VITA

MARSHA E. BATES

Distinguished Professor

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EDUCATIONAL HISTORY	<u>DEGREE</u>	<u>DATE</u>	MAJOR AREA
Rutgers University New Brunswick, NJ	Postdoctoral	1983	Addictions
Rutgers University New Brunswick, NJ	Ph.D.	1980	Cognitive Psychology
Rutgers University New Brunswick, NJ	M.S.	1978	Human Experimental Psychology
Indiana University of Pennsylvania	B.A.	1972	Psychology

PROFESSIONAL HISTORY

1/2018 - Ongoing	Distinguished Professor , Department of Kinesiology and Health,
= /00 / F	Rutgers University-New Brunswick
7/2015 – 12/2017	Distinguished Research Professor , Center of Alcohol Studies
	(CAS), Rutgers University-New Brunswick
1/2016 - 8/2017	Acting Director, Rutgers University CAS
5/2002 - 6/2015	Research Professor, Rutgers University CAS
10/1998 - Ongoing	Adjunct Associate Professor of Psychiatry, Department of
	Psychiatry, Robert Wood Johnson Medical School
5/1995 - 5/2002	Associate Research Professor, Rutgers University CAS
7/1990 - 4/1995	Assistant Research Professor, Rutgers University CAS
9/1983 - 9/1990	Research Associate in Psychology, Rutgers University CAS
12/1981 - 8/1983	Post Doctoral Research Fellow, Rutgers University CAS
1980 - 1981	NIAAA NRSA Post Doctoral Fellow, Rutgers University CAS
1979 - 1983	Human Factors Consultant, Human Resource Development,
	Employee Research and Systems, AT&T, Basking Ridge, NJ

RUTGERS UNIVERSITY FACULTY ACTIVITIES

2023	Co-Chair: Planning, Implementation, and Metrics Committee,
	SAS Strategic Plan
2021	Member: Future of Work Task Force - Research, Rutgers
	Presidential Task Force
2020 - Ongoing	Vice Chair: Graduate Studies and Research, Department of
	Kinesiology and Health, Rutgers University - New Brunswick
2019 - 2022	Member: School of Arts and Sciences Curriculum Committee,
	Rutgers University – New Brunswick
2019 - 2022	Member: Department of Kinesiology and Health Curriculum

2019 – 2021	Committee, Rutgers University – New Brunswick Member: Association for the Accreditation of Human Research Protection Programs, Inc. (AAHRP) IRB Advisory Committee, Rutgers, The State University of New Jersey.
2018 - 2020 2018 - 2019	Member: Rutgers Cannabis Scientific Research Committee Vice Chair of Research and Innovation , Department of Kinesiology and Health, Rutgers University – New Brunswick
2018 – Ongoing 2018 – Ongoing	Coordinator : Departmental and Graduate Program Seminar Series Resident Scholar: Rutgers Center of Alcohol and Substance Use Studies
2017 - Ongoing	Senior Member: Brain Health Institute, Rutgers University/Rutgers Biomedical & Health Sciences
2017 - Ongoing	Mentor: RiSE at Rutgers, Research in Science and Engineering, School of Graduate Studies
2016 - 2017 2015 - Ongoing	Acting Director: Rutgers Center of Alcohol Studies Mentor: Project SUPER, Science for Undergraduates: A Program for Excellence in Research, Douglass Project for Rutgers Women in Math, Science, and Engineering
2015 - 2016	Director: Research Division, Rutgers Center of Alcohol Studies
2014	Member: Tobacco, Alcohol, and Other Drug Strategic Plan Working Group, Rutgers University
2013	Member: Strategic Planning Committee "Improving health and wellness of individuals and populations," Rutgers University
2013 - Ongoing 2008 – 2021	Member: Rutgers Addiction Consortium, Department of Psychiatry Vice-Chair: Institutional Review Board for the Protection of Human Subjects Involved in Research, Office of Research and Sponsored Programs
2003 – Ongoing	Director: Cardiac Neuroscience Laboratory , Center of Alcohol and Substance Use Studies
2003 – 2012	Curriculum Review Committee , Education and Training Division, Center of Alcohol Studies
1994 - Ongoing	Member: Rutgers School of Graduate Studies (formerly the Graduate Faculty of the School of Arts and Sciences)
1986 – Ongoing 2018 – Ongoing	Member: Graduate Faculty in Psychology (Clinical Area) Member: Graduate Faculty in Kinesiology and Applied Physiology
1990 - 2017	Continuing Education Faculty, Center of Alcohol Studies
1984 - Ongoing 1994 – 2007	Women's Study Faculty (STEM) Member: Institutional Review Board for the Protection of
1993 - 1994	Human Subjects in Research Operations Committee, Center of Alcohol Studies
1985 - 1987	Coordinator: Graduate Curriculum in Psychology, Graduate Certificate Program in Alcohol Studies
1984 - 1992	Curriculum Development Committee, Graduate Certificate Program in Alcohol Studies

DEI TRAINING

2023	STRIDE Training Oct 17
2021	STRIDE Training

<u>AWARDS</u>

2019	Humanitarian of the Year, Empowering Futures, Transforming Communities, Center for Great Expectations, New Brunswick NJ
2014	Distinguished Service Award, American Psychological Association, Division 50, Society of Addiction Psychology
2011	Distinguished Scientific Contribution Award, American
2000	Psychological Association, Division 50, Society of Addiction Psychology
2009	Undergraduate Research Mentor of the Year Nomination, Rutgers University
2008	Top 26 selected articles on addictive behaviors from APA
	journals from 1997-2006: Bates et al., "Risk factors and
	neuropsychological recovery in clients with alcohol use disorders who
	were exposed to different treatments," APA Reprint Reader on
	Addictive Behaviors, 2008. Originally published in <i>JCCP</i> , 2004.
2007	Neuroscience Teacher Recognition Award, IES Brain Research
	Foundation, Sparta NJ
2006	Fellow: American Psychological Association, Divisions 50
	(Addictions) and 28 (Psychopharmacology)
1993 - 2021	Faculty Academic Merit Awards - Rutgers University
2002	Award for Excellence in Scientific Presentation, Division 40
	(Clinical Neuropsychology) of the American Psychological Association
1998	Travel Award - National Institute on Mental Health
1987	Public Service Award - Criminal Justice Alcoholism Coalition of NJ
1981	National Research/Service Award (NIAAA)
1975	Walter Russell Scholarship - Rutgers University
1972	B.A. Cum Laude
1968 - 1972	Pennsylvania State Scholarship

ELECTED AND APPOINTED OFFICES AND OTHER PROFESSIONAL SERVICE

2020 – ongoing	Member : International Network on Neuroscience for Addiction Medicine (INONM)
2018 – ongoing	Member: Board of Trustees, Alcohol Research Documentation, Inc., the not-for-profit corporation managing the <i>Journal of Studies on Alcohol and Drugs</i>
2016 - 2017	Chair : Board of Trustees, Alcohol Research Documentation, Inc., the not-for-profit corporation managing the <i>Journal of Studies on Alcohol and Drug</i>
2012	Psychosocial Program Chair: Conference Program Committee, Research Society on Alcoholism
2011 - 2015	Member: Social and Behavioral Research Council of ABMRF/The Foundation for Alcohol Research
2009 – 2015	Vice Chair : Board of Trustees, Alcohol Research Documentation, Inc., the not-for-profit corporation managing the <i>Journal of Studies on Alcohol and Drug</i>
2009 – 2012	Member PI : Mechanism of Behavior Change Interdisciplinary Research Consortium (MIRC) of NIAAA
2007	Research Society on Alcoholism (RSA)-NIH Peer Review Task Force
2006 - 2012	Consultant to NIAAA: DARPA Initiative, Mechanisms of Behavior Change
2006 - 2019	Planning committee: the NIAAA Satellite Meeting on Mechanisms of Behavior Change at the Annual Meeting of the Research Society on

	Alcoholism
2004 - 2019	Chair, Finance Committee: American Psychological Association
	Division (50) on Addictions
2005, 2008, 2011	Conference Program Committee: Research Society on Alcoholism
2004 - 2008	Beta Site Collaborator: Mayo Clinic, Analyze Brain Imaging Software
2004 - 2007	President Elect, President, Past President: The American
	Psychological Association Division (50) on Addictions
2005, 2008, 2011	Conference Program Committee : Annual Meeting of the Research
	Society on Alcoholism
2000 - 2001	Program Co-Chair : Division 50 (Addictions) 2001 Annual Meeting of
	the American Psychological Association (with J. Morgenstern)
1998 – 2007	Program Reviewer : Division 50 Annual Meetings of the APA
1984 - 1992	Member : The Board of Trustees, Criminal Justice Alcoholism Coalition
	of NJ
1985	Vice-Chairperson: The Board of Trustees, Criminal Justice Alcoholism
4004	Coalition of NJ (CJAC)
1984	Chairperson: The Board of Trustees, CJAC
1982 - 1983	Chairperson: Committee on Treatment Facilities, CJAC

EDITORIAL SERVICE

2021 - 2023	Guest Associate Editor: Frontiers in Psychiatry: Psychological Therapy and Psychosomatics
2020 - Ongoing	Editorial Board: Applied Psychophysiology and Biofeedback
2014 - 2019	Consulting Editor: Psychology of Addictive Behaviors
2010 - 2013	Editorial Board: Comprehensive Addictive Behaviors and Disorders,
	Volume 1: Principles of Addiction; Volume 2: Biological Research on
	Addiction; Volume 3: Interventions for Addictions, Academic Press
2010 - 2013	Neuroscience Section Editor: Comprehensive Addictive Behaviors and
	Disorders, Volume 2 Biological Research on Addiction, Academic Press
1992 - Ongoing	Editorial Board: Journal of Studies on Alcohol and Drugs
2004 - 2010	Consulting Editor: Psychology of Addictive Behaviors
2000 - 2003	Associate Editor: Psychology of Addictive Behaviors
1998 - 1999	Consulting Editor: Psychology of Addictive Behaviors
1996 - 1998	Associate Editor: Alcoholism: Clinical and Experimental Research

NATIONAL INSTITUTES OF HEALTH SCIENTIFIC PEER REVIEW

Oct 2018-2022	Standing Member : Clinical, Treatment and Health Services Review Subcommittee (AA-3) of the NIAAA Initial Review Group, National Institutes of Health (NIH)
Feb 27, 2017	Chair : Special Emphasis Panel/Scientific Review Group 2017/05 ZAA1 CC (01) R, the National Consortium on Alcohol and Neurodevelopment in Adolescence (NCANDA)
June 22, 2016	Member: Special Emphasis Panel ZAA1 DD 05, National Institute of Alcohol Abuse and Alcoholism (NIAAA)
June 2008-2012	Standing Member : Neuroscience Review Subcommittee (AA-4) of the NIAAA Initial Review Group, National Institutes of Health (NIH)
Mar 17-18, 2008	Member: Recurring Special Emphasis Panel for Neuroscience, NIAAA
Mar 3, 2008	Ad hoc Member: Risk, Prevention and Health Behavior, NIH Center for Scientific Review (CSR)
Oct 2, 2007	Standing Member: Recurring Special Emphasis Panel for

Jun 11-12, 2007	Neuroscience, NIAAA Ad hoc Member: Risk, Prevention and Intervention of Addictions
,	(RPIA), NIH CSR
Jun 8-9, 2006	Member: Developmental Centers for Translational Research on the Clinical Neurobiology of Drug Addiction (Council ADA1 MXS-M 06 1), National Institute of Drug Abuse (NIDA)
Feb 16-17, 2006	Ad hoc Member: Adult Psychopathology and Disorders of Aging, NIH
Feb 17, 2006	Ad hoc Member: Biobehavioral Mechanisms in Psychopathology, Sleep, and Eating Disorders, NIH
Jun 20-21, 2005	Ad hoc Member: Adult Psychopathology and Disorders of Aging, NIH
Oct 18-19, 2004	Ad hoc Member: Adult Psychopathology and Disorders of Aging, NIH
Oct 20-21, 2003	Ad hoc Member: Cognition and Perception, NIH
Feb 24-25, 2003	Ad hoc Member: Biobehavioral and Behavioral Processes (BBBP-4), NIH
Feb 25-26, 2002	Ad hoc Member: BBBP-4, NIH
Oct 22-23, 2001	Ad hoc Member: BBBP-4, NIH
Oct 5, 2000	Ad hoc Member: General Clinical Research Centers Review
Aug 22 25 2000	Committee, National Center for Research Resources, NIH
Aug 23-25, 2000	Member: Special Emphasis Panel-ZAA1-AA-01 National Institute of Alcohol Abuse and Alcoholism (NIAAA), NIH
March 25, 1999	Member: Special Emphasis Panel-Prevention and Epidemiology
	Alcohol Review Committee, NIAAA, NIH
Nov 24, 1998	Member: Special Emphasis Panel-ZAA1-EE-01, NIAAA, NIH
July 13-16, 1998	Member: Special Emphasis Panel-ZAA1-EE-(2) NIAAA, NIH
May 4, 1998	Chair: Special Emphasis Panel-Prevention and Epidemiology Alcohol Review Committee, NIAAA, NIH
March 27, 1998	Ad hoc Member: Prevention and Epidemiology Alcohol Review Committee, NIAAA, NIH
1997	Ad hoc Member: Department of Veterans Affairs' Medical Research Service, Livermore, CA

INTERNATIONAL SCIENTIFIC GRANT REVIEW

2022	European Science Foundation
2020	The Brain Foundation Netherlands (Hersenstichting)
2015	Austrian Science Fund
2013	European Foundation for Alcohol Research
2003	Swiss National Science Foundation
1994	Alberta Mental Health Research Fund, Canada

72 AWARDS TO STUDENTS, FELLOWS AND JUNIOR FACULTY MENTORED since 2001

- F31 AA030715 Award, National Institutes of Health (NIH), National Institute of Alcohol Abuse and Alcoholism (NIAAA) (2023), "Alcohol Use, physical activity, and neurophysiological indicators of behavioral adaptability" to graduate student Andrew Ude (Co-mentor)
- 2. Society for Psychophysiology Research Annual Meeting Travel Award (2023) from the Society for Psychophysiology Research Annual Meeting, September, New Orleans, LA, to Luke Griffin Poole
- 3. **Joseph M Russell Memorial Poster Award (2023),** the annual Rutgers Center of Alcohol and Substance Use Studies Symposium and Poster Session, June, Piscataway, NJ to Hannah Perdue

- Research Society on Alcohol (RSA) Student Merit Award (2023); Funded through NIAAA to Andrew Antonio Ude
- 5. **Enoch Gordis Research Recognition Award Finalist (2022)** for Central executive network resting-state functional connectivity predicts changes in alcohol use during emerging adulthood: a prospective study, Research Society on Alcoholism, to Laura Lesnewich.
- 6. **NExT-Metabolism Pilot Award (2022)** for Dose-Response Effects of Resonance Breathing on Heart Rate Variability and Neural Activity, NJ Institute Food Health and Nutrition to postdoctoral fellow Ian Frasier and Andrew Ude.
- 7. **Best Post-doctoral Poster Award (2022)** in the area of Human Experimental Addiction Science, Rutgers Center of Alcohol & Substance Use Studies Annual Poster Session, to Julianne Price
- 8. **Helene R. White Conference Travel Award (2021)** to postdoctoral fellow Julianne Price.
- 9. **Joseph M. Russell Memorial Student Award (2021)** for research on alcoholism and its biological effects, Center of Alcohol and Substance Use Studies, Rutgers University, to Undergraduate Student Alexandra Jacko.
- 10. **NExT-Metabolism Pilot Award (2021)** for Alcohol effects on the link between emotion and cardiac signals, NJ Institute Food Health and Nutrition to postdoctoral fellow Mateo Leganes-Fonteneau.
- 11. **Conference Award (2021)**, Annual Meeting of Collaborative Perspectives on Addiction, to Julianne Price.
- 12. **Leon H. Greenberg Memorial Award (2020)** for Excellence in Graduate Studies and Promise as a Scientific Investigator, Center of Alcohol Studies, Rutgers University, to Graduate student Laura Lesnewich.
- 13. **Best Post-doctoral Poster Award (2020)** in the area of Human Experimental Addiction Science, Rutgers Center of Alcohol & Substance Use Studies Annual Poster Session, to Julianne Price
- 14. **Graduation with Honors in Psychology (2019),** Rutgers University New Brunswick, to Urvi Saini.
- 15. **Best Post-doctoral Associate Poster Award (2019)** in the area of Clinical/Human Experimental Addiction Science, Rutgers Center of Alcohol Studies Annual Student Poster Session, April, Piscataway, NJ to Mateo Leganes Fonteneau.
- 16. **Helene R. White Conference Travel Award (2019)** to present at the Annual Meeting of the Research Society on Alcoholism to Sarah Grace Helton.
- 17. **Best Graduate Student Poster Award (2019)** in the area of Clinical/Human Experimental Addiction Science, Rutgers Center of Alcohol Studies Annual Student Poster Session, April, Piscataway, NJ to Sarah Grace Helton.
- 18. F31 AA027147 Award, National Institutes of Health (NIH), National Institute of Alcohol Abuse and Alcoholism (NIAAA) (2018), "Neural and Autonomic Markers of Alcohol Use Behavior Change in Emerging Adulthood: A Prospective Study" to graduate student Laura Lesnewich
- 19. **John A. Carpenter Memorial Award (2018)** for Excellence in Undergraduate Research to Neel Muzumdar
- 20. **Research Society on Alcoholism Student Merit Award (2018)** for the 41th Annual Research Society on Alcoholism Scientific Meeting, supported by the National Institute of Alcohol Abuse and Alcoholism (NIAAA), San Diego, CA, to Laura Lesnewich.
- 21. **Best Undergraduate Student Poster Award (2018)** in the area of Clinical/Human Experimental Addiction Science, Rutgers Center of Alcohol Studies Annual Student Poster Session, April, Piscataway, NJ to Rutu Patel.

- 22. **Best Graduate Student Poster Award (2018)** in the area of Clinical/Human Experimental Addiction Science, Rutgers Center of Alcohol Studies Annual Student Poster Session, April, Piscataway, NJ to Sarah Grace Helton.
- 23. **NIAAA Travel Award (2016)** to attend the 12th Annual Mechanisms of Behavior Change Satellite Meeting of the 39th Annual Research Society on Alcoholism Scientific Meeting, New Orleans, LA, to graduate student Laura (Banu) Lesnewich.
- 24. **NIDA Women & Gender Junior Investigator Travel Award (2016)** to the 78th Annual Meeting of the College on Problems of Drug Dependence, Palm Springs, CA to Graduate student Deena Peyser.
- 25. University of Washington Undergraduate Research Travel Award (2016) to support participation in The Association for Applied Psychophysiology and Biofeedback Conference, Seattle, WA for research conducted as a summer intern at Rutgers Cardiac Neuroscience Laboratory to Michael Vaschillo.
- 26. **Best Poster Award (2016)** in the area of Clinical/Human Experimental Addiction Science, Rutgers Center of Alcohol Studies Annual Student Poster Session, April, Piscataway, NJ to Graduate student Deena Peyser.
- 27. Leon H. Greenberg Memorial Award (2015) for Excellence in Graduate Studies and Promise as a Scientific Investigator, Center of Alcohol Studies, Rutgers University, to Graduate student David Eddie.
- 28. American Psychological Association of Graduate Students (APAGS 2014 Fall)

 Basic Psychological Science Research Award to Graduate student David Eddie.
- 29. American Psychological Association 2014 Interdivisional Mentoring Award from the Science Directorate to Graduate student David Eddie.
- 30. **NIAAA Travel Award (2014)** to the Second International Congress on Alcoholism and Stress, Volterra, Italy to Graduate student David Eddie.
- 31. Aresty Undergraduate Scholar Research Award (2013) to Richard Wille.
- 32. **Travel Award from the Society of Addiction Psychologists (2013),** Division 50 of the American Psychological Association, to attend the Annual Meeting to David Eddie.
- 33. Cooper Summer Undergraduate Research Fellowship (SURF, 2013) for the research project, "Differential heart rate variability reactivity to negative affect picture cues," to Richard Wille.
- 34. **Research Society on Alcoholism Student Merit Award (2013)** for the 2013 RSA Scientific meeting, supported by the National Institute of Alcohol Abuse and Alcoholism, to David Eddie.
- 35. **John A. Carpenter Memorial Award (2013)** for Excellence in Undergraduate Research to Ryan Holland.
- 36. Foundation for Education and Research in Biofeedback and Related Sciences Scholarship (2013) to David Eddie.
- 37. **Travel Award from the Society of Addiction Psychologists (2012),** Division 50 of the American Psychological Association, to attend the Annual Meeting to David Eddie.
- 38. **NIDA Travel Award (2012)** to attend the Joint Meeting on Adolescent Treatment Effectiveness (JMATE) April 10-12, 2012 in Washington, DC, to David Eddie.
- 39. American Psychological Association (APA) Division 50 Award (2011) supported by NIAAA to present at the 119th annual meeting for the APA, Washington DC, to Graduate student David Eddie.
- 40. **K01 DA029047 Award, NIDA, NIH** (2011) "Cocaine, Appetitive Memory and Neural Connectivity" to Assistant Professor Suchismita Ray.
- 41. **Society for Prevention Research** (2010) Student Award to Graduate student Tomoko Udo

- 42. Cooper Summer Undergraduate Research Fellowship (SURF) (2010) for the research project, "Gender Differences in Heart Rate Variability at the Beginning of Addiction Treatment," to Hareema Mela.
- 43. **Leon H. Greenberg Memorial Award** (2010) for Outstanding Graduate Student, Center of Alcohol Studies, Rutgers University, to Tomoko Udo.
- 44. **K01 AA017473 Award, NIAAA, NIH** (2009) "Polymorphisms, Glutamate and Risk Factors for Alcoholism" to Assistant Professor Jennifer Buckman.
- 45. **Henry Rutgers Scholars Award** (2009) for outstanding independent research to graduating senior Kristen Howell.
- 46. Charles Flaherty Award for Most Outstanding Psychology Student (2009), Rutgers University, to Kristin Howell.
- 47. **Aresty Undergraduate Scholar Travel Award** (2009) to present at the UCLA Undergraduate Research Conference, Los Angeles, CA, to Kristin Howell.
- 48. **Undergraduate Research Spotlight Video Series** (2008) Aresty Research Center and Office of Instructional and Research Technology, Rutgers University to Kristen Howell.
- 49. New Jersey Psychological Association Foundation "Research into Causes and/or Treatment of Social Problems" Dissertation Research Award (2008) to Graduate Student Adam Weissman.
- 50. **Association for Cognitive Behavioral Therapy (ABCT) Student Travel Award**, (2008) for the Annual Meeting, November, to Adam Weissman.
- 51. American Psychological Association (APA) Division 50 Award (2008) supported by NIAAA to present at the 116th annual meeting for the APA, Boston, to Tomoko Udo.
- 52. American Psychological Association (APA) Divisions 50 Award (2008) supported by NIAAA to present at the 116th annual meeting for the APA, Boston, to Kristin Howell.
- 53. **Leon H. Greenberg Memorial Award** for Excellence in Graduate Student Research (2008) to Graduate Student Gianna Locasio.
- 54. **RSA Student Merit Meeting Award** (2008) RSA/ISBRA Joint Meeting, Washington, DC, funded by the National Institute on Alcohol Abuse and Alcoholism, to Tomoko Udo.
- 55. **Aresty Undergraduate Scholar Travel Award** (2008) to present at the Annual Meeting of the American Psychological Association, Boston to Kristin Howell.
- 56. **Aresty Undergraduate Scholar Travel Award** (2008) to present at the Salisbury University Undergraduate Research Conference, CT to Kristin Howell.
- 57. **Junior Investigator Award** (2008) for the 2nd International Conference on Applications of Neuroimaging to Alcoholism (ICANA-2), Yale University, to Suchismita Ray, Ph.D.
- 58. **ECPN Travel Award** (2007) to the 15th Annual Meeting of the Society for Prevention Research to Tomoko Udo.
- 59. **NIDA Women & Gender Junior Investigator Travel Award** (2007) to the 69th Annual Meeting of the College on Problems of Drug Dependence to Tomoko Udo.
- 60. **John A. Carpenter Memorial Award** (2005) for Excellence in Undergraduate Research to Catherine Rha.
- 61. **Bela Julesz Psi Chi Scholarship** (2005) for Undergraduate Research to Catherine Rha.
- 62. Henry Rutgers Research Scholar (2005) to Catharine Rha.
- 63. **George S. Cooke Scholar** (2005) to Lisa Dipuzzo.
- 64. **Summer Research Fellowship** (2005) from the Foundation of UMDNJ and Robert Wood Johnson Medical School to Medical School Student Purvi Patel.
- 65. **Leon H. Greenberg Memorial Award** (2004) for Excellence in Graduate Student Research to Graduate Student Gerald Voelbel.

- 66. **John A. Carpenter Memorial Award** (2004) for Excellence in Undergraduate Research to Nishant Patel.
- 67. **Summer Research Fellowship** (2004) from the Foundation of UMDNJ and Robert Wood Johnson Medical School to Medical School Student Chaityana Desai.
- 68. National Academy of Neuropsychology Outstanding Student Research Award (2003) to Gerald Voelbel.
- 69. **John A. Carpenter Memorial Award** (2003) for Excellence in Undergraduate Research to Chaityana Desai.
- 70. Henry Rutgers Research Scholar (2002) to Chaityana Desai.
- 71. American Psychological Association Clinical Neuropsychology Award (2002) for Excellence in Scientific Presentation to Graduate Student Danielle Barry.
- 72. American Psychological Association Science Directorate Student Research and Travel Award (2001) to Gerald Voelbel.

CONSULTING ACTIVITIES

2005 - Ongoing	NIAAA Consultant: Mechanisms of Behavioral Change Initiative
1994 – 2000	Alcohol and Drug Consultant : Defining research needs for virtual simulations, Immersive Systems, Inc., Millwood, NY.
1984 – 2000	Consultant : Intoxicated Drivers Resource Center, New Jersey Department of Health
1990 - 1992	Coordinator : Continuing Education Seminars, Criminal Justice Alcoholism Coalition of NJ, Continuing Education Program
1982 - 1987	Coordinator : Conference Planning Committee, Alcoholism and Crime 1983; 1985; 1987, The Biannual Meetings of the Criminal Justice Alcoholism Coalition of NJ
1984 - 1985	Cape May County Municipal Court Liaison : Pilot study for the identification of alcohol misuse involved in minor crimes

ADVISORY BOARDS

1984 - 1992	Intoxicated Drivers Resource Center Advisory Committee,
	Division of Alcoholism, NJ Department of Health
1984 - 1992	Alcohol and Crime Advisory Committee, Division of Alcoholism, NJ
	Department of Health

ASSOCIATION MEMBERSHIPS

2018 - Ongoing 2010 - Ongoing 1995 - 2009 1991 - Ongoing 1991 - 2009 1990 - Ongoing 1989 - Ongoing	International Society of Addiction Medicine Association for Psychological Science Association for the Advancement of Behavior Therapy International Neuropsychological Society National Academy of Neuropsychology International Society for Biomedical Research on Alcoholism Research Society on Alcoholism American Psychological Association; Divisions of General (1),
	Experimental (3), Psychopharmacology and Substance Abuse - Fellow (28), Clinical Neuropsychology (40), and Addictions - Fellow (50)
1996 - 2006	New York Academy of Sciences
1995 - 2000	Drug Policy Foundation
1982 - 1992	New Jersey Association on Corrections

GRANT AWARDS

R21 AA029604-02S1 Bates (Alderman MPI) 05/05/23 - 08/31/24 (NCE)

NIH/NIAAA \$10,343

Afferent neurocardiac signals, cue reactivity, and cognitive control

Administrative Supplement to support data curation and transfer to the National Data Archive.

Role PI (MPI: B. Alderman)

F31AA030715 Ude (PI) 04/27/23 - 3/31/25

NIH/NIAAA \$99,925

Alcohol use, physical activity, and neurophysiological indicators of behavioral adaptability

The goals are to examine the effects of binge drinking on the relationship between physical activity and neurophysiological markers of behavioral flexibility and provide training in alcohol research methods.

Role Co-Mentor

R21 AA029604 Bates (Alderman MPI) 07/01/21 - 06/30/24 (NCE)

NIH/NIAAA \$426,343

Afferent neurocardiac signals, cue reactivity, and cognitive control

The goal is to use EEG and ECG to examine the impact of resonance breathing on the attentional and cognitive control processes of binge drinkers exposed to alcohol cues.

Role PI (MPI: B. Alderman)

T32 AA028254 Sarkar (Jones MPI) 09/01/19 - 08/31/24

NIH/NIAAA \$1,447,645

Molecular Neuroscience of Alcohol and Drug Abuse Research Training

The goal is to promote the development of promising postdoctoral research fellows as independent investigators of the pathogenesis of alcoholism and drug abuse

Role Training Faculty, Mentor

F31 AA027147 Lesnewich (PI) 04/01/19 - 3/31/21

NIH/NIAAA \$76,248.

Neural and Autonomic Markers of Alcohol Use Behavior Change in Emerging Adulthood: A Prospective Study

The goals are to examine the predictive value of two neurobiological markers of alcohol use behavior change during emerging adulthood and provide training in longitudinal neurobiological research.

Role Primary Mentor

R34 DA043751 Leyro (PI) 09/15/18 - 08/14/22 (NCE)

NIH/NIDA \$697,500

Development and Pilot Investigation of Heart Rate Variability Biofeedback for Smoking Cessation

The goal is to develop and assess the feasibility and potential effectiveness of a heart rate variability biofeedback treatment adjunct for smokers with elevated emotional distress.

Role Co-investigator.

R01 AA027017 Buckman, Vaschillo (MPI) 07/01/18 – 06/30/23

NIH/NIAAA \$2,438,170

Changes in cardiovascular control mechanisms related to binge drinking during college The goal is to identify quantitative cardiovascular biomarkers of early drinking-related injury.

Role Co-investigator

K23 AA025094 Sanjuan (PI) 06/01/17 - 05/31/22

NIH/NIAAA

Neural Underpinnings of Emotion Regulation and Drinking to Cope among Problem Drinkers Provide training in psychophysiological mechanisms of behavior change

Role: Consultant Mentor

R01 AA023667 Bates (Buckman MPI) 02/20/15-12/31/20

(NCE)

NIH/NIAAA \$2,668,008

Project IMPACT: in-the-moment protection from automatic capture by triggers

This RCT examines a simple behavioral technique to manipulate a neurocardiac mechanism

of change that can be used in everyday life to help resist drinking triggers by modulating automatic-visceral states

Role: PI (Multi-PI: Buckman)

R03DA044496 Ray (PI) 9/1/2017-8/31/2019 (NCE)

NIDA/NIH \$245,924

Title: "Prescription opiate, drug-cue processing network, and neural connectivity"
The goal is to conduct a multi-method assessment of structural and functional brain alterations in persons with prescription opiate dependence compared to controls.

I/START Neuroimaging Transition Award.

Role: Co-Investigator

K24 AA021778 Bates (PI) 09/01/13- 08/31/18

NIH/NIAAA \$834,705

The Baroreflex Mechanism: Translation to AUD Treatment and Prognostic Models Goal: To translate a new model of neurocardiac signaling into behavioral interventions and mentor junior translation scientists.

Role: PI

R21 AA022748 Bates (PI) 02/01/14-01/31/17 (NCE)

NIH/NIAAA \$406,876

fMRI and integrated neurocardiac control of alcohol cue reactivity

Examine the neurocardiac feedback loop during exposure to alcohol cues and test whether a resonance breathing manipulation can diminish neural and cardiovascular reactivity.

Role: PI

K01 AA023233 Pearson (PI, Univ New Mexico) 2014-2018

NIH/NIAAA

Efficacy and Neurobiological Mechanisms of Mobile-Delivered Cognitive Retraining Provide training in translational technology and mechanisms of behavior change

Role: Co-mentor

K01 DA029047 Ray (PI, Rutgers) 04/01/11 to 03/31/16

NIH/NIDA

Cocaine, Appetitive Memory, and Neural Connectivity
Provide training in neurocognitive addiction models

Role: Co-Mentor

R03 DA031060 Bates (PI) 07/01/11-6/30/14 (NCE)

NIH/NIDA \$227,652

Marijuana Cues, Arousal and the Central Autonomic Network

I/START Neuroimaging Transition Award: Neurocardiac assessment in the fMRI environment.

Role: PI

K01 AA017473 Buckman (PI, Rutgers) 07/01/09 to 06/30/14

NIH/NIAAA

Exploring genetic influences on alcohol use using novel statistical methods

Provide resources and collaborative infrastructure to support the candidate's ability to link genetics to rich phenotypic data collected across multiple studies

Role: Consultant Mentor

HHSN275201000003C Bates (PI) 04/09/10 to 07/08/13

NIH/NIAAA & NICHHD \$1,811,560 (Competitive BAA Contract)

Multi-scale Neurophysiological Control Systems of MOBCI (mechanisms of behavior change initiation)

Transdisciplinary project to model integrated systems of cardiovascular control and facial emotion to uncover mechanisms that support or hinder behavior change.

Role: PI

K02 AA00325 Bates (PI) 08/01/01- 6/30/13 (NCE)

NIH/NIAAA \$1,284,233

Novel Mechanisms of Behavior Change in Alcoholism Treatment

To gain expertise in methods that promote translation between basic and clinical addiction science in order to characterize novel mechanisms of self-regulation, and to train early career investigators.

Role: PI

R13 AA017107 Buckman (PI) 06/01/10 to 05/31/13

NIH, NIAAA \$180,467

118th, 119th and 120th Conventions of the American Psychological Association
To bring together addiction psychologists and those who work outside the area of alcohol studies to promote training/interactions for early career psychologists.

Role: Co-Investigator

R01AA015248 Bates (PI) 07/01/04 - 06/30/10 (NCE)

NIH/NIAAA \$1,474,089

Alcohol, memory and affective regulation

Examine alcohol and placebo effects on heart rate reactivity to, and memory for, emotional and appetitive cues, and to explore vulnerability related to familial alcoholism.

Role: PI

ARRA Administrative Supplement Bates (PI) 9/1/2009 - 6/30/2010

NIH/NIAAA \$118,864

Alcohol, memory and affective regulation

The goal of this supplement was assess beat-to-beat blood pressure to further characterize the baroreflex mechanism underlying response to emotional and appetitive visual cues.

Role: PI

P20 DA017552 Pandina (Center PI) 09/30/03 - 09/29/09 (NCE)

Drug abuse prevention during developmental transitions

NIH/NIDA \$5,885,920

Basic Research Component 3 Bates (Component 3 PI) 09/30/03 – 09/29/09 (NCE) *Memory processes, emotional regulation, and developmental stage of drug exposure* \$1,269,649

The center goal was to integrate basic science and field-based prevention research. Component 3 was to develop the Cognitive (now Cardiac) Neuroscience Laboratory at Rutgers CAS to provide an infrastructure for the study of how memory, learning, and modulation of emotional response contribute to the behavioral regulation.

Role: PI Study Component 3

R13 AA017107 Buckman (PI) 06/01/07 - 05/31/10

Legacy of Learning in Alcohol Research

NIH/NIAAA \$100,067

Support for senior and early career addiction psychologists to establish research liaisons at three Annual Meetings of the American Psychological Association.

Role: Co-Investigator

U13 AA017798 Morgenstern (PI) 2008-2009

Transdisciplinary Approaches to Understanding Mechanisms of Behavior Change in Alcohol: Facilitating Research Across Disciplines and Institutions.

NIH/NIAAA \$40,000

The goal of this conference grant was to foster mechanisms of change research across the areas of decision making, neurophysiology, and addiction treatment.

Role: Co-PI

APA Interdivisional GrantBates (PI) 01/01/05 to 01/01/06

Promoting Effective Treatment for Men and Women with Substance Use Disorders and Cognitive Impairment

American Psychological Association \$1,500

As President of APA Division 50, to bring together leaders from Divisions 22, 28, and 40 to promote transdisciplinary approaches to cognitive impairment in co-occurring disorders

Role: PI

T32 AA07569 McCrady/Epstein (PI) 07/01/95 - 8/31/09

NIH/NIAAA \$ 2,517,536

Rutgers Advanced Training Program in Clinical Research

The major goal of this project is to train clinical psychologists for two types of roles - as clinical addiction researchers and practicing clinical psychologists.

Role: Core Faculty

K23 AA016544 Thoma (PI, Univ New Mexico) 09/01/06 - 06/30/11

NIH/NIAAA

Brain and Behavioral Impairment in Alcohol Dependence and Schizophrenia Training to characterize neuropsychological impairment and brain damage in co-morbid alcohol dependence and schizophrenia.

Role: Co-mentor

F31 AA017022 Wetherill (PI, Univ Texas-Austin) 06/08 – 07/10

NIH/NIAAA

The etiology of fragmentary blackouts: Memory processes and neural activations
This predoctoral research award is to study the neural and behavioral manifestations of
alcohol-related memory loss

Role: Consultant Mentor

K23 AA014664

Grohman (PI, SUNY-Buffalo)

09/15/04 - 08/31/09

NIH/NIAAA

Neurocognitive Rehabilitation in Alcohol Treatment

The effects of computer assisted cognitive rehabilitation on treatment response and outcome in alcohol dependent participants.

Role: Consultant Mentor

R01 AA011594 Bates (PI) 09/01/97 - 04/31/05

NIH/NIAAA \$942,834

Neurocognitive Impairment and Alcohol Use Disorders.

Mediation and moderation models of neurocognitive vulnerability; longitudinal trajectories of neurocognitive impairment and recovery following treatment

Role: PI

State of NJ Research Award Bates (PI) 08/01/01- 07/31/03

Governor's Council on Autism \$137,000 Subtyping in Autism/PDD Spectrum Disorders

Structural neuroimaging of children with autism spectrum disorders to understand brain

changes Role: PI

Research Award Bates (PI) 8/1/01 to 7/31/03

Stanley Foundation \$50,000

Neurological and Neuropsychological Concomitants of Bipolar Disorder in Youth

Structural neuroimaging of children with bipolar disorders to understand brain changes

Role: PI

Reinvest in Rutgers Phase III Program Bates (PI) 2003

Rutgers \$18,500

To provide psychophysiological equipment for the Cognitive Neuroscience Laboratory.

Role: PI

Research Award Bly (PI) 06/01/01 - 05/31/02

Alcoholic Beverage Medical Research Foundation \$40,000

Alcohol's Dissociation of Implicit and Explicit Memory Processes: Behavioral and Functional Neuroimaging Studies.

Understand the effects of acute alcohol intoxication on controlled and automatic memory processes.

Role: Co-Investigator

Reinvest in Rutgers Phase III Program Bates (PI) 2000

Rutgers \$18,500

To facilitate development of a multi-disciplinary Cognitive Neuroscience laboratory and

training program

Role: PI

R01 DA03395 Pandina (PI) 09/01/97 to0 8/31/01

NIH/NIDA \$1,260,238

Trajectories of drug use: Predictors and adult outcomes.

Understand the development of alcohol and drug use behavior from adolescence to

adulthood

Role: Co-Investigator

R01 AA011699 Johnson (PI) 09/01/97 to 08/31/99

NIH/NIAAA \$117,943

Familial transmission of alcohol and related problems.

Better understand family history effects on neurocognition in adolescence and young adulthood

Role: Co-Investigator

R01 DA03395 Pandina (PI) 09/01/91 to 08/31/97

NIH/NIDA \$2,307,485 Vulnerability to the consequences of drug use in adulthood.

Understand the development of alcohol and drug use behavior from adolescence to

adulthood

Role: Co-Investigator

P50 AA008747 McCrady (Center PI) 01/91 to 12/95

NIH/NIAAA \$7,149,977 Alcohol Treatment: Integrating basic and applied research

Study Component 7 Bates (Component 7 PI)

\$132,302

Neuropsychological functioning and pattern of recovery over time as predictors of treatment outcome.

Role: PI Study Component 7

Research Award Bates (PI) 08/31/91 to 07/31/92

Alcoholic Beverage Medical Research Foundation \$35,000

The link between moderate alcohol use and cognitive efficacy: A cognitive-experimental approach.

Role: PI

R01 DA03395 Pandina (PI) 08/01/89 to 07/31/91

NIH/NIDA \$340,779 *Marijuana use and consequences: A developmental study.*

Role: Co-Investigator

Research Award Bates (PI) 08/01/89 to 07/31/90

Alcoholic Beverage Medical Research Foundation \$20,805

Academic involvement, alcohol use and subsequent cognitive functioning: A longitudinal

study.

Role: PI

Research Award Bates (PI) 08/31/89 to 08/30/91

Smithers Prevention Endowment \$11,602

The link between moderate alcohol use and cognitive efficacy: A cognitive-experimental

approach.
Role: PI

Equipment Award Bates (PI) 8/31/89

Smithers Prevention Endowment \$6,953

An Intoxilyzer to estimate blood alcohol concentration from breath

Role: PI

PEER REVIEWED JOURNAL ARTICLES, CHAPTERS, AND BOOKS (*Research Mentees)

- **Bates, M. E.**, Eddie, D., Lehrer, P. M., Nolan, R., Siepmann, M., eds. (*e*-book, 2023). *Integrated cardiovascular and neural system processes as potential mechanisms of behavior change*. Lausanne: Frontiers Media SA. doi: 10.3389/978-2-83252-140-3
- **Bates, M.E.,** Eddie, D., Lehrer, P.M., Nolan, R. & Siepmann, M. (2023). Editorial: Integrated cardiovascular and neural system processes as potential mechanisms of behavior change. *Frontiers in Psychiatry* 14:1175691. doi: 10.3389/fpsyt.2023.1175691
- Price, J.L., **Bates M.E.,** Pawlak, A.P., *Uhouse, S.G., *Todaro, S.M., *Morgano, J. & Buckman, J.F. (2022). Use and perceived usefulness of a just-in-time resonance breathing intervention adjunct for substance use disorder: Contextual and physiological predictors. *Frontiers in Psychiatry.* 13:94575.
- **Bates, M.E.,** *Price, J., Leganes-Fonteneau, M., *Muzumdar, N., *Piersol, K., *Frazier, I. & Buckman, J.F. (2022). The process of heart rate variability, resonance at 0.1 Hz, and the three baroreflex loops: A tribute to Evgeny Vaschillo. *Applied Psychophysiology and Biofeedback, 10,* 1-14. PMCID: PMC9088144
- *Lesnewich, L.M., Pawlak, A., Gohel, S. & **Bates, M.E**. (2022). Functional connectivity in the central executive network predicts changes in binge drinking behavior during emerging adulthood: An observational prospective study. *Addiction, 117*, 1899-1907.
- *Price, J.L., **Bates, M.E.**, Morgano, J., *Todaro, S., *Uhouse, S.G., Vaschillo, E., Vaschillo, B., Pawlak, A.P., Buckman, J.F. (2022). Effects of Arousal Modulation via Resonance Breathing on Craving and Affect in Women with Substance Use Disorder. *Addictive Behaviors*, 127, 107207. PMCID: PMC9069782
- Leganes-Fonteneau, M., **Bates, M.E.**, Islam, S. & Buckman, J.F. (2022). Changes in interoception after alcohol administration correlate with expectancies and subjective effect. *Addiction Biology*, 27, e13098.
- **Bates, M.E.,** *Price, J. & Buckman, J.F. (2022). Neuropsychological and biological influences on drinking behavior change, In *Pathways to Recovery from Alcohol Use Disorder: Meaning and Methods* (Editors: J.A.Tucker & K. Witkiewitz), Cambridge University Press, 60-76.
- Eddie, D., **Bates, M.E.** & Buckman, J.F. (2022). Closing the brain-heart loop: Towards more holistic models of addiction and addiction recovery, *Addiction Biology*, 27; e12958. doi: 10.1111/adb.12958. Online ahead of print. PMCID: PMC7878572 (Addiction Biology Top Cited Article 2021-2022)
- *Saalfield, J., *Piersol, K., Esopenko, C., **Bates, M.E.,** Weismiller, S.A., Brostrand, K., *Todaro, S.M., Conway, F., Wilde, E. & Buckman, J.F. (2021). Digital neuropsychological test performance in a large sample of uninjured collegiate athletes. *Applied Neuropsychology: Adult, 25,* 1-7.
- *Leganes-Fonteneau, M., **Bates, M.E.**, *Muzumdar, N., Pawlak, A., *Islam, S., Vaschillo, E., & Buckman, J.F. (2021). The Cardiovascular Mechanisms of Interoceptive Awareness: Effects of Resonance Breathing. *International Journal of Psychophysiology*, 169, 71-87.

- Eddie, D., *Price, J.L., **Bates, M.E.** & Buckman, J.F. (2021). Substance use and addiction affect more than the brain: The promise of neurocardiac interventions. *Current Addiction Reports*, *8*, 431-439. DOI: 10.1007/s40429-021-00379-3
- Leganes-Fonteneau, M., **Bates, M.E**., Vaschillo, E.G., & Buckman, J.F. (2021). An interoceptive basis for alcohol priming effects. *Psychopharmacology, 18,* 1-11, ePub Ahead of Print.
- Leganes-Fonteneau, M., **Bates, M.E.**, Pawlak, A., & Buckman, J.F. (2021). Does alcohol affect emotional face processing via interoceptive pathways. *Drug and Alcohol Dependence*, 226, 108845.
- Leganes-Fonteneau, M., Buckman, J.F., Suzuki, K., Pawlak, A. & **Bates, M.E.** (2021). More than meets the heart: Systolic amplification of different emotional faces is task dependent, *Cognition and Emotion*, *35*, 400-408. DOI: 10.1080/02699931.2020.1832050.
- Leganes-Fonteneau, M., Buckman J.F., Pawlak, A., Vaschillo, B., Vaschillo, E. & **Bates, M.E.** (2020) Interoceptive signaling in alcohol cognitive biases: Role of family history and alliesthetic components, *Addiction Biology*, 26(3):e12952.
- **Bates**, M.E., Mun, E.Y., Buckman, J. F., Vaschillo, E., Vaschillo, B., Lehrer, P., Udo, T, & *Lesnewich, L.M. (2020). Getting to the heart of low sensitivity to alcohol: Context moderates suppressed cardiovascular adaptation to oral alcohol in persons with a family history of alcohol use disorder. *Alcoholism: Clinical and Experimental Research*, 44, 589-599.
- Leganes-Fonteneau, M., Buckman, J.F., Islam, S., Pawlak, A., Vaschillo, B., Vaschillo, E.G., & **Bates**, M.E. (2020, Accepted, Phase I In Principle Acceptance of Registered Report). The cardiovascular mechanisms of interoceptive awareness: Effects of resonance breathing. *International Journal of Psychophysiology*.
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- *Lesnewich, L.M., *Conway, F.N., Buckman, J.F., *Brush, C.J., *Ehmann, P.J., Eddie, D., *Olson, R.L., Alderman, B.L. & **Bates,** M.E. (2019). Associations of depression severity

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INVITED TALKS AND CONFERENCE PRESENTATIONS

- Perdue, H., Ude, A., Sarwani, A., Poole, L., Bates, M.E., Alderman, B.L. (2023, June). *Binge Drinking, Alcohol Craving, and Motivational Salience of Alcohol Cues in the Environment*. Poster presented at the Rutgers Center of Alcohol and Substance Use Studies Symposium, Piscataway, NJ.
- Ude, A. A., Perdue, H, M., Poole, L.G., Sarwani, A.H., Kim, C.D., Bates, M.E., Alderman, B.L. (2023, June), *Influence of alcohol sensitivity on neural alcohol cue reactivity among college-aged binge drinkers: Evidence from P3 and N2 components.* Poster presented at the Research Society on Alcoholism, Bellevue, WA.
- Poole, L.G., Ude, A.A, Sarwani, H.S., Perdue H.M., Kim, C.D., Bates, E.B., Alderman, B.L. (2023). *Influence of co-occurring physical activity and alcohol use behaviors on inhibitory cognitive control.* Poster presented at the American College of Sports Medicine, Denver, CO
- Sarwani, A., Poole, L., Ude, A., Perdue, H., Kim, C., Bates, M.E., Alderman, B.L. (2023). *Neurocardiac Dynamics during a 5-minute Episode of Resonance Paced Breathing*. Poster presented at the Association for Applied Psychophysiology and Biofeedback Annual Conference, Orlando, FL.
- Bates, M.E. (2021, March). Resilience and recovery: Harnessing the body to support the brain in addiction science and everyday life. Invited talk presented virtually to the University of Wisconsin-CTRI Brown Bag Meeting, March 24.
- Bates, M.E. (2021, March). Resonance paced breathing as an adjunctive intervention to promote holistic recovery. In symposium, "Mind-body-brain: Quantifying harm to facilitate recovery (Chairs: J. Price and SJ Nixon). Presented virtually at the Annual meeting of the Society of Addiction Psychology Collaborative Perspectives on Addiction, March 19.
- Lesnewich, L. M., Pawlak, A. P., & Bates, M. E. (2019, August). *Frontoparietal resting-state functional connectivity predicts alcohol use behavior change*. Poster presented at the Annual Meeting of the American Psychological Association, Chicago, IL.
- Lesnewich, L. M., Buckman, J. F., Helton, S. G., Pawlak, A. P., Bates, M. E. (2019, April). Neural and cardiovascular predictors of alcohol use behavior change during emerging

- adulthood. In symposium, "Grant Funded Student Research on Biological Markers of Alcohol, Tobacco, and Other Substance Use" (Chair: Jennifer Buckman). Presentation at the annual meeting of the Society of Addiction Psychology Collaborative Perspectives on Addiction, Providence, RI.
- Patel, R., Lesnewich, L. M., Buckman, J. F., & Bates, M. E. (2019, April). Sleep exercise and perceived stress patterns among marijuana-smoking and alcohol-dependent groups. Poster presented at the annual meeting of the Society of Addiction Psychology Collaborative Perspectives on Addiction, Providence, RI.
- Todaro, S. M., Helton, S. G., Pawlak, A. P., Morgano, J. A., Lesnewich, L. M., Bates, M. E., & Buckman, J. F. (2019, April). *Experiencing medical problems promotes the use of an iPhone app-based breathing intervention*. Poster presented at the annual meeting of the Society of Addiction Psychology Collaborative Perspectives on Addiction, Providence, RI.
- Lesnewich, L. M., Helton, S. G., Gohel, S., Buckman, J. F., & Bates, M. E. (2018, November). Resting-state functional connectivity of three neural networks is related to depression symptom severity, rumination, and emotion dysregulation. Poster presented at the annual meeting of the Association for Behavioral and Cognitive Therapies, Washington, D.C.
- Helton, S. G., Lesnewich, L. M., Gohel, S., Buckman, J. F., & Bates, M. E. (2018, November). *Mindfulness and proposed neural biomarkers of perceived stress in depression: A resting state fMRI study*. Poster presented at the annual meeting of the Association for Behavioral and Cognitive Therapies, Washington, D.C.
- Vaschillo, E., Vaschillo, B., Buckman, JF & Bates, ME (2019, February). *New approach for brain stimulation*. Presented at the 3rd International Brain Stimulation Conference. Vancouver Canada, Feb 24-27.
- Bates, ME, Buckman, JF, Vaschillo E & the Cardiac Neuroscience Laboratory (2018, November). *Paced breathing as a neuroscience-informed intervention for addiction medicine and Health: Individualized, yet broadly accessible.* Invited presentation at the Neurointervention2 Symposium: International Collaborative Network on Neuroscience-informed Non-Pharmacologic Interventions for Addiction Medicine: From Shared Protocols to Multi National Clinical Trials, Annual Meeting of the International Society for Addiction Medicine, Busan, S Korea.
- Lesnewich, L., Ray, S., Helton, SG, Gohel, S., Buckman, JF & Bates, ME. (2018, June). Central executive network functional connectivity is associated with alcohol use behaviors in emerging adulthood. Presented in the Symposium: Neural Correlates of Executive Functioning in Heavy-Drinking Adolescents and Young Adults: Findings Across Neuroimaging and Recording Studies" (Chairs: A. Cservenka and T. Brumback) at the Annual Meeting of the Research Society on Alcoholism, San Diego, CA.
- Menon, V., Tschoe, J., Todaro, S., Lesnewich, L.M., Buckman, J.F. & Bates, M.E. The effect of recent marijuana use on alcohol use behavior (2018, May). Presented at Rutgers Center of Alcohol Studies 5th Annual Student Poster Session, New Brunswick, NJ.
- Tandra, R., Patel, M., Lesnewich, L.M., Buckman, J.F., Vaschillo, B., Vaschillo, E. & Bates, M.E. The effect of visual alcohol cues and paced breathing on heart rate variability and baroreflex sensitivity during acute alcohol consumption (2018, May). Presented at Rutgers Center of Alcohol Studies 5th Annual Student Poster Session, New Brunswick, NJ.

- Muzumdar, N., Vaschillo, E., Vaschillo, B., Buckman, J.F. & Bates, M.E. Comprehensive evaluation of baroreflex activity (2018, May). Poster presented at Rutgers Center of Alcohol Studies 5th Annual Student Poster Session, New Brunswick, NJ.
- Patel, R., Lesnewich, L.M., Buckman, J.F. & Bates, M.E. Sleep, exercise, and perceived stress patterns among marijuana-smoking and alcohol-dependent groups (2018, May). Presented at Rutgers Center of Alcohol Studies 5th Annual Student Poster Session, New Brunswick, NJ.
- Helton, S.G., Lesnewich, L.M., Gohel, S., Buckman, J.F. & Bates, M.E. Functional neural connectivity as an emerging quantitative phenotype in individuals with AUD (2018, March). Presented at the Annual Meeting of the Collaborative Perspectives on Addiction, Tampa, FL, and at Rutgers Center of Alcohol Studies 5th Annual Student Poster Session, New Brunswick, NJ.
- Todaro, S., Morgano, J., Conway, F., Buckman, J.F. & Bates, M.E. Triggers for substance use influence use of an iPhone app intervention (2018, May). Presented at Rutgers Center of Alcohol Studies 5th Annual Student Poster Session, New Brunswick, NJ.
- Bates, ME (2018, March). Recovery from addiction: Harnessing the body to support the brain. Invited Grand Rounds Presentation, Yale University Department of Psychiatry. New Haven, CT, March 23.
- Bates, ME, Buckman, JF, Banu, L. & Helton SG (2017, December). *Paced breathing changes neural reactivity to alcohol cues.* Invited Presentation in the Symposium, Tracking and Manipulating Drug-Cue Reactivity: An Interventional Target for Relapse Prevention in Substance Use Disorders (Chairs: R. Goldstein & M. Parvaz) at the 56th Annual Meeting of the American College of Neuropsychopharmacology, Palm Springs, CA.
- Bates, ME, Buckman, JF & the Cardiac Neuroscience Laboratory (2017, June). *Mechanisms of Behavior Change: The translational value of psychophysiology methods.* Invited talk in the symposium "New Findings in the Study of Mechanisms of Behavior Change (MOBC), presented at the 13th Annual Pre-Conference Satellite Meeting of the Research Society on Alcoholism, Denver, CO.
- Bates, ME (2017, May). Exploring Heterogeneity in the Stress-Alcohol Diathesis Across the Lifespan, Symposium Discussant. Fourth International Congress on Alcoholism and Stress, Volterra, Italy, May 9th.
- Bates, ME (2017, May). Exploring Heterogeneity in the Stress-Alcohol Diathesis Across the Lifespan (Chair: SJ Nixon), Symposium Disscusant. Fourth International Congress on Alcoholism and Stress, Volterra, Italy, May 9th.
- Eddie, D., Alayan, N., Conway, F. & Bates, M. (2017, May). Anxiety, depression and stress in a high risk college environment: Improving HRV and neurocardiac signaling to prevent relapse, presented in the symposium, Exploring Heterogeneity in the Stress-Alcohol Diathesis Across the Lifespan (Chair: SJ Nixon) at the Fourth International Congress on Alcoholism and Stress, Volterra, Italy, May 9th.
- Eddie, D., Alayan, N., Conway, F., & Bates, M.E. (2017, March). Improving affect and mitigating relapse risk in a high-risk environment using heart rate variability biofeedback. Presentation in the symposium "The "future's so bright"? Recent trends in technology-

- enhanced addiction recovery management" at the American Psychological Association, Society of Addiction Psychology, Collaborative Perspectives on Addiction Conference, Albuquerque, NM.
- Bates, M.E., & Eddie, D. (2017, March). Heart rate variability biofeedback as an adjunct intervention for relapse prevention. Presentation in the symposium "Heart rate variability as a dynamic, real-time indicator of active brain and behavior mechanisms" at the American Psychological Association, Society of Addiction Psychology, Collaborative Perspectives on Addiction Conference, Albuquerque, NM
- Banu, L. M., Peyser, D., Helton, S. G., Ray, S., Buckman, J. F., & Bates, M. E. (2017, March). *Paced breathing changes neural reactivity to alcohol cues: An fMRI study.* Presented at the annual meeting of the Society of Addiction Psychology Collaborative Perspectives on Addiction, Albuquerque, NM.
- Helton, S. G., Banu, L. M., Peyser, D., Buckman, J. F., Bates, M. E. (2017, June). *Acute craving response to alcohol cues in fMRI environment.* Poster presented at the Annual Meeting of the Research Society on Alcoholism, Denver, CO.
- Helton, S.G., Banu, L.M., Peyser, D., Buckman, J.F., & Bates, M.E. (2017, May). *Inthe-Moment Craving to Alcohol Cues in an fMRI Environment.* Poster presented at the Robert Wood Johnson Medical School Annual Cardiology Day, New Brunswick, NJ.
- Ray, S., Bates, M. E., Haney, M., Srinagesh, A., & Aya, A. (2017, June). *An fMRI study to examine recognition memory for cocaine picture stimuli in cocaine smokers.*Presented at the 79th annual meeting of the College on Problems of Drug Dependence (CPDD), June 17-22, Montreal, Canada.
- Vaschillo, E.G., Vaschillo, B., Buckman, J.F., Singh, G., and Bates, M.E. (2017, May). *Evaluation of arterial elasticity through heart rate variability*. Presented at the 18th Annual Meeting at the Department of Psychiatry, Rutgers Poster Session. Piscataway, NJ. May 4.
- Peyser, D., Buckman, J.F., & Bates, M.E. (2016, October). *Social networks that matter: A person-centered approach to understanding social networks and alcohol use treatment outcomes*. Poster presented at the 50th Annual Convention of the Association for Behavioral and Cognitive Therapies (ABCT), New York, NY.
- Banu, L. M., Buckman, J. F., Ray, S., & Bates, M. E. (2016, June). *Greater BOLD reactivity to personalized alcohol cues in non-treatment-seeking individuals with an alcohol use disorder*. Poster presented at the annual meeting of the Research Society on Alcoholism, New Orleans, LA.
- Banu, L. M., Buckman, J. F., Olson, R. L., Brush, C. J., Eddie, D., Peyser, D., Bates, M. E., Shors, T., & Alderman, B. L. (2016, March). *Relationships between alcohol use, depression, and neurocardiac functioning*. Poster presented at the annual meeting of the Society of Addiction Psychology Collaborative Perspectives on Addiction, San Diego, CA.
- Bechtholt, A., Suffoletto, B., Hester, R.K., Bates, M.E., Jung, K., Bates, ME, Eddie, D. (2016, August) *Interactive alcohol research and clinical practice mobile technology for every occasion*. NIAAA invited symposium, APA Conference, Denver, CO
- Peyser, D., Buckman, J. F., Banu, L. M., & Bates, M. E. (2016, June). Do as I say, not as I do: A unique social support network among women, but not men seeking treatment

- for alcohol and drug use disorders. In symposium, "The Social Network" (Chairs: Warren K Bikel and Deena Peyser). Presentation at the annual meeting of The College on Problems of Drug Dependence, Palm Springs, CA.
- Bates, M.E. & Buckman, J. F. (May, 2016). *Test of an innovative behavioral manipulation of neurocardiac signaling as an intervention to modulate alcohol cue reactivity.* Invited address at the Science of Change Meeting, held in conjunction with the Annual Meeting of the Society of Biological Psychiatry, Atlanta, Georgia.
- Vaschillo, E.G., Vaschillo, B., Buckman, J.F., Singh, G. & Bates, M.E. (Sept, 2016). Sensitive characteristics of the heart rate variability. Poster presented at 56th Annual Scientific Meeting of the Society for Psychophysiological Research (SPR), Minneapolis, MN.
- Vaschillo, E.G., Vaschillo, B., Buckman, J.F., Singh, G. & Bates, M.E. (2016, April)._A heart rate variability parameter as a bio-marker of cardiovascular dysregulation associated with binge drinking. Poster presented at the 17th Annual Poster Session of the Department of Psychiatry, Robert Wood Johnson Medical School, New Brunswick NJ.
- Vaschillo, M., Patel, R., Buckman, J.F. & Bates, M.E. (2016, May). *Investigation of Heart Rate Variability Biofeedback Mechanisms*. Poster presented at University of Washington 19th Annual Undergraduate Research Symposium, Seattle, WA.
- Vaschillo, M., Patel, R., Buckman, J.F. & Bates, M.E. (2016, March). *Heart Rate Variability Biofeedback Benefits are Associated with Baroreflex Gain.* Paper presented at the Annual Meeting of the Association for Applied Psychophysiology and Biofeedback, Seattle, WA.
- Bates, M.E. (2016, February). *Neuroscience at the Rutgers Center of Alcohol Studies*. Invited presentation at the Rutgers Brain Health Institute, Piscataway, NJ.
- Bates, M.E. & Buckman, J.F. (2016, February). Cognitive remediation and different trajectories of cognitive recovery in persons with alcohol use disorders. Paper presented in the symposium "Neuropsychology and neuroimaging in alcohol use disorders: A better understanding for a better treatment" (Chair: E. Sullivan) at the 44th Annual Meeting of the International Neuropsychology Society, Boston, MA.
- Eddie, D., Bates, M. E., Vaschillo, E. G., Retkwa, M., Miuccio, M., & Lehrer, P. (2016) Borderline Personality Disorder and Autonomic Dysregulation. Symposium presentation, Association for Applied Psychophysiology and Biofeedback annual meeting, Seattle, WA
- Peyser, D., Heiss, S., Buckman, J.F., & Bates, M.E. (2015, May). *Comorbid psychopathology in individuals with substance use disorders is associated with quality of social support*. Poster presented at the 2nd Annual Center of Alcohol Studies Poster Session, Piscataway, NJ.
- Vaschillo, E., Vaschillo, B., Buckman, J. F., Heiss, S., Francisco, R., & Bates, M. E. (2015). *Early cardiovascular dysregulation in young healthy binge drinkers*. Poster presented at Rutgers University Center of Alcohol Studies Student Poster Session, Piscataway, NJ.
- Bates, M.E., Barnes, P., Buckman J.F, Banu, L.M., Heiss, S. & Peyser, D. (2015, May). *Importance of using matched cues in studies of drug cue reactivity: An fMRI BOLD study.* Poster presented at the 27th Annual Convention of the Association for Psychological

- Science, New York, NY.
- Banu, L.M., Peyser, D., Buckman, J.F., Vaschillo, B., Vaschillo, E., & Bates, M.E. (2015, March). Lower HRV during college predicts risky alcohol use after graduation: A longitudinal study. Paper presented at the 3rd Annual meeting of Collaborative Perspectives on Addiction, Baltimore, MD.
- Banu, L. B, Buckman, J. F., Puhalla, A., Hanson, C., Hanson, S., Barnas, P., Ray, S., Heiss, S., & Bates, M.E. (2015). *Marijuana cue reactivity in heavy marijuana users and controls: An fMRI study*. Poster presented at the 3rd Annual Collaborative Perspectives on Addiction Conference, Baltimore, MD
- Bates, M.E. (2015). Using cognitive science to improve behavioral treatment for persons with substance use disorders. Symposium organized for the Inaugural International Convention of Psychological Science, March, Amsterdam, Netherlands.
- Bates, M.E., Buckman, J.F., Vaschillo, E., Vaschillo, B. & Eddie, D. (2015). *A transdisciplinary approach to the study of integrated cognitive and physiological processes.* Paper presented at the symposium "Using cognitive science to improve behavioral treatment for persons with substance use disorders" at the Inaugural International Convention of Psychological Science, March 13, Amsterdam, Netherlands.
- Bates, M.E., Rothschild, L.F., Conway, F., Monaco, R., Ray, A.E., Barnas P., Hoge, L. & Buckman, J.F. (2015). *Identifying risk for eating disorders in student athletes entering college*. Paper presented at the International Conference on Behavioral Addictions, March 17, Budapest, Hungary.
- Buckman, J.F., Puhalla, A., Ray, S., Hanson, S., Hanson, C., Peyser, D., Deo, P., Banu, L., Barnas, P., Heiss, S., & Bates, M.E. (2014). *Collecting high-quality ECG data within the fMRI environment: Physiologic and neural reactions to a high-load respiratory task*. Poster presented at the 44th Annual Meeting of the Society for Neuroscience, November, Washington, DC.
- Bates, M.E. (2014). The I/START R03: An innovative grant mechanism from the NIH National Institute on Drug Abuse. Invited address in the symposium "Funding Research through Clinical Practice and Underutilized NIH Grant Mechanisms" (M.T. Tull, Organizer) presented at the 48th Annual Meeting of the Association for Behavioral and Cognitive Therapies, Philadelphia, PA, Nov 22.
- Peyser, D., Buckman, J.F., Heiss, S. & Bates, M.E. Life satisfaction after substance use treatment may be linked to quality of social support (2014, November). Poster presented at 48th Annual Meeting of the Association for Behavioral and Cognitive Therapies 48th, Philadelphia, PA.
- Eddie, D., Kim, C., Lehrer, P., Deneke, E., & Bates, M.E. (2014). *Heart rate variability biofeedback to reduce craving during treatment for substance use disorders*. Invited paper presented at the Annual Meeting of the International Society for the Advancement of Respiratory Psychophysiology Conference, New Brunswick, NJ, Sept. 20.
- Vaschillo, E., Biswal, B., Buckman, J.F., Peyser, D., Heiss, S., Barnas, P., Banu, L., Puhalla, A., Vaschillo, B., Eddie, D., Ray, S., Hanson, S., Hanson, C., & Bates, M.E. (2014, September). *Resonance breathing affects hemodynamic oscillations in the brain at 0.1 Hz.* Paper presented at the Annual Meeting of the International Society for the Advancement of

- Respiratory Psychophysiology Conference, New Brunswick, NJ, Sept. 20.
- Vaschillo, E., Vaschillo., B., Buckman, J., Heiss, S., & Bates., M. (2014). Sigh to restore respiratory variability: Proposed mechanism. Presented at International Society for the Advancement of Respiration Psychophysiology, New Brunswick, NJ.
- Puhalla, A., Buckman, J.F., Ray, S., Hanson, S., Hanson, C., Peyser, D., Deo, P., Banu, L., Barnas, P., Heiss, S., & Bates, M.E. (2014, June). *Simultaneous high quality recording of ECG and fMRI data: Neural and Physiologic reactions to a high load respiratory task*. Poster presented at the Rutgers Neuroscience Symposium, Piscataway, NJ.
- Eddie, D., Kim, C., Lehrer, P., Deneke, E., & Bates, M.E. (2014) *Heart rate variability biofeedback to reduce craving during treatment for substance use disorders*. Paper presented at the Annual Meeting of the American Psychological Association, Washington, DC.
- Alderman, B.L., Olsen, R.L., Selby, E.A., Bates, M.E., Buckman, J.F., Shors, T.J. (2014). *Rumination in major depressive disorder is associated with impairments in ERP correlates of inhibitory cognitive control*. Paper presented at the Society for Psychophysiological Research, July, Atlanta, GA.
- Bates, M.E. (2014). The Baroreflex as a Novel Mechanism of Behavior Charge. Invited talk presented at the 9th Annual Pre-Conference Satellite of the Research Society on Alcoholism on: Mechanisms of Change in Behavioral Treatment: Today and Tomorrow, Seattle, WA, June 21.
- Bates, M.E. (2014). Discussant for the symposium *From Lab to Clinic: Translational Approaches to the Treatment of Addiction* presented at the 26th Annual Meeting of the American Psychological Society, San Francisco, CA, May 25.
- Bates, M.E., Buckman, J., Vaschillo, B., Vaschillo, E., Epstein, E., Eddie, D. (2014). Alcohol, stress resilience, and neurocardiac signaling: Gender differences and implications for addiction treatment. Paper presented in the symposium "Exploring stress as a multisystem, multi-dimensional response: Sex specificity and treatment implications" at the second international congress on Alcoholism and Stress: A Framework for Future Treatment Strategies, Volterra, Italy, May 7.
- Eddie, D., Bates, M.E., Buckman, J.F., Voelbel, G.T., & Freeman, J. (2014) *The mean and the individual: A person-centered approach to neuropsychological recovery in men and women with substance use disorders*. Poster presented at the second international congress on Alcoholism and Stress: A Framework for Future Treatment Strategies, Volterra, Italy, May 8.
- Bates, M.E., Alderman, B., Eddie, D., Shors, T.J., & Selby, E. (2014) *Bringing neuroscience into addiction treatment through behavioral interventions.* Symposium presentation given at the APA, Collaborative Perspectives on Addiction Conference, Atlanta, GA.
- Heiss, S., Vaschillo, E., G., Vaschillo, B., Buckman, J. F., Puhalla, A., & Bates, M. E. (2014). Sigh as a trigger for the baroreflex. Poster presented at the Inaugural Annual Center of Alcohol Studies Poster Session, Piscataway, NJ.

- Garcia, A., Vaschillo, E., Eddie, D., Peyser, D., Buckman, J.F., & Bates, M.E. (2014) Acute alcohol disrupts neurocardiac processes that support cognitive-emotional flexibility in healthy young adults. Poster presented at the APA, Collaborative Perspectives on Addiction Conference, Atlanta, GA.
- Bates M.E., Buckman, J.F., Voelbel, G., Eddie, D., & Freeman, J. (2013) *Taking a person-centered approach to neuropsychological recovery in men and women with substance use disorders*. Poster presented at Sixth Pioneers in Endocrinology Workshop, Rutgers University, New Brunswick, NJ.
- Eddie, D., Bates, M.E., Epstein, E., Vaschillo, B., & Vaschillo, E. (2013) *Heart Rate Variability and Cluster-B Personality Disorder Symptomology in Women Receiving Treatment for Alcohol Dependence*. Poster presented at Sixth Pioneers in Endocrinology Workshop, Rutgers University, New Brunswick, NJ.
- Udo, T., Buckman, J.F., Vaschillo, E., Vaschillo, B., & Bates, M.E. (2013). *Does weight status moderate risk for alcohol use disorders in college drinkers*. Poster presented at the 36th Annual Meeting of the Research Society on Alcoholism, Orlando, FL.
- Nguyen, T.T., Buckman, J.F., Ray, S., & Bates, M.E. (2013). *Alcohol intoxication does not interrupt emotional facilitation of explicit or implicit memory*. Poster presented at the 36th Annual Meeting of the Research Society on Alcoholism, Orlando, FL.
- Bates, M.E. & Eddie, D. (2013). *Heart rate variability Biofeedback: What is it? How can it be used clinically.* Invited presentation to Clinical Group Supervision at the Center for Great Expectations Residential and Outpatient Treatment, October 11, Somerset, NJ.
- Bates, M.E., Epstein, E.E., Vaschillo, B., Vaschillo, E., Buckman, J. Eddie, D., & Nguyen, T. (2013). *Reductions in drinking parallel increases in baroreflex sensitivity following cognitive behavioral therapy*. Paper presented in the symposium "Getting to the Heart of Addiction Neuroscience: Heart Rate Variability and Behavioral Flexibility, (M. Bates, Organizer and Chair) at the 121st Annual Meeting of the American Psychological Association, July 31, Honolulu, HI.
- Eddie, D., Bates, M.E., Epstein, E., Vaschillo, B., & Vaschillo, E. (2013) *Heart Rate Variability, Negative Affect, and Personality Disorder Symptomology in Women Entering Treatment for Alcohol Dependence Extension of Previous Findings*. Poster presented at the 121st Annual Meeting of the APA, Late-Breaking Poster Session, Honolulu, HI.
- Eddie, D., Bates, M.E., Epstein, E., Vaschillo, B., & Vaschillo, E. (2013) *Heart Rate Variability and Anxiety in Women Receiving Treatment for Alcohol Dependence*. Poster presented at the 121st Annual Meeting of the APA, APAGS Poster Session, Honolulu, HI.
- Shors, T.J., Olson, R.L., Selby, E.A., Kranzler, A., Panza, E., Anderson, M., Loiselle, R., Tammineedi, P., Eddie, D., Bates, M.E., & Alderman, B.L. (2013) *Mind Does Matter: Using Mental and Physical Skill (MAP) Training to Enhance Brain Health and Human Happiness,* Mind Life Institute Summer Research Institute, Garrison, NY.
- Eddie, E., Bates, M.E., Epstein, E., Vaschillo, B., & Vaschillo, E. (2013) *Heart Rate Variability, Negative Affect, and Personality Disorder Symptomology in Women Entering Treatment for Alcohol Dependence*. Poster presented at the Inaugural Collaborative Perspectives on Addiction Conference, APA, Divisions 28/50, Atlanta, GA.

- Bates, M.E., Morgenstern, J., Zucker, R., & Eddie, D. (2013) *Biobehavioral Perspectives on Mechanisms of Behavior Change: Brain, body, mind, and context.*Symposium at the Inaugural Collaborative Perspectives on Addiction Conference, APA, Divisions 28/50, Atlanta, GA.
- Eddie, D., Bates, M.E., Epstein, E., Vaschillo, B., & Vaschillo, E. (2013) *Heart Rate Variability and Cluster-B Personality Disorder Symptomology in Women Receiving Treatment for Alcohol Dependence*. Poster presented at the Annual Meeting of the Research Society on Alcoholism, Orlando, FL.
- Vaschillo, E.G., Vaschillo, B., Buckman, J.F., Nguyen, T., Puhalla, A., Wille, R., & Bates, M.E. (2013). *Reaction of Cardiovascular Functions to Rhythmical Stimulation in the Very Low Frequency Range (0.01 0.05 Hz)*. Presented at the 53rd Annual Scientific Meeting of the Society for Psychophysiological Research (SPR). Florence, Italy, Oct 4.
- Lehrer, P., Buckman, J., Vaschillo, E., Vaschillo, B., Udo, T., Bates, M., & Mun, E.Y. (2012). *Dysfunctional breathing predicts negative emotion and substance abuse problems*. Poster presented at the annual meeting of the Association for Applied Psychophysiology and Biofeedback, December.
- Buckman, J.F., Holland, R., Nguyen, T., Bates, M.E., Buyske, S., Vaschillo, E., Jalil, M., & Vaschillo, B. (2012). *The Intersection of Genes, Drinking Behaviors, and Neurocardiac Dynamics*. Poster presented at the Annual Meeting of the Society for Neuroscience, October, New Orleans, LA.
- Vaschillo, B., Vaschillo, E.G., Epstein, E.E., Buckman, J.F., Nguyen, T., & Bates, M.E. (2013). *Changes in Physiological Modulation of Arousal following CBT Intervention in Women with Alcohol Use Problems*. Paper presented at the 21st Annual Meeting of the Society for Prevention Research (SPR). San Francisco, California. May 28-31, 2013.
- Eddie, D., Kim, C., Lehrer, P., & Bates, M.E. (2013) *Heart Rate Variability Biofeedback for Young Adults Receiving Inpatient Treatment for Substance Use Disorders*. Invited poster presented at the Association for Applied Psychophysiology and Biofeedback annual meeting, Portland, OR.
- Buckman, J.F., Holland, R., Nguyen, T.T., Bates, M.E., Vaschillo, B., Vaschillo, E.G., Jalil, M., & Buyske, S. (2012). *The intersection of genes, drinking behaviors, and neurocardiac dynamics*. Poster presented at the Annual Meeting of the Society for Neuroscience, Oct., New Orleans.
- Bates, M.E. (2012). Brain-body Mechanisms of Emotional Regulation and a Novel Approach to Increase Behavioral Flexibility Towards Alcohol. Paper presented in the symposium "Mechanisms of Behavior Change and Alcohol Use Disorders: Research Advances from Behavioral Neuroscience to Public Health" (B. Overmier, Chair; J. Tucker, Organizer) at the 2012 Meeting of the International Congress on Psychology, July 26, Cape Town, South Africa.
- Vaschillo, B., Vaschillo, E.G., Buckman, J.F., Nguyen, T., & Bates, M.E. (2012). Testing *Cardiovascular Functions Regulation by Triggered 0.1 Hz Resonance*. Presented at the 52nd Annual Scientific Meeting of the Society for Psychophysiological Research (SPR). New Orleans, Louisiana. September 19–23.

- Fonoberov, V., Mezic, I., & Bates, M.E. (2011). *Development of a Model of Human Cardiovascular System and Heart Rate Variability*. Paper presented at the Society for Industrial and Applied Mathematics (SIAM) Conference on Applications of Dynamical Systems, May 24, Snowbird, UT.
- Bates, M.E. (2011). *Cue reactivity, reduced response to alcohol, and mechanisms of person-environment vulnerability*. Invited address at the Research Institute on Addictions Spring 2011 Seminar Series, May 20, Buffalo, NY.
- Bates, M.E. (2011). More than the mind beholds: Implicit processing of environmental cues. Invited paper presented in the symposium "Implicit Cognition and Mechanisms of Behavior Change" (Organizers E. Witt, Ph.D. & R. Huebner) at the 2011 Annual Meeting of the American Psychological Society, May 27, Washington, D.C.
- Eddie, D., Udo, T., Vaschillo, E., Vaschillo, B., Lehrer, P., & Bates, M.E. (2011). *Alcohol Expectancies, Cue Reactivity, and History of Substance Dependence*. Poster presented at the Annual Meeting of the American Psychological Association, NIAAA/NIDA Early Career Poster Session, Washington D.C.
- Eddie, D., Udo, T., Vaschillo, E., Vaschillo, B., Lehrer, P., & Bates, M.E. (2011). *Alcohol Expectancies, Physiological Cue Reactivity, Subjective Arousal, & Treatment for Substance Dependence*. Poster presented at the Annual Meeting of the Research Society on Alcoholism, Atlanta, GA.
- Buckman, J.F., Bates, M.E., Vaschillo, E.G., Fonoberov, V.A., Fonoberova, M., Vaschillo, B., Nguyen, T., Mun, E.Y., Mezić, A., & Mezić, I. (2011). *An integrated heart-brain adaptive mechanism.* Poster presented at the Annual Meeting of the Society for Neuroscience, Nov 13, Washington, DC.
- Bates, M.E., Buckman, J., Vaschillo, E., Mun, E.Y., Vaschillo, B. & Udo, T. (2010). Family history, vulnerability mechanisms, and emotional dysregulation. Paper presented in the Symposium "Neurobehavioral systems underlying alcohol-related emotional and cognitive dysregulation" (S.J. Nixon, Chair) at the 2010 International Society for Biomedical Research on Alcoholism World Congress, September 16, Paris, France.
- Vaschillo, E.G., Vaschillo, B., Buckman, J.F., Pandina, R.J., & Bates, M.E. (2010). *Measurement of Vascular Tone Baroreflex Gain*. Paper presented at the 50th Annual Scientific Meeting of the Society for Psychophysiological Research (SPR), September 29 October 3, Portland, Oregon.
- Mun, E.Y., Bates, M.E., Vaschillo, E.G., Vaschillo, B., Udo, T., & Lehrer, P. (2010, June). *Emotional stimulation unveils new alcohol effects in family history positive drinkers.* Paper presented at the 33rd Annual Scientific Meeting of the Research Society on Alcoholism, San Antonio, TX.
- Udo, T., Mun, E.Y., Vaschillo, E., Vaschillo, B., Buckman, J., Lehrer, P., & Bates, M. E. (2010, June). *Risk for alcohol use problems and low neurophysiological adaptability*. Paper presented at the 18th Annual Meeting of the Society for Prevention Research, Denver, CO.
- Bates, M.E. (2010). *Emotional regulation in-the-moment and substance use in college students*. Invited Address to the Conference on College Student Drinking and Drug Use: Multiple perspectives on a complex problem, Duke University, May 18, Durham, NC.

- Bates, M.E. (2009). *Emotional regulation and alcohol use: The difference between* "changes" and "differences." Department of Animal Sciences Seminar Series, Cook Campus, Rutgers The State University of New Jersey, November 13, New Brunswick, NJ.
- Bates. M.E. (2009). *Implications by design: Translational alcohol research on emotional regulation.* University of Arkansas Medical School, Department of Psychiatry Grand Rounds, October 15, Little Rock, AR.
- Bates, M.E. (2009). *Using Psychophysiology to capture an emotional regulatory system: Translational team science and alcohol research.* Invited Address to the CDART Research Forum, University of Kentucky, October 5, Lexington, KY.
- Bates, M.E. (2009). *Emotional Dysregulation and Vulnerability to Alcohol and Drug Addiction*, UMDNJ-Robert Wood Johnson Medical School Department of Psychiatry Grand Rounds, September 10, Piscataway, NJ.
- Bates, M.E. (2009) A new window into mechanisms of cognitive emotional regulation. Paper presented in the symposium "Behavioral regulation of alcohol use: Cognitive and Emotional Risks and consequences in humans" at the Annual Meeting of The Research Society on Alcoholism, June 24, San Diego, CA.
- Nixon, S.J. & Bates, M.E. (2009). Co-chair and Organizer of the symposium "Behavioral regulation of alcohol use: Cognitive and Emotional Risks and consequences in humans," Annual Meeting of The Research Society on Alcoholism, June 24, San Diego, CA.
- Vaschillo, A. & Bates, M.E. (2009). *Rhythmical muscle tension and resonance in the cardiovascular system*. Paper presented at the 49th Annual Meeting of the Society for Psychophysiological Research, October 21, Berlin, Germany.
- Bates, M.E. (2008). Approaches to integrate mechanisms of behavior change research: Emotional regulation and neurophysiology. Discussant for the Conference "Transdisciplinary Approaches to Understanding Mechanisms of Behavior Change in Alcohol: Facilitating Research Across Disciplines and Institutions", October 17, Columbia Medical School, NY.
- Bates, M.E. (2008). Self regulation and behavioral flexibility: Neurobiology without pharmacology. Invited Discussant for "Constructs in Mechanisms of Behavior Change Research: Self-Regulation, Self-Control & Impulsivity: A Critical Look and Discussion" at the 4th Annual Pre-Conference Satellite Meeting on: Mechanisms of Change in Behavioral Treatment: Today and Tomorrow, June 28, 2008, Washington DC.
- Bates, M.E. (2008). Self-regulation and Implicit Memory: Multilevel Processes in Addiction Research. Invited colloquium supported by the Minority Institution Drug Abuse Research Program, Hunter College, April 16, NY, NY
- Mun, E.Y., von Eye, A., Bates, M.E., Vaschillo, E., Vaschillo, B., Udo, T., Ray, S., & Lehrer, P. (2008). Finding Groups Using Model-based Cluster Analysis: Heterogeneous Emotional Self-regulatory Processes and Heavy Alcohol Use Risk. Paper presented at the Biennial Meeting of the Society for Research on Adolescence, March 6, Chicago, IL.
- Howell, K., Udo, T., Bates, M.E., Vaschillo, E., & Vaschillo, B. (2008). Effect of Familial Alcoholism on Physiological Indices of Emotional Regulation. Poster presented at the

- 22nd National Conference on Undergraduate Research (NCUR22), April 10- 12, Salisbury University, Salisbury, MD.
- Howell, K., Udo, T., Bates, M.E., Vaschillo, E., & Vaschillo, B. (2008). *Familial Alcoholism, Skin conductance, and Emotional Regulation*. Poster presented at the 3rd Aresty Research Center Undergraduate Research Symposium, April 25, Rutgers University, New Brunswick, NJ.
- Bates, M.E. (2008). A Translation Science Framework for Using Basic Behavioral Research to Identify Clinically Significant Mechanisms of Behavioral Change. Invited Address at the National Institutes of Health Spring Symposium: Getting at Why People Change, February 27, Rockville, MD.
- Ray, S., Hanson, C., Bates, M. E., & Hanson, S.J. (2008). fMRI Bold Response to Emotional, Alcohol, Marijuana, and Drug Related Picture Cues in Mandated College Students. Paper presented at the 2nd International Conference on Applications of Neuroimaging to Alcoholism (ICANA-2), January 18, Yale University, New Haven, CT.
- Hendren, R., Pandina, G., Voelbel, G., & Bates, M.E., (2008). *Shared affective instability in autism spectrum disorder and bipolar disorder*, Paper presented at the International Meeting for Autism Research, May 15, London, England.
- Vaschillo, B., Vaschillo, E.G., Bates, M.E., & Lehrer, P.M. (2008). *Double triphasic waveform heart rate response to strong stimuli*. Paper presented at the 48th Annual Meeting of the Society for Psychophysiological Research, October 1-5, Austin, TX.
- Weissman, A.S., Chu, B.C., Reddy, L.A., & Bates, M.E. (2008, November). *Do Unique Mechanisms Underlie the Expression of Attention Problems in Anxious and ADHD Youth?: Implications for Differential Diagnosis and CBT*. Paper presented at the Annual Meeting of the Association for Behavioral and Cognitive Therapies, Orlando, FL.
- Weissman, A.S., Chu, B.C., Reddy, L.A., & Bates, M.E. (2008, November). *General vs. emotion-based attention processing deficits in anxious and inattentive-impulsive youth: Implications for differential diagnosis and CBT*. In A. S. Weissman (Chair), The expanding role of neuropsychology in clinical practice. Symposium conducted at the Annual Meeting of the Association for Behavioral and Cognitive Therapies, Orlando, FL.
- Weissman, A.S. & Bates, M.E. (2008, November). *Common and distinctive executive deficits in ADHD, bipolar, and autism spectrum youth.* Paper presented at the Annual Meeting of the Association for Behavioral and Cognitive Therapies, Orlando, FL. (Honorable Mention Award)
- Weissman, A.S. & Bates, M E. (2007, November). *Related cognitive, executive, and psychological dysfunction in children with autism spectrum disorders and comorbid bipolar disorder.* In A. S. Weissman (Chair), *Executive function: From basic research to clinical practice*. Symposium conducted at the Annual Meeting of the Association for Behavioral and Cognitive Therapies, Philadelphia, PA.
- Weissman, A.S. & Bates, M.E. (2007, November). *The relation between clinical and executive dysfunction in childhood psychopathology*. Paper presented at the Annual Meeting of the Association for Behavioral and Cognitive Therapies, Philadelphia, PA.
 - Bates, M.E. (2007). Emotional regulation, heart-rate variability and alcohol. Invited

- Paper presented in the Cross-Cutting Divisional Symposium "Self-regulation: Integrating across disciplines" at the 115th Annual Meeting of the American Psychological Association, San Francisco, CA, August 18.
- Bates, M.E., Mun, E. Y., Vaschillo, E., Vaschillo, B., & Udo, T. (2007). *Discovery focused hypothesis generation in the experimental study of change mechanisms*. Paper presented in the symposium "Mechanisms of Action Underlying Adult and Adolescent Alcohol Use Disorders (AUD) Treatments" at the Annual Meeting of The Research Society on Alcoholism, Chicago, IL, July.
- Bates, M.E., Vaschillo, E., Vaschillo, B., Udo, T., Lehrer, P, Mun, E.Y., & Ray, S. (2007). *Neurobiological regulatory mechanisms and diminished cognitive control*. Invited Address at the 3rd Annual NIAAA sponsored pre-conference workshop "Mechanisms of Behavior Change (MOBC) in Behavioral Treatment: Current knowledge and new perspectives," at the Annual Meeting of The Research Society on Alcoholism, Chicago, IL, July.
- Bates, M.E., Vaschillo, E., Vaschillo, B., Udo, T., Lehrer, P., & Ray, S. (2007). *Physiological Mechanisms that Support Behavioral Flexibility: Alcohol and Placebo Effects on Emotion Regulation*. Invited presentation at the NIAAA sponsored symposium "Social Neuroscience and Mechanisms of Behavior Change," at the Annual Meeting of the Association of Psychological Science, May 26, Washington DC.
- Bates, M.E. (2007). *Neurocognitive effects of alcohol and other drugs: Treatment Implications*. Invited address to the Addiction Psychiatry Fellows, Addiction Consortium, UMDNJ/Robert Wood Johnson Medical School, April 13, New Brunswick, NJ.
- Bates, M.E. (2007). *Neurocognitive effects of alcohol and other drugs*. Invited address at the Philadelphia College of Osteopathic Medicine, Philadelphia, PA, March 26.
- Vaschillo, E., Vaschillo, B., Bates, M.E., Lehrer, P., France, Ch., & Trost, Z. (2007). *Rhythmical Muscle Tension Mimics Heart Rate Variability Biofeedback*. Paper presented at the Applied Psychophysiology and Biofeedback (AAPB) 38th Annual Meeting, Monterey, CA Feb 15-18.
- Vaschillo E., Vaschillo, B., Bates, M.E., Pandina, R., Ray, S., Udo, T., & Kingeter, J. (2006). *Some Features of Six Times per Minute Breathing Phenomenon*. Paper presented at the annual meeting of the International Society for the Advancement of Respiratory Psychophysiology (ISARP), Newport, RI, October 21-23.
- Udo, T., Bates, M.E., Vaschillo, E., Vaschillo, B., Ray, S., & Mun, E.Y. (2007). Gender Differences in the Effects of Alcohol on Emotional Response in Social Drinkers. Paper presented at the 15th annual meeting of the Society for Prevention Research (SPR), Washington, D.C. May 30-June 1.
- Udo, T., Bates, M.E., Vaschillo, E., Vaschillo, B., Ray, S., & Mun, E.Y. Gender Differences in the Effects of Alcohol on Emotional Regulation in Social Drinkers. (2007). Paper presented at the 69th annual meeting of the College on Problems of Drug Dependence (CPDD), Quebec City, Canada. June 16-21.
- Weissman, A. S. & Bates, M.E. (2006) *Increased Psychological and Neuropsychological Impairment in Children Diagnosed with Autism Spectrum Disorders and Bipolar Disorder*. Paper presented at the Annual Meeting of the Association on Behavioral and Cognitive Therapy, Chicago IL, November 17.

- Vaschillo, E., Vaschillo, B., Bates, M.E., Lehrer, P., Udo, T., Ray, S., & Pandina, R. Heart Rate Parameters to Evaluate Alcohol Challenge and Placebo Effects. (2006). Paper presented at the 46th Annual Meeting of the Society for Psychophysiological Research, Vancouver, Canada, October 26.
- Buyske, S., Bates, M.E., Gharani, N., Matise, T.C., Tischfield, J.A., & Manowitz, P. (2006). *Fine Linkage Mapping of a Cognitive Trait to Chromosome 14*, Paper presented at the American Society of Human Genetics Conference, New Orleans, Louisiana, October 10.
- Bates, M.E. (2006). *Individualizing addiction treatment: Why study how comorbidity affects change mechanisms*. Presidential Address of Division 50 (Addictions) presented at the 144th Annual Meeting of the American Psychological Association, New Orleans, LA, August 12.
- Zakrzewski, C.M., Locascio, G., Voelbel, G.T., Hendren, R. L., & Bates, M.E. (2006). Cingulate gyrus volume differences in subjects with asperger's disorder, high-functioning autism, and bipolar disorder. Paper presented at the 114th Annual Meeting of the American Psychological Association, New Orleans, LA, August 10.
- Bates, M.E. (2006). *Promoting integrated treatment: the intersection of addiction, neuropsychology and rehabilitation*. Organizer and Chair of a Cross-Cutting Symposium presented at the 114th Annual Meeting of the American Psychological Association, New Orleans, LA, August 11.
- Buckman, J.F., Pawlak, A.P., & Bates, M.E. (2006). *Influence of cognitive impairment on social functioning*. Paper presented at the 114th Annual Meeting of the American Psychological Association, New Orleans, LA, August 11.
- Bates, M.E. (2006). *Neurocognitive impairment alters mechanisms of behavior change in treatment*. Paper presented in the symposium "Role of neurocognition and substance abuse in risk and outcome" at the 144th Annual Meeting of the American Psychological Association, New Orleans, LA, August 13.
- Bates. M.E. (2006). *Alcohol, cognition, and autonomic regulation*. Addiction Psychiatry Fellowship Lecture presented in the Core Seminar Series of the Division of Addiction Psychiatry, Robert Wood Johnson Medical School, Piscataway, NJ, June 15.
- Bates M.E., Vaschillo E., Vaschillo B., Lehrer, P., Udo, T., Ray, S., & Pandina, R.J. (2006). *Heart Rate and Skin Conductance Variability: New Measures of Psychophysiological Reactivity to Emotional and Drug Related Stimuli*, Paper presented at the Annual Meeting of the Society for Prevention Research, San Antonio, TX, June 2.
- Vaschillo, E., Vaschillo, B., Bates, M.E., Pandina, R., & Lehrer, P. (2006). *Resonant Properties of the Body's Functional Systems and Biofeedback*. Paper presented at the 37th Annual Meeting of the Association for Applied Psychophysiology and Biofeedback, Portland, OR, April 7.
- Bates, M.E. (2005). *Cognitive Impairment, Emotional Regulation, and Mechanisms of Behavior Change*. Invited address at the NIAAA Mechanisms of Behavior Change Initiative,

- Bethesda, MD, November, 3.
- Bates, M.E. (2005). *Cognitive Variables as Precursors and Consequences of Consumption.* Invited State-of –the Art Research Overview presented at the 33 International Medical Advisory Group Conference, Chicago, IL, October 17.
- Voelbel, G., Bates, M., Buckman, J., Pandina, G., & Hendren, R. (2005). *Paradoxical Effects of Familial Alcoholism on Amygdala Volumes in Children With and Without Psychiatric Diagnoses*. Paper presented at the 25th Annual National Academy of Neuropsychology meeting, Tampa, FL, October 19-25.
- Vaschillo, E., Vaschillo, B., Lehrer, P., Bates, M.E., Ray, S., Udo, T., & Pandina, R. (2005) *Using Heart Rate Variability to evaluate response to drug-related stimuli: A new approach.* Presented at the 45th annual meeting of the Society for Psychophysiological Research, Lisbon, Portugal. September 21-24, 2005.
- Vaschillo, E., Vaschillo, B., Bates, M.E., Lehrer, P., Pandina, R., Ray, S., & Udo, T. (2005). *Heart Rate Resonance Features Do Not Depend on Respiration*. Presented at the 12th annual meeting of the International Society for Advancement of Respiratory Psychophysiology, Hamburg, Germany. September 14.
- Bates, M.E., Lehrer, P., Vaschillo, E., Udo, T., Ray, S., Vaschillo, B., Pandina, R., & Weissman, A. (2005). *Alcohol and Self-Regulation*. Paper presented at the Annual Meeting of the Research Society on Alcoholism, June 28, Santa Barbara, CA.
- Pawlak, A.P. & Bates, M.E. (2005). Working Alliance and depression are important to the treatment outcomes of neuropsychologically impaired clients. Paper presented at the Annual Meeting of the Research Society on Alcoholism, June 28, Santa Barbara, CA.
- Ray, S. & Bates, M.E. (2005). *Effects of alcohol on intrusion errors in free recall tasks*. Paper presented at the Annual Meeting of the Research Society on Alcoholism, June 29, Santa Barbara, CA.
- Buckman, J.F., Bates, M.E., & Cisler, R.A. (2005). *Importance of social networks to cognitively impaired clients*. Paper presented at the Annual Meeting of the Research Society on Alcoholism, June 27, Santa Barbara, CA.
- Bates, M.E., Lehrer, P., Vaschillo, E., Vaschillo, B., Pandina, R., Ray, S., & Buckman, J. (2005). *Heart Rate and Skin Conductance Variability: New Measures of Psychophysiological Reactivity to Emotional and Drug Related Stimuli*. Paper presented at the 13th Annual Meeting of the Society for Prevention Research, May 26, Washington, D.C.
- Vaschillo, E., Vaschillo, B., Lehrer, P., Bates, M.E., & Pandina, R.J. (2005). Paper presented at the Annual Psychiatry Poster Session, University of Dentistry and Medicine/Robert Wood Johnson Medical School, April 26, Piscataway, NJ.
- Bates, M.E., Vaschillo, E., Ray, S., Vaschillo, B., Udo, T., Lehrer, P., & Pandina, R.J. (2005). *Autonomic reactivity and memory for emotional and drug related stimuli.* Invited Address to the 2nd East-West Conference on Tobacco and Alcohol: Culture, Environment, and Genes, April 5, Pasadena, CA.

- Bates, M.E. (2005). *Alcohol and Drug Effects on Cognitive Functioning: Implications for Prevention and Treatment*, Invited talk presented at the Endocrinology Seminar Series, Cook College, January 28, New Brunswick, NJ.
- Voelbel, G.T., Locascio, G., Hendren, R.L., & Bates, M.E. (2005). *Neurocognitive abilities and caudate nucleus volumes: Is there a relationship?* Paper presented at the 33rd Annual Meeting of the International Neuropsychological Society, St. Louis, MI.
- Locasio. G., Voelbel, G.T., Dapuzzo, L., Hendren, R.L., & Bates, M.E. (2005). *Lateral Ventricle Enlargement in Children With High Functioning Autism*. Paper presented at the 33rd Annual Meeting of the International Neuropsychological Society, St. Louis, MI.
- Rha, C., Locascio, G., Voelbel, G., Hendren, R., & Bates, M. (2005). *Fusiform Gyrus Differences in Children Diagnosed with Autistic Spectrum Disorders*. Paper presented at the 25th Annual National Academy of Neuropsychology Meeting, Tampa, FL, October 19-25.
- Barry, D., Bates, M. E., & Labouvie, E. (2004, June). *A Meta-Analytic Method for Obtaining Neuropsychological Test Norms: Comparison to Published Norms.* Paper presented at the Annual Meeting of the Pennsylvania Psychological Association, Pittsburgh, PA.
- Bates, M.E. (2004). *Are New Treatments Needed for Substance Abusers with Cognitive Impairment?* Chair of Symposium presented at the 112th Annual Meeting of the American Psychological Association, August, Honolulu, Hawaii.
- Bates. M.E. (2004). New Ways of Examining how Neuropsychological Impairment Affects Treatment Outcome. Paper presented in the Symposium Are New Treatments Needed for Substance Abusers with Cognitive Impairment (M.E. Bates, Chair) presented at the 112th Annual Meeting of the American Psychological Association, August, Honolulu, HI. Hawaii.
- Groham, K., Fals-Stewart, W., & Bates, M.E. (2004). *Sharing Substance-abusing Patients' Neuropschological Assessment Results: Effects on Treatment Response*. Paper presented at the 112th Annual Meeting of the American Psychological Association, August, Honolulu, HI.
- Locasio, G., Voelbel, G., Hamstra, G., Bates, M.E., Pandina, G., & Hendren, R. (2004). *Relationship of Amygdala and Hippocampus Volumes to Face and Affect Recogntion.* Paper presented at the 112th Annual Meeting of the American Psychological Association, August, Honolulu, HI.
- Voelbel, G.T., Locascio, G., Hamstra, J., Bates, M.E., Pandina, G., & Hendren, R.L. (2004). *Relationship of Amygdala and Hippocampus Volumes to Face/Affect Recognition*. Paper presented at the 112th Annual Meeting of the American Psychological Association, Honolulu, HI, August.

- Ray, S., Bates, M. E., & Bly, B.M. (2004, June). *Effects of Alcohol on Implicit and Explicit Word Recognition Memory Tasks*. Presented at the 26th Annual Meeting of the Research Society on Alcoholism, Vancouver, Canada.
- Bates, M.E., Pawlak, A., Labouvie, E., Tonigan, J.S., & Fals-Stewart, W. (2004, June). Neuropsycoological impairment indirectly influences alcohol treatment outcome. Presented at the 26th Annual Meeting of the Research Society on Alcoholism, Vancouver, Canada.
- Bates, M.E., Voelbel, G., & Locascio, G. (2004). *Cerebellar Changes Related to Children's Psychiatric Disorder and Family History*, Paper presented at the 32nd Annual Meeting of the International Neuropsychological Society, February, Baltimore, MD.
- Grohman, K., Fals-Stewart, W., & Bates, M.E. (2004). *Cognitive "rehabilitation" with neuropsychologically intact substance abusers*. Paper presented at the 32nd Annual Meeting of the International Neuropsychological Society, February, Baltimore, MD.
- Pawlak, A.P., Bates, M.E., & Tonigan, J.S. (2004) *Indirect Effects of*Neuropsychological Ability on Addiction Treatment Outcome. Paper presented at the 32nd

 Annual Meeting of the International Neuropsychological Society, February, Baltimore, MD.
- Ray, S., Bates, M.E., & Bly, B. (2004) *Roles of Alcohol and Word Frequency in Free Recall and Retroactive Interference Tasks*. Paper presented at the 32nd Annual Meeting of the International Neuropsychological Society, February, Baltimore, MD.
- Voelbel, G., Locascio, G., Bates, M.E., Desai, C., Pandina, G., & Hendren, R. (2004) Cerebellum and Vermis Differences in Children with Autism Spectrum and Bipolar Disorder. Paper presented at the 32nd Annual Meeting of the International Neuropsychological Society, February, Baltimore, MD.
- Barry, D., Bates, M.E., Labouvie, E., Tonigan, J.S., Fals-Stewart, W., & Voelbel, G. (2003) *Effect of therapy assignment on post-treatment neuropsychological ability*. Paper presented at 37th Annual Meeting of the Association for the Advancement of Behavior Therapy, November, Boston, MA.
- Bates, M.E. (2003). Consequences of Drug Abuse and HIV to Brain Functions. Chair and Discussant of Panel presented at NIDA Conference: Developing Behavioral Treatments for Drug Abusers with Cognitive Impairments, June, Gaithersburg, MD.
- Bates, M.E. (2003). *Overview: Neuropsychological Impairment & Drug Abuse and the Influence on Treatment Response*. Paper presented at NIDA Conference: Developing Behavioral Treatments for Drug Abusers with Cognitive Impairments, June, Gaithersburg, MD.

- Barry, D., Bates, M.E., Morgenstern, J., Cisler, R., Tonigan, J.S., Voelbel, G., & Fals-Stewart, W. (2003). *Neuropsychological impairment and social support for abstinence*. Paper presented at the Annual Meeting of the Research society on Alcoholism, June, Fort Lauderdale, FL.
- Grohman, K., Fals-Stewart, W., & Bates, M.E. (2003). *Neurocognitive rehabilitation* and post treatment success: The influence of length of stay. Paper presented at the Annual Meeting of the Research society on Alcoholism, June, Fort Lauderdale, FL.
- Voelbel, G.T., Bates, M.E., Pandina, G., Frenkle, E., Hyers, L., & Hendren, R. (2003) Neuropsychological Functioning of Children Diagnosed with Bipolar Disorder. Paper presented at the Fifth International Conference on Bipolar Disorder, June, Pittsburgh, PA.
- Bates, M.E., Voelbel, G., Pandina, G., & Hendren, R. (2003). *Memory and executive function impaired in children with bipolar disorder*. Paper presented at the NIMH Pediatric Bipolar Disorder conference, March, Washington DC.
- Grohman, K., Fals-Stewart, W., & Bates, M.E. (2003). *Neurocognitive Functioning of Substance Users: A Growth Mixture Model Analysis*, Paper presented at the 111th Meeting of the American Psychological Association, Toronto.
- Barry, D., Bates, M.E., & Labouvie, E.W. (2002). *Neuropsychological Test Norms Based on Multiple Normal Samples*. Paper presented at the 110th Annual Meeting of the American Psychological Association, August, Chicago, IL.
- Barry, D., Bates, M.E., Voelbel, G.T., Labouvie, E.W., Tonigan, J.S., & Fals-Stewart, W. (2002). *Recovery of neuropsychological functioning after alcohol treatment: The effect of baseline risk factors and resumed drinking*. Paper presented at the Annual Meeting of the Research Society on Alcoholism, June, San Francisco, CA.
- Bates, M.E. (2002). *Integrating person-centered and variable-centered approaches* to the study of addiction treatment response. Symposium organized for the 36th Annual Meeting of the Association for the Advancement of Behavior Therapy, November, Reno, NV.
- Bates, M.E., Reich, W., Lemay, E., Voelbel, G., Morgenstern, J., & Fals-Stewart, W. (2002). *Neurocognitive Impairment, social support, and treatment response: Research approaches for small samples*. Paper presented at the 36th Annual Meeting of the Association for the Advancement of Behavior Therapy, November, Reno, NV.
- Cisler, R., Tonigan, J.S., Barry, D., & Bates, M.E. (2002). *Neurocognitive impairment, social support, and treatment response in the Project MATCH outpatient sample*. Paper presented at the 36th Annual Meeting of the Association for the Advancement of Behavior Therapy, November, Reno, NV.
 - Fals-Stewart, W., Groman, K., & Bates, M.E. (2002). Neurocognitive impairment,

- social and environmental support, and treatment response in a substance use disordered sample. Paper presented at the 36th Annual Meeting of the Association for the Advancement of Behavior Therapy, November, Reno, NV.
- Bates, M.E. (2001). *Alcohol use and the brain: Some directions in addictions research*. Psychiatry Grand Rounds, UMDNJ/Robert Wood Johnson Medical School, September 6, Piscataway, NJ.
- Bates, M.E., Johnson, V., & Buyske, S. (2001). *Latent classes of familial alcoholism and depression: Relations to neuropsychological functioning in late adolescence and adulthood*. Paper presented at the Annual Meeting of the International Society of Addictive Medicine, September 12-14, Trieste, Italy.
- Pandina, G. J., Hendren, R., Bates, M., Voelbel, G., & Frenkel, E. (2001). *Affective instability relates to increased caudate volume in Bipolar youth.* Paper presented at the 48th Annual American Academy of Child & Adolescent Psychiatry Conference, Honolulu, Hawaii.
- Voelbel, G.T., Barry, D., Desai, C., Dougherty, K, Wedderbaum, W., Pandina, G., Bates, M.E., & Hendren, R. (2001). *Neuropsychological deficits and structural brain changes in children with Asperger's Disorder and Bipolar Disorder*. Paper presented at the 21st Annual Meeting of the National Academy of Neuropsychology, November, San Francisco, CA.
- Voelbel, G.T., Bates, M.E., & Labouvie, E.W. (2001). *Convergent and discriminant validity of the Tower of Hanoi Test*. Paper presented at the 109th Annual Meeting of the American Psychological Association, August, San Francisco, CA.
- Voelbel, G. T., Bates, M.E., & Barry, D. (2001). Factors affecting recovery of neuropsychological functioning in substance abusers. Paper presented at the 109th Annual Meeting of the American Psychological Association, August, San Francisco, CA.
- Bates, M.E. (2001). Alcohol use, familial risk, and neurocognitive functioning in a community sample. Invited paper presented at a NIAAA sponsored symposium preceding the Annual Meeting of the American Psychological Society, June 14, Toronto, Canada.
- Voelbel, G. T., Bates, M.E., & Labouvie, E.W. (2000, November) *Effects of executive cognitive impairment on addictions treatment outcome*. Paper presented at the 20th Annual Meeting of the National Academy of Neuropsychology, November 15-18, Orlando, Florida.
- White, H.R., Bates, M.E., & Buyske, S. (2000, November). *Developing trajectories of delinquency: A comparison of several techniques.* Paper presented at the American Society of Criminology Conference, November 15-18, San Francisco, California.
- Bates, M.E., Voelbel, G.T., & Labouvie, E.W. (2000, September). *Neuropsychological abilities and addictions treatment outcome*. Paper presented at the Ninth International Conference on the Treatment of Addictive Behaviors, September 21-25, Cape Town, South

Africa.

- Bates, M.E., Voelbel, G.T., & Labouvie, E.W. (2000, June). *A neurocognitive moderation model of addictions treatment response*. In S. Bowden (Chair), Neurotoxicity and neurocognitive impairments associated with alcohol and drug use disorders: Potential roles in addiction and recovery, symposium presented at the Annual Meeting of the Research Society on Alcoholism, Denver, Colorado.
- Bates, M.E., Voelbel, G.T., Labouvie, E.W., & Desai, C. (2000, June). *Does psychopathology moderate the influence of substance use intensity on neuropsychological functioning?* Paper presented at the Annual Meeting of the College on Problems of Drug Dependence, June 17-22, San Juan, Puerto Rico.
- Bates, M.E., Voelbel, G.T., Labouvie, E.W., McCrady, B.S., Blanchard, K.A., & Pinski, I. (2000, March). *Asymmetric patterns of relations between performance on six tests of executive function in persons seeking addictions treatment*. Paper presented at the 10th Annual Rotman Research Institute Conference *The Frontal Lobes*, Toronto.
- Bates, M.E., Labouvie, E.W., & Voelbel, J.T. (1999, August). *Understanding recovery of neuropsychological function: A latent structure approach*. Paper presented at the 107th Annual Meeting of the American Psychological Association, Boston, MA.
- Bates, M.E. (1999, June). *Integrating person-centered and variable-centered approaches to the study of developmental courses and transitions in alcohol use*. Symposium organized for the Annual Meeting of the Research Society on Alcoholism, Santa Barbara, CA.
- Bates, M.E., Labouvie, E.W., Voelbel, J.T., & Johnson, B. (1999, June). *Latent structure of neuropsychological abilities in an addictions treatment sample*. Paper presented at the Annual Meeting of the Research Society on Alcoholism, Santa Barbara, CA.
- Bates, M.E., Labouvie, E.W., White, H.R., Johnson, V., & Pandina, R.J. (1999, June). Alcohol abuse and dependence symptomatology in adolescence: Impact on long-term use trajectories and transitions to adulthood. Paper presented at the Annual Meeting of the Research Society on Alcoholism, Santa Barbara, CA.
- Bates, M.E., Labouvie, E.W., Voelbel, J.T., & Pandina, R.J. (June, 1999). *Effects of chronic, heavy alcohol and polysubstance use on the latent structure of neuropsychological abilities at addictions treatment entry.* Paper presented at the 61st Annual Scientific Meeting of the College on Problems of Drug Dependence, Acapulco, Mexico.
- Bates, M.E. (1998, November). *Neuropsychology and Neuroimaging of Substance Use Disorders.* Workshop presented at the 18th Annual Meeting of the National Academy of Neuropsychology, Washington, D.C.

- Voelbel, J., Bates, M.E., Labouvie, E.W., Blanchard, K., & Pinsky, I. (1998, November). *Convergent and discriminant validity of the tower of Hanoi Test of executive cognitive functioning*. Paper presented at the 32nd Annual Meeting of the Association for the Advancement of Behavior Therapy, Washington, D.C.
- Blanchard, K.A., Bates, M.E., & McCrady, B.S. (1998, November). *A moderational model of alcohol treatment outcome: The relationship between motivation and cognitive deficits.* Paper presented at the 32nd Annual Meeting of the Association for the Advancement of Behavior Therapy, Washington, D.C.
- White, H.R. & Bates, M.E. (1998, November). *Adult outcomes for adolescent-limited and life-course persistent delinquents.* Paper presented at the Annual Meeting of the American Society of Criminology, Washington, DC.
- Pandina, G. DeBacker, I., Dilworth, J., Bates, M., & Hendren, R. (1998, Fall). *Neuropsychological and neuroanatomical support for subtyping in pervasive developmental disorders.* Chairman's Case Conference. University of Medicine and Dentistry of New Jersey, New Brunswick, NJ.
- Bates, M.E. & Labouvie, E.W. (1998, June). *The structure of alcohol and marijuana use in young adulthood.* Paper presented at the 6th Annual Meeting of the Society for Prevention Research, Park City, Utah.
- Bates, M.E. (1998, June). *Transitions from adolescence to adulthood: Variable-centered versus person-centered approaches to the study of outcomes*. Introduction and Symposium organized for the Annual Meeting of the Research Society on Alcoholism, Hilton Head, SC.
- Bates, M.E. & Labouvie, E.W. (1998, June). *Do neurocognitive abilities vary with alcohol and other drug use from adolescence to adulthood?: Answers from variable-centered and person-centered approaches.* Paper presented at the Annual Meeting of the Research Society on Alcoholism, Hilton Head, SC.
- Pandina, G.J., Butler, K.E., Dilworth, J., DeBacker, I., Bates, M.E., & Hendren, R.L. (1998, June). *Asperger's disorder: Neuropsychological profile, developmental trends, and comorbidity.* Paper presented at the Annual Meeting of the American Psychiatric Association, Toronto, Canada.
- McCrady, B.S., Hirsch, L.S., Blanchard, K.A., & Bates, M.E. (1997, November). *Motivation and severity of impairment as predictors of treatment outcome.* Paper presented at the 31st Annual Meeting of the Association for the Advancement of Behavior Therapy, Miami Beach, FL.
- White, H.R. & Bates, M.E. (1997, November)._*Predicting early onset and persistent delinquency: A partial test of Moffit's hypothesis.* Paper presented at the Annual Meeting of the American Society on Criminology, San Diego, CA.

- Bates, M.E. & Tracy, J.I. (1997, July). *Dissociation of alcohol effects on automatic and controlled memory processes*. Paper presented to the Annual Meeting of the Research Society on Alcoholism, San Francisco, CA.
- Bates, M.E. & Labouvie, E.W. (1997, May). *Alcohol use patterns from adolescence to adulthood and changes in neurocognitive abilities.* Paper presented at the Annual Meeting of the Society for Prevention Research, Baltimore, MD.
- Bates, M.E. (1997, March). *Neuropsychological Impairment and Substance Use Disorders: Assessment, Risk Factors and Relations to Treatment Outcome*. Paper presented at the Philadelphia Neuropsychological Society, Philadelphia, PA.
- Labouvie, E.W., Bates, M.E., & Pandina, R.J. (1996, September). *Age of first use: Its reliability and predictive utility*. Paper presented at Addictions '96, Hilton Head, South Carolina.
- Bates, M.E., White, H.R., & Pandina, R.J. (1996, September). Sex differences in growth curves of alcohol use and health from adolescence to adulthood. Paper presented at An Interdisciplinary Conference on Psychosocial and Behavioral Factors in Women's Health: Research, Prevention, Treatment, and Service Delivery in Clinical and Community Settings, Washington, D.C.
- Bates, M.E., Hamer, R.M., & Rotgers F. (1996, August). *Diagnostic concordance of six executive function tests*. Paper presented at the 104th Annual Meeting of the American Psychological Association, Toronto, Canada.
- Bates, M.E. & Morgenstern, J. (1996, August). *Neurocognitive deficit, substance use disorders, and treatment process and outcome*. Paper presented at the 104th Annual Meeting of the American Psychological Association, Toronto, Canada.
- Bates, M.E. & Labouvie, E.W. (1996, June). *Precursors of alternative alcohol and drug use trajectories from adolescence to adulthood*. Paper presented at the Joint Meeting of the Research Society on Alcoholism and the International Society for Biomedical Research on Alcoholism, Washington, D.C.
- Bates, M.E. & White, H.R. (1996, June). *Growth curves of alcohol use and health consequences from adolescence to adulthood*. Paper presented at the Joint Meeting of the Research Society on Alcoholism and the International Society for Biomedical Research on Alcoholism, Washington, D.C.
- White, H.R., Bates, M.E., & Labouvie, E.W. (1996, June). *The consequences of drug use over thirteen years: A comparison of process-oriented and incremental analyses*. Paper presented at the Conference on New Perspectives on Adolescent Risk Behaviors, Los Angeles, CA.

- Bates, M.E. & Martin, C.S. (1996, May). *Immediate, quantitative estimation of blood alcohol concentration from saliva: Properties of a new test device*. Paper presented at the Annual Meeting of the European Behavioral Pharmacology Society, Cagliari, Italy.
- Bates, M.E. & Morgenstern, J. (1995, November). *Neurocognitive deficit, treatment process, and treatment outcome in substance use disordered clients*. Paper presented at the 29th Annual Meeting of the Association for the Advancement of Behavior Therapy, Washington, DC.
- Bates, M.E., White, H.R., & Hansell, S. (1995, November). *Health consequences of alcohol use patterns over 13 years*. Paper presented at the International Conference on Social and Health Effects of Different Drinking Patterns, Toronto, Canada.
- White, H.R. & Bates, M.E. (1995, October). *Persistence of aggressive and nonaggressive delinquency and neuropsychological functioning*. Paper presented at the Meeting of the New York Academy of Sciences, New York, NY.
- Bates, M.E. & Martin, C.S. (1995, June). *Quantitative estimation of blood alcohol concentration from saliva*. Paper presented at the Annual Meeting of the Research Society on Alcoholism, Steamboat Springs, CO.
- Bates, M.E., Hamer, R.M., & Rotgers, F. (1995, June). *Probability of clinical impairment classification across neuropsychological screening tests*. Paper presented at the Annual Meeting of the Research Society on Alcoholism, Steamboat Springs, CO.
- Johnson, V. & Bates, M.E. (1995, June). Familial alcoholism, other psychopathology and changes in alcohol use, problems, and cognitive functioning. Paper presented at the Annual Meeting of the Research Society on Alcoholism, Steamboat Springs, CO.
- Bates, M.E. (1994, April). *Identification of Clients at High Risk for Neuropsychological Impairment Related to Problem Alcohol Use*. Workshop presented at the Spring Conference of the New Jersey Psychological Association, Teaneck, NJ.
- Bates, M.E. (1994, November). *The psychometric and clinical stability of neuropsychological test scores early in alcoholism treatment*. Paper presented at the 28th Annual Meeting of the Association for the Advancement of Behavior Therapy, San Diego, CA.
- Bates, M.E. & Labouvie, E.W. (1994, June). *A developmental study of intraindividual changes in marijuana use and consequences*. Paper presented at the Annual Meeting of the Research Society on Alcoholism, Maui, HI.
- Bates, M.E. & Pople, L.E. (1994, June). *An evaluation of the validity of the Tower of Hanoi Test of abstract reasoning in chronic alcoholics*. Paper presented at the Annual Meeting of the Research Society on Alcoholism, Maui, HI.

- Bates, M.E., Rotgers, F., Pople, L.E., & Tracy, J.I. (1994, June). *Acute and chronic effects of alcohol on cognitive control.* Paper presented at the Annual Meeting of the Research Society on Alcoholism, Maui, HI.
- Bates, M.E. & Tracy, J.I. (1994, June). *Moderate alcohol intoxication effects on modes of information processing*. Paper presented at the Annual Meeting of the Research Society on Alcoholism, Maui, HI.
- Bates, M.E. (1993, October). *Psychoactive Substance Use Disorders and Cognitive Functioning: Implications for Assessment and Treatment*. Lecture presented at the New Jersey Academy of Psychology Workshop Series, Piscataway, NJ.
- Bates, M.E., & Labouvie, E.W. (1993, August). *Personality-environment mismatch, alcohol use behaviors and consequences: A prospective study of adolescents*. Symposium presented at the 101st Annual Meeting of the American Psychological Association (S. Sadava, Chair), Toronto, Canada.
- Bates, M.E. (1993, June). *Neurocognition and treatment outcome: Issues related to measurement reliability and stability*. Symposium presented at the Annual Meeting of the Research Society on Alcoholism (O.A. Parsons, Chair), San Antonio, TX.
- Bates, M.E., Pandina, R.J., & White, H.R. (1993, June). *Familial alcoholism and the development of cognitive-perceptual styles.* Paper presented at the Annual Meeting of the Research Society on Alcoholism, San Antonio, TX.
- Bates, M.E. & Labouvie, E.W. (1992, October). Familial alcoholism and personality-environment fit: A developmental study of risk in adolescence. Paper presented at the conference on Genetic Susceptibility, Biological Markers of Vulnerability, and Alcoholic Subtypes, organized by the Alcohol Research Center of the University of Connecticut School of Medicine and sponsored by the National Institute on Alcohol Abuse and Alcoholism, Farmington, CT.
- Bates, M.E. (1992, June). *Alcohol, Cocaine and Neuropsychological Status*. Paper presented at the Annual Meeting of the Research Society on Alcoholism, San Diego, CA.
- Bates, M.E. (1992, April). *Academic Involvement, Alcohol Use and Subsequent Cognitive Functioning*. Paper presented at A Conference to Celebrate the 10th Anniversary of the Alcoholic Beverage Medical Research Foundation, Baltimore, MD.
- Tracy, J.I. & Bates, M.E. (1992, February). *Modes of information processing during acute alcohol intoxication*. Paper presented at the 20th Annual Meeting of the International Neuropsychological Society, San Diego, CA.
- Bates, M.E. (1991, November). *Cognitive Impairment in Abstinent Alcoholics*. Lecture presented at the 7th Annual Clinical Day on Chemical Dependency: Contemporary Concerns

- in Addictive Medicine. Saint John Hospital and Medical Center and the Oxford Institute, Detroit, MI.
- Bates, M.E. (1991, November). *Cognitive Impairment in Heavy Social Drinkers*. Lecture presented at the 7th Annual Clinical Day on Chemical Dependency: Contemporary Concerns in Addictive Medicine. Saint John Hospital and Medical Center and the Oxford Institute, Detroit, MI.
- Bates, M.E. (1991, June). *Neuropsychological functioning and its relevance to excessive alcohol use.* Symposium presented at the Annual Meeting of the Research Society on Alcoholism, Marcos Island, FL.
- Bates, M.E. (1990, March). *Alcohol's Effects on Learning*. A Seminar for Faculty, Kean College, Union, NJ.
- Bates, M.E. (1990, March). *Effects of intoxication on cognitive functioning:*Diminished capacity, intent and sentencing. Seminar presented at the Middlesex County Bar Association Trial Practice Seminar, South Hampton, Bermuda.
- Bates, M.E. (Moderator, 1990, May). *Women's health and their environment*. Eighth Annual New Jersey Conference on Women, Douglass College, New Brunswick, NJ.
- Bates, M.E. (1990, June). *The developmental impact of academic involvement and alcohol use on cognitive functioning.* Paper presented at the Joint Meeting of the Research Society on Alcoholism and the International Society for Biomedical Research on Alcoholism, Toronto, Canada.
- Bates, M.E. (1990, August). *Issues related to substance use among college students.* A Seminar for Faculty, Middlesex County College, Edison, NJ.
- Brick, J., White, H.R., & Bates, M.E. (1990, August). *Estimation of alcohol intoxication from saliva: Social implications and methodological validation*. Paper presented at the Annual Meeting of the Society for the Study of Social Problems, Washington, DC.
- White, H.R. & Bates, M.E. (1990, November). *Cessation from cocaine and other drug use*. Paper presented at the Annual Meeting of the American Society of Criminology, Baltimore, MD.
- Bates, M.E. (1990, December). *Alcohol and Brain Damage*. Lecture presented at the Fall-Winter 1990 Alcohol Education Series, Criminal Justice Alcoholism Coalition of New Jersey, New Brunswick, NJ.
- Bates, M.E. & Tracy, J.I. (1989, November). *A method for exploring compensatory cognitive mechanisms.* Paper presented at the 9th Annual Meeting of the National Academy of Neuropsychology, Washington, DC.

- White, H.R. & Bates, M.E. (1989, November). *Patterns of cocaine use from adolescence to young adulthood: Intensity, duration and reasons for use*. Paper presented at the 117th Annual Meeting of the American Public Health Association, Reno, NV.
- White, H.R. & Bates, M.E. (1989, October). *Intensity and duration of cocaine use: Life consequences in young adults.* Paper presented at the Annual Meeting of the American Society of Criminology, Chicago, IL.
- Pandina, R.J., Johnson, V., White, H.R., Labouvie, E.W., & Bates, M.E. (1989, September). *Developmental trends and consequences of drug use*. Presented at the National Institute of Drug Abuse Conference, Rockville, MD.
- Bates, M.E. & Pandina, R.J. (1989, August). *Longitudinal patterns of personality, coping and substance use in adolescence.* Paper presented at the 97th Annual Meeting of the American Psychological Association, New Orleans, LA.
- Bates, M.E., Pandina, R.J., & Tracy, J. (1989, June). Functional organization of cognitive skills in offspring with and without a positive family history of alcoholism. Paper presented at the Annual Meeting of the Research Society on Alcoholism, Beaver Creek, CO.
- Bates, M.E. & Tracy, J. (1988, August). *Adolescent drug use and cognitive functioning: Related, but how*? Paper presented at the 96th Annual Meeting of the American Psychological Association, Atlanta, GA.
- Bates, M.E. & Pandina, R.J. (1988, June). *Cognitive functioning in offspring of families with a positive history of alcoholism.* Paper presented at the Annual Meeting of the Research Society on Alcoholism, Isle of Palms, SC.
- Tracy, J. & Bates, M.E. (1988, June). *Stress-vulnerability models of adolescent alcohol use.* Paper presented at the Annual Meeting of the Research Society on Alcoholism, Isle of Palms, SC.
- Bates, M.E. (Workshop, 1987, May). *Applications of the latest research on adolescent substance use*. Paper presented at Alcoholism and Crime 1987, the Biannual Meeting of the Criminal Justice/Alcoholism Coalition of NJ, Ocean City, NJ.
- Bates, M.E. & Pandina, R.J. (1987, June). *The relationship of stability in personality needs to adolescent substance use.* Paper presented at the Joint Meeting of the Research Society on Alcoholism and the Committee on Problems of Drug Dependence, Philadelphia, PA.
- Pandina, R.J. & Bates, M.E. (1985, February). *The relationship between stability and change in personality formation and drug use patterns.* Paper presented at the Columbia

University Seminar on Drugs and Society 1984 - 1985: Longitudinal Research, NY.

- Bates, M.E. (Panel Participant, 1985, April). State of the Science of Alcohol and Drug Detection. Paper presented at the Safety Expo/85, New Jersey State Safety Council, Atlantic City, NJ.
- Bates, M.E., White, H.R., & Labouvie, E.W. (1985, August). *A longitudinal study of sensation-seeking needs and drug use.* Paper presented at the 93rd Annual Meeting of the American Psychological Association, Los Angeles, CA.
- Bates, M.E. (Discussant, 1983, June). *How the law treats alcoholic criminal, disorderly and drunk driving offenders.* Alcoholism and Crime 1983, The Biannual Meeting of the Criminal Justice and Alcoholism Coalition of NJ, Princeton, NJ.
- Bates, M.E. (1981, August). *The validity of perceptual sensitivity estimates in drug induced states.* Paper presented at the 89th Annual Meeting of the American Psychological Association, Los Angeles, CA.
- Shaw, M.L., Harris, J.R., & Bates, M.E. (1979, Spring). *A model of overlapping processing*. Paper presented at the Annual Meeting of the Eastern Psychological Association, Philadelphia, PA.
- Bates, M.E. & Shaw, M.L. (1979, August). *On the differences in detecting and locating targets*. Paper presented at the Mathematical Psychology Meeting, New Providence, RI.
- Bates, M.E. (1977, March). *The distribution of cognitive resources in detection and localization search problems.* Human Experimental Colloquium Series, Department of Psychology, Rutgers University, New Brunswick, NJ.
- Bates, M.E. (1974, August). *The effects of positive and negative affective feedback on the resocialization of chronic schizophrenics*. Research and Clinical Staff Symposium, Philadelphia State Hospital, Philadelphia, PA.