cultural Factors Influencing Cervical Cancer Prevention Among Adolescent Latinas in Rochester, NY
Sandra Lampasona; University of Rochester

Kiosk: 26B
Hangover Symptoms in Beer vs. Vodka Drinkers
Maura Fawcett, Rose Marie Ward; Miami University

Kiosk: 6A
Salivary cortisol: Implications in clinical health outcomes of children with chronic asthma
Xiaofan Mi; Wayne State University

Interdisciplinary Studies

Kiosk: 4C
Involvement Frequency and Type May Matter: An examination of campus involvement and student success.
Billie Nelson; University of Wisconsin- River Falls

Kiosk: 27B
Preserving the "Fine Village": The Commodification of Rajasthani Folk Performance at Chokhi Dhani and Beyond
Leela Singh; Ohio State University

Kiosk: 27C
Do Differing Glycemic Index Breakfasts Affect Cognition?
Danielle Scheinman, Melanie Witman; Elon University

Kiosk: 28A
Relationship between self-reported quality of life and lifestyle as recorded by accelerometry
Meridith Rebman, Elizabeth Diede, Lauren Lube, Melissa Brown; University of Wisconsin, Eau Claire

Kiosk: 28B
The impact of physical activity participation on cognitive function following different breakfasts
Melanie Witman, Danielle Scheinman; Elon University

Kiosk: 6A
Never mind: Brain Imaging Differences Underlie Rejection of Non-preferred brands
Alex Bordewyk; University of South Dakota

History

Kiosk: 4B
Charlie Chaplin: The Role of the Artist in the Great War
Samuel Hahn; University of Cincinnati

Kiosk: 27A
Resiliency, Black Racial Identity, Education and Inner City Youth: Historical Analysis of Austin Community Academy 1960's-2007
Chastity Harden; University of Wisconsin, Whitewater

Kiosk: 27B
Preserving the "Fine Village": The Commodification of Rajasthani Folk Performance at Chokhi Dhani and Beyond
Leela Singh; Ohio State University

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Kiosk: 6A
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Alex Bordewyk; University of South Dakota

Linguistics & World Languages

Kiosk: 5B
Investigating Writing Patterns Across Cultures
Terilyn Heling; University of Wisconsin, Whitewater

Marketing

Kiosk: 6A
Never mind: Brain Imaging Differences Underlie Rejection of Non-preferred brands
Alex Bordewyk; University of South Dakota
Mathematics

Kiosk: 6B
Comparing the Effects of Prescribed Burning on Nest Survival Rates for Grassland and Forest Birds
Molly Neumann; University of Wisconsin, La Crosse

Kiosk: 29A
Flow-Based Programming applied to Wolffia
Brian Matta Rosado; University of Puerto Rico at Humacao

Kiosk: 29B
Semantic Similarity of Documents Using Latent Semantic Analysis
Chelsea Boling; Lamar University

Microbiology & Immunology

Kiosk: 7A
Dissecting Social Motility in African Trypanosomes by a RNA-Seq Transcriptome Comparison
Rina Kim; University of California, Los Angeles

Kiosk: 29C
In vivo and In vitro Analysis of the Amino Acid Lysine as a Possible Inhibitor of HSV-1 Infection
Tyler Alban; Baldwin-Wallace College

Kiosk: 30A
Repurposing the Antihistamine, Terfenadine, for the Therapeutic Intervention of Staphylococcus aureus Infections
Jessamyn Perlmutter; University of Rochester

Neuroscience

Kiosk: 30B
Alzheimer’s-Associated Polymorphism Modulates CD33 Expression and Splicing
Manasi Malik; University of Kentucky

Kiosk: 30C
Differences in the structure and formation of retinal terminals in distinct thalamic nuclei
Gabriela Carrillo; Virginia Tech

Kiosk: 31A
Examining the Connection between Multiple Concussive Brain Injuries and the Early Development of Neurodegenerative Pathology
Anup Sonti; University of California, Davis

Kiosk: 31C
Response of Sensory Neurons to Neurocan Knock-down in Reactive Astrocytes
Umang Khandpur; University of Kentucky

Kiosk: 32A
The Effects of Gamma-glutamylcysteine Ethyl Ester on Glutathione Elevation as a Post-Treatment for Traumatic Brain Injury
Sarah Kelsey; Eastern Kentucky University

Kiosk: 32B
Tracing neuronal connections through genetic approaches
Sarah Corcoran; Ohio State University

Nursing

Kiosk: 7C
An Evaluation to the Adherence of an Indwelling Catheter Maintenance Bundle
Jessica Johnston; University of Kentucky

Kiosk: 32C
Does animal-assisted therapy decrease anxiety and depression among psychiatric patients?
Allison Spada, Allison Spada, Liliane Schwedfeger; Duquesne University

Kiosk: 33A
Family history of hypertension is associated with personal hypertension risk
Kaitlin Voigts; University of Kentucky

Kiosk: 33B
Implications of Tooth Loss for Increased Cardiovascular Disease Risk
Alexandra Milam; University of Kentucky

Kiosk: 33C
Oxygen use at the end of life: Attitudes and beliefs survey
Justin Mabin, Christine Johnstad, Sarah Younger; University of Wisconsin, Eau Claire
**Poster Session 8**

**Kiosk: 34A**
The Association between Dietary Adherence and Self-Reported Dietary Choices in Adults with Type 2 Diabetes
Jefi Jaustine Buenaventura; University of Pittsburgh School of Nursing

**Kiosk: 34B**
Violence in the Emergency Room: Causation and Prevention
Shanna Ingram; Baylor University Waco-University Development

**Nutrition**

**Kiosk: 8A**
White Yeast Bread made with Watermelon Juice
Nicholas Garner, Natalie Sympson, Florence Uruakpa; Indiana State University

**Physical/Occupational Therapy/Speech Language Pathology**

**Kiosk: 8B**
Getting to the Core of the Matter: Does Trunk and Hip Strength Really Matter?
Chelsea Oswald; University of Kentucky

**Physics**

**Kiosk: 8C**
Determining the Characteristics of Select Microbes from Raman Spectra
Nathan Martin; Appalachian State University

**Kiosk: 34C**
Microtubule Rigidity Measured in High Salt Conditions
Brandon Harris; University of Wisconsin, La Crosse

**Kiosk: 35A**
Patterns for Gravitational Waves in the Post-Newtonian Approximation
Matthew Haldeman, Conner Henson; Marshall University

**Kiosk: 35B**
THERMOELECTRIC PROPERTIES OF MANGANESE (IV) OXIDE PARTICLES AS A FUNCTION OF ELECTRICAL RESISTANCE
Nicholas Francis, Morgan Hedden; James Madison University

**Physiology**

**Kiosk: 9A**
Epigenetic Effects of a High-Fat-Diet on Drosophila Melanogaster Metabolic Phenotype
Ajay Ajmera; East Carolina University

**Kiosk: 35C**
Physiological and pathophysiological stimuli alter endothelial cell autophagy
Lance Deeter; University of Utah

**Political Science**

**Kiosk: 9B**
An Analysis of the Effects of State Legislative Term Limits on U.S. House Elections
Travis Fiechter; Xavier University

**Kiosk: 36B**
Internet Access and Political Knowledge
Matthew Rains; Western Carolina University

**Kiosk: 36C**
State Animal Welfare Law Development: Attention to Agribusiness
Daina Kaugars; University of Kentucky

**Psychology**

**Kiosk: 5C**
System Justification
Carol Villanueva-Perez; University of Illinois at Urbana-Champaign

**Kiosk: 9C**
A Search for Linguistic Relativity: Content Analysis of Essays from Bilingual Students
Caitlin Tarantiles, Kelsey Liddle; Elon University
Kiosk: 10A
Assessing Addictions in a Spiritual World: Using Confirmatory Factor Analysis and Structural Equations Modeling to Develop the Life Interests Questionnaire
Kelly Perfect, Victoria Labitan, Avery Blackburn, Erin Harrington; Valparaiso University

Kiosk: 37A
Athletes to Athletes: Encouraging Confidence through Mentoring
Kelly Winter-Howard; Black Hills State University

Kiosk: 37B
Brain activation in bulimia and social rejection
McKenzie Cordell; University of Kentucky

Kiosk: 37C
College Student Binge Drinking and Alcohol Outcome Expectancies: Weekday Versus Weekend
Amelia Maher; University of Minnesota, Duluth

Kiosk: 38A
Differences in Cognitive Flexibility in Rats and Pigeons
Melissa Noel; University of Kentucky

Kiosk: 38C
Evaluating how mobile technology can reduce excessive alcohol use among high school freshmen
Phong Lam; Eastern Washington University

Kiosk: 39A
Fact or Fiction? Individual Differences and the Spread of Urban Legends
Wesley Hill, Rachel Tohme; University of Illinois at Springfield

Kiosk: 39B
Heroism and Gender Roles: Influence of Publicity, Risk, and Familiarity On Heroism
Shelby Flegel, Lauren Bach, Katie Westermayer; Minnesota State University, Mankato

Kiosk: 39C
Increased mid Anterior Cingulate Local Gyrification in Psychopaths
Jessica Hanson; University of Wisconsin, Milwaukee

Kiosk: 40A
Juror decision making with regard to a criminal case of homosexual rape
Sofiana Hoffman; University of Kentucky

Kiosk: 40B
Metacognition and Emotion
Patricia Dirks, Benjamin Eschler; Weber State University

Kiosk: 40C
Oxymorphone: Examining the abuse liability and analgesic effects of an emerging drug of abuse
Victoria Votaw; University of Kentucky

Kiosk: 41A
Personality Traits and Occupations Stereotypically Perceived as Masculine or Feminine
Summer Knox, Stephanie Mays, Jacob Case, British Thompson, James Williams, Christopher Auvenshine, Tommy Mudd; University of Kentucky

Kiosk: 41B
Public Health Concern with Sleep Disturbance
Michael Rexius; Elmhurst College

Kiosk: 41C
School Start Times and School Achievement
Olivia Smith Smith; University of Kentucky

Kiosk: 42A
Sleep and Boundary Management Around Technology Use
Maria Senf; Northern Illinois University

Kiosk: 42B
Technology as a Catalyst for Language Processing Changes
Caroline Clabaugh; Wells College

Kiosk: 42C
The Effect of Awe on Future Self
Taylor West, Brandon Payne, Sung Hee Kim, Charles E. Hoogland, Richard H. Smith; University of Kentucky

Kiosk: 43A
The Effects of Idealized Media Images on Body Dissatisfaction in a Nonclinical Population
Lauren Burleson; Carthage College
Kiosk: 43B
The Impact of Parental Figures on College Students’ Attitudes about Women
Elise Lundequam, Sean Eberle; University of Wisconsin-River Falls

Kiosk: 43C
The Relationship Between Facebook Use and Emotional Well-Being as Moderated by Interpersonal Relatedness
Kathryn Coyle; Adelphi University

Kiosk: 44A
Time Perception in Negative Affects: The Role of Motivational Direction
Zach Beasley; University of Alabama

Kiosk: 44B
What’s wrong with beautiful?: An exploration of gender bias in related programs
Devon Brown; Ohio State University

Kiosk: 10B
Heart of Africa: Empowering and Sustaining Families of Vulnerable Children
Samantha Hartman; Hope College

Social Work

Kiosk: 11B
Amassing Evidence: A Study of Body Mass Variation in the Robert J. Terry Skeletal Collection
Julia White; Auburn University

Kiosk: 11C
Exploring Western Sicily’s Prehistoric Transition Into Agriculture Through Geoarcheology
Victoria Arreola; University of Northern Iowa

Sustainability

Kiosk: 11A
Development of Low-Cost Biofuels Instructional Laboratory Exercises
Samuel Knapp; University of Wisconsin, Stevens Point

Kiosk: 45B
Season Extension of Vegetable Production Using High Tunnels
Karen Gjelhaug; University of Wisconsin-River Falls

Kiosk: 45C
Using New Photonic Technology to Improve Neural Prostheses: A Study on Sustainability
Christopher Williams; Virginia Commonwealth University

SESSION 9

Anthropology & Archeology

Kiosk: 12A
New Approaches to Sacred Space on Rome’s Periphery
Amanda Liguori; Wofford College

Biochemistry

Kiosk: 12B
A Critical Role of Chemokine Receptor CXCR2 in Mediating Endothelial Progenitor Cell Functions
Jacob Oblak; Wayne State University

Kiosk: 28C
Expression and Purification of the C-Terminus of CCL21
Thomas Morien; University of Wisconsin, Whitewater
Kiosk: 46B
Creation of an Escherichia coli C.0293 Knockout for an Examination of the Stress Response
Angela Fuller, Ellisa Mullen; Carthage College

Kiosk: 46C
Functional Characterization of an Essential Salt Bridge in Human Calcineurin
Hannah Arvin; University of Kentucky

Kiosk: 47A
Improved starch degradation using natural systems
Kyle Auger; University of Kentucky

Kiosk: 47B
Long-Circulating Backbone-Degradable HPMA Copolymer-Gemcitabine Conjugates for the Treatment of Ovarian Carcinoma
Shwan Javdan; University of Utah

Kiosk: 47C
Synaptotagmin linker: tuning of cooperativity in Ca2+ binding
Troy Hendrickson; University of Minnesota, Duluth

Kiosk: 48A
The Regulation of the Antioxidant Response System by MafS through an Epigenetic Mechanism
Joshua Geiger; University of Rochester

Biological Engineering

Kiosk: 13A
Development of Chitosan-GAG Fibers as a Modular Tissue Engineering Platform
Alexander Gagliardi; Western Michigan University

Kiosk: 13B
Improving the use of CT imaging in regional analysis of the lung
Andrew De Haan; Dordt College

Kiosk: 14A
Analysis of Neuronal Migration Defect in src-1 Mutant and Fyn Transgenic C. elegans
Zachary Fulton; Norwich University

Kiosk: 14B
Assessing Genetic Susceptibility to Motor Function Deficits Following Developmental Exposure to Polychlorinated Biphenyls
Breann Hays; Northern Kentucky University

Kiosk: 14C
Betta Splendens as a Model Organism for the Study of the Development and Evolution of Pigmentation
Alexis Carey, Ben Lyvers, Anne Marie Dumaine, Sydney Katz, Katie Ash; Transylvania University

Kiosk: 45C
Identi'
Samanth Minikel; Loyola University

Kiosk: 49A
Characterizing LTR Retrotransposons in the Basidiomycete Fungus, Coprinopsis cinerea
Madhura Chitnavis; Roanoke College
**Kiosk: 49B**
**COMPARISON OF DIFFERENT LIGHT TECHNOLOGIES FOR INDOOR AQUAPONIC PRODUCTION OF ROMAINE LETTUCE**
Chelsea Watts; Kentucky State University

**Kiosk: 49C**
**Ecological Distribution and Radula Morphology of the Giant Keyhole Limpet (Megathura crenulata)**
Adrienne Mikovari; Occidental College

**Kiosk: 50A**
**Embryonic Mesoderm Progenitor Cells Exhibit VEGF Induced Differentiation and In Vitro Vasculogenesis**
Rachael deVries, Jessica Ramirez; Dominican University of California

**Kiosk: 50B**
**Examining tail development models in the four-toed salamander, Hemidactylium scutatum**
Peter Rossbach; James Madison University

**Kiosk: 50C**
**Female Pardosa milvina wolf spiders increase silk advertisements when in the presence of silk from courting males.**
Rizwan Khan; Susquehanna University

**Kiosk: 51A**
**In-Vitro Egg Development in the Trematode, Cotylaspis insignis (Subclass Aspidogastrea)**
Ericka Berg, Lin Peng; Berea College

**Kiosk: 51B**
**Investigating the role of mechanosensitive channel 9 in chemically- and root-knot nematode-induced cell wall damage.**
Collin Hudzik; Bridgewater State University

**Kiosk: 51C**
**Measuring the effect of drought stress and fungal pathogen Alternaria brassicae on specific leaf area of Brassica rapa**
Garshaw Amidi-Abraham; Stony Brook University

**Kiosk: 52A**
**Morphological Analysis of Chemical Elements in Fish Scales**
Ethan Nichols; Minnesota State University, Mankato

**Kiosk: 52B**
**Plastid-associated galactolipid composition of chloroplasts and chromoplasts in bell peppers: Does pepper ripening make a difference?**
Chelsy Baker, Farheen Zehra, TaRisha Lake, Angel Navarro, Alandrea Cox; Middle Tennessee State University

**Kiosk: 52C**
**Real-Time PCR of cDNA of Tomato Mosaic Virus (ToMV) RNA**
Kelsey Hayden, Mary Chey; Indiana University of Pennsylvania

**Kiosk: 53A**
**Scarless Wound Healing: Increased Collagen Deposition Along Wound Edge in Human Fibroblasts vs hEScells**
Roxanne Bartolome, Tam Nguyen, Eileen Ing; Dominican University of California

**Kiosk: 53B**
**Soil microbes and nitrogen levels affect the competitive interaction between the native species Andropogon gerardii and Solidago rigida and the invasive species Carduus acanthoides**
Winnie Shivega; Concordia College, Moorhead MN

**Kiosk: 53C**
**Survival of Escherichia coli in Relation to the Disaccharide Trehalose**
Tyler Sams; Lubbock Christian University

**Kiosk: 54A**
**The Effect of Dopamine and Epinephrine Releases’ on Human Learning**
Craig Luskey; Virginia Commonwealth University

**Kiosk: 54B**
**The Genetic Modification Analysis of Popcorn (Zea mays) Around the World**
Jessica DeBelly, Kashmere Pearson; Capital University

**Kiosk: 54C**
**The Risks Associated with Male Exposure to Thalidomide and the Potential Mechanism of Action**
Nathan Bair; Susquehanna University

**Kiosk: 55A**
**The role of the FANCD2 protein during meiotic recombination in Arabidopsis thaliana**
Leslie Deutschman; Washington and Jefferson College
Kiosk: 55B
Unpaired3 is required for reliable formation of the Drosophila micropyle
Megan Weaver; University of Kentucky

Cell & Molecular Biology

Kiosk: 15B
Analysis of the mitotic role of Ran in normal human cells via temperature-sensitive mutation of RCC1
Ronit Shah; University of Toledo

Kiosk: 15C
Determination of serum malondialdehyde (MDA) concentration in rat serum from fish oil ratio & tumor studies
Phillip Wachowiak; University of Michigan

Kiosk: 16A
Evaluating the effects of exenatide and an angiotensin receptor blocker on brain pathology in a rat model of Type II Diabetes Mellitus (T2DM) -a possible link between T2DM and Alzheimer’s disease (AD)
Charlesice Hawkins; University of California - Merced

Kiosk: 16B
Genetic Profiles of Escherichia coli Isolated from the Fecal Matter of Resident Water Fowl of Urban Playa Lakes
Michael Sa-Id; Lubbock Christian University

Kiosk: 16C
Inhibition of growth and lung metastasis of triple negative breast cancer cells by Manumycin A
BINYAM FITWI; University of Michigan

Kiosk: 55C
Investigation of Egr transcription factor involvement in PC12 cell neuronal differentiation
Scott Allen; Bridgewater State University

Kiosk: 56A
Rufino rodriguez; University of Wisconsin- River Falls

Kiosk: 56B
Radiosensitization in the Treatment of Lung Cancer via Hyperthermia, Iron Oxide Nanoparticles, and Gold Nanoparticles
Michelle Pressly; University of Kentucky

Kiosk: 57A
The Role of PKC in Mitochondrial Fission
Allison Meadows; University of Virginia

Kiosk: 57B
WWTR1 (TAZ) transcription is constitutively activated by fusion to CAMTA1 in Epithelioid Hemangioendothelioma
Firas Jadaan; Cleveland Clinic

Chemical Engineering

Kiosk: 17A
Synthesis of Protein-Polymer Hybrid Materials Using Controlled Radical Polymerization
Jordan Boivin, Wesley Hall; Miami University

Kiosk: 17B
Analytical Limestone Analysis
Jacob Roodman; James Madison University

Kiosk: 17C
Bomb Calorimetry of Spent Switchgrass from Biofuel Production: Full Biomass Utilization
Kayla Woodyard; Eastern Kentucky University

Kiosk: 18A
Determination of Cadmium Concentration by Anodic Stripping Voltammetry
Kiersten Mossburg, Joseph Dahl; Xavier University

Kiosk: 18B
Drug Delivery and Release from Self-Assembled Phenylalanine-derived Hydrogels
Kaitlyn Connelly; University of Rochester

Kiosk: 18C
Evaluating Pharmaceutical Sorption to Soils and Ground Water from an Eastern North Carolinian Family Farm
Brittany Ford; University of North Carolina, Asheville

Kiosk: 57C
Green Asymmetric Organocatalyzed Michael Reactions
Casey Mueller; University of Wisconsin, Whitewater

Kiosk: 58A
Indole derivatives and their interaction with cations
Soyoung Alexander; University of West Georgia
Kiosk: 58B  
Lactones Derived from Fatty Acids: New Monomers for the Production of Bioplastics  
Timothy Bumpus, Peter Douglas; Luther College

Kiosk: 58C  
Novel Organic Compounds as Possible Selective Cyclooxygenase Inhibitors  
Blake Cantrell; Morehead State University

Kiosk: 59A  
Predictions of the threshold energy for HF and HCl elimination from CH3CCl3, CH3CH2CCl3, and CF3CH2CCl3 using Quantum Chemical Calculations.  
Kylie Smith; University of North Carolina, Asheville

Kiosk: 59B  
Quantitative Raman analysis of hormone concentrations using surface enhancement with an internal standard  
Mackenzie Farrar; Western Kentucky University

Kiosk: 59C  
Spectrophotometric determination of the pKa values of acid-base indicators for development of an inquiry based teaching experiment  
Angeline Palmer, Angeline Palmer; George Mason University

Kiosk: 60A  
Synthesis and characterization of europium-based nanoparticles with enhanced luminescent properties.  
Austin Allen; Western Carolina University

Kiosk: 60B  
Synthesis of Mesoporous Thin Films of CdS Nanocrystals by Cross Linking Ligand Stripped Polymer Templated Nanocrystals using Bidente Ligands  
Justin Ondry; University of California, Los Angeles

Kiosk: 60C  
Synthesis, Physical Characteristics, and Isolation of Dimethyl Succinyl Succinate Derivatives  
Mike Sportiello; University of Wisconsin, Milwaukee

Kiosk: 61A  
The unorthodox reaction rates of anti-cancer familial platinum compounds with methionine and guanosine monophosphate  
Muhammad Mahmood; Western Kentucky University

Kiosk: 61B  
Various approaches for the synthesis and isolation of a-Ketoglutarate  
Alec Wynd; Eastern Washington University

Communications

Kiosk: 19A  
Facilitators and barriers in intercultural communication in parent-teacher conferences: A case study of Korean immigrant parents  
Dayae Kim, Insoon Han; University of Minnesota, Duluth

Kiosk: 61C  
The Effectiveness of Ratemypofessors.com  
Caitlin Gerig; Radford University

Computer Science

Kiosk: 2C  
Calypso  
Stephen Patten, Kevin Keyes, Matthew Thompson; United States Military Academy

Kiosk: 19B  
Designing a multi-touch system for intuitive control of Nano scale scanning probe microscopy  
Michael Eze; Fisk University

Kiosk: 19C  
Injecting Semantic Representation in a Virtual Environment  
Cameron Pelkey; George Mason University

Kiosk: 62A  
Predictive Factors for Parental Engagement in a Natural Setting within the Charlotte, NC Northwest Corridor  
Philip Henry; Johnson C Smith University

Kiosk: 62B  
Using Gangnam Style to Teach Computing Concepts  
Danielle Harris, Dion Chever; Johnson C Smith University

Dance

Kiosk: 20A  
The Moving Twenties  
Andrea Rector; University of Kentucky
Posters Session 9

Ecology & Organismal Biology

Kiosk: 20B
An Annotated Key to the Ant Genera of Wisconsin
Carol Peretz; University of Wisconsin, Whitewater

Kiosk: 20C
Effects of atrazine on the chemical alarm cue response in longear sunfish (Lepomis megalotis).
Ben Adam; Asbury University

Kiosk: 21A
Predation Behavior in Freshwater Amphipods
Lyndsay Hage, Danielle Peterson; University of Wisconsin-River Falls

Kiosk: 62C
Spring-Neap Variation In Clutch Size Correlations and Embryonic Development for the Daggerblade Grass Shrimp Palaemonetes pugio
Renee Smith; Savannah State University

Economics

Kiosk: 21B
Differences Among Accident Costs of Treatments Groups
Jiachen Ning, Hong Liu; University of Minnesota-Morris

Kiosk: 21C
Solar Photovoltaic Panels Industry Structure and Market Power
Rui Wang; State University of New York, New Paltz

Kiosk: 63A
The Effect of Private and Public Educational Institutions on Standardized Test Scores
Laura Stavetski; Roanoke College

Kiosk: 63B
Draft your own players or pick them up in free agency: What strategy has the greatest impact on winning percentage in the NFL?
Adam Kendall; North Central College

Education

Kiosk: 22A
El Sueño Americano: A Study of Why Latinos are Underrepresented in Higher Education
Christianna Snyder, Daniela De Sousa Arocha, Megan Guerra; Nashville College of Medical Careers

Kiosk: 22C
Brian Broderick; Villanova University

Kiosk: 63C
The Short and Long-Term Influence of “The Diversity Course” on Thoughts and Behaviors of Undergraduate Teacher Education Students
Sundee Proctor; Clayton College & State University

Electrical Engineering

Kiosk: 1B
Towards a Deployable, Low-Cost, High Speed, Long Distance Fiber Optic Network for the US Army
Jason Wilkes, Pongpat Taephanitcharoen, Khirsen Corbins; United States Military Academy

Kiosk: 1C
Towards Ultrafast Arrays of Photonic Crystal Vertical Cavity Surface Emitting Laser
Pongpat Taephanitcharoen, Jason Wilkes, Matthew Carroll; United States Military Academy

Kiosk: 3A
Treadmill Sensor Analysis
Morgan White; United States Military Academy

Engineering/Engineering Technology

Kiosk: 2A
Accessible Gardening Vehicle for Operators with Limited Mobility
Helen Peel, Brent Jones; North Carolina State University

Kiosk: 3B
Ammunition Resupply via Guided Projectiles
Brian Elliott; United States Military Academy

Kiosk: 23A
Automotive Generated Thermal Exhaust Waste to Electrical Power Conversion
Logan Gallagher; Norwich University

Kiosk: 23B
Dust and Noise Hazard Exposure: Comparison of PDC vs. WC Roof Bolt Bits in Laboratory
Jake Seiter, Mark Smith; University of Utah
Kiosk: 64A
In vitro 3-D Model of Ovarian Cancer for High Throughput Drug Screening and Personalized Medicine
Erin Flannery; University of Michigan

Kiosk: 64B
Near Wall Effects on the Stagnation Point of a Pitot Tube
Ed Ryznar; University of Kentucky

Kiosk: 65A
Wind Turbine
Sanusi Conteh; Howard University

Environmental Studies & Sciences

Kiosk: 23C
Dust Influences Density and Carbon Content of Copepod Fecal Pellets.
Ebrahim Afshinnekoo; Macaulay Honors College at Queens College,CUNY

Kiosk: 24A
Going Green in India with Geothermal Power Using GIS
Tyler Tomaszewski; University of Wisconsin, Whitewater

Kiosk: 24B
Molecular Identification of the soil fungus Trichoderma sp.: A potential biological control agent of Phytophthora ramorum, the causal agent of Sudden Oak Death
Taylor Roberson, Adam Santiago; Dominican University of California

Kiosk: 65B
Reptile Reproduction under Changing Environmental Conditions
Lisa Raimondi; Northern Illinois University

Kiosk: 65C
The New Carbon Cycle
Chibueze Onwunaka; Susquehanna University

Geography & Earth Sciences

Kiosk: 24C
Locating Sinkholes in LiDAR Coverage of a Glacio-fluvial Karst, Goodhue County, Minnesota
Caitlin Castner, Emma Young; University of Minnesota,Twin Cities

Kiosk: 25A
Tracking Detrital Rock Record to Understand Unroofing of the Himalayas in Nepal
Naomi Kellogg; Western Kentucky University

Health Sciences & Public Health

Kiosk: 1A
The IMPAACT Pilot Study: Aerobic and Resistance Training of Cancer Survivors in Los Angeles County
Daniel Conti, Isabela Kuroyama; Loyola Marymount University

Kiosk: 4A
A Synthesis of Epigenetic Factors Caused by Maternal Obesity: Predisposition for Development of Childhood Obesity
Jordan Hiegel; Virginia Commonwealth University

Kiosk: 25B
An In-depth Study of Distal Radius Fracture Surgery: Improving the Doctor-Patient Relationship
Hunter Morrow; Virginia Commonwealth University

Kiosk: 25C
Effect of Increasing Amplitude Using an Electronic Lung Simulator on Tidal Volume and Peak Inspiratory Pressures During Adaptive Pressure Control
Douglas Stubbs Jr, Troy Lempesis; Boise State University

Kiosk: 26A
Exposure to Tobacco Advertising and Smoking Behavior: A Study of Ladakhi Adolescents
Anisha Gundewar; University of Rochester

Kiosk: 26B
Improving Preparedness of the Medical Community for Weaponized Smallpox: Identification, Vaccination, and Changes in Protocol
Krishna Kinariwala; Virginia Commonwealth University

Kiosk: 26C
Prevalence of Advance Directives Among Hospitalized Older Adults
Elise Gamertsfelder; University of Pittsburgh School of Nursing

Kiosk: 66A
Self-Care as it Relates to Poverty Status and Age in U.S. Adults: American Time Use Survey
Sierra Moore; Ohio State University
The reliability of malaria rapid diagnostic tests through the seasons in Madagascar: Could storage conditions affect the efficacy of rapid diagnostic tests?
Collrane Frivold; Occidental College

The Centennial Exposed: How two souvenir books about the Centennial Exhibition of 1876 reveal the tensions surrounding women and African Americans in 19th century American society
Hope Hancock; Hope College

Kids in Ottawa Project: The role of community resilience on school readiness outcomes.
Alan Hay; Carleton University

Qualitative Assessment of Self-Identity in Advanced Dementia
Sadhvi Batra; University of Alabama at Birmingham

Core Strength Training Does Not Influence Distance Running Performance in Collegiate Cross-Country Runners
Kelsey Wiebusch; Gustavus Adolphus College

Estimation of Body Composition using Skinfolds Measurements in individuals with Spinal Cord Injury
Amy Walden; University of Louisville

The Acute Effects of Graston Technique on Power, Work, and Torque Output in Collegiate Female Track and Field Athletes
Shane Murphy, Kristin Jaskolski, Chuentao Ho, Caitlin Hooge; University of Wisconsin, Eau Claire

The Influence of Plantar Fasciitis on Ground Reaction Forces
Alexander Krause; University of Wisconsin, Milwaukee

Spelling Decoded: second language spelling acquisition via online applications
Samantha Wanta; University of Wisconsin, Milwaukee

The Effects of Bloggers Sitting Front Row at New York Fashion Week on the Speed of Fashion Trends Reaching Department Stores in New England
Haley Omasta; Southern Vermont College

Signaled Drug Delivery and Transport Across the Blood-Brain Barrier
Morgan Schroeder; University of Wisconsin, Milwaukee

Effect of the microbial community on fecal indicator bacteria survival at the sand water interface of an urban Milwaukee beach
Katherine Halmo; University of Wisconsin, Milwaukee

Investigating the role of ARMS expression and function in multiple myeloma cells
Abhiniti Mittal; University of Rochester

Sleep deprivation increases cytokine gene expression and plasma corticosterone levels in a murine model: a possible link between stress and inflammation?
Audrey Brown; Western Kentucky University
**Poster Session 9**

**Kiosk: 43C**  
The Relationship Between Facebook Use and Emotional Well-Being as Moderated by Interpersonal Relatedness  
Kathryn Coyle; Adelphi University

**Kiosk: 44A**  
Time Perception in Negative Affects: The Role of Motivational Direction  
Zach Beasley; University of Alabama

**Kiosk: 44B**  
What's wrong with beautiful?: An exploration of gender bias in related programs  
Devon Brown; Ohio State University

**Kiosk: 44C**  
Rave culture and MDMA usage among Caucasian, upper middle class adolescents in the United States as modern day rites of passage  
Mai Lam; Virginia Commonwealth University

**Kiosk: 45A**  
The Impact of Foreign Domestic Worker son the Upbring of the Qatai Children  
Bothaina AL-Nassr; Qatar University

**Kiosk: 45B**  
Season Extension of Vegetable Production Using High Tunnels  
Karen Gjelhaug; University of Wisconsin- River Falls

**Kiosk: 45C**  
Using New Photonic Technology to Improve Neural Prostheses: A Study on Sustainability  
Christopher Williams; Virginia Commonwealth University

**Social Work**

**Kiosk: 10B**  
Heart of Africa: Empowering and Sustaining Families of Vulnerable Children  
Samantha Hartman; Hope College

**Sociology**

**Kiosk: 10C**  
How On-Campus Involvement Impacts Student's Satisfaction and ultimately retention for First Generation College Students  
Elizabeth Burbatt; Eastern Illinois University

**Sustainability**

**Kiosk: 11A**  
Development of Low-Cost Biofuels Instructional Laboratory Exercises  
Samuel Knapp; University of Wisconsin, Stevens Point
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Student Presentation Sessions, and Art Gallery
Lunch Option
Limited self-pay parking for $10 per day; See Transportation

Graduate and Professional School Fair, Poster Sessions, Career Gallery, and Snacks
Plenary Sessions, Performing Arts Sessions