

CURRICULUM VITAE

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ACADEMIC BACKGROUND:

Ph.D.	Psychology University of Waterloo, 1993
M.A.	Psychology University of Waterloo, 1990
B.A.	Psychology University of New Brunswick, 1988

POSITIONS AND APPOINTMENTS:

2007 -	Professor, Department of Psychology, College of Arts and Sciences, University of Kentucky.
2004 - 2007	Associate Professor, Department of Psychology, College of Arts and Sciences, University of Kentucky
2000 -	Cross Appointment. Department of Behavioral Sciences, College of Medicine
1999 - 2003	Assistant Professor, Department of Psychology, College of Arts and Sciences, University of Kentucky
1997 - 1999	Senior Postdoctoral Research Fellow, Ontario Mental Health Foundation.

1993 - 1999 Research Professor, Adjunct Assistant Professor, University of Waterloo

CAREER AND ACADEMIC HONORS:

2004 Elected Fellow, American Psychological Association
 1990 - 1993 Natural Sciences and Engineering Research Council of Canada Graduate Scholarships
 1990 - 1992 Ontario Graduate Scholarships
 1990 University of Waterloo Alumni Association Gold Medal for Outstanding Achievement in Graduate Research
 1989 - 1990 University of Waterloo Graduate Scholarships

RESEARCH GRANTS: AWARDED

2009-2014 \$1,534,000, Alcohol Tolerance and Behavioral Disinhibition in Humans. National Institute on Alcohol Abuse and Alcoholism (NIAAA). R01. Principal Investigator: Mark T. Fillmore
 2006-2011 \$810,000, *Mechanisms of Tolerance and Priming in Humans*. National Institute on Alcohol Abuse and Alcoholism (NIAAA). R01. Principal Investigator: Mark T. Fillmore
 2006-2008 \$80,000, Diversity Supplement Award: *Neurocognitive Consequences of Adolescent Drug Use*. National Institute on Drug Abuse (NIDA). R21 Principal Investigator: Mark T. Fillmore
 2006-2009 \$1,006,000. *Neurocognitive Consequences of Adolescent Drug Use*. National Institute on Drug Abuse (NIDA). R21 Principal Investigator: Mark T. Fillmore
 2001-2006 \$1,448,000. *Cognitive Processes in Cocaine and Polydrug Abuse*. National Institute on Drug Abuse (NIDA). R01 Principal Investigator: Mark T. Fillmore
 2001-2004 \$570,000. *Cognitive Mechanisms of Alcohol Abuse*. National Institute on Alcohol Abuse and Alcoholism (NIAAA). R01. Principal Investigator: Mark T. Fillmore
 2000 - 2002 \$150,000. *Binge Drinking, Alcohol, and Cognitive Processes*. National Institute on Alcohol Abuse and Alcoholism (NIAAA) R03. Principal Investigator: Mark T. Fillmore

- 1997 - 1999 \$112,000. *Alcohol and Impaired Inhibitory Self-control: Environmental and Personal Risk Factors*. Alcoholic Beverage Medical Research Foundation. Baltimore MD.
Principal Investigator: Mark T. Fillmore
- 1997 - 1999 \$60,000. *Inattention and Impulsivity: Processes and Treatment Implications for Behavioral Disinhibition*. Ontario Mental Health Foundation, Toronto, Canada
Principal Investigator: Mark T. Fillmore
- 1996 \$45,000. *Information processing under alcohol: Impairment, recovery, and tolerance of processing accuracy and attention*. Alcoholic Beverage Medical Research Foundation. Baltimore MD.
Principal Investigator: Muriel Vogel-Sprott
Co-investigator: Mark T. Fillmore
- 1993 - 1995 \$90,000. *Expectations about Alcohol Effects: Relationships to Behavioral Impairment and Drinking Habits*. Alcoholic Beverage Medical Research Foundation. Baltimore MD.
Principal Investigator: Muriel Vogel-Sprott
Co-investigator: Mark T. Fillmore

OTHER FUNDED RESEARCH ACTIVITIES:

- 2000 - present Training Faculty: *Research Training in Drug Abuse Behavior*. National Institute on Drug Abuse (NIDA). T32-DA07304. Principal Investigator/Director: Thomas F. Garrity
- 2000 - present Faculty Associate: Multidisciplinary Research Center on Drug and Alcohol Abuse. Lexington KY. Principal Investigator/Director: Carl Leukefeld, Ph.D.
- 2007 - present Co-investigator: Center for Prevention Research: NIDA P50 DA 05312. Principal Investigator/Director: Mike Bardo, Ph.D.

EDITORIAL AND REVIEW ACTIVITIES:

Review Activities:

- 2006 - 2010 *National Institutes of Health*. Adult Psychopathology and Disorders of Aging (APDA). Initial Review Group, Chartered Member
- 2009 *National Institutes of Health*. Initial Review Group *ad hoc* reviewer for: Special Emphasis Panel/Scientific Review Group 2009/10 ZAA1 DD
- 2005 *National Institutes of Health*. Initial Review Group *ad hoc* reviewer for:

- Adult Psychopathology and Disorders of Aging (APDA)
- 2004 *National Institutes of Health*. Initial Review Group, *ad hoc* reviewer for:
 - Adult Psychopathology and Disorders of Aging (APDA)
 - Biobehavioral and Behavioral Processes. Cognition and Perception
 - NIDA/E. Drug Abuse Treatment
 - NIDA. Special Emphasis Panel. B/START
 - Special Emphasis Panel - RFA: Cognitive Processes in Adolescent Drug Abuse
- 2003 *National Institutes of Health*. Initial Review Group, *ad hoc* reviewer for: NIDA-K, Training and Career Development Subcommittee
- 2003 *Ontario Mental Health Foundation*. Intermediate Research Fellowships. External Reviewer.
- 2002 *National Institutes of Health*. Special Emphasis Panel Reviewer for RFA AT-02-001, The Placebo Effect in Clinical Practice.
- 2002 *National Institutes of Health*. Initial Review Group, Temporary Member for Biobehavioral and Behavioral Processes (4). Cognition and Perception.
- 2002 *Department of Veterans Affairs*. External Reviewer

Editorial Board Member:

Psychology of Addictive Behaviors: 1999-2005.

Journal of Studies on Alcohol: 2000 - present

Experimental and Clinical Psychopharmacology: 2001 - 2006

Ad Hoc Reviewer for:

Journal of Abnormal Psychology

Drug and Alcohol Dependence

Alcoholism: Clinical and Experimental Research

Learning & Behavior

Accident Analysis and Prevention

Psychological Bulletin

Neuroscience and Biobehavioral Reviews

Addiction

Psychopharmacology

Neuropsychopharmacology

Perceptual and Motor Skills

Archives of General Psychiatry

Neuropsychologia

PUBLICATIONS:

Book Chapters and Research Monographs:

Fillmore, M. T. (in press). Drug abuse and behavioral disinhibition. In J. C. Verster, P. Conrod, K. Brady, and M. Galanter (eds.), *Drug Abuse and Addiction in Mental Illness: Causes, Consequences and Treatment*, Totowa, NJ: Humana Press.

Fillmore, M. T. (2009). Alcohol and cognitive functions. In L. Sher, I. Kandel, and J. Merrick (eds.), *Alcohol Related Cognitive Disorders: Research and Clinical Perspectives*. Hauppauge, NY: Nova Publishers.

Vogel-Sprott, M. and Fillmore, M. T. (in press). Learning, expectancy, and behavioral control: implications for drug abuse. In T. Schachtman (ed.), *Associative Learning and*

- Conditioning: Human and Animal Applications*. London UK, Oxford University Press.
- Fillmore, M. T. and Vogel-Sprott, M. (2006). Acute effects of alcohol and other drugs on automatic and intentional control. In R. W. Weirs and A. W. Stacy (eds.), *Handbook on Implicit Cognition in Addiction*, London UK, Sage Publications., pp. 293-306.
- Fillmore, M. T. (2002). Impulsivity as impaired inhibition: effects of ethanol. In *Problems of Drug Dependence*. NIDA Research Monograph Series. No 182, pp. 66-67.
- Fillmore, M. T. (1999). Behavioral effects of caffeine: The role of drug-related expectancies. In B.S. Gupta and U. Gupta (eds.), *Caffeine and Behavior: Current Views and Research Trends*. Boca Raton, Florida: CRC Press LLC., pp. 207-219.
- Vogel-Sprott, M. and Fillmore, M. T. (1999). Learning theory and research. In K.E. Leonard and H.T. Blane (eds.), *Psychological Theories of Drinking and Alcoholism, 2nd Edition*. New York: Guilford Press., pp. 292-327.
- Vogel-Sprott, M. and Fillmore, M. T. (1999). Expectancy and behavioral effects of socially-used drugs. In I. Kirsch (ed.), *Expectancy, Experience and Behavior*. Washington, DC: American Psychological Association., pp. 215-232.

Refereed Publications: * denotes graduate or post-doctoral student

- Weafer, J, Fillmore, M. T., and Milich, R. Binge drinking and attention deficit/hyperactivity disorder: the role of inhibitory mechanisms of behavior and attention. *Alcoholism: Clinical and Experimental Research*. Under review.
- *Weafer, J., *Miller, M. A. and Fillmore, M. T. Response conflict as an environmental determinant of gender differences in sensitivity to alcohol impairment. *Addiction*. Under Review.
- *Roberts, W., Fillmore, M. T., and Milich, R. Separating Automatic and Intentional Inhibitory Mechanisms of Attention in Adults with Attention-Deficit/Hyperactivity Disorder. *Neuropsychology*. Under review.
- Field, M., Wiers, R., Christensen, P., Fillmore, M., & Verster, J. Acute alcohol effects on executive function and implicit cognition: implications for loss of control and drunk-driving. *Alcoholism: Clinical and Experimental Research*. Under review.
- Miller, D. J., Derefinko, K., Lynam, D., Milich, R., and Fillmore, M. T. (in press). Impulsivity and attention deficit-hyperactivity disorder: subtype classification using the upps impulsive behavior scale. *Journal of Psychopathology and Behavioral Assessment*.
- *Miller, M. A., *Weafer, J., and Fillmore, M. T. (in press). Gender differences in alcohol impairment of simulated driving performance and driving related skills. *Alcohol and Alcoholism*.
- *Weafer, J, Fillmore, M. T., and Milich, R. (2009). Increased sensitivity to the disinhibiting effects of alcohol in adults with ADHD. *Experimental and Clinical Psychopharmacology*, 17, 113-121.
- Cyders, M. A., Zapolski, T., Combs, J., Fried, R., Fillmore, M. T., and Smith G. T. Manipulation of positive emotion and its effect on negative outcomes of gambling behaviors and alcohol consumption: The role of positive urgency. *Psychology of Addictive Behaviors*. Under

Review.

- *Harrison, E. L., *Marczinski, C. A., and Fillmore, M. T. Self-evaluating the impairing effects of alcohol and speeding in a simulated driving test. *Journal of Psychopharmacology*. Under Review.
- Fillmore, M. T., Milich, R. and Lorch, E. P. (2009). Inhibitory deficits in children with attention-deficit/hyperactivity disorder: intentional versus automatic mechanisms of attention. *Development and Psychopathology*, 21, 539-554.
- *Marczinski, C. A. and Fillmore, M. T. (2009). Alcohol tolerance on subjective intoxication and simulated driving performance in binge drinkers. *Psychology of Addictive Behaviors*, 23, 238-247.
- Fillmore, M. T., *Ostling, E. W., Martin, C. A., and Kelly, T. H. (2009). Acute effects of alcohol on inhibitory control and information processing in high and low sensation-seekers. *Drug and Alcohol Dependence*, 100, 91-99.
- *Adams, Z. W., *Derefinko, K. J., Milich, R., and Fillmore, M. T. (2008). Inhibitory functioning across ADHD subtypes: recent findings, clinical implications and future directions. *Developmental Disabilities Research Reviews*, 14, 268-275.
- *Weafer, J. and Fillmore, M. T. (2008). Individual differences in acute alcohol impairment of inhibitory control predict *ad libitum* alcohol consumption. *Psychopharmacology*, 201, 315-324.
- Fillmore, M. T. and *Harrison, E. L. (2008). The impairing effects of alcohol intoxication and speeding on driving precision: analyses of additive and interactive effects. *Advances in Transportation Studies: An International Journal. Special Issue 2007*, 65-70.
- *Vansickel, A. R., Fillmore, M. T., Hays, L. R. and Rush, C. R. (2008). Effects of potential agonist-replacement therapies for stimulant dependence on inhibitory control in cocaine abusers. *American Journal of Drug and Alcohol Abuse*, 34, 293-305.
- *Marczinski, C. A., *Harrison, E. L., and Fillmore, M. T. (2008). Effects of alcohol on simulated driving and perceived driving impairment in binge drinkers. *Alcoholism: Clinical and Experimental Research*, 32, 1329-1337.
- *Weafer, J., *Camarillo, D., Fillmore, M. T., Milich, R., and *Marczinski, C. A. (2008). Simulated driving performance of adults with ADHD: comparisons with alcohol intoxication. *Experimental and Clinical Psychopharmacology*, 16, 251-263.
- Fillmore, M. T., *Blackburn, J. S., and *Harrison, E. L. (2008). Acute disinhibiting effects of alcohol as a factor in risky driving behavior. *Drug and Alcohol Dependence*, 95, 97-106.
- *Derefinko, K. J. *Adams, Z. W., Milich, R., Fillmore, M. T., Lorch, E. P., & Lynam, D. R. (2008). Response style differences in the inattentive and combined subtypes of attention-deficit/hyperactivity disorder. *Journal of Abnormal and Child Psychology*, 36, 745-758.
- Gottlob, L. R., Fillmore, M. T. and *Abroms, B. D. (2007). Age-group differences in inhibiting an oculomotor response. *Aging, Neuropsychology, and Cognition*, 14, 586-593.
- *Harrison, E. L., *Marczinski, C. A., and Fillmore, M. T. (2007). Driver training conditions affect sensitivity to the impairing effects of alcohol on a simulated driving test. *Experimental and Clinical Psychopharmacology*, 15, 588-598.
- Fillmore, M. T. (2007). Acute alcohol-induced impairment of cognitive functions: past and

- present findings. *International Journal on Disability and Human Development*, 6, 115-125.
- *Marczinski, C. A., *Combs, S. W., and Fillmore, M. T. (2007). Increased sensitivity to the disinhibiting effects of alcohol in binge drinkers. *Psychology of Addictive Behaviors*, 21, 346-354.
- Gottlob, L. R., Fillmore, M. T. and *Abroms, B. D. (2007). Age-group differences in saccadic interference. *Journal of Gerontology: Psychological Sciences and Social Sciences*, 62, 85-89.
- Fillmore, M. T., Rush, C. R., and Hays, L. (2006). Acute effects of cocaine in two models of inhibitory control: implications of non-linear dose effects. *Addiction*, 101, 1323-1332.
- *Marczinski, C. A. and Fillmore, M. T. (2006). Clubgoers and their trendy cocktails: Implications of mixing caffeine into alcohol on information processing and subjective reports of intoxication. *Experimental and Clinical Psychopharmacology*, 14, 450-458.
- *Abroms, B. D., Gottlob, L. and Fillmore, M. T. (2006). Alcohol effects on inhibitory control of attention: distinguishing between intentional and automatic mechanisms. *Psychopharmacology*, 188, 324-334.
- Kelly, T. H., Robbins, G., Martin, C. A., Fillmore, M. T., Lane, S. D., Harrington, N. G., and Rush, C. R. (2006). Individual differences in drug abuse vulnerability: *d*-amphetamine and sensation-seeking status. *Psychopharmacology*, 189, 17-25.
- Fillmore, M. T. and Rush, C. R. (2006). Polydrug abusers display impaired discrimination-reversal learning in a model of behavioral control. *Journal of Psychopharmacology*, 20, 24-32.
- Testa, M., Fillmore, M. T., Norris, J., Abbey, A., Curtin, J. J., and Leonard, K. E. (2006). Understanding Alcohol Expectancy Effects: Revisiting the Placebo Condition. *Alcoholism: Clinical and Experimental Research*, 30, 339-348.
- Martin, C. S., Fillmore, M. T., Chung, T., Easdon, C., M., and Klaus, M. A. (2006). Multidisciplinary perspectives on impaired control over substance use. *Alcoholism: Clinical and Experimental Research*, 30, 265-271.
- Fillmore, M. T., *Marczinski, C. A., and *Bowman, A. M (2005). Acute tolerance to alcohol effects on inhibitory and activational mechanisms of behavioral control. *Journal of Studies on Alcohol*, 66, 663-672.
- *Marczinski, C. A., *Abroms, B. D., Van Selst, M., and Fillmore, M. T. (2005). Alcohol-induced impairment of behavioral control: effects on the engagement and disengagement of prepotent responses. *Psychopharmacology*, 182, 452-459
- *Harrison, E. R. and Fillmore, M. T. (2005). Transfer of learning to compensate for impairment by alcohol and visual degradation. *Psychopharmacology*, 182, 461-467.
- Stoops, W. W., Lile, J. A., Fillmore, M. T., Glaser, P. E., and Rush, C. R. (2005). Reinforcing effects of modafinil: influence of dose and behavioral demands following drug administration. *Psychopharmacology*, 182, 186-193.
- Fillmore, M. T., Rush, C. R., and Hays, L. (2005). Cocaine improves inhibitory control in a human model of response conflict. *Experimental and Clinical Psychopharmacology*, 13, 327-335.
- *Harrison, E. R. and Fillmore, M. T. (2005). Are bad drivers more impaired by alcohol? Sober driving precision predicts impairment from alcohol in a simulated driving task. *Accident*

- Analysis and Prevention*, 37, 882-889.
- *Marczinski, C. A. and Fillmore, M. T. (2005). Compensating for alcohol-induced impairment of control: effects on the inhibition and activation of behavior. *Psychopharmacology*, 181, 337-346.
- Fillmore, M. T., Rush, C. R., and *Abroms, B. D. (2005). *d*-Amphetamine-induced enhancement of inhibitory mechanisms involved in visual search. *Experimental and Clinical Psychopharmacology*, 13, 200-208.
- *Marczinski, C. A. and Fillmore, M. T. (2005). Alcohol increases reliance on cues that signal acts of control. *Experimental and Clinical Psychopharmacology*, 13, 15-24.
- *Marczinski, C. A., *Bryant, R., and Fillmore, M. T. (2005). The relationship between cognitive preoccupation with alcohol and alcohol use in male and female college students. *Addiction Research and Theory*, 13, 383-394.
- Fillmore, M. T., Kelly, T. H., and Martin, C. A. (2005). Effects of *d*-amphetamine in human models of information processing and inhibitory control. *Drug and Alcohol Dependence*, 77, 151-159.
- *Harrison, E. R. and Fillmore, M. T. (2005). Social drinkers underestimate the additive impairing effects of alcohol and visual degradation on behavioral functioning. *Psychopharmacology*, 177, 459-464
- *Stoops, W. W., Lile, J. A., Fillmore, M. T., Glaser, P. E., and Rush, C. R. (2005). Reinforcing effects of methylphenidate: influence of dose and behavioral demands following drug administration. *Psychopharmacology*, 177, 349-355.
- Fillmore, M. T. and *Weafer, J. (2004). Alcohol impairment of behavior in men and women. Target Article. *Addiction*, 99, 1237-1246.
- *Abroms, B. D. and Fillmore, M. T. (2004). Alcohol-induced impairment of inhibitory mechanisms involved in visual search. *Experimental and Clinical Psychopharmacology*, 12, 243-250.
- Fillmore, M. T. and *Weafer, J. (2004). Alcohol impairment of behavior in men and women: A reply to the commentaries. *Addiction*, 99, 1252-1254.
- *Stoops, W. W., Glaser, P. E., Fillmore, M. T., and Rush, C. R. (2004). Reinforcing, subject-rated, performance and physiological effects of methylphenidate and *d*-amphetamine in stimulant abusing humans. *Journal of Psychopharmacology*, 18, 534-543.
- Fillmore, M. T. (2004). Environmental dependence of behavioral control mechanisms: effects of alcohol and information processing demands. *Experimental and Clinical Psychopharmacology*, 12, 216-223.
- Fillmore, M. T. (2003). Drug abuse as a problem of impaired control: current approaches and findings. *Behavioral and Cognitive Neuroscience Reviews*, 2, 179-197.
- *Abroms, B. D., Fillmore, M. T., and *Marczinski, C. A. (2003). Alcohol-induced impairment of behavioral control: effects on alteration and suppression of prepotent responses. *Journal of Studies on Alcohol*, 64, 687-695.
- Fillmore, M. T., Rush, C. R., and *Marczinski, C. A. (2003). Effects of *d*-amphetamine on behavioral control in stimulant abusers: the role of prepotent response tendencies. *Drug and Alcohol Dependence*, 71, 143-152.
- Fillmore, M. T. (2003). Reliability of a computerized assessment of psychomotor performance

- and its sensitivity to alcohol-induced impairment. *Perceptual and Motor Skills*, 97, 21-34.
- *Marczinski, C. A. and Fillmore, M. T. (2003). Dissociative antagonistic effects of caffeine on alcohol-induced impairment of behavioral control. *Experimental and Clinical Psychopharmacology*, 11, 228-236.
- *Stoops, W. W., Fillmore, M. T., Poonacha, M. F., *Kingery, J. E., and Rush, C. R. (2003). Alcohol choice and amphetamine effects in light and moderate drinkers. *Alcoholism: Clinical and Experimental Research*, 27, 804-811.
- Rush, C. R. , Kelly, T. H., Fillmore, M. T., and Hays, L. R. (2003). Discriminative-stimulus effects of triazolam in light and moderate drinkers. *Alcoholism: Clinical and Experimental Research*, 27, 638-646.
- Fillmore, M. T. (2003). Alcohol tolerance in humans is enhanced by prior caffeine-antagonism of alcohol-induced impairment. *Experimental and Clinical Psychopharmacology*, 11, 9-17.
- *Marczinski, C. A. and Fillmore, M. T. (2003). Pre-response cues reduce the impairing effects of alcohol on the execution and suppression of responses. *Experimental and Clinical Psychopharmacology*, 11, 110-117.
- Fillmore, M. T., *Roach, E., and *Rice, J. (2002). Does caffeine counteract alcohol-induced impairment? The ironic effects of expectancy. *Journal of Studies on Alcohol*, 63, 745-754.
- Fillmore, M. T. and Van Selst, M. (2002). Constraints on information processing under alcohol in the context of response execution and response suppression. *Experimental and Clinical Psychopharmacology*, 10, 417-424.
- Fillmore, M. T., Rush, C. R., and Hays, L. (2002). Acute effects of oral cocaine on inhibitory control of behavior in humans. *Drug and Alcohol Dependence*, 67, 157-167.
- Fillmore, M. T. and *Blackburn, J. (2002). Compensating for alcohol-induced impairment: Alcohol expectancies and behavioral disinhibition. *Journal of Studies on Alcohol*, 63, 237-246.
- Fillmore, M. T. and Rush, C. R. (2002). Impaired inhibitory control of behavior in chronic cocaine users. *Drug and Alcohol Dependence*, 66, 265-273.
- Fillmore, M. T. (2001) Cognitive preoccupation with alcohol and binge drinking in college students: Alcohol-induced priming of the motivation to drink. *Psychology of Addictive Behaviors*, 15, 325-332.
- Fillmore, M. T., Rush, C. R., Kelly, H. K., and Hays, L. (2001). Triazolam impairs inhibitory control of behavior in humans. *Experimental and Clinical Psychopharmacology*, 9, 363-371.
- Fillmore, M. T., Kelly, H. K., Rush, C. R., and Hays, L. (2001). Retrograde facilitation of memory by triazolam: Effects on automatic processes. *Psychopharmacology*, 158, 314-321.
- Fillmore, M. T. and Rush, C. R. (2001). Alcohol effects on inhibitory and activational response strategies in the acquisition of alcohol and other reinforcers: Priming the motivation to drink. *Journal of Studies on Alcohol*, 62, 646-656.
- Vogel-Sprott, M. Easdon, C., Fillmore, M., Finn P., and Justus A. (2001). Alcohol and behavioral control: Cognitive and neural mechanisms. *Alcoholism: Clinical and Experimental Research*, 25, 117-121.
- Fillmore, M. T., Dixon, M. J., and *Schweizer, T. A. (2000). Differential effects of alcohol on

- responses to negatively- and positively-primed stimuli. *Journal of Studies on Alcohol*, 61, 872-880.
- Fillmore, M. T., Dixon, M. J., and *Schweizer, T. A. (2000). Alcohol affects processing of ignored stimuli in a negative priming paradigm. *Journal of Studies on Alcohol*, 61, 571-578.
- Fillmore, M. T. and Vogel-Sprott, M. (2000). Response inhibition under alcohol: Effects of cognitive and motivational conflict. *Journal of Studies on Alcohol*, 61, 239-246.
- Fillmore, M. T., Vogel-Sprott, M., and *Gavrilescu, D. (1999). Alcohol effects on intentional behavior: automatic and controlled processes. *Experimental and Clinical Psychopharmacology*, 7, 372-378.
- Fillmore, M. T. and Vogel-Sprott, M. (1999). An alcohol model of impaired inhibitory control and its treatment in humans. *Experimental and Clinical Psychopharmacology*, 7, 49-55.
- Fillmore, M. T. and Vogel-Sprott, M. (1998). Behavioral impairment under alcohol: Cognitive and pharmacokinetic factors. *Alcoholism: Clinical and Experimental Research*, 22, 1476-1482.
- Fillmore, M. T., *Carscadden, J., and Vogel-Sprott, M. (1998). Alcohol, cognitive impairment, and expectancies. *Journal of Studies on Alcohol*, 59, 174-179.
- Fillmore, M. T. and Vogel-Sprott, M. (1997). Resistance to cognitive impairment under alcohol: The role of environmental consequences of cognitive performance. *Experimental and Clinical Psychopharmacology*, 5, 251-255.
- Fillmore, M. T. and Vogel-Sprott, M. (1996). Social drinking history, behavioral tolerance and the expectation of alcohol. *Psychopharmacology*, 127, 359-364.
- Fillmore, M. T. and Vogel-Sprott, M. (1996). Evidence that expectancies mediate behavioral impairment under alcohol. *Journal of Studies on Alcohol*, 57, 598-603.
- Fillmore, M. T. and Vogel-Sprott, M. (1995). Behavioral effects of alcohol in novice and experienced drinkers: Alcohol expectancies and impairment. *Psychopharmacology*, 122, 175-181.
- Fillmore, M. T. and Vogel-Sprott, M. (1995). Behavioral effects of combining alcohol and caffeine: The contribution of drug-related expectancies. *Experimental and Clinical Psychopharmacology*, 3, 33-38.
- Fillmore, M. T. and Vogel-Sprott, M. (1995). Expectancies about alcohol-induced motor impairment predict individual differences in responses to alcohol and placebo. *Journal of Studies on Alcohol*, 56, 90-98.
- Fillmore, M. T. (1994). Investigating the behavioral effects of caffeine: The contribution of drug-related expectancies. Special Issue: Caffeine Research. *Pharmacopsychologia*, 7, 63-73.
- Fillmore, M. T. and Vogel-Sprott, M. (1994). Psychomotor performance under alcohol and under caffeine: Expectancy and pharmacological effects. *Experimental and Clinical Psychopharmacology*, 2, 319-328.
- Fillmore, M. T., *Mulvihill, L. E., and Vogel-Sprott, M. (1994). The expected drug and its expected effect interact to determine placebo responses to alcohol and caffeine. *Psychopharmacology*, 115, 383-388.
- Vogel-Sprott, M. and Fillmore, M. T. (1993). Impairment and recovery under repeated doses of

alcohol: Effects of response-outcomes *Pharmacology, Biochemistry, and Behavior*, 45, 59-63.

Fillmore, M. and Vogel-Sprott, M. (1992). Expected effect of caffeine on motor performance predicts the type of response to placebo. *Psychopharmacology*, 106, 209-214.

Taukulis, H. K., Fillmore, M. T., and Ruggles J. L. (1991). Neuroleptic-induced changes in the anxiolytic and myorelaxant properties of diazepam in the rat. *Pharmacology, Biochemistry, and Behavior*, 41, 13-21.

INVITED TALKS AND PRESENTATIONS:

The Johns Hopkins University School of Medicine, Baltimore MD, “*Drug abuse and impaired self-control*”, 2008.

Alcoholic Beverage Medical Research Foundation, International Medical Advisory Group, Halifax Falls, Canada, “*Alcohol impairment: people differ in their expectancies*” 2007.

University of Michigan Substance Abuse Research Center. Symposium on abuse of prescription stimulants. Ann Arbor MI. “*Acute effects of stimulant drug on behavioral control.*” 2006

National Institute on Drug Abuse. Sponsored symposium on cognitive approaches to addiction. Bethesda MD. “*Drug abuse and behavioral control: learning from cognitive models*”. 2005

Dalhousie University, Halifax, Canada. “*Drug abuse as a problem of self-control: acute effects of alcohol and cocaine in humans*”. 2005

American Psychological Association. New Fellows Address. Division 28, Washington DC. “*Drug effects on attention: learning from cognitive models*”. 2005.

University of Kentucky Distinguished Scholars Lecture, “*The psychology of drug abuse: why it’s not always possible to just say no*”. 2004

Alcoholic Beverage Medical Research Foundation, International Medical Advisory Group, Niagra Falls, Canada, “*Alcohol and behavioral control: the vulnerability of inhibitory mechanisms.*” 2003.

Research Institution on Addictions, Buffalo, NY, “*Drug effects on behavioral suppression: much ado about nothing*”. 2002.

Indiana University, Bloomington, IN, “*Drug-induced behavioral impairment: Cognitive concepts of control.*” 2000.

University of New Orleans, New Orleans, LA, “*Understanding deficits in inhibitory control: ADHD and the effect of alcohol.*” 1999.

The Addiction Research Foundation, Toronto, Canada, "*Alcohol impairment among social drinkers: Expectations concerning behavioral effects.*" 1996.

University of Chicago, The Department of Psychiatry, Chicago IL, "*Individual differences in behavioral responses to drugs. The role of drug-related expectancies.*" 1996.

The Johns Hopkins University School of Medicine, Baltimore MD, "*Drug and placebo responses in psychomotor performance: The role of drug-related expectancies.*" 1993.

CONFERENCE PAPERS AND PRESENTATIONS:

Fillmore, M. T. Acute disinhibiting effects of alcohol: modeling real-world consequences in the lab. Research Society on Alcoholism. San Diego CA, 2009.

Weafer, J. & Fillmore, M. T. Increased sensitivity to the disinhibiting effects of alcohol in adults with ADHD. Research Society on Alcoholism. San Diego, CA, 2009.

Weafer, J. & Fillmore, M. T. Increased sensitivity to the disinhibiting effects of alcohol in adults with ADHD. International Society for Research on Impulsivity. San Diego, CA, 2009.

Ostling, E. & Fillmore, M. T. Tolerance to alcohol effects on inhibitory and activational mechanisms of behavioral control. Research Society on Alcoholism. San Diego, 2009.

Miller, M.A., Weafer, J., & Fillmore, M.T. Gender differences in alcohol impairment of simulated driving performance and driving related skills. Research Society on Alcoholism. San Diego CA, 2009.

Miller, M.A. & Fillmore, M.T. Levels of impulsivity in drinkers predict the degree of attentional bias toward alcohol. International Society for Research on Impulsivity. San Diego CA, 2009.

Weafer, J. & Fillmore, M. T. Alcohol impairment of inhibitory mechanisms in binge and non-binge drinkers: Examining the role of inhibitory control in alcohol abuse. Research Society on Alcoholism. Washington DC, 2008.

Fillmore, M. T & Milich, R. Contemporary approaches to the study of impulsivity in ADHD and addictive behaviors. International Conference of the Association of Psychology and Psychiatry for Adults and Children. Athens Greece, 2008.

Fillmore, M. T. The impairing effects of alcohol intoxication and speeding on driving precision: analysis of additive and interactive effects. Road Safety and Simulation Conference. Rome Italy, 2007.

Derefinko, K. J., Adams, Z. K., Milich, R., & Fillmore, M. T. Inhibitory deficits in children with attention deficit/hyperactivity disorder/inattentive type. International Society for Research on Child and Adolescent Psychopathology. London UK, 2007.

Fillmore, M. T. Acute Alcohol-induced impairments of behavioral control in the laboratory: can the lab model the bar? Association for Behavioral and Cognitive Therapies. Philadelphia PA, 2007.

Weafer, J. & Fillmore M. T. Alcohol-induced impairment of inhibitory control and driving performance in adults with ADHD. American Psychological Association. San Francisco, 2007.

Camarillo, D. & Fillmore, M. T. Effects of adolescent marijuana use on working memory. American Psychological Association. San Francisco, 2007.

Fillmore, M. T. Acute sensitivity to alcohol in young adults: impulsivity and substance abuse risk. World Congress on Behavioral and Cognitive Therapy. Barcelona Spain, 2007.

Fillmore, M. T. & Rush, C. R. Acute effects of cocaine in two models of inhibitory control: implications of non-linear dose effects. College on Problems on Drug Dependence, Scottsdale AZ, 2006

Harrison, E. & Fillmore, M. T. Alcohol and the need for speed. An examination of multiple factors influencing risky driving behavior. Research Society on Alcoholism. Baltimore MD, 2006.

Marczinski, C. A. & Fillmore, M. T. Clubgoers and their trendy cocktails: implications of mixing caffeine into alcohol on information processing and subjective reports of intoxication. Research Society on Alcoholism. Baltimore MD, 2006.

Marczinski, C.A., Abrams, B.D., Van Selst, M., & Fillmore, M.T. Alcohol-induced impairment of behavioral control: The motor program and impulsivity. Psychonomics Society. Toronto, Canada, 2005

Marczinski, C. A. & Fillmore, M. T. Compensating for alcohol-induced impairment of control: effects on inhibition and activation of behavior. Research Society on Alcoholism. Santa Barbara CA. 2005.

Abrams, B. D. & Fillmore, M. T. Alcohol effects on inhibitory mechanisms of attention. Research Society on Alcoholism. Santa Barbara CA. 2005.

Harrison, E. L. & Fillmore, M. T. Alcohol-induced impairment of simulated driving is mediated by initial levels of driving performance. Research Society on Alcoholism. Santa Barbara CA. 2005.

Fillmore, M. T. Acute effects of alcohol on behavioral control in human laboratory studies. Research Society on Alcoholism. Santa Barbara CA. 2005.

Fillmore, M. T. Understanding alcohol expectancy effects: revisiting the placebo condition - An introduction. Research Society on Alcoholism. Santa Barbara CA. 2005.

Fillmore, M. T. Alcohol and impaired self-control: "I'm just having two drinks, honest". American Psychological Association. Washington DC. 2005

Easdon, C. M. and Fillmore, M. T. Moderate doses of alcohol modulate neural systems underlying inhibitory control and learning as measured by event-related fMRI. College on Problems on Drug Dependence. San Juan, Puerto Rico, 2004

Harrison, E. L. and Fillmore, M. T. Social drinkers underestimate additive behavioral impairment from alcohol and visual deficits. College on Problems on Drug Dependence. San Juan, Puerto Rico, 2004

Fillmore, M. T. and Rush, C. R. Cocaine users display impaired discrimination-reversal learning in a model of behavioral control. College on Problems on Drug Dependence. San Juan, Puerto Rico, 2004

Marczinski, C. and Fillmore, M. T. Alcohol-related and neutral words as pre-response primes: Impairing effects of alcohol on behavioral control. Research Society on Alcoholism, Fort Lauderdale, FL, 2003

Marczinski, C. and Fillmore, M. T. Functional antagonism of the alcohol-induced impairment on the execution but not the suppression of responses by caffeine. Research Society on Alcoholism, Fort Lauderdale, FL, 2003

Abroms, B. and Fillmore, M. T. Alcohol-induced impairment of inhibitory control: A tale of two tasks. Research Society on Alcoholism, Fort Lauderdale, FL, 2003

Fillmore, M. T. and Rush, C. R. Disinhibiting effects of *d*-amphetamine in stimulant abusers: the role of prepotent response tendencies. College on Problems on Drug Dependence. Bal Harbor, FL, 2003

Marczinski, C. and Fillmore, M. T. Differential effects of alcohol on response execution and response suppression: protective effects of preliminary information. Society for Neuroscience, Orlando, FL, 2002.

Fillmore, M. T. Alcohol-induced disinhibition: The role of antecedents and consequences in the drinking Situation. NIAAA-sponsored symposium presented at the American Psychological Society, New Orleans, LA, 2002.

Fillmore, M. T. and Blackburn, J. Alcohol-induced disinhibition is affected by expectations of the drinker. Research Society on Alcoholism, San Francisco, CA, 2002.

Abroms, B., Marczinski, C., and Fillmore, M. T. Alcohol-induced impairment of inhibitory control: the effects of response preparation. Research Society on Alcoholism, San Francisco, CA, 2002.

Fillmore, M. T. Retrograde memory facilitation by sedative hypnotic drugs: A reliance on automatic processes. Psychonomics Society, Orlando, FL, 2001.

Van Selst, M. and Fillmore, M. T. What No-Go PRP can tell us about alcohol-facilitated failures of inhibition. Psychonomics Society, Orlando, FL, 2001

Van Selst, M. and Fillmore, M. T. A functional mechanism by which alcohol reduces inhibition. Cognitive Science Association for Interdisciplinary Learning, Hood River, OR, 2001

Fillmore, M. T. Impulsivity as impaired inhibition: effects of ethanol. College on Problems on Drug Dependence, Scottsdale AZ, 2001

Fillmore, M. T. The sedative-hypnotic drug triazolam impairs cognitive inhibitory control. Psychonomics Society, New Orleans, LA, 2000.

Fillmore, M. T. Alcohol-induced impairment of inhibitory control: Some commonalities with ADHD. Research Society on Alcoholism, Denver, CO, 2000

Fillmore, M. T. and Rush, C. R. Alcohol suppresses cognitive inhibitory mechanisms in attention-based performance of social drinkers: A temporary drug-induced attentional deficit? College on Problems on Drug Dependence, San Juan, Puerto Rico, 2000

Fillmore, M. T. and Vogel-Sprott, M. Alcohol reduces negative priming on a Stroop color-word task. Psychonomic Society, Dallas, TX, 1998.

Fillmore, M. T. and Vogel-Sprott, M. Alcohol-induced disinhibition: the counteracting effect of a stimulant drug. American Psychological Association, San Francisco, CA, 1998.

Fillmore, M. T. and Vogel-Sprott, M. Response conflict contributes to alcohol-impaired inhibitory-control in humans. Research Society on Alcoholism, Hilton Head, SC, 1998.

Fillmore, M. T. and Vogel-Sprott, M. Alcohol-impaired behavior: Cognitive and Pharmacokinetic Factors. Psychonomic Society, Philadelphia, PA, 1997.

Fillmore, M. T. and Vogel-Sprott, M. Behavioral tolerance to alcohol and a compensatory response to a placebo in novice and experienced drinkers. Research Society on Alcoholism,

Washington, DC, 1996.

Fillmore, M. T. and Vogel-Sprott, M. Alcohol-related expectancies and behavioral impairment in novice and experienced drinkers: Evidence that expectancies are learned. Research Society on Alcoholism, Steamboat Springs Colorado, 1995.

Fillmore, M. T. and Vogel-Sprott, M. Expectancy and pharmacological effects of alcohol and caffeine on psychomotor performance. Research Society on Alcoholism, Maui Hawaii, 1994.

Fillmore, M. T., Mulvihill, L. E., and Vogel-Sprott, M. Placebo responses to alcohol and caffeine: Interaction between the expected drug and its expected effect. Research Society on Alcoholism, Maui Hawaii, 1994.

Fillmore, M. T. and Vogel-Sprott, M. Detecting placebo responses to alcohol using individual differences in expected alcohol effects on performance. Research Society on Alcoholism, San Antonio, TX, 1993.

Fillmore, M. T. and Vogel-Sprott, M. Expected degree of impairment predicts response to alcohol and placebo on motor performance. Research Society on Alcoholism, San Diego, CA, 1992.

Fillmore, M. T. and Vogel-Sprott, M. Expected effect of caffeine on motor performance predicts the type of response to placebo. Research Society on Alcoholism, Marco Island, FL, 1991.

RESEARCH SOCIETY AFFILIATION:

- College on Problems of Drug Dependence
- International Society for Research on Impulsivity
- The Psychonomic Society
- Research Society on Alcoholism
- American Psychological Association (Elected Fellow):
 - Division 28, Psychopharmacology and Substance Abuse
 - Division 50, Psychology of Addictive Behaviors

RESEARCH SOCIETY COMMITTEES AND SERVICES

- 2003- Liaison for Committee on International Relations in Psychology (CIRP) for American Psychological Association, Division 28, Psychopharmacology and Substance Abuse
- 2006- Member-at-Large for American Psychological Association, Division 28, Psychopharmacology and Substance Abuse

UNIVERSITY AND DEPARTMENTAL COMMITTEES AND SERVICES

University

2008- College Advisory Committee for Promotion and Tenure
2004- Non-medical IRB Member
2004-2005 UK Summer Research and Major Research Grant Reviewer
2000 Reviewer of submissions for UK's National Conference Undergraduate Research (NCUR)

Departmental

2007-2008 Committee on Diversity, Chair
2006-2007 Division Coordinator for Behavioral Neuroscience and Psychopharmacology
2006-2007 Undergraduate Effectiveness Committee Member
2002-2006 Psychology Research Ethics Committee Member
2001-2002 Graduate Student Advisory Committee Member
2000-2001 Member of Departmental Awards Committee
2000-2001 Psychology Research Ethics Committee Member

GRADUATE AND POST-DOCTORAL TRAINING

Students Receiving Graduate Degrees under my Supervision:

Jessica Weafer: MA (2008)

Thesis title: *Alcohol impairment of inhibitory mechanisms in binge and non-binge drinkers: examining the role of inhibitory control in alcohol abuse*

Ben Abrams: Ph.D. (2006)

Dissertation title: *Alcohol effects on inhibitory mechanisms of visual attention*

Emily Harrison Ph.D. (2006)

Dissertation title: *The role of skill development in alcohol-induced impairment of driving-related behaviors.*

Emily Harrison: MA (2003)

Thesis title: *The role of expectancy-induced compensatory responses in reducing psychomotor impairment from visual- and alcohol-induced deficits*

Judith Carscadden: MA (1996)

Thesis title: *The Role of Alcohol-Related Expectancies in Cognitive Performance Under Alcohol and Placebo.*

Diane Borsoi: MA (1995)

Thesis title: *The effect of Caffeine on Component Activities Involved in Information Processing.*

Post-doctoral Students Trained under my Supervision:

Cecile Marczynski, Ph.D. (2001-2004)

Sponsored Career Development Mentorship:

K01 DA018772 (Lile, JA)

National Institutes of Health/National Institute on Drug Abuse

A Pharmacological Analysis of D9-THC in Humans

06/01/2005-05/31/2010

Role: Co-Mentor

SAMPLES OF CONSULTING AND COMMUNITY-RELATED ACTIVITIES:

- Advisory Board Member of the Federal Transit Administration Post-accident Testing Heuristic (PATH) Project to evaluate effects of prescription medication on driving performance of public bus operators. 2008-present.
- Expert witness for U.S. and Canadian legal cases involving the effects of alcohol in traffic and workplace injury.
- Human Psychomotor Performance Software Design Consultant for Life Science Associates Inc. New York, NY. 1999 - Present.
- Scientific Advisor to the National Automobile, Aerospace, Transportation, and General Workers Union of Canada. 1998 - Present.
- Scientific Consultant for the British Broadcasting Corporation (BBC). 2000.
- Scientific Reviewer for Canadian Ministry of Transport. Project Title: Assessing the potential impact of lowering the legal blood alcohol limit to 50 mg% in Canada. 1998
- Vermont Alcohol Research Center, Colchester Vermont. Psychobiological studies of alcohol tolerant drivers. Scientific Advisor. 1991-1994.
- Addiction Research Foundation, Burlington Ontario. Effects of low blood alcohol concentrations on driving ability: A field study. Scientific Advisor/Study Planner. 1989