The Department of Psychiatry

Presents

The 31st Annual Albert J. Silverman Virtual Research Conference

Research Updates in Psychiatry

MICHIGAN MEDICINE
UNIVERSITY OF MICHIGAN

December 16, 2020

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31st Annual
Albert J. Silverman Virtual Research Conference
Department of Psychiatry

Research Updates in Psychiatry
Wednesday, December 16, 2020

2020 Silverman Research Conference Zoom Webinar Link
Webinar ID: 998 8346 1325 / Passcode: 120862

9:00–9:10 am **Welcome and Introduction**
Gregory Dalack, M.D., Chair

9:10–10:00 am **Lightning Talks (Concurrent)**
2020 Silverman Research Conference Zoom Meeting Link
Meeting ID: 980 3223 4072 / Passcode: 920454

Session 1: Neurobehavioral Studies
Moderator: Liz Duval, Ph.D.
Session 2: Somatic Interventions, Neurobiology and Other
Moderator: Helen Burgess, Ph.D.
Session 3: Behavioral Interventions
Moderator: Courtney Bagge, Ph.D.

10:00–10:10 am **Break**

10:10 am–12:00 pm **Main Session**
Host: Steve Taylor, M.D.
Associate Chair for Research and Research Regulatory Affairs

10:10–10:35 am **Snapchat, Facebook and Video Chat Delivery of Substance Abuse Interventions**
Erin Bonar, Ph.D., Associate Professor

10:35–11:00 am **Cross-Disorder Genetic Analyses of Major Psychiatric Disorders**
Gregory Hanna, M.D., Professor

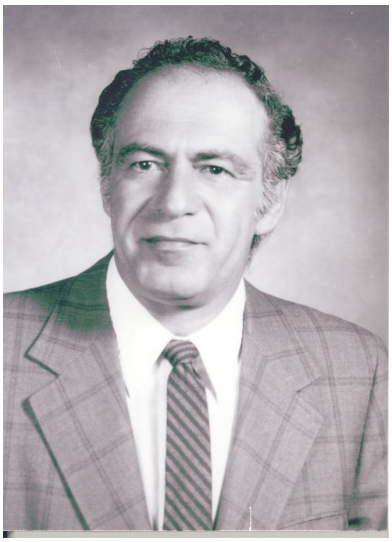
11:00–11:25 am **Adapting Trauma-Focused PTSD Treatment for Brief Treatment Settings**
Rebecca Sripada, Ph.D., Assistant Professor

11:25–11:50 am **Politics Can Be Bad for Your Health: Trumpism and Responses to COVID-19**
Brian Hicks, Ph.D., Associate Professor

11:50–12:00 pm **Announcement of Outstanding Internal Grant Reviewer and Closing Remarks**
Steve Taylor, M.D.
Associate Chair for Research and Research Regulatory Affairs

Albert J. Silverman Research Conference Lecturers

1990 - Bernard J. Carroll, M.D., Ph.D.
1991 - Lenore Terr, M.D.
1992 - Lawrence L. Weed, M.D.
1993 - Jay Pettegrew, M.D.
1994 - Larry J. Siever, M.D.
1995 - Cynthia R. Pfeffer, M.D.
1996 - Marsel Mesulam, M.D. and Ned Kalin, M.D.
1997 - Howard Goldman, M.D.
1998 - Cindy L. Ehlers, M.D.
1999 - Alan F. Schatzberg, M.D.
2000 - Carol A. Tamminga, M.D.
2001 - Ronald Duman, Ph.D.
2002 - Robert Drake, M.D., Ph.D. and Lisa Dixon, M.D., Ph.D.
2003 - Mark Olfson, M.D., M.P.H. and Kurt Kroenke, M.D.
2004 - Gabrielle Carlson, M.D. and Melvin McInnis, M.D.
2005 - David Spiegel, M.D. and Mark Chesler, Ph.D.
2006 - Edward Nunes, M.D. and Marc A. Schuckit, M.D.
2007 - Kathleen Merikangas, Ph.D. and Nick Craddock, M.D., Ph.D., FRCPsych.
2008 - Lorrin M. Koran, M.D.
2009 – William H. Coryell, M.D.
2010 – Eva Van Cauter, Ph.D.
2011 – Susan Nolen-Hoeksema, Ph.D.
2012 – William G. Iacono, Ph.D.
2013 – Wayne J. Katon, M.D.
2014 – Julian D. Ford, Ph.D.
2015 – David H. Gustafson, Ph.D.
2016 – Malaz A. Boustani, M.D., MPH
2017 – Paul E. Holtzheimer, M.D.
2018 – Aldo Badiani, Ph.D.
2019 – Kate Fitzgerald, M.D., M.S. /
Cheryl King, Ph.D. / Jonathan D. Morrow, M.D., Ph.D. /
Courtney A. Polenick, Ph.D. / Maureen A. Walton, Ph.D., M.P.H.
2020 – Erin E. Bonar, Ph.D. / Gregory L. Hanna, M.D. /
Brian Hicks, Ph.D. / Rebecca Sripada, Ph.D.



Albert J. Silverman, M.D., C.M.
1925-2002

Albert Jack Silverman, M.D., C.M. was a noted psychiatrist, neuroscience researcher and former chair of two university psychiatry departments. In 1970, he became chair of psychiatry at the University of Michigan Medical School. He is credited with redirecting the department's research, education and treatment programs, and leading during a time of great change. During his career, Dr. Silverman sought to bridge the divide between the rising field of neuroscience-based psychiatry and traditional psychoanalysis. After he stepped down from the chair in 1981, he remained on faculty and continued his research and the teaching of psychiatry residents. He retired as professor emeritus in 1990 and continued teaching and conducting rounds until 1997.

Today's event is the 31st in an annual series of research conferences held in the department of psychiatry in Dr. Silverman's honor. A recent generous gift from Mrs. Halina Silverman will assure that the Albert J. Silverman Research Conference will continue in perpetuity as a lasting tribute and legacy for her late husband, an accomplished leader, a fine doctor – devoted to his patients, colleagues and trainees – and a wonderful husband, father and grandfather.

Born in Montreal on January 27, 1925, Dr. Silverman earned his bachelor's of science and medical degrees at McGill University. It was at McGill that he discovered his interest in the physical underpinnings of psychological phenomena - a field called psycho-physiology. After a residency in psychiatry at the University of Colorado Medical Center, he followed his mentor Ewald W. Busse to Duke University, where he became a member of the faculty.

He was naturalized as an American citizen in June 1955, took a leave from Duke, and entered the Air Force that year. During his two and one-half years of service at Wright-Patterson Air Force Base, he completed his board examinations in both neurology and psychiatry. Dr. Silverman led research for the U.S. Air Force on space neuroscience and psychology, which rose from obscurity to prominence literally overnight in 1957 with the launch of Sputnik and the dawn of the space race. In addition to performing key research on physical and psychological responses to G-force acceleration and space travel as chief of the stress and fatigue section of the Aero Medical Laboratory at Wright-Patterson Air Force Base, he helped invent a device that used pilots' brain waves as an oxygen-deprivation warning system.

In a 1991 oral history interview, Silverman recalled his Air Force experience: "This was right at the beginning of space exploration. Just prior to the Russians' putting up Sputnik, we were doing G-

tolerance studies with the human centrifuge. We weren't allowed to call them moon trajectories or anything like that, because the senators were very negative about 'all of this space nonsense.' But in under 24 hours of Sputnik's going up, we got these hurry-up telegrams from headquarters saying, 'What are we doing in space [research]?' So we dusted off all the old technical reports we had been doing anyway, but under non-space names such as 'acceleration in unusual environments.' That kind of vague name now became, 'G-forces necessary for a moon trip,' which now became very kosher." Silverman left the service as a captain in 1957. He returned to Duke, heading the psycho-physiology lab and then the behavior studies lab. In all, his research during this period of his career led to more than 100 publications and presentations.

In 1963, Dr. Silverman went to Rutgers University where he and three other faculty members worked to establish a new medical school. This entailed architectural planning and supervision, and hiring the chairs of all departments of the medical school. He became chair of the first psychiatry department at Rutgers where he hired the faculty and worked for seven years. The school later became part of the New Jersey Medical School at the University of Medicine and Dentistry of New Jersey. He also studied psychoanalysis at the Washington Psychoanalytic Institute, graduating in May 1964.

In 1970, he came to the University of Michigan. At the U-M, he set out to bridge the gap between the Mental Health Research Institute, home to noted basic research in the neurosciences, and the psychoanalysis-focused psychiatry faculty. In addition to strengthening the clinical trials program, he helped the U-M implement new clinical treatments and research programs emphasizing psychopharmacology, biofeedback, and stress-neuroendocrine relationships. He also revamped the curriculum for medical students to include more psychiatric training, improved the residency program, and attracted young neuroscientists.

From 1975 to 1976, Dr. Silverman was president of the American Psychosomatic Society, which focuses on the mind-body connection in disease. He served on the National Board of Medical Examiners for many years, including a term from 1984 to 1987 as chair of the committee that designed the behavioral sciences portion of the national medical licensing examination. In addition to the APS and NBME, Dr. Silverman was a charter fellow of the American College of Psychiatrists; a fellow of the American Association for the Advancement of Science, the American Academy of Psychoanalysis and the American College of Neuropsychopharmacology; a former chairman of several committees for the American Psychiatric Association; and an honorary fellow of the American Society of Psychoanalytic Physicians.

"Al was truly a force to be reckoned with, an international leader in the field of psychosomatic medicine, and an important figure in the development of psychiatry at Michigan and beyond into a field that embraces all aspects of the human brain and psyche," says John Greden, M.D., past department chair and executive director of the U-M Depression Center.

Prior to his career in Academic Medicine, Dr. Silverman had an active professional career acting and directing in both theater and radio and continued his activities as an amateur musician and sculptor. Dr. Silverman was a Patron of the U-M University Musical Society; a Friend of the U-M Museum of Art, the U-M Opera, and the U-M Musical Theater; and a Patron of the Detroit Institute of Arts. Memberships also included Beth Israel Congregation, Ann Arbor; Hadassah Associates and B'Nai Brith.

Dr. Silverman is survived by his wife Halina W. Silverman, son Barry Evan Silverman (Nancy), daughter Marcy S. Mullan (John), and four grandchildren: Luke, Mark, Kelly, Erin, as well as a brother Marvin Silverman, M.D. and his family of Ottawa, Canada.

We hold this conference in fond memory of Dr. Silverman – visionary, healer and friend.

Silverman 2020 Research Conference: Lightning talks

Session 1: Neurobehavioral Studies / Moderator: Liz Duval, Ph.D.

Title	Name	Job Title
Spatial Navigation Performance in PTSD and Trauma	Kayla Smith, BS	Research Assistant
Substance use cognitions in 9- and 10-year old youth from the ABCD Study: Influences of parental permissiveness, access to substances in the home, and perceptions of peer use	Meghan Martz, PhD	Research Assistant Professor
Effects of continuous theta burst stimulation applied to the secondary visual cortex (V2) on macular vision	Carly Lasagna, BA	Lab Manager
Predictors of Cognitive Changes in Bipolar Disorder	Tobin J. Ehrlich, PhD	Neurospychology Postdoctoral Fellow
Effects of non-invasive brain stimulation on speech fluency in adults who stutter	Emily O. Garnett, Ph.D., CCC-SLP	Research Investigator
Psychometric Relationships between Anxiety and Impulsivity	Sonalee Joshi, M.S.	Doctoral Candidate/Graduate Student
Functional neural networks for action selection and task control predict CBT response in OCD	Stefanie Russman Block, PhD	Postdoctoral Fellow
Cognitive efficiency beats subtraction-based metrics as a reliable individual difference dimension relevant to self-control	Alexander Weigard, Ph.D.	Postdoctoral Research Fellow
Resting-state functional connectivity differences between OCD and non-OCD anxiety disorders	Hannah Becker	Doctoral Candidate/Graduate Student

Session 2: Somatic Interventions, Neurobiology & Other / Moderator: Helen Burgess, Ph.D.

Title	Name	Job Title
A new way to measure individual differences in aversive learning in rats.	Jonathan Morrow, MD, PhD	Associate Professor
Convergent mechanisms for two high-confidence autism spectrum disorder genes	Paul Jenkins, PhD	Assistant Professor
Leveraging electronic health records to identify alcohol use using natural language processing	Anne Fernandez, PhD	Assistant Professor
Utilizing Ripple for Remote Recruitment of Study Participants	Jessica Tundo, BA / Rohan Nanwani	Research assistant / UROP Student
Neurocognitive Effects of Intravenous Ketamine Treatment in Treatment Resistant Depression	Cortney Sera, MA	Clinical Subjects Coordinator
Combining tDCS with cognitive training for people with severe mental illness	Cynthia Burton, PhD	Clinical Lecturer
Taking the Intern Health Study - similarities, differences and effect of COVID-19	Margit Burmeister, PhD	Associate Chair and Professor, Computational Medicine & Bioinformatics, and Professor, MNI and Psychiatry
Oral Health and Serious Mental Illness	Adrienne Lapidos, Ph.D.	Clinical Assistant Professor
Pharmacogenomic Testing in Psychiatry: Strengths, Controversies, When and How to Use	John F. Greden, M.D.	Professor
Going Virtual During a Pandemic: The Department of Psychiatry's Experience with Telepsychiatry	Danielle S. Taubman, MPH	Program Evaluation Specialist

Session 3: Behavioral Interventions / Moderator: Courtney Bagge, Ph.D.

Title	Name	Job Title
What Influences Mood in College Freshmen?	Cortney A. Turner, PhD	Associate Research Scientist
Feasibility, acceptability, and preliminary effectiveness of a cognitive behavioral suicide prevention-focused intervention tailored to adults diagnosed with schizophrenia spectrum disorders	Lindsay A. Bornheimer, PhD	Assistant Professor
Preliminary feasibility data for a social media based intervention to reduce marijuana use/harms in young adults.	Lyndsay Chapman, MPH	Study Coordinator
Anxiety and Reassurance Seeking	Allison Meyer, PhD	Postdoctoral Fellow
Topic - Early relational health outcomes for children ages 0-3	Jessica Riggs, PhD	Clinical Psychology Postdoctoral Fellow - Child/Adolescent
The Impact of the COVID-19 Pandemic on College Mental Health	Hanjoo Kim, PhD	Postdoctoral fellow
Developing the SnapCoach Intervention: Brief Counseling and Snapchat Messaging for Emerging Adults' Cannabis Use in a Flint Hospital	Bailey Boyle	Psychiatry Clinical Subjects Coordinator (PIs: Erin Bonar, Ph.D., and Maureen Walton, Ph.D.)
Improving Depression via E-Health Access (IDEA) Study	Daniela Lopez	Research Coordinator
Mini-Mental State Examination (MMSE) items demonstrate incremental validity among Veteran outpatients	Anthony Correro, PhD	Neuropsychology Resident
TRAILS: A University-community partnership to improve student access to effective mental health care	Elizabeth Koschmann, PhD	Assistant Research Scientist, TRAILS Program Director

2020 Speakers

Erin E. Bonar, Ph.D.
Associate Professor, Department of Psychiatry
U-M Addiction Center
Practicing Clinical Psychologist, U-M Addiction Treatment Services

Erin E. Bonar, Ph.D., is a licensed clinical psychologist and Associate Professor in the Department of Psychiatry as well as an Adjunct Assistant Professor in the Department of Psychology. She investigates the links between substance use and risky behaviors, particularly HIV risk behaviors, in vulnerable populations with special attention to the role of social cognitive factors. Dr. Bonar is interested in developing and adapting interventions augmented by mHealth for prevention and treatment of substance use and related conditions.

Gregory L. Hanna, M.D.
Professor
Department of Psychiatry

Gregory L. Hanna, MD is Professor of Psychiatry at the University of Michigan and Distinguished Fellow of the American Academy of Child and Adolescent Psychiatry. He is the founder and co-director of the Child Obsessive-Compulsive and Anxiety Disorders Program. He is a member of the Tourette Syndrome / Obsessive-Compulsive Disorder Working Group of the Psychiatric Genomics Consortium, and has conducted research on the diagnosis, treatment, neurobiology, and genetics of OCD and related disorders for over 30 years. His research has been funded by the National Institute of Mental Health, National Institute of Child Health and Human Development, and International OCD Foundation.

Brian Hicks, Ph.D.
Associate Professor, Department of Psychiatry
U-M Addiction Center

Dr. Hicks' research focuses on examining the interplay among genetic, environmental, and developmental influences on the emergence, persistence, and desistence of substance use disorders and related conditions including antisocial behavior and psychopathic personality disorder. Dr. Hicks' research accomplishments have been recognized by early career contribution awards from the Behavior Genetics Association, the Society for Research in Psychopathology, and the Society for the Scientific Study of Psychopathy. In 2015 Dr. Hicks received the Research Faculty Recognition Award (campus-wide award) from the Office of Research at the University of Michigan.

Rebecca Sripada, Ph.D.
Assistant Professor, Department of Psychiatry
Research Scientist, VA Center for Clinical Management Research; Clinical Psychologist, VA Ann Arbor Healthcare System

In addition to her U-M appointment, Dr. Sripada is a Research Scientist at the VA Center for Clinical Management Research, and a Clinical Psychologist in the VA Ann Arbor Healthcare System. The central focus of her research is improving care for posttraumatic stress disorder. She currently has VA Career Development Award to evaluate care in residential PTSD programs and identify best practices to improve treatment outcomes. She also leads several projects testing novel delivery methods to improve access to evidence-based treatments.