Frontiers in Ambulatory Assessment

SOCIETY FOR AMBULATORY ASSESSMENT
4TH BIENNIAL CONFERENCE

CONFERENCE PROGRAM

JUNE 24TH-27TH, 2015
THE PENNSYLVANIA STATE UNIVERSITY

saa2015.ssri.psu.edu
Would you like to assess ongoing behavior, experiences, physiology, or environmental factors in real time?

☑ Yes ☐ No

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mobile Ecological Momentary Assessment

mEMA offers research grade Apple and Android apps to capture:

☑ EMA
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www.mobileEMA.com
**Society for Ambulatory Assessment**

*Ambulatory Assessment* comprises the use of field methods to assess the ongoing behavior, physiology, experience and environmental aspects of people in naturalistic or unconstrained settings. Ambulatory Assessment uses ecologically-valid tools to understand biopsychosocial processes as they unfold naturally in time and in context. The *Society for Ambulatory Assessment* was launched in 2008 to promote and foster research in and on everyday life.

*Ambulatory Assessment* covers a range of real-time data capture methodologies that originate from different scientific disciplines (psychology, medicine, computer science, etc.). These methodologies include but are not limited to experience sampling methods [ESM] and ecological momentary assessment [EMA], repeated-entry diary techniques, monitoring of physiological function, in combination with or without activity/movement, and the acquisition of ambient environmental parameters.

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**Your SAA conference badge:**

Please note that the conference sessions and locations are controlled entry – you will need to wear your badge to get inside. Please be sure to keep it proudly displayed!

*If you misplace your badge, please see one of the registration staff to obtain a replacement.*
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Member

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Student Liasons

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Social Science Research Institute (SSRI)

The 4th Biennial conference is being sponsored by the Social Science Research Institute at the Pennsylvania State University. The Institute’s mission is to foster novel, interdisciplinary collaborations by investigators who aim to address critical human and social problems at the local, national, and international levels, and to translate and disseminate this knowledge into measurable outcomes for human behavior, health, and development.

http://www.ssri.psu.edu/
## PROGRAM AT A GLANCE

### Wednesday, June 24th

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<th>Time</th>
<th>Location</th>
<th>Event Details</th>
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<tbody>
<tr>
<td>8:30 am - 9:00 am</td>
<td>Willard 260</td>
<td>Pre-Conference Registration</td>
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<tr>
<td>9:00 am - 12:30 pm</td>
<td>Willard 073</td>
<td>Pre-Conference Workshop: <em>EMA Boot Camp</em></td>
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<tr>
<td>12:30 pm - 1:00 pm</td>
<td>Willard 260</td>
<td>Lunch Break &amp; Pre-Conference Registration</td>
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<tr>
<td>1:00 pm - 4:30 pm</td>
<td>Willard 073</td>
<td>Pre-Conference Workshop: <em>Statistical Power Analysis</em></td>
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<tr>
<td>1:00 pm - 4:30 pm</td>
<td>Willard 075</td>
<td>Pre-Conference Workshop: <em>Advanced Analytics for Intensive Longitudinal Data</em></td>
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<tr>
<td>4:30 pm - 5:00 pm</td>
<td>Willard 260</td>
<td>Pre-Conference Registration</td>
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<tr>
<td>5:00 pm - 6:00 pm</td>
<td>Nittany Lion Inn</td>
<td>Pre-Conference Workshop Reception</td>
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<td>(Pre-Conference Participants Only)</td>
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### Thursday, June 25th

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<th>Time</th>
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<th>Event Details</th>
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<tr>
<td>7:00 am - 8:00 am</td>
<td>BBH Basement Lobby &amp; 1st Floor Lobby</td>
<td>Breakfast &amp; Conference Registration</td>
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<tr>
<td>8:00 am - 9:00 am</td>
<td>Pike Auditorium – BBH 022</td>
<td>Welcome Ceremony/Opening Remarks</td>
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<tr>
<td>9:00 am - 10:15 am</td>
<td>Pike Auditorium – BBH 022</td>
<td>Keynote Address: <strong>Rosalind Picard</strong></td>
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<tr>
<td>10:30 am - 12:30 pm</td>
<td>Pike Auditorium – BBH 022</td>
<td>Invited Symposium: <strong>Identifying, Explicating, and Diagnosing Mental Disorders:</strong> Applying Ambulatory Assessments to Improve Clinical Care</td>
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<tr>
<td>12:30 pm - 2:00 pm</td>
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<td>Lunch Break (On your own)</td>
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<tr>
<td>2:15 pm - 3:30 pm</td>
<td>HHD-East 211</td>
<td>Paper Session #1: <strong>Clinically Relevant Health Behaviors</strong></td>
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<td></td>
<td>HHD-East 323</td>
<td>Paper Session #2: <strong>Analytic Approaches to Ambulatory Assessment</strong></td>
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<td>HHD-East 322</td>
<td>Paper Session #3: <strong>Ambulatory Assessment in Family and Developmental Contexts</strong></td>
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<tr>
<td>3:45 pm - 5:00 pm</td>
<td>HHD-East 211</td>
<td>Paper Session #4: <strong>Psychophysiology in Field Settings</strong></td>
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<td>HHD-East 323</td>
<td>Paper Session #5: <strong>Stress and Coping</strong></td>
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<td>HHD-East 322</td>
<td>Paper Session #6: <strong>Sleep</strong></td>
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<tr>
<td>5:15 pm - 6:30 pm</td>
<td>Pike Auditorium – BBH 022</td>
<td>Invited Session: <strong>New Approaches in Ambulatory Assessment: Assessing Brain Activity and Cognition in Everyday Life</strong></td>
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<td><strong>Stefan Debener</strong> – <strong>EEG to Take Away: Towards Truly Mobile Brain Activity Monitoring</strong></td>
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<td><strong>Martin Sliwinski</strong> – <strong>The Feasibility and Utility of Using Ambulatory Methods to Assess Cognitive Function in Daily Life</strong></td>
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**Friday, June 26th**

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<tr>
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<tr>
<td>7:00am-9:00am</td>
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<tr>
<td>9:00am-10:30am</td>
<td>Pike Auditorium – BBH 022</td>
<td>Symposium: Assessing Dyadic Processes in Daily Life</td>
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<tr>
<td>10:45am-12:15pm</td>
<td>Henderson 108</td>
<td>Paper Session #7: Time and Variability Based Analyses in Ambulatory Assessment</td>
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<tr>
<td>12:30pm-2:00pm</td>
<td>Henderson 117</td>
<td>Paper Session #8: New Approaches in Assessment and Intervention</td>
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<tr>
<td>2:15pm-3:30pm</td>
<td>Pike Auditorium – BBH 022</td>
<td>Lunch Break (On your own)</td>
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<tr>
<td>3:45pm-5:00pm</td>
<td>HHD-East 211</td>
<td>Towards Sensor-Triggered Just-In-Time Mobile Health Interventions</td>
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<tr>
<td>5:15pm-7:00pm</td>
<td>HUB Room 129 ABC</td>
<td>Conference Reception, Refreshments, and Socializing</td>
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<tr>
<td>7:30pm-10:30pm</td>
<td>Nittany Lion Inn</td>
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**Saturday, June 27th**

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<tr>
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<td>Breakfast &amp; Conference Registration</td>
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<tr>
<td>9:00am-10:15am</td>
<td>Pike Auditorium – BBH 022</td>
<td>Keynote Address: David Mohr Behavioral Intervention Technologies: Into the Fabric of Our Lives</td>
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<tr>
<td>10:30am-12:15pm</td>
<td>HHD-East 211</td>
<td>Symposium: Ambulatory Assessment of Supportive Relationships with Close others and Digital Support Systems: Lessons Learned for Well-being and Health</td>
</tr>
<tr>
<td>10:30am-12:15pm</td>
<td>HHD-East 323</td>
<td>Paper Session #9: New Approaches in Ambulatory Assessment</td>
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<tr>
<td>12:30pm-2:00pm</td>
<td>HHD-East 322</td>
<td>Paper Session #10: Physical Activity</td>
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<tr>
<td>12:30pm-2:00pm</td>
<td>HHD-East 322</td>
<td>Paper Session #11: Ambulatory Assessment in Psychotherapy</td>
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<td>2:00pm-4:00pm</td>
<td>Pike Auditorium – BBH 022</td>
<td>General Assembly &amp; Awards Ceremony</td>
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<td>Executive Committee Meeting (by invitation only)</td>
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We apologize in advance for the on-campus construction!


BBH [BBH]: Biobehavioral Health
HHD-East [HHD]: Health & Human Development East
Henderson [HND]: Henderson (or Henderson North)
HUB [HUB]: Hetzl Union Building
Willard [WLD]: Willard

Nittany Lion Inn [NLI]: Nittany Lion Inn
### Preconference workshops *(by registration only)*

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<tr>
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<td>Willard 260</td>
<td>Conference Registration</td>
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</table>
| 9:00am – 12:30pm | Willard 073 | Ecological Momentary Assessment Boot Camp   
|               |           | Presented by: Kristin E. Heron         |
| 11:30pm -- 1:00pm | Willard 260 | Conference Registration & Lunch |
|               |           | A boxed lunch will be provided to registered workshop attendees courtesy of: |
| 1:00pm – 4:30pm | Willard 073 | Statistical Power Analysis for Ambulatory Assessment Studies   
|               |           | Presented by: Niall Bolger & Jean-Philippe Laurenceau |
| 1:00pm – 4:30pm | Willard 075 | Advanced Analytics for Intensive Longitudinal Data Analysis   
|               |           | Presented by: Stephanie T. Lanza & Michael A. Russell |
| 5:00pm-6:00pm | Nittany Lion Inn – Faculty Staff Club | Pre-Conference Workshop Attendee Reception |

For information about the Methodology center, go to [http://methodology.psu.edu](http://methodology.psu.edu)
Thursday, June 25th 2015

7:00am – 9:00am  BBH 1st Floor Lobby
Conference Registration

7:00am – 8:00am  BBH Basement Lobby
Breakfast

8:00am-9:00am  Pike Auditorium - BBH 022
Welcome Ceremony and Opening Remarks

9:00am-10:15am  Pike Auditorium - BBH 022
Keynote Address: Dr. Rosalind Picard
Surprise Findings from a Wrist-Wearable Sensor

10:30am-12:30pm  Pike Auditorium - BBH 022
Invited Symposium:
Identifying, Explicating, and Diagnosing Mental Disorders: Applying Ambulatory Assessments to Improve Clinical Care

Session Chair: Matthew Zawadzki  Discussant: David Mohr

Mental disorders are often diagnosed using relatively static criteria, with diagnoses made in an all-or-nothing fashion. Moreover, the tracking and reporting of symptoms used to make diagnoses typically occur in neutral or clinical environments that are separate from patients’ everyday lives. Yet with the increasing accessibility of ambulatory methodologies and their rising prevalence in tracking mood, behaviors, and symptoms in patients, research has demonstrated that great variability can exist for a particular mental disorder across not only individuals but within any patient over time. This symposium brings together cutting edge research that challenges and expands traditional notions of how to identify, explicate, and diagnose mental disorders, highlighting the many ways that ambulatory assessments can be utilized to improve clinical care. Presentations range from discussing different methodologies to measure and track mental illness to better characterizing a range of disorders to rethinking these traditional classifications all together; all results are discussed in terms of the implications for advancing our current understanding on mental illness.
1. **Making the Most of Your Rich EMA Data: Innovative Outcomes**
   Abstract #: A91
   Author(s): Arthur A. Stone & Stefan Schneider

2. **Using ambulatory assessments for precision diagnostics: HowNutsAreTheDutch**
   Abstract #: A90
   Author(s): Elisabeth H. Bos, Lian van der Krieke, Ando Emerencia, & Peter de Jonge

3. **(Innovative) Sampling strategies to investigate real-life psychopathology**
   Abstract #: A92
   Author: Ulrich Ebner-Priemer

4. **Mental disorders as complex dynamical systems: Empirical support from ESM studies**
   Abstract #: A93
   Author(s): Marieke Wichers, Marten Scheffer, Hanneke Wigman, & Denny Borsboom

12:30pm-2:00pm  Lunch Break (On your own)

2:15pm-3:30pm  HHD-East 211

**Paper Session #1: Clinically Relevant Behaviors**

1. **Is changing one's daily life behavior valuable in depression? Prospective long-term and day-level associations**
   Abstract #: A2
   Author(s): Evelien Snippe, Claudia J.P. Simons, Jessica A. Hartmann, Claudia Lothmann, Ingrid M. A. Kramer, Sanne Booij, Wolfgang Viechtbauer, Philippe Delespaul, Inez Myin-Germeys, & Marieke Wichers

2. **Alcohol Craving and Consumption in Everyday Life**
   Abstract #: A33
   Author(s): Timothy J. Trull, Sean P. Lane, Ryan W. Carpenter, & Kenneth J. Sher

3. **Ecological Momentary Assessment of PTSD symptoms and Sexual Risk-taking among OEF/OIF Veterans: A Pilot Study**
   Abstract #: A68
   Author(s): Anne C. Black, Marc I. Rosen, & Ned L. Cooney

4. **Prospective measurement of daily health behaviors: Patterns of missing data, periodicity and reactivity in an online daily diary study of gay and bisexual men**
   Abstract #: A25
   Author(s): H. Jonathon Rendina, Ana Ventuneac, Christian Grov, Brian Mustanski, & Jeffrey T. Parsons
Paper Session #2: Analytic Approaches to Ambulatory Assessment Data

1. *Using multilevel modeling to examine the effectiveness of Ecological Momentary Interventions*
   Abstract #: A19
   Author(s): Tanja Lischetzke, Dorota Reis, & Charlotte Arndt

   Abstract #: A67
   Author(s): Nicholas C. Jacobson, Sy-Miin Chow, & Michelle G. Newman

3. *Handling Missing-data in the Modeling of Ambulatory Assessment Data*
   Abstract #: A59
   Author(s): Linying Ji, Sy-Miin Chow, & Nicholas C. Jacobson

4. *Functional Data Analysis of Electrodermal Activity Data Collected via a Biosensor*
   Abstract #: A56
   Author(s): Donna L. Coffman, Noelle Leonard, Rich Fletcher, Chuck Cleland, Rasheeda Salaam, & Marya Gwadz

Paper Session #3: Ambulatory Assessment in Family and Developmental Contexts

1. *The Correlates and Predictive Validity of Automatic Behaviors and Coping Strategies among Couples Coping with Breast Cancer*
   Abstract #: A10
   Author(s): Megan L. Robbins

2. *Assessing Coparenting Quality in Mothers and Fathers in Daily Life*
   Abstract #: A51
   Author(s): Brandon T. McDaniel & Douglas M. Teti

3. *Engagement with and practice of parenting skills in a family preventive intervention: A Within-person Variability Approach*
   Abstract #: A70
   Author(s): Katharine T. Bamberger, Nilam Ram, & Doug Coatsworth

4. *Ambulatory Assessment in the Elderly*
   Abstract #: A8
   Author(s): Anna Schloemann & Christian Rietz
3:45pm – 5:00pm HHD-East 211

Paper Session #4: Psychophysiology in Field Settings

1. Examining the effects of fear habituation and multiple contexts on situational exposure outcomes in the field
   Abstract #: A73
   Author(s): Andrew J. White, Dieter Kleinböhl, Thomas Lang, Alfons O. Hamm, Alexander L. Gerlach, & Georg W. Alpers

2. Heritability and temporal stability of ambulatory autonomic stress reactivity in unstructured 24-h recordings
   Abstract #: A4
   Author(s): Melanie Neijts, Rene van Lien, Nina Kupper, Dorret Boomsma, Gonneke Willemsen, & Eco de Geus

3. What are the psychophysiological reactions to a fall from 30 meters altitude? A field experiment with climbers
   Abstract #: A27
   Author(s): Peter Wilhelm, Pirmin Bertle, & Jonas Hoffmann

4. Ecological validation of the ABSP baseball "mental toughness" paradigm using ambulatory biomarker-based assessment and mental training procedures during official competition
   Abstract #: A32
   Author(s): Roland A. Carlstedt, Casey Bosquez, Ellie Rawski, Naomi Friedberg, Peter Rodeka, Ariel Guerrero, & Marc Prine

3:45pm – 5:00pm HHD-East 323

Paper Session #5: Stress and Coping

1. Social integration moderates the effects of role-related stressors on momentary affect during daily life: An Ecological Momentary Assessment (EMA) study
   Abstract #: A45
   Author(s): Thomas W. Kamarck, Saul Shiffman, & Sheldon Cohen

2. The Buffering Effects of Prosocial Behaviors on Stress Effects in Daily Life
   Abstract #: A62
   Author(s): Emily B. Ansell, Elizabeth B. Raposa, & Holly B. Laws
3. *Pairing Ambulatory and Global Assessments to Better Understand Stress-Health Relationships*
Abstract #: A78
Author(s): Vanessa Juth, Matthew J. Zawadzki, & Joshua M. Smyth

4. *Psychotic and affective reactivity to daily life and experimental social stress in second-generation Moroccan-Dutch men*
Abstract #: A34
Author(s): Martin Gevonden, Inez Myin-Germeys, Marieke Wichers, Jan Booij, Wim van den Brink, Ruud van Winkel, & Jean-Paul Selten

3:45pm – 5:00pm  HHD-East 322

**Paper Session #6: Sleep**

1. *Examining Sleep and Stress Physiology Using a Modified Ecological Momentary Assessment Approach*
Abstract #: A65
Author(s): Scott A. Van Lenten & Leah Doane

2. *21-days of Monitoring: Using actigraphy to elucidate the relations between physical activity, sleep and BMI in middle-aged women*
Abstract #: A47
Author(s): Moë Kishida & Steriani Elavsky

3. *Temporal order of change in sleep quality and positive affect in major depressed patients and healthy controls*
Abstract #: A44
Author(s): Maria E.J. Bouwmans, Elisabeth H. Bos, Albertine J. Oldehinkel, & Peter de Jonge

4. *Bidirectional Associations of Sleep and Emotions in Daily Life across a Week & A Randomized Workplace Intervention Improves Actigraphic Sleep across a Year*
Abstract #: A94
Author(s): Orfeu M. Buxton
5:15pm – 6:30pm        Pike Auditorium - BBH 022


Stefan Debener
EEG to Take Away: Towards Truly Mobile Brain Activity Monitoring
All established technologies for the non-invasive recording of human brain activity suffer from the drawback that human motion is not well tolerated. Indeed, behavioral assessment and environmental complexity are heavily restricted in current neurocognitive studies. I will report on the development and validation of a miniaturized, wireless and smartphone-operated EEG recording system. The system features unobtrusive, near-invisible data acquisition and can be used in real-life settings, such as walking around. Our outdoor studies on auditory attention support the view that the monitoring of cognitive states during everyday activity is within reach.

Martin Sliwinski
The Feasibility and Utility of Using Ambulatory Methods to Assess Cognitive Function in Daily Life
Traditional approaches to cognitive assessment take place in physical and social environments that are fundamentally dissimilar to those in which people perform cognitively demanding tasks in their daily lives. Because human cognition is contingent on situational factors (e.g., fatigue and stress) repeated ambulatory assessments may improve ecological validity by measuring cognitive function in the context of these internal and external factors. We present evidence that brief cognitive assessments made in naturalistic settings can be highly reliable, construct valid, and provide "added-value" to traditional cognitive assessments made in controlled laboratory or clinic settings.
Friday, June 26th 2015

7:00am – 9:00am  BBH 1st Floor Lobby

Conference Registration

7:00am – 9:00am  BBH Basement Lobby

Breakfast

9:00am-10:30pm  Pike Auditorium - BBH 022

Symposium: Assessing Dyadic Processes in Daily Life

Session Chair: Petra Klumb  Discussant: Peter Wilhelm

Our daily lives unfold in connection with others and at the core of these relationships are dyadic interactions. This symposium assembles examples of dyads from the family (Almeida et al., Laurenceau et al., Timmons et al.) and the work context (Klumb et al.). Research using ambulatory assessments has shown within-person associations between mental and physical states. Here, we enlarge the focus to dyadic phenomena such as synchrony (within-dyad associations of daily diurnal cortisol (parent-child dyads, Almeida et al.) or electrodermal activity (romantic partners, Timmons et al.), congruence (within-couple associations of social support, Laurenceau et al.), and accuracy/similarity (within-dyad correlations between self- and other-ratings of internal states provided in the course of shift handovers, Klumb et al.). Some analyses are based on the standard dyadic design (Almeida et al., Bolger et al., Timmons et al.) others employ the Social Relations Model (Klumb et al.). Goals of the symposium are (a) to present these social phenomena that still add to the richness of ambulatory data, (b) discuss methodological challenges of analyzing them, and (c) show how these dyadic characteristics help us better understand the nature of social relationships.

1. Parent-Child Synchrony in Diurnal Cortisol Patterns
   Abstract #: A80
   Author(s): David Almeida, Kimberly Walter, Susan McHale, Kelly Davis & Siwei Liu

2. Daily Emotional Support Congruence Relationship well-being in Couples Coping with Breast Cancer
   Abstract #: A81
   Author(s): Jean-Philippe Laurenceau, Amber Becher, & Niall Bolger

3. Dating Aggression and Physiological Connectedness in Everyday Life
   Abstract #: A82
   Author(s): Adela C. Timmons, Theodora Chaspari, Laura Perrone, Tiantian Feng, Shrikanth Narayanan, & Gayla Margolin
4. **Satisfaction at shift handovers: The importance of accuracy of handover partners**  
Abstract #: A83  
Author(s): Petra L. Klumb, Antje Rauers, & Chantal Nick

10:45am – 12:15pm Henderson 108

**Paper Session #7:**  
**Time and Variability Based Analyses in Ambulatory Assessment**

1. **Differential Equation Modeling Approaches to Representing Sudden Shifts in Intensive Dyadic Interaction Data**  
Abstract #: A69  
Author(s): Sy-Miin Chow, Lu Ou, Arridhana Ciptadi, Emily Prince, James M. Rehg, Agata Rozga, & Daniel S. Messinger

2. **Using Diversity as a Metric for Capturing Emotion Experiences over time**  
Abstract #: A58  
Author(s): Lizbeth Benson & Nilam Ram

3. **Using Group Iterative Multiple Model Estimation (GIMME) to study dynamic individual structures in ambulatory assessment data of psychiatric patients**  
Abstract #: A48  
Author(s): Aidan G. C. Wright, Kathleen M. Gates, Adriene M. Beltz, Peter C.M. Molenaar, & Leonard J. Simms

4. **Disentangling emotion dysregulation in Borderline Personality Disorder, Posttraumatic Stress Disorder, Bulimia Nervosa and healthy controls**  
Abstract #: A9  
Author(s): Philip S. Santangelo, Marlies Houben, Gregory Verleysen, Peter Kuppens, & Ulrich W. Ebner-Priemer

10:45am – 12:15pm Henderson 117

**Paper Session #8: New Approaches in Assessment and Intervention**

1. **Effectiveness of mobile technologies delivering Ecological Momentary Interventions for stress and anxiety: A systematic review**  
Abstract #: A77  
Author(s): Brendan Loo Gee, Kathleen M. Griffiths, & Amelia Gulliver

2. **Emotion Sense: Analyzing subjective well-being with smartphone sensor data**  
Abstract #: A42  
Author(s): Neal Lathia, Gillian M. Sandstrom, Peter J. Rentfrow, & Cecilia Mascolo

*PAPER WITHDRAWN*
3. **Personalized feedback based on momentary assessments: Problems and solutions**  
   Abstract #: A28  
   Author(s): Eeske van Roekel, Charlotte Vrijen, Vera E. Heininga, Maurits Masselink, Esther Nederhof, & Albertine J. Oldehinkel

4. **A novel approach to build Ecologic Momentary Interventions**  
   Abstract #: A64  
   Author(s): Jürgen Stumpp, Jörg Ottenbacher, Ulrich Großmann, & Stefan Hey

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**12:30pm – 2:00pm**  
Lunch Break (On your own)

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**2:15pm – 3:30pm**  
Pike Auditorium - BBH 022

**Keynote Address: Santosh Kumar**  
*Towards Sensor-Triggered Just-In-Time Mobile Health Interventions*

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**3:45pm – 5:00pm**  
HHD-East 211

**Paper Session #9: New Approaches in Ambulatory Assessment**

1. **Lab vs. the "Real Life"? Multilevel structural equation modeling as an integrative framework for combining experimental and intensive longitudinal designs**  
   Abstract #: A3  
   Author(s): Andreas B. Neubauer & Andreas Voss

2. **The Daily Experience Sampling Questionnaire (DESQ): A new approach to measuring momentary well-being**  
   Abstract #: A17  
   Author(s): Christine Blome

   Abstract #: A61  
   Author(s): Jennifer Mendiola, Matthew J. Zawadzki, & William Gerin

4. **Bias in retrospective ratings of emotions: The role of momentary emotional clarity**  
   Abstract #: A40  
   Author(s): Charlotte Arndt, Tanja Lischetzke, Claudia Crayen, & Michael Eid
Paper Session #10: Physical Activity

1. What counts count. A comparison of counts and movement acceleration intensity data in the assessment of physical activity
   Abstract #: A41
   Author(s): Holger Hill, Jörg Ottenbacher, & Ulrich W. Ebner-Priemer

2. A smartphone application to measure physical activity using sensor-informed context-sensitive Ecological Momentary Assessment
   Abstract #: A24
   Author(s): Genevieve Dunton, Eldin Dzubur, & Stephen Intille

3. Modern statistical approaches for actigraphy data
   Abstract #: A71
   Author(s): Vadim Zipunnikov, Jennifer Schrack, Jeff Goldsmith, Jiawei Bai, Luigi Ferrucci, & Ciprian Crainiceanu

4. A dual process model of older adults’ sedentary behavior
   Abstract #: A79
   Author(s): Jaclyn P. Maher & David E. Conroy

Paper Session #11: Ambulatory Assessment in Psychotherapy

1. An adjunctive, smartphone-assisted intervention to increase treatment adherence in Bipolar Disorder: Open trial results
   Abstract #: A7
   Author(s): Susan J. Wenze, Michael F. Armey, & Ivan W. Miller

2. The Big Five as predictors of momentary emotions and behavior in Borderline Personality Disorder
   Abstract #: A52
   Author(s): Johanna Hepp, Ryan W. Carpenter, Sean P. Lane, & Timothy J. Trull

3. Ecological Momentary Assessment (EMA) in patient-focused psychotherapy research -- feasibility, reactivity and acceptance in an outpatient setting
   Abstract #: A1
   Author(s): Kristin Bergmann-Warnecke & Wolfgang Lutz
4. **Bio-marker-based Behavioral Medicine, Clinical & Health Psychology: Ecological Ambulatory Patient Assessment, Intervention Efficiency and Efficacy Testing**

Abstract #: A31  
Author(s): Roland A. Carlstedt

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**4:30pm – 5:00pm**  
HUB Room 129 ABC  

**Poster Presenter Setup**

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**5:15pm – 7:00pm**  
HUB Room 129 ABC  

**Ambulatory Assessment Poster Session**

*Comparing accelerometry derived moderate-to-vigorous physical activity and sedentary time with survey data of physical activity and leisure time exercise behavior*  
Abstract #: A5  
Author(s): Charlotte Huppertz, Stieneke Doornweerd, Matthijs D. van der Zee, Hidde P. van der Ploeg, Meike Bartels, & Eco J.C. de Geus

*Comparing transthoracic echocardiography and impedance cardiography; systolic time intervals and stroke volume*  
Abstract #: A12  
Author(s): Ineke Nederend, Eco de Geus, Derk Jan ten Harkel, & Nico Blom

*Measuring BDNF in saliva: Possibilities and pitfalls for ecological momentary assessment*  
Abstract #: A30  
Author(s): Charlotte Vrijen, Eeske van Roekel, & Albertine J. Oldehinkel

*The use of ambulatory real-time assessments to measure children's daily life experiences*  
Abstract #: A43  
Author(s): Saskia Euser, Rani C. Damsteegt, Marian J. Bakermans-Kranenburg, & Marinus H. van Ijzendoorn

*Associations between spontaneous physical activity and mood states in older adults: An ambulatory assessment approach in daily life*  
Abstract #: A53  
Author(s): Jinhooy Kim, Fumiharu Togo, Hiroko Shimura, Akitomo Yasunaga, Toru Nakamura, Kazuhiro Yoshiuchi, & Yoshiharu Yamamoto

*Interactive ambulatory assessment to investigate effects of cities on mental health*  
Abstract #: A35  
Author(s): Markus Reichert & Ulrich Ebner-Priemer

*Patient preferences in using an electronic pillbox after transplant*  
Abstract #: A66  
Author(s): Stephanie Chen, Josh Mervis, Yena Song, Matt Riccio, Rita Jakubowski, Shakira Riley, Eileen Scigliano, William Redd, & Gertaud Stadler
Long-term monitoring of communication, location, physical activity and mood in patients with bipolar disorders
Abstract #: A11
Author(s): Esther Muehlbauer, Ulrich Ebner-Priemer, & Emanuel Severus

The effects of craving and social contexts on intraindividual variability of positive affect among Korean American emerging adult smokers
Abstract #: A36
Author(s): Jimi Huh, Genevieve Dunton, Chih-Ping Chou, & Donald Hedeker

Associations between depressive symptoms and experience of pleasure in daily life in early and late adolescence
Abstract #: A29
Author(s): Eeske van Roekel, Elise Bennik, Jojanneke A. Bastiaansen, Maaike Verhagen, Johan Ormel, Rutger Engels, & Albertine J. Oldehinkel

Effects of daily ICT use for work purposes during non-work time on employee recovery and well-being
Abstract #: A6
Author(s): Lenka Duranova, Antje Schmitt, Johanna Braukmann, & Sandra Ohly

Can state work engagement be differentiated from state mood? An analysis of within-persons dynamics
Abstract #: A39
Author(s): Dorota Reis, Charlotte Arndt, Tanja Lischetzke, & Annekatrin Hoppe

Momentary physical pain and its relationship with negative affect in Borderline Personality Disorder
Abstract #: A26
Author(s): Ryan W. Carpenter, Sean P. Lane, Phillip K. Wood, & Timothy J. Trull

Investigating the mechanisms underlying the health-beneficial effect of music listening in daily life
Abstract #: A76
Author(s): Mario Wenzel, Alexandra Linnemann, Jennifer Grammes, Urs Nater, & Thomas Kubiak

Device-initiated versus subject-initiated diary entries: Can context explain variations in adherence to ecological momentary assessment?
Abstract #: A55
Author(s): Shayna L. Henry, Larry D. Jamner, Sarah E. Choi, & Madeleine V. Pahl

An N-of-1 trial of personalized feedback on daily dynamics of psychopathology
Abstract #: A38
Author(s): Harriette Riese, Renske Kroeze, Date van der Veen, Michelle Servaas, Jojanneke Bastiaansen, Richard Oude Voshaar, Eric Ruhe, & Robert Schoevers

Just take a moment and breathe and think: Young women with depression talk about an Ecological Momentary Intervention to reduce their HIV risk
Abstract #: A75
Author(s): Lydia Shrier & Allegra Spalding
Experiential Avoidance and Mood State in Bipolar Disorder
Abstract #: A13
Author(s): Susan J. Wenze, Michael F. Armey, & Ivan W. Miller

Solving the technical challenges of interactive ambulatory assessment
Abstract #: A60
Author(s): Jürgen Stumpp, Jörg Ottenbacher, Ulrich Großmann, & Stefan Hey

The challenges of ecologically valid interventions: Discussing compliance and non-adherence in a pilot study testing the effects of self-selected activities in everyday life
Abstract #: A63
Author(s): Marcellus M. Merritt & Matthew J. Zawadzki

Event-focused indicators of mixed emotions and adjustment in emerging adults
Abstract #: A15
Author(s): Sangsun Kim, Debora J. Bell, & Jack H. Andrews

Ecological Momentary Analysis for Bipolar Disorder
Abstract #: A23
Author(s): Aubrey Reider, Sumner Schultz, Stefani Schwartz, Caitlin Millett, Sarthak Sawarkar, Venkatesh Krishnamurthy, & Erika Saunders

Beyond the road to hell: MOOCing against chronic procrastination - Ambulatory Assessment Intervention (AAI) to reduce procrastination in daily life – A pilot study
Abstract #: A16
Author(s): Eliane Dominok, Matthias F. Limberger, Sarah Holstein, & Ulrich W. Ebner-Priemer

Ambulatory Assessment Intervention (AAI) to enhance a stress reduction program for university students
Abstract #: A18
Author(s): Marie-Hélène Seidl & Ulrich W. Ebner-Priemer

Intensive ecological momentary assessment in individuals with multiple sclerosis: Acceptability, feasibility, and reactivity
Abstract #: A22
Author(s): Mitchell P. Belanger, Tiffany Braley, Susan L. Murphy, & Anna Kratz

Association between mood and heart rate variability in daily life
Abstract #: A54
Author(s): Lars Pieper, John Venz, Jana Hoyer, Catharina Voss, & Katja Beesdo-Baum

The dynamics and relations of intentions and behavior in everyday life
Abstract #: A46
Author(s): Jennifer Inauen, Gertraud Stadler, Urte Scholz, Patrick E. Shrout, & Niall Bolger

Managing basic EMA and EMI methodologies within a single user interface
Abstract #: A74
Author(s): Frank Materia, Ryan Chesnut, & Jennifer DiNallo
*Your stress is eating you? An experience sampling study on stress-related eating and its moderators using smartphones*

Abstract #: A20

Author(s): Jens Blechert, Markus Stuppner, Thomas Scherndl, Andrea H. Meyer, & Frank Wilhelm

7:30pm-10:30pm Nittany Lion Inn - Boardroom

Conference Reception, Refreshments, and Socializing

Academic space has been generously provided to host the SAA conference by the College of Health and Human Development at The Pennsylvania State University.

http://www.hhdev.psu.edu/
Saturday, June 27th 2015

7:00am – 9:00am  BBH 1st Floor Lobby
Conference Registration

7:00am – 9:00am  BBH Basement Lobby
Breakfast

9:00am – 10:15am  Pike Auditorium - BBH 022
Keynote address: David Mohr
Behavioral Intervention Technologies:
Into the Fabric of our Lives

10:30am – 12:15pm  HHD-East 211
Symposium:
Assessment of Supportive Relationships with Close Others and Digital Support Systems: Lessons Learned for Well-being and Health

Session Chair: Dominik Schoebi & Gertraud Stadler
This symposium brings together six papers that all use ambulatory assessment to study interactions with close others and digital support systems and how these interactions relate to specific or global indicators of well-being and health. Gertraud Stadler and colleagues examined daily social support and its link to accelerometer-assessed physical activity over 6 days, finding links at the within-person and between-person level. Support provision through digital health technology is the focus of the next two presentations. Frederick Muench and colleagues investigated support via text messages over 12 weeks and their potential to reduce problem drinking. Heather Cole-Lewis and colleagues examined an app-based intervention supporting smoking cessation and strategies to increase user engagement. Bonnie Le and Emily Impett studied parent-child transactions. They assessed parents’ daily goal pursuit over ten days and examined its role in parent-child interactions, and its impact on parents’ responsiveness to the child and the quality of the parent-child relationships. Finally, two studies focused on couple relationships. Ariela Pagani and colleagues studied daily positive interactions in long-term couple relationships in a two-week momentary assessment study. The data emphasize the crucial role of explicitness in the communication of positive events with respect to the impact of the capitalization process for daily well-being. Finally, Tamara Luginbuehl and Dominik Schoebi examined couples’ emotional dynamics in a four weeks momentary assessment study, and investigated how emotional changeability mapped on responsiveness and reactivity to relational events, and on momentary and global indicators of interpersonal adjustment.
1. Receiving daily support is associated with higher accelerometer-assessed activity
   Abstract #: A84
   Author(s): Gertraud Stadler, Edy Moulton-Tetlock, & Yaena Song

2. Weekly drinking outcomes predict assessment and intervention engagement in mobile interventions
   Abstract #: A85
   Author(s): Frederick Muench

3. Analyzing real-world user data for a mobile app to optimize the design of a national ecological momentary intervention supporting smoking cessation
   Abstract #: A86
   Author(s): Heather Cole-Lewis, Erik Augustson, Yvonne Hunt, Brian Keefe, Amy Sanders, & Mary Schwarz

4. An interpersonal goals perspective on parenting: caregiving goals shape parental well-being, responsiveness, and the quality of parent-child bonds
   Abstract #: A87
   Author(s): Bonnie M. Le & Emily A. Impett

5. When good things happen: Explicit capitalization attempts of positive events promote intimate partner’s daily well-being
   Abstract #: A88
   Author(s): Ariela F. Pagani, Silvia Donato, Miriam Parise, Raffaella Iafrate, Anna Berton, & Dominik Schoebi

6. Emotion dynamics and emotional reactivity to interpersonal events
   Abstract #: A89
   Author(s): Tamara Luginbuehl & Dominik Schoebi

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10:30am – 12:15pm    HHD-East 323
Paper Session #12: Health Behaviors in Daily Life

1. The Development and Evaluation of Physical Activity Intervention Using Real-Time Feedback via Smartphones
   Abstract #: A95
   Author(s): Kristin Heron, Joshua Smyth, David Conroy, Christopher Sciamanna, & Liza Rovniak

2. Everyday associations between precipitation and physical activity in older adults: On the moderating role of age and intentions
   Abstract #: A14
   Author(s): Christiane Hoppmann, Jessica Lee, Jochen P. Ziegelmann, Peter Graf, Karim Khan, & Maureen Ashe
3. **Using Dynamic Real-time Ambulatory Methodology to examine the effects of stress and socioemotional wellbeing on weight-related behaviors in first-year college students**  
   Abstract #: A50  
   Author(s): Jacinda Li, Moé Kishida, Kamila Dvorakova, Daniela Torrisi, & Jing Xu

4. **Eat your fruits and veggies: Using daily diaries and smartphones to understand the role of fruit and vegetables in everyday well-being**  
   Abstract #: A37  
   Author(s): Tamlin S. Conner, Kate L. Brookie, Jayde A.M. Flett, & Laura M. Thompson  
   **PAPER WITHDRAWN**

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**10:30am – 12:15pm**  
**HHD-East 322**  
**Paper Session #13: Ambulatory Assessment of Mood and Health**

1. **Do some forms of pain coping weaken the association between momentary pain and physical activity in people with osteoarthritis?**  
   Abstract #: A21  
   Author(s): Anna L. Kratz, David A. Williams, Michael E. Geisser, & Susan L. Murphy

2. **Higher social rank, and not objective resources, is associated with more positive daily social interactions**  
   Abstract #: A72  
   Author(s): Jenny M. Cundiff, Thomas W. Kamarck, & Stephen B. Manuck

3. **Valence and arousal in daily life differentially predict ambulatory blood pressure**  
   Abstract #: A57  
   Author(s): Matthew J. Zawadzki, Jennifer Mendiola, & William Gerin

4. **Momentary health among patients with chronic disease as a function of anger experiences and anger expression style**  
   Abstract #: A49  
   Author(s): Michael A. Russell & Joshua M. Smyth

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**12:30pm – 2:00pm**  
**Pike Auditorium – BBH 022**

**General Assembly & Awards Ceremony**

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**2:00pm – 4:00pm**

**Executive Committee Meeting**  
*(by invitation only)*