SOCIETY FOR
PSYCHOPHYSIOLOGICAL
RESEARCH
52nd Annual Meeting

The Roosevelt New Orleans Hotel
New Orleans, Louisiana
September 19–23, 2012

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SOCIETY FOR PSYCHOPHYSIOLOGICAL RESEARCH

The purpose of the Society for Psychophysiological Research is to foster research on the interrelationships between the physiological and psychological aspects of behavior. Allied disciplines include psychology, physiology, neuroscience, medicine and engineering. To promote this purpose, the Society publishes scientific literature and holds annual meetings for presentation and discussion of topics, including instrumentation, methodology, experimental results, and theoretical interpretations.

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Howard University
Wendy Heller
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Ad Hoc Committee on EEG/ERP Measures
Andreas Keil
University of Florida

Ad Hoc Committee on Electrodermal Measures
Wolf Boucsein
University of Wuppertal

Ad Hoc Committee on Funding for Psychophysiological Research
Wendy D’Andrea
The New School for Social Research
Philip Gable
The University of Alabama

Liaison to AAAS
Frances Gabbay
Uniformed Services University of Health Sciences
Dr. Boucsein passed away in January 2012 after a long and distinguished career. We are indebted to Dr. Boucsein for guiding the Committee’s Recommendations report (Boucsein et al., Psychophysiology, in press), and for his many contributions to the Society and to the field as a whole.

PAST OFFICERS

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Peter H. Venables 1976–77
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Beatrice C. Lacey 1978–79
Emanuel Donchin 1979–80
David T. Lykken 1980–81
Enoch Callaway 1981–82
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Edward S. Katkin 1983–84
Arne Ohman 1984–85
Jasper Brener 1985–86
Don C. Fowles 1986–87
Michael G.H. Coles 1987–88
Michael E. Dawson 1988–89
David A.T. Siddle 1989–90
J. Richard Jennings 1990–91
Cornelis H.M. Brunia 1991–92
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Gregory A. Miller 1994–95
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Bruce N. Cuthbert 2003–04
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Gabriele Gratton 2009–10
Gary Berntson 2010–11

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David Shapiro 1978–86
Michael G.H. Coles 1987–93
Gregory A. Miller 1999–02
Margaret M. Bradley 2003–05

AWARDS FOR DISTINGUISHED CONTRIBUTIONS TO PSYCHOPHYSIOLOGY

Chester W. Darrow 1969
R.C. Davis 1969
Marion A. Wenger 1970
John I. Lacey 1970
Albert F. Ax 1973
Robert Edelberg 1974
William W. Grings 1978
Frances K. Graham 1981
Donald B. Lindsley 1984
Paul A. Obrist 1985
Peter H. Venables 1987
David Shapiro 1988
E.N. Sokolow 1988
Peter J. Lang 1990
John Stern 1993
Emanuel Donchin 1994
Risto Naatanen 1995
David T. Lykken 1998
Steven A. Hillyard 1999
John T. Cacioppo 2000
Arne Ohman 2001
Michael G.H. Coles 2002
Robert M. Stern 2004
Cornelis H.M. Brunia 2005
Marta Kutas 2007
William G. Iacono 2008
Niels Birbaumer 2009
Judith M. Ford 2010
Margaret M. Bradley 2011
AWARDS FOR DISTINGUISHED EARLY CAREER CONTRIBUTIONS TO PSYCHOPHYSIOLOGY

Connie C. Duncan 1980
Kathleen C. Light 1980
John T. Cacioppo 1981
William G. Iacono 1982
Graham Turpin 1984
Ray Johnson, Jr. 1985
Alan J. Fridlund 1986
J. Rick Turner 1988
Ulf Dimberg 1988
Kimmo Alho 1990
Thomas W. Kamarck 1991
Steven A. Hackley 1992
George R. Mangun 1993
Christopher J. Patrick 1993
Cyma Van Petten 1994
Friedemann Pulvermuller 1995
Erich Schröger 1996
Brett A. Clementz 1997
Gabriele Gratton 1997
Christopher R. France 1998
Axel Mecklinger 1999
John J.B. Allen 2000
James J. Gross 2000
Martin Heil 2001
Eddie Harmon-Jones 2002
Thomas Ritz 2003
Frank Wilhelm 2004
Kent A. Kiehl 2005
Kara Federmeier 2006
Diego Pizzagalli 2006
Bruce D. Bartholow 2007
Markus Ullsperger 2008
Sander Nieuwenhuis 2009
James Coan 2010
Eveline Crone 2011
Greg Hajcak 2012

2012–2013 FUND CONTRIBUTORS

(Contributions received by June 1, 2012)

Mustafa al’Absi Bruce D. Bartholow
John J.B. Allen Gershon Ben-Shakhar
Audrey P. Anokhim W. Keith Berg
GENERAL INFORMATION

Registration

Registration will be held in the Roosevelt Pre-Function Foyer at The Roosevelt New Orleans Hotel during the following hours:

- Wednesday, September 19: 4:00 P.M.–8:00 P.M.
- Thursday, September 20: 7:15 A.M.–6:30 P.M.
- Friday, September 21: 8:00 A.M.–5:00 P.M.
- Saturday, September 22: 8:30 A.M.–12:30 P.M.

Audible signals from pagers and cellular phones may be a distraction to the speaker as well as the audience. Please program these accordingly, and take phone calls outside of the meeting rooms. Thank you!
Poster Sessions

Poster sessions will be held in the Roosevelt Ballroom at The Roosevelt New Orleans Hotel. The Exhibit Hall is also located in the Roosevelt Ballroom.

The schedule for poster presentation setup and dismantle is as follows:

**Wednesday, September 19**
Poster Session I

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:00 P.M.–6:00 P.M.</td>
<td>Posters Assembled</td>
</tr>
<tr>
<td>6:00 P.M.–7:00 P.M.</td>
<td>Posters Available for Viewing</td>
</tr>
<tr>
<td>7:00 P.M.–9:00 P.M.</td>
<td>Authors Present for Discussion and Questions</td>
</tr>
<tr>
<td>9:00 P.M.–10:00 P.M.</td>
<td>Dismantle Posters</td>
</tr>
</tbody>
</table>

**Thursday, September 20**
Poster Session II

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 A.M.–10:00 A.M.</td>
<td>Posters Assembled</td>
</tr>
<tr>
<td>10:00 A.M.–6:15 P.M.</td>
<td>Posters Available for Viewing</td>
</tr>
<tr>
<td>6:15 P.M.–8:15 P.M.</td>
<td>Authors Present for Discussion and Questions</td>
</tr>
<tr>
<td>8:15 P.M.–9:15 P.M.</td>
<td>Dismantle Posters</td>
</tr>
</tbody>
</table>

**Friday, September 21**
Poster Session III

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 A.M.–10:00 A.M.</td>
<td>Posters Assembled</td>
</tr>
<tr>
<td>10:00 A.M.–6:30 P.M.</td>
<td>Posters Available for Viewing</td>
</tr>
<tr>
<td>6:30 P.M.–8:30 P.M.</td>
<td>Authors Present for Discussion and Questions</td>
</tr>
<tr>
<td>8:30 P.M.–9:30 P.M.</td>
<td>Dismantle Posters</td>
</tr>
</tbody>
</table>

**Saturday, September 22**
Poster Session IV

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 A.M.–10:00 A.M.</td>
<td>Posters Assembled</td>
</tr>
<tr>
<td>10:00 A.M.–2:30 P.M.</td>
<td>Posters Available for Viewing</td>
</tr>
<tr>
<td>2:30 P.M.–4:30 P.M.</td>
<td>Authors Present for Discussion and Questions</td>
</tr>
<tr>
<td>4:30 P.M.–5:30 P.M.</td>
<td>Dismantle Posters</td>
</tr>
</tbody>
</table>

All posters must be removed during the designated dismantle time for each session. Thank you!
Announcements

You are invited to use the bulletin board near the SPR Registration Desk to post the following information:

- Employment Opportunities
- Announcements of Social Activities
- Special Interest Lunches or Dinners
- Messages to Attendees

Publication of Abstracts

Abstracts of papers presented in the symposia and the poster sessions are published in the September 2012 supplement volume of *Psychophysiology*. Copies of the supplement are available at the registration desk.

COMMITTEE MEETINGS

Please confirm the time and place of each meeting with the chair of the committee.

Board of Directors

**President: Christopher Patrick** (cpatrick@psy.fsu.edu)

Wednesday, 12:00 noon–5:00 P.M.
Sunday, 9:00 A.M.–12:30 P.M.

Public Relations Committee

**Chair: Greg Hajcak** (hajcak@gmail.com)

Wednesday, 5:00 P.M.–6:00 P.M.

2012 Program Committee

**Chair: Greg Hajcak** (hajcak@gmail.com)

Thursday, 11:30 A.M.–1:00 P.M. (Lunch)
Please meet in the hotel lobby at 11:15 A.M.

Archives Committee

**Chair: Louis G. Tassinary** (ltassinary@mac.com)

Thursday, 11:45 A.M.–1:00 P.M. (Lunch)
Please meet in the hotel lobby at 11:30 A.M.

The Psychophysiology Board of Associate Editors

**Chair: Robert F. Simons** (rsimons@psych.udel.edu)

Thursday, 5:00 P.M.–6:00 P.M.

Past Presidents’ Dinner

Thursday, 8:30 P.M. (Dinner)
Please meet in the hotel lobby at 8:15 P.M.
2013 Program Committee  
Chair: Andreas Löw (andreas.loew@uni-greifswald.de)  
Friday, 12:00 noon–1:30 P.M. (Lunch)  
Please meet in the hotel lobby at 11:45 A.M.

Education and Training Committee  
Chair: Heather Urry (heather.urry@tufts.edu)  
Friday, 12:00 noon–1:30 P.M. (Lunch)  
Please meet in the hotel lobby at 12:00 noon.

Outreach Committee  
Co-Chair: Eliane Volchan (evolchan@biof.ufrj.br)  
Co-Chair: Yasunori Kotani (kotani.y.aa@m.titech.ac.jp)  
Friday, 12:15 P.M. (Lunch)  
Please meet in the hotel lobby at 12:00 noon.

Student Poster Award Committee  
Chair: Gary Berntson (berntson.2@osu.edu)  
Friday, 8:30 P.M.

Committee to Promote Student Interests  
Chair: Catherine Norris  
(Catherine.j.norris@dartmouth.edu)  
Friday, 8:15 P.M.–9:15 P.M.

General Business Meeting and Luncheon  
Saturday, 12:45 P.M.–2:30 P.M.

SPECIAL INTEREST LUNCHEONS AND DINNERS

As in previous years, small group lunches and dinners may be held to provide an informal setting for people to meet and share common interests. If space remains available following advance registration, sign-up sheets will be posted in the SPR Registration Area on the announcements board.

NEW TO SPR?

If you are a student and this is your first time at an SPR conference, please feel free to approach anyone with a dot on his or her name tag. Those of us with dots are “Meet and Greet” members of the Committee to Promote Student Interests. We are here as a resource for you and are happy to answer questions, chat, introduce you to others, and/or provide more information about SPR and student opportunities (e.g., student travel awards and the student social). We hope you enjoy the conference!
This year, there will again be the opportunity to participate in the Roundtable Discussions. Each topic will be led by one or more leaders in their respective fields. To register, please contact Amy Bayer at spr@reesgroupinc.com. For questions on a particular roundtable, please contact Carien van Reekum at c.vanreekum@reading.ac.uk or Bruce Friedman at bhfriedm@vt.edu. Attendance is limited to 8 people at each roundtable. Confirm your attendance prior to Wednesday, September 5!

*Emotion Elicitation in the Lab*
(Arvid Kappas & Sylvia Kreibig)

*Impedence Cardiography*
(Kristen Salomon & Mustafa al’Absi)

*Methodological Challenges in Aging Research*
(Louise Hawkley & Robert Levenson)

*Multimodal Brain Imaging*
(Stefan Debener & Joseph Dien)

*Optical Imaging*
(Monica Fabiani & Gabriele Gratton)

*Studying Social Interactions in Neuroscience/Psychophysiology Lab Settings*
(Eric Vanman & Catherine Norris)

**EARLY CAREERS CONVERSATION HOUR**
8:15 P.M.–10:15 P.M.
Thursday, September 20
Conti Room (Mezzanine Level)

Don’t miss this opportunity to discuss early career issues with some of SPR’s leading scientists! As in past years, the first hour will be a panel discussion, followed by a breakout into small groups. If you have questions about this event or would like to RSVP, please contact Robin Nusslock by e-mail at nusslock@northwestern.edu. The deadline to register is Wednesday, September 5.
WOMEN IN SCIENCE
AND EDUCATION
LUNCH BOX DISCUSSION
12:00 noon–1:30 P.M.
Friday, September 21
Chamber II & IV (Mayor’s Suite Level)
(RSVP by Wednesday, September 5)

The Committee to Promote Student Interests will be hosting a luncheon focused on Women in Science and Education. Please join us for the Seventh Annual Women in Science lunch box discussion.

This year we are pleased to present social psychologist Dr. Jane Stout from the University of Colorado. Dr. Stout’s presentation will delve into her work on the role that group belonging plays in women opting in and out of science related fields. Specifically, in addition to talking about the latest findings in STEM research, we will discuss the role that belonging plays in women pursuing careers in science, buffers in place that lead to a sense of alienation, as well as ways to heighten women’s sense of belonging in SPR and science related fields more generally. In addition to this year’s presentation, we will also be starting up a mentorship program where senior graduate students and post-docs have an opportunity to meet with senior faculty to ask questions and seek advice about being on the job market and pursuing careers in academia.

To inquire about participating in the W.I.S.E. Committee, the mentorship program, or the luncheon more generally, please contact Erika Henry (Erika.Henry@colorado.edu). Also, please RSVP for the luncheon by Wednesday, September 5 so we can provide the appropriate amount of food and drink!

INTERNET STATION

An Internet station will be available for all attendees at the following times in the Roosevelt Ballroom (Mezzanine Level):

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wednesday, September 19</td>
<td>4:00 P.M.–9:00 P.M.</td>
</tr>
<tr>
<td>Thursday, September 20</td>
<td>8:00 A.M.–8:15 P.M.</td>
</tr>
<tr>
<td>Friday, September 21</td>
<td>8:00 A.M.–8:30 P.M.</td>
</tr>
<tr>
<td>Saturday, September 22</td>
<td>8:00 A.M.–4:30 P.M.</td>
</tr>
</tbody>
</table>
**SPEAKER READY ROOM**

If you are speaking at the meeting, plan time to visit the Speaker Ready Room to review your presentation. It will be located in the Baronne Room (Mezzanine Level) and open during the following hours:

- **Thursday, September 20**: 7:00 A.M.–5:00 P.M.
- **Friday, September 21**: 7:00 A.M.–5:00 P.M.
- **Saturday, September 22**: 7:00 A.M.–11:00 A.M.

**FUTURE ANNUAL MEETING**

**53rd SPR Annual Meeting**

October 2–6, 2013
Firenze Fiera Congress & Exhibition Center
Florence, Italy

**EXHIBITORS**

Please take time while you are at the SPR meeting to visit the exhibit area located in the Roosevelt Ballroom (Mezzanine Level). Exhibitors contribute financial support to the SPR meeting and we ask that you take a few minutes to spend time in the exhibit area looking at the products, services and equipment offered by the companies represented. Thank you!

**Open Exhibit Hours**

- **Wednesday, September 19**: 7:00 P.M.–9:00 P.M.
- **Thursday, September 20**: 9:00 A.M.–8:15 P.M.
- **Friday, September 21**: 10:00 A.M.–8:30 P.M.
SPR 2012 Hotel Floor Plans
The Roosevelt Hotel, New Orleans, LA

MEZZANINE LEVEL

MAYOR’S SUITE LEVEL
Pre-Conference Workshop #1 (Two-Day Workshop)  
(Available for an additional fee)

INTRODUCTION TO USING ERPLAB TOOLBOX FOR ERP DATA ANALYSIS  
(Day One)

Steven J. Luck, PhD  
University of California, Davis

ERPLAB Toolbox is a free, open-source Matlab package for analyzing ERP data (downloadable at http://erpinfo.org/erplab). It is tightly integrated with EEGLAB Toolbox, extending EEGLAB’s capabilities to provide robust, industrial-strength tools for ERP processing, visualization, and analysis. A graphical user interface makes it easy for beginners to learn, and Matlab scripting provides enormous power for intermediate and advanced users. In this workshop, we will go through a set of tutorials designed to familiarize new ERPLAB users with the basic steps involved in processing, plotting, and analyzing ERPs. This will include rejecting artifacts, sorting trials for averaging, filtering, re-referencing, making difference waves, plotting, measuring amplitudes and latencies, and extracting behavioral data. We will also provide the theoretical background and practical advice that are needed when selecting various procedures and parameters. Participants will be expected to bring a laptop computer with Matlab, ERPLAB, and EEGLAB so that they can follow along with the tutorials. We will focus mostly on using the graphical user interface, but we will also provide an introduction to scripting.
Wednesday, September 19

8:30 A.M.–4:30 P.M.
Waldorf Astoria Ballroom (Mezzanine Level)

Pre-Conference Workshop #1 (Two-Day Workshop)

INTRODUCTION TO USING ERPLAB TOOLBOX FOR ERP DATA ANALYSIS
(Day Two)
Steven J. Luck, PhD
University of California, Davis

8:30 A.M.–4:30 P.M.
Orpheum Room (Second Level)

Pre-Conference Workshop #2
(Available for an additional fee)

ICA/PCA OF ERP DATA: AN EP TOOLKIT TUTORIAL WORKSHOP
Joseph Dien, PhD
University of Maryland, College Park, MD

This one-day workshop is an introduction to the use of independent components analysis (ICA) and principal components analysis (PCA) for the purposes of preprocessing data, identification of ERP components, inference testing, and enhancement of source analysis. The session will consist of a mix of lecture and hands-on tutorials. The EP Toolkit (Dien, 2010) will be used to conduct all the analyses. The EP Toolkit is an open source software package that requires Matlab (2006 or later) to run. Attendees will need to bring a laptop with Matlab if they are to participate in the tutorials. A CD with the installation files for the EP Toolkit (not including Matlab) and tutorial datasets will be provided. Attendees are also welcome to bring their own data as an alternative to the tutorial datasets.
Most psychophysiological research in which data are collected across multiple measurement points are analyzed with either repeated measures analysis of variance (ANOVA) or multivariate analysis of variance (MANOVA). Although multilevel modeling (MLM) is well suited for such data and has several advantages including less restrictive assumptions, greater statistical power, and provision for direct modeling of time-varying covariates, it is still used sparingly by psychophysicists. In this workshop, I will (1) describe different approaches to analyzing repeated measures data, including ANOVA, MANOVA, growth curve analysis (the basis of MLM), and MLM; (2) present illustrative examples of the advantages of MLM with data collected in my lab; and (3) provide a hands-on tutorial on using and interpreting results from Hierarchical Linear Modeling (HLM) software, version 7. Participants are encouraged to download the free Student Edition of HLM 7 (http://www.ssicentral.com/hlm/student.html) before arriving. Although a dataset will be provided to run practice analyses on in the afternoon, participants may also bring their own data.
Internet Station

Panel Discussion 1

PSYCHOPHYSIOLOGY AT A PRIMARILY UNDERGRADUATE INSTITUTION: TEACHING AND RESEARCH
Chair: Echo E. Leaver
University of South Carolina, Aiken

CLINICAL PSYCHOPHYSIOLOGY IN A PUI SETTING
Sarah Sass
University of Texas at Tyler

FUNDING, ACCESSIBILITY, AND RESOURCES FOR PSYCHOPHYSIOLOGY RESEARCH WITH MINORITY STUDENTS
Echo E. Leaver
University of South Carolina, Aiken

ENGAGING UNDERGRADUATE STUDENTS IN THE RESEARCH PROCESS
Jeffrey J. Sable
University of Memphis

MAINTAINING A PRODUCTIVE RESEARCH LAB UTILIZING UNDERGRADUATES AND MASTERS STUDENTS
Paul D. Kieffaber
College of William & Mary

DEVELOPING A COMMUNITY OF FACULTY AND STUDENTS AT A PUBLIC PUI FOR RESEARCH IN PSYCHOPHYSIOLOGY AND COGNITIVE NEUROSCIENCE
Sarah Wood & Michael P.W. Donnelly
University of Wisconsin, Stout
Roundtable Discussion

EEG/ERP PUBLICATION GUIDELINES

Chair: Andreas Keil
University of Florida

Participants: Stefan Debener¹, Gabriele Gratton², Markus Junghöfer³, Emily S. Kappenman⁴, Steven J. Luck⁴, Phan Luu⁵, Gregory A. Miller⁶, and Cindy M. Yee⁷

¹University of Oldenburg, ²University of Illinois at Urbana-Champaign, ³University of Muenster, ⁴University of California, Davis, ⁵University of Oregon and Electrical Geodesics, Inc., ⁶University of Delaware, ⁷University of California, Los Angeles

7:00 p.m.–9:00 p.m.
Roosevelt Ballroom (Mezzanine Level)

Opening Reception
Exhibits Open

7:00 p.m.–9:00 p.m.
Roosevelt Ballroom (Mezzanine Level)

Poster Session I
Thursday, September 20

7:15 A.M.–6:30 P.M.
Roosevelt Foyer (Mezzanine Level)

Registration Open

8:00 A.M.–8:15 P.M.
Roosevelt Ballroom (Mezzanine Level)

Internet Station

8:00 A.M.–8:15 A.M.
Crescent City Ballroom (Mezzanine Level)

Welcome and Introductory Remarks
Christopher Patrick, PhD
Florida State University

8:15 A.M.–9:15 A.M.
Crescent City Ballroom (Mezzanine Level)

Invited Address

IMAGING DISEASES OF POOR SELF-CONTROL
Nora D. Volkow, MD, PhD
Director of the National Institute on Drug Abuse (NIDA), Bethesda, Maryland

9:00 A.M.–8:15 P.M.
Roosevelt Ballroom (Mezzanine Level)

Exhibits Open

9:15 A.M.–9:45 A.M.
Roosevelt Ballroom (Mezzanine Level)

Refreshment Break

9:45 A.M.–11:30 A.M.
Crescent City Ballroom (Mezzanine Level)

Symposium 1.1

SLEEP, LEARNING, AND INSIGHT
Chair: Rolf Verleger
University of Lübeck
INCREASED ALPHA (8-12 HZ) ACTIVITY DURING SLOW-WAVE SLEEP AS A MARKER FOR THE TRANSITION FROM IMPLICIT KNOWLEDGE TO EXPLICIT INSIGHT
Juliana Yordanova¹, Vasil Kolev¹, Ullrich Wagner², Jan Born², & Rolf Verleger²
¹Academy of Sciences Sofia, ²Charité - University Medicine Berlin, ³University of Tübingen, ⁴University of Lübeck

SLEEP SELECTIVELY BENEFITS EMOTIONAL ASPECTS OF SCENES: BEHAVIORAL AND NEURAL EVIDENCE
Jessica D. Payne¹ & Elizabeth A. Kensinger²
¹University of Notre Dame, ²Boston College

MEMORY STABILIZATION WITH TARGETED REACTIVATION DURING HUMAN SLOW-WAVE SLEEP
Atsuko Takashima¹, Eelco V. van Dongen¹, Markus Barth¹, Lothar R. Schad², Jascha Zapp², Ken A. Paller³, & Guillén Fernández¹
¹Donders Institute for Brain, Cognition and Behaviour, Nijmegen, ²University of Heidelberg, ³Northwestern University

SLEEP AND MEMORY INTERFERENCE
Edwin M. Robertson
Harvard University

INVESTIGATING REACTIVATION OF STIMULUS-SPECIFIC ACTIVITY PATTERNS USING INTRACRANIAL EEG AND FUNCTIONAL MRI
Lorena Deuker, Thorsten Kranz, Jan Olligs, Jürgen Fell, & Nikolai Axmacher
University of Bonn

9:45 A.M.–11:30 A.M.
Waldorf Astoria Ballroom (Mezzanine Level)

Symposium 1.2

FUNCTIONAL CONNECTIVITY AND THE STUDY OF PSYCHOPATHOLOGY
Chair: Michael S. Gaffrey
Washington University School of Medicine
A RESTING STATE FUNCTIONAL CONNECTIVITY STUDY OF THE DEFAULT MODE NETWORK IN DEPRESSED PRESCHOOLERS
Michael S. Gaffrey¹, Deanna M. Barch², & Joan L. Luby¹
¹Washington University School of Medicine, ²Washington University in St. Louis

AMYGDALA ACTIVATION AND PREFRONTAL CORTEX FUNCTIONAL CONNECTIVITY IN YOUTH WITH AUTISM SPECTRUM DISORDERS
Christopher S. Monk, Johnna R. Swartz, Jillian L. Wiggins, Melisa Carrasco, & Catherine Lord
University of Michigan

WORKING MEMORY RELATED BRAIN NETWORK CONNECTIVITY IN INDIVIDUALS WITH SCHIZOPHRENIA AND THEIR SIBLINGS
Deanna M. Barch¹ & Grega Repovs²
¹Washington University in St. Louis, ²University of Ljubljana

DELETERIOUS RESTING-STATE CONNECTIVITY IN STIMULANT DEPENDENCE
Angus MacDonald III¹, Jazmin Camchong², Edward Patzelt³, Krista Wisner⁴, Sheila Specker⁴, & Kelvin O. Lim¹
¹University of Minnesota and University of Minnesota School of Medicine, ²University of Minnesota School of Medicine and Neurobehavioral Research Inc., Honolulu, ³University of Minnesota, ⁴University of Minnesota School of Medicine

9:45 A.M.–11:30 A.M.
Orpheum Room (Second Level)

Symposium 1.3

THE SOCIAL FACE: THE IMPACT OF SOCIAL AND AFFECTIVE INFORMATION ON FACE AND CONTEXT PROCESSING
Chairs: Matthias J. Wieser¹ & Florian Bublatzky²
¹University of Würzburg, ²University of Mannheim
TOUCHED BY THE SCENT OF A MAN: PHEROMONE ENHANCES EARLY NEURAL PROCESSING OF MALE FACES IN WOMEN
Markus Junghöfer
University of Münster

IN THE SIGHT OF LOVE: CENTRAL AND PERIPHERAL REACTIONS IN EMOTION-FROM-IDENTITY PROCESSES
Pedro Guerra¹, Alicia Sánchez-Adam¹, Lourdes Anllo-Vento², Inmaculada León³, Antonieta Bobes⁴, & Jaime Vila¹
¹University of Granada, ²University of Granada, Federico Olóriz Neuroscience Institute, ³University of La Laguna, ⁴Cuban Center for Neuroscience

INTENSIFIED PROCESSING OF EMOTIONALLY AND SOCIALLY SIGNIFICANT FACIAL EXPRESSIONS: AN ERP STUDY
Florian Bublatzky, Antje B.M. Gerdes, & Georg W. Alpers
University of Mannheim

PERCEPTION OF FACIAL EXPRESSIONS IN VISUAL CONTEXTS – FEARFUL FACES BROADEN ATTENTION TO POTENTIAL THREAT
Matthias J. Wieser¹ & Andreas Keil²
¹University of Würzburg, ²University of Florida

EFFECTS OF EMOTIONAL FACE PROCESSING ON AUDITORY, VISUAL, AND SOMATOSENSORY INFORMATION
Judith Domínguez-Borràs¹, Sebastian Rieger¹, & Patrik Vuilleumier²
¹University of Geneva, ²University of Geneva and University Hospital of Geneva

11:30 A.M.–1:00 P.M.

Break for Lunch (on your own)
11:30 A.M.–1:00 P.M.
Chamber III (Mayor’s Suite Level)

Education and Training Committee
Roundtable Discussions

EMOTION ELICITATION IN THE LAB
Arvid Kappas & Sylvia Kreibig

IMPEDANCE CARDIOGRAPHY
Kristen Salomon & Mustafa al’Absi

METHODOLOGICAL CHALLENGES IN AGING RESEARCH
Louise Hawkley & Robert Levenson

MULTIMODAL BRAIN IMAGING
Stefan Debener & Joseph Dien

OPTICAL IMAGING
Monica Fabiani & Gabriele Gratton

STUDYING SOCIAL INTERACTION IN NEUROSCIENCE/PSYCHOPHYSIOLOGY LAB SETTINGS
Eric Vanman & Catherine Norris

11:45 A.M.–1:00 P.M.
Meet in the hotel lobby at 11:30 A.M.

Archives Committee

1:00 P.M.–2:30 P.M.
Crescent City Ballroom (Mezzanine Level)

Symposium 2.1

THE NEUROBIOLOGY OF PSYCHOPATHY
Chair: Stuart F. White
National Institute of Mental Health/NIH
Discussant: James R. Blair
National Institute of Mental Health/NIH
DISRUPTED EXPECTED-VALUE AND PREDICTION ERROR SIGNALING DURING A PASSIVE AVOIDANCE TASK IS MODULATED BY PSYCHOPATHIC TRAITS IN YOUTH WITH DISRUPTIVE BEHAVIOR DISORDERS

Stuart F. White¹, Kayla Pope², Stephen Sinclair¹, Sarah J. Brislin¹, W. C. Williams³, Daniel S. Pine¹, & James R. Blair¹

¹National Institute of Mental Health/NIH, ²Boy's Town

SHARED CIRCUITS AND EMPATHY IN PSYCHOPATHY

Harma Meffert¹, Valeria Gazzola¹, Johan A. den Boer¹, Arnold A.J. Bartels¹, & Christian Keysers²

¹University Medical Center Groningen, ²Netherlands Institute for Neuroscience

EVIDENCE FOR INCREASED NEURAL RESPONSE TO AVERSIVE STIMULI IN INDIVIDUALS WITH HEIGHTENED PSYCHOPATHIC TRAITS

Matthew S. Shane
The Mind Research Network

FACETS OF PSYCHOPATHY AND ERP RESPONSE TO AFFECTIVE PICTURES: DISTINCTIVE ASSOCIATIONS WITH LPP/SLOW WAVE AND P3/Delta COMPONENTS

Jason R. Hall, Aisha L. Howard, Eva R. Kimonis, & Christopher J. Patrick
University of South Florida

TRIARCHIC CONCEPTUALIZATION OF PSYCHOPATHY: BOLDNESS, MEANNESS AND DISINHIBITION ARE DIFFERENTIALLY RELATED TO HEART RATE AND ELECTRODERMAL ACTIVITY IN MALES AND FEMALES

Josanna van Dongen¹, Joke Tulen², Hugo van Steenis², Andre Wierdsma², & Hjalmar van Marle³

¹Erasmus Medical Center & University of Rotterdam, ²Erasmus Medical Center, ³University of Rotterdam
Symposium 2.2

NEW DEVELOPMENTS IN THE PSYCHOPHYSIOLOGY OF AUTISM SPECTRUM DISORDERS
Chair: Bruce H. Friedman
Virginia Tech
Discussant: Stephen J. Sheinkopf
Brown Medical School

PROCESSING OF EMOTIONAL FACES AND VOICES IN AUTISM SPECTRUM DISORDERS: ERP CORRELATES AND INTERACTION WITH SOCIAL KNOWLEDGE
Matthew D. Lerner¹, James P. Morris¹, & James C. McPartland²
¹University of Virginia, ²Yale Child Study Center

AUTONOMIC REACTIVITY AND AUDITORY PROCESSING COVARY IN AUTISM
Gregory F. Lewis¹, Kimberly McCue², Shannon Stanfill², Matthew Macellaio², & Stephen W. Porges¹
¹Research Triangle Institute International, ²University of Illinois, Chicago

AUTISM SPECTRUM DISORDERS THROUGH A NEUROPHYSIOLOGICAL LENS
Michelle A. Patriquin¹, Angela Scarpa¹, Bruce H. Friedman¹, Susan W. White¹, & Kenneth T. Kishida²
¹Virginia Tech, ²Virginia Tech Carilion Research Institute

EEG INDICES AND RESPIRATORY SINUS ARRHYTHMIA AS BIOMARKERS OF TREATMENT RESPONSE IN ADOLESCENTS WITH ASD
Amy Vaughan Van Hecke, A. Meyer, S. Stevens, B. Dolan, J. Karst, K. Schohl, S. Brockman, R. Remmel, N. Frtiz, & C. Gasaway
Marquette University
1:00 P.M.–2:30 P.M.  
Waldorf Astoria Ballroom (Mezzanine Level)

**Symposium 2.3**

**THE PRESENT AS THE PAST’S FUTURE**
Chair: Emanuel Donchin  
*University of South Florida*

**PSYCHOPATHOLOGY: DIMENSIONS TO RESEARCH DOMAIN CRITERIA**
Bruce N. Cuthbert  
*National Institute of Mental Health*

**PSYCHOPHYSIOLOGICAL CLASSICAL CONDITIONING AT THE INTERFACE OF COGNITIVE SCIENCE, NEUROSCIENCE, AND CLINICAL SCIENCE**
Michael E. Dawson  
*University of Southern California*

**MENS SANA IN CORPORE SANO: AGING, CEREBROVASCULAR HEALTH, AND CARDIORESPIRATORY FITNESS**
Monica Fabiani  
*University of Illinois at Urbana-Champaign*

**DO YOU ALWAYS HAVE TO BE SO NEGATIVE?**
Robert F. Simons  
*University of Delaware*

2:30 P.M.–3:00 P.M.  
**Roosevelt Ballroom (Mezzanine Level)**

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3:00 P.M.–4:30 P.M.  
Orpheum Room (Second Level)

**Symposium 3.1**

**EEG CONNECTIVITY AND AUTISM: METHODOLOGICAL AND CLINICAL FEATURES**
Chair: Jim Stieben  
*York University*  
Discussant: Sidney J. Segalowitz  
*Brock University*
TREATMENT-RELATED CHANGES IN EEG CONNECTIVITY IN PRESCHOOL CHILDREN WITH AUTISM
Jim Stieben & Luis Dominguez
York University

PHASE SHIFTING GRANGER CAUSALITY: A MEASURE OF DIRECTED COHERENCE
Sidney J. Segalowitz1, William J. Marshall1, & Christine L. Lackner1
1Brock University, 2University of Waterloo

RELATIONS BETWEEN BEHAVIOURAL SYMPTOMATOLOGY AND REGIONAL EEG ALPHA POWER AND COHERENCE IN ADULTS WITH AUTISM SPECTRUM DISORDER
Karen J. Mathewson1, Michelle K. Jetha2, Irene E. Drmic3, Susan E. Bryson4, Joel O. Goldberg1, & Louis A Schmidt1
1McMaster University, 2Brock University, 3York University, 4Dalhousie University

IMAGINARY COHERENCE AS A BIOMARKER OF AUTISM
Luis Dominguez1, Jim Stieben1, & Jose Velazquez2
1York University, 2University of Toronto

3:00 P.M.–4:30 P.M.
Waldorf Astoria Ballroom (Mezzanine Level)

Symposium 3.2

ERP STUDIES OF ADULT SECOND LANGUAGE ACQUISITION
Chair: Joseph Dien
University of Maryland

INTERACTIONS BETWEEN LEXICAL AND SYNTACTIC KNOWLEDGE IN ESL: ERP EVIDENCE FOR TRANSFER EFFECTS IN COMPREHENSION OF THE ENGLISH CAUSATIVE
Gwen A. Frishkoff & G. Taylor Brooks
Georgia State University
NEUROPHYSIOLOGICAL INDICES OF PROCESSING SPECTRAL VERSUS TEMPORAL INFORMATION IN NON-NATIVE SYLLABLES
Valerie L. Shafer
The Graduate Center, CUNY

PROCESSING OF TENSE VIOLATIONS BY CHINESE 2ND LANGUAGE LEARNERS OF ENGLISH
Renee Dong & Arild Hestvik
University of Delaware

ERP EVIDENCE FOR DISTINGUISHING BETWEEN ORTHOGRAPHIC/PHONOLOGICAL AND BALANCED ADULT ENGLISH READERS
Joseph Dien, Valerie Karuzis, Melody S. Berens, Polly O’Rourke, & Henk J. Haarmann
University of Maryland

3:00 P.M.–4:30 P.M.
Crescent City Ballroom (Mezzanine Level)

Symposium 3.3

TO FEAR OR NOT TO FEAR: EXCITATORY AND INHIBITORY CONDITIONING IN THE LABORATORY AND THE CLINIC
Chair: Vladimir Miskovic
University of Florida

IMPAIRED SAFETY SIGNAL PROCESSING AS A BRAIN-BASED INTERMEDIATE PHENOTYPE
Tanja Jovanovic & Seth D. Norrholm
Emory University

WHEN SAFE IS NOT ALWAYS SAFE
Alfons Hamm, Julia Wendt, Elisa Steinfurth, & Christiane Pané-Farré
University of Greifswald

THE ROLE OF CONDITIONED FEAR GENERALIZATION IN THE ANXIETY DISORDERS: A MOVE TOWARD STUDying BOTH PAVLOVIAN AND INSTRUMENTAL CONTRIBUTIONS
Shmuel Lissek
University of Minnesota, Twin Cities
PERCEIVING THREAT IN THE FACE OF SAFETY: EXCITATION AND INHIBITION OF CONDITIONED FEAR IN HUMAN VISUAL CORTEX
Vladimir Miskovic & Andreas Keil
University of Florida

4:30 P.M.–4:45 P.M.

Break

4:45 P.M.–6:15 P.M.
Crescent City Ballroom (Mezzanine Level)

Symposium 4.1

THE DEVELOPMENTAL NEUROBIOLOGY OF ADOLESCENCE: IMPLICATIONS FOR EMERGING AFFECTIVE AND BEHAVIORAL DISORDERS
Chair: Nicholas B. Allen
University of Melbourne

NEURAL RESPONSE TO REWARD AS A PREDICTOR OF RISE IN DEPRESSIVE SYMPTOMS IN ADOLESCENCE
Judith Morgan, Thomas Olino, Dana McMakin, Neal Ryan, & Erika Forbes
University of Pittsburgh

PITUITARY GLAND AND HIPPOCAMPUS VOLUMES PROSPECTIVELY PREDICT HPA-AXIS FUNCTION DURING ADOLESCENCE: SEX DIFFERENCES AND IMPLICATIONS FOR THE DEVELOPMENT OF PSYCHOPATHOLOGY
Sarah Whittle¹, Julian G. Simmons¹, Michael Kaess², & Nicholas B. Allen¹
¹University of Melbourne, ²Orygen Youth Health
COUPLING BETWEEN HYPOTHALAMIC-PITUITARY-ADRENAL AND -GONADAL AXES AMONG INCARCERATED ADOLESCENTS: THE INFLUENCE OF PSYCHOPATHIC TRAITS AND HISTORIES OF ABUSE
Megan M. Johnson¹, Andrew Dismukes¹, Michael J. Vitacco², & Elizabeth A. Shirtcliff³
¹University of New Orleans, ²Georgia Health Sciences University

DEPRESSIVE SYMPTOMS AND C-REACTIVE PROTEIN IN ADOLESCENTS: EFFECTS OF BMI AND SEX
Michelle L. Byrne, Neil O’Brien-Simpson, & Nicholas B. Allen
University of Melbourne

4:45 P.M.–6:15 P.M.
Waldorf Astoria Ballroom (Mezzanine Level)
Symposium 4.2

SOCIAL MISTAKES: SOCIAL PSYCHOLOGICAL PERSPECTIVES ON ERROR-RELATED BRAIN PROCESSES
Chair: Michael Inzlicht
University of Toronto

ERN AND THE PLACEBO: A MISATTRIBUTION APPROACH TO STUDYING THE AROUSAL PROPERTIES OF THE ERROR-RELATED NEGATIVITY
Michael Inzlicht¹ & Timour Al-Khindi²
¹University of Toronto, ²John Hopkins University

IT’S ALL IN YOUR MIND(SET): TRAIT AND STATE GROWTH MINDSET FACILITATE ADAPTIVE ERROR PROCESSING
Jason S. Moser & Hans S. Schroder
Michigan State University
KEEPING CHAOS AT BAY: MESSAGES ABOUT COMPREHENSIBLE AND INCOMPREHENSIBLE ORDER REDUCE ERN AMPLITUDE
Alexa M. Tullett\(^1\), Michael Inzlicht\(^2\), \& Aaron Kay\(^3\)
\(^1\)The University of Alabama, \(^2\)University of Toronto, \(^3\)Duke University

ERROR-RELATED BRAIN ACTIVITY REVEALS SELF-CENTRIC MOTIVATION: CULTURE MATTERS
Shinobu Kitayama \& Jiyoun Park
University of Michigan

4:45 P.M.–6:15 P.M.
Orpheum Room (Second Level)

Symposium 4.3

RECENT DEVELOPMENTS IN PSYCHOPATHOLOGY RESEARCH USING STARTLE PROBE METHODOLOGY
Chairs: Uma Vaidyanathan \& Shmuel Lissek
University of Minnesota
Discussant: Christopher J. Patrick
Florida State University

DEFENSIVE RESPONDING IN MOOD AND ANXIETY DISORDERS
Christian Grillon
National Institute of Mental Health

FEAR-POTENTIATED STARTLE TO THREAT OF SHOCK IS ASSOCIATED WITH BEHAVIORAL AVOIDANCE
Antonia N. Kaczkurkin, Eleanor I. Stahura, \& Shmuel M. Lissek
University of Minnesota

BLUNTED EMOTIONAL PROCESSING IN PATIENTS WITH NEGATIVE SYMPTOMS OF SCHIZOPHRENIA
Stephen D. Benning\(^1\), Taylor Benson\(^2\), Rachel V. Aaron\(^2\), Heath S. Nichols\(^2\), \& Sohee Park\(^2\)
\(^1\)University of Nevada, Las Vegas, \(^2\)Vanderbilt University
BRAIN AND BLINK RESPONSES TO NOISE PROBES DIFFERENTIATE PSYCHOPATHY FROM ANTISOCIAL PERSONALITY DISORDER

Uma Vaidyanathan
University of Minnesota

5:00 P.M.–6:00 P.M.
Pontalba Room (Mezzanine Level)

The Psychophysiology Board of Associate Editors

6:15 P.M.–8:15 P.M.
Roosevelt Ballroom (Mezzanine Level)

Poster Session II
Exhibits Open

8:15 P.M.–10:15 P.M.
Conti Room (Mezzanine Level)

Early Career Conversation Hour
(Pre-registration requested.)
Friday, September 21

8:00 A.M.–5:00 P.M.
Roosevelt Foyer (Mezzanine Level)

Registration Open

8:00 A.M.–8:30 P.M.
Roosevelt Ballroom (Mezzanine Level)

Internet Station

9:00 A.M.–10:30 A.M.
Crescent City Ballroom (Mezzanine Level)

Symposium 5.1

MARKERS OF ALTERED POSITIVE AND NEGATIVE REINFORCEMENT IN INDIVIDUALS AT RISK FOR SUBSTANCE DEPENDENCE

Chair: Jennifer L. Stewart
University of California, San Diego
Discussant: John J. Curtin
University of Wisconsin, Madison

SELECTIVE REDUCTION OF ANXIETY BY ALCOHOL: EVIDENCE FROM LABORATORY MANIPULATIONS OF THREAT UNCERTAINTY

Kathryn R. Hefner, Christine A. Moberg, Daniel E. Bradford, & John J. Curtin
University of Wisconsin, Madison

DISSOCIATION BETWEEN BRAIN RESPONSES TO CIGARETTE CUES AND NATURAL REWARDS IN SMOKERS

The University of Texas MD Anderson Cancer Center
YOUNG ADULTS AT RISK FOR STIMULANT DEPENDENCE EXHIBIT REWARD DYSFUNCTION DURING REINFORCEMENT LEARNING
Jennifer L. Stewart¹, Taru M. Flagan², April C. May¹, Martina Reske³, Alan N. Simmons¹, & Martin P. Paulus¹
¹University of California, San Diego, ²University of Texas at Austin, ³Institute of Neuroscience and Medicine 4, Forschungszentrum, Juelich

INDIVIDUAL DIFFERENCES IN EMOTION REGULATION, ALCOHOL, AND PERFORMANCE MONITORING
Erika A. Henry¹ & Bruce D. Bartholow²
¹University of Colorado, Boulder, ²University of Missouri, Columbia

9:00 A.M.–10:30 A.M.
Blue Room (Lobby Level)

Symposium 5.2

NEUROPHYSIOLOGICAL PROBES OF ATTACHMENT-RELATED PROCESSES
Chair: Michael J. Crowley
Yale Child Study Center

NEURAL PROCESSES UNDERLYING THE GENERALIZATION OF ATTACHMENT PATTERNS IN EARLY ADOLESCENCE: AN ERP STUDY
Lars O. White¹, Jia Wu², Jessica L. Borelli¹, Linda C. Mayes², & Michael J. Crowley²
¹University of Leipzig, ²Yale Child Study Center, ³Pomona College

ATTACHMENT AND EMOTIONAL RESPONSE TO VULNERABILITY
Jessica L. Borelli, Jessica L. West, & Nicole Weekes
Pomona College

PROBING THE NEURAL CORRELATES OF MATERNAL EXCLUSION AND REUNION IN MIDDLE CHILDHOOD
Michael J. Crowley, Tania Herrera, Jia Wu, & Linda C. Mayes
Yale Child Study Center
THE CONSEQUENCES OF ADDICTION TO THE NEUROBIOLOGY OF MATERNAL ATTACHMENT
Helena J.V. Rutherford, Marc N. Potenza, & Linda C. Mayes
Yale Child Study Center
9:00 A.M.–10:30 A.M.
Orpheum Room (Second Level)

Symposium 5.3

AN INTEGRATIVE APPROACH TO EMOTION REGULATION: MECHANISMS, INDIVIDUAL DIFFERENCES, AND DEVELOPMENTAL CONSIDERATIONS
Chairs: Markus Junghöfer & Ida Wessing
University Hospital Münster

THE NEURAL BASIS OF COGNITIVE CHANGE: REAPPRAISAL OF EMOTIONAL FACES MODULATES NEURAL SOURCE ACTIVITY IN A FRONTO-PARIETAL ATTENTION NETWORK
Ida Wessing, Tilman Fuerniss, & Markus Junghöfer
University Hospital Münster

MECHANISMS UNDERLYING THE REGULATION OF ATTENTION TOWARD EMOTIONAL STIMULI
Annmarie MacNamara & Greg Hajcak
Stony Brook University

THE BRIGHT AND DARK SIDES OF EMOTION REGULATION: NEURAL CORRELATES OF COGNITIVE REAPPRAISAL IN OPTIMISM AND WORRY
Jason S. Moser
Michigan State University

CULTURE SHAPES ELECTROCORTICAL RESPONSES DURING EMOTION SUPPRESSION
Shinobu Kitayama¹, Asuka Murata¹, & Jason S. Moser²
¹University of Michigan, ²Michigan State University
REAPPRAISAL FROM THE CRADLE TO THE ROCKING CHAIR: ERP STUDIES OF COGNITIVE EMOTION REGULATION ACROSS THE LIFESPAN
Tracy A. Dennis¹ & Jennifer M. DeCicco²
¹Hunter College, CUNY, ²The Graduate Center, CUNY

10:00 A.M.–8:30 P.M.
Roosevelt Ballroom (Mezzanine Level)

Exhibits Open

10:30 A.M.–11:00 A.M.
Roosevelt Ballroom (Mezzanine Level)

Refreshment Break

11:00 A.M.–12:00 noon
Crescent City Ballroom (Mezzanine Level)

Invited Address
ELECTROPHYSIOLOGICAL SIGNATURES OF CONSCIOUS PROCESSING
Stanislas Dehaene, PhD
Professor at the Collège de France and Director of the Cognitive Neuroimaging Unit of France’s National Medical Research Institute (INSERM)
Paris, France

12:00 noon–1:30 P.M.

Break for Lunch (on your own)

12:00 noon–1:30 P.M.
Chamber II & IV (Mayor’s Suite Level)

Women in Science and Education (W.I.S.E.)
Lunch Box Discussion
(Pre-registration required.)

12:15 P.M.–1:00 P.M.
Meet in the hotel lobby at 12:00 noon.

Outreach Committee
12:00 noon–1:30 P.M.
Meet in the hotel lobby at 12:00 noon.

Education and Training Committee

1:30 P.M.–3:00 P.M.
Crescent City Ballroom (Mezzanine Level)

Symposium 6.1

UNDERSTANDING PSYCHOPHYSIOLOGY IN DEVELOPMENTAL CONTEXT: IMPLICATIONS FOR DEVELOPMENT OF INTERNALIZING AND EXTERNALIZING SYMPTOMS

Chair: Kristin A. Buss
The Pennsylvania State University
Discussant: Kristin A. Buss
The Pennsylvania State University

RSA STABILITY, EMOTION REGULATION, AND ANXIETY IN EARLY CHILDREN
Elizabeth L. Davis & Kristin A. Buss
The Pennsylvania State University

THE PREFRONTAL CORTEX IS A MOVING TARGET IN EARLY CHILDHOOD: IMPLICATIONS OF ONGOING NEURAL MATURATION FOR ERP RESEARCH IN LONGITUDINAL STUDIES
Michelle K. Jetha¹, Lisa M. Gatzke-Kopp², & Sidney J. Segalowitz¹
¹Brock University, ²The Pennsylvania State University

INDIVIDUAL DIFFERENCES IN EMOTION REGULATION AND ANXIETY IN SCHOOL-AGED CHILDREN: CONTINUITY, CHANGE, AND NEUROPHYSIOLOGICAL MARKERS
Tracy A. Dennis¹, Jennifer M. DeCicco², Laura J. O’Toole², & Samantha Berthod²
¹Hunter College, CUNY, ²The Graduate Center, CUNY

PARASYMPATHETIC REGULATION AND ADJUSTMENT IN EARLY CHILDHOOD: THE INCREASING IMPORTANCE OF AFFECTIVE CONTEXT
Paul D. Hastings
University of California, Davis
Symposium 6.2

RECOVERY, REVISION, REINTERPRETATION, RESOLUTION? LATE FRONTAL ERP EFFECTS IN SENTENCE COMPREHENSION

Chair: Edward W. Wlotko
University of Illinois

LEXICAL VERSUS CONCEPTUAL ANTICIPATION DURING SENTENCE PROCESSING: FRONTAL POSITIVITY AND N400 ERP COMPONENTS

Cyma Van Petten¹, Barbara J. Luka², & Dianne E. Thornhill¹
¹Binghamton University, SUNY, ²Bard College

A FRONTAL ERP POSITIVITY TO INTERPRETABLE SENTENTIAL EXPECTANCY VIOLATIONS

Katherine A. DeLong & Marta Kutas
University of California, San Diego

DISTINCT LATE FRONTAL ERP EFFECTS OF PREDICTABILITY AND SEMANTIC NOVELTY

Tristan Davenport & Seana Coulson
University of California, San Diego

THE POLARITY OF PROSE: PREDICTIVE AND REINTERPRETIVE STRATEGIES IN SENTENCE COMPREHENSION ARE REFLECTED IN POSITIVE- AND NEGATIVE-GOING LATE FRONTAL ERP EFFECTS

Edward W. Wlotko
University of Illinois

MIND THE UNSELECTED MEANING: INFLUENCES OF SEMANTIC CONTEXT ON N400, SUSTAINED FRONTAL NEGATIVITY AND READING TIMES DURING AMBIGUITY RESOLUTION

Chia-lin Lee¹, Mallory Stites², & Kara D. Federmeier²
¹Moss Rehabilitation Research Institute, ²University of Illinois
Symposium 6.3

EXPERIMENTAL VALIDATION OF PSYCHOPHYSIOLOGICAL BIOMARKERS IN SCHIZOPHRENIA
Chair: Brian F. O’Donnell
Indiana University

INTERSPECIES COMPARISONS OF DEXAMPHETAMINE AND CANNABINOID EFFECTS ON PREPULSE INHIBITION OF THE STARTLE REFLEX IN HUMANS AND RODENTS: RELATIONSHIP TO SCHIZOPHRENIA
Mathew Martin-Iverson, Kyran Graham, Amal Osman, Kristina Durrance, Sarah Hescham, Joseph Lee, Rajan Iyyalol, & Matthew Albrecht
University of Western Australia

INVESTIGATING THE AMPHETAMINE MODEL OF PSYCHOSIS WITH ELECTROPHYSIOLOGICAL ENDOPHENOTYPES
Matthew Albrecht, Kate Chitty, Kyran Graham, Flavie Waters, Greg Price, Joseph Lee, Rajan Iyyalol, & Matthew Martin-Iverson
University of Western Australia

DOES THE NMDA-RECEPTOR ANTAGONIST, KETAMINE, REPRODUCE THE PATTERN OF EEG AND ERP ABNORMALITIES OBSERVED IN SCHIZOPHRENIA? A TEST OF THE NMDA-RECEPTOR HYPOFUNCTION MODEL
Daniel H. Mathalon¹, Brian J. Roach¹, Judith Jaeger², Handan Gunduz-Bruce³, John H. Krystal³, & Judith M. Ford¹
¹University of California, San Francisco, ²AstraZeneca, ³Yale University
AUDITORY STEADY STATE RESPONSE
ABNORMALITIES IN SCHIZOPHRENIA AND A NMDA ANTAGONIST RODENT MODEL
Brian F. O’Donnell1, William P. Hetrick1, Amanda R. Bolbecker1, Olga Rass1, James Millward2, Jenifer Vohs2, R. Andrew Chambers2, & Sandra L. Morzorati2
1Indiana University, 2Indiana University School of Medicine

CEREBELLAR-DEPENDENT EYEBLINK CONDITIONING: A TRANSLATIONAL BIOMARKER FOR CEREBELLAR DYSFUNCTION IN SCHIZOPHRENIA
Amanda R. Bolbecker1, William P. Hetrick1, Brian F. O’Donnell1, Jason Johanneson2, Anantha Shekhar3, Charles Goodlett4, & Alan Breier3
1Indiana University, 2Yale School of Medicine, 3Indiana University School of Medicine, 4Indiana University and Purdue University

3:00 P.M.–3:30 P.M.
Roosevelt Ballroom (Mezzanine Level)

Refreshment Break

3:30 P.M.–5:00 P.M.
Crescent City Ballroom (Mezzanine Level)

Symposium 7.1

NEUROBEHAVIORAL TRAIT CONSTRUCTS: BRIDGING THE STUDY OF INDIVIDUAL DIFFERENCES AND PSYCHOPHYSIOLOGY
Chairs: Noah C. Venables & Laura E. Drislane
Florida State University
Discussant: Bruce Cuthbert
National Institute of Mental Health

FEAR AND SADNESS DIFFERENTIALLY RELATE TO ERROR-RELATED BRAIN ACTIVITY IN PRESCHOOLERS
Jason S. Moser & Catherine E. Durbin
Michigan State University
THE ERROR-RELATED NEGATIVITY AS A NEUROPHYSIOLOGICAL INDEX OF TRAIT DEFENSIVE REACTIVITY: RELATIONSHIPS WITH DEPRESSION AND ANXIETY
Anna Weinberg, Daniel N. Klein, Roman Kotov, & Greg Hajcak
Stony Brook University

COGNITION-EMOTION INTERACTIONS IN PSYCHOPATHY AND ANTISOCIAL TRAITS: DISTINCT NEUROBIOLOGICAL PATHWAYS TO CRIMINAL AND AGGRESSIVE BEHAVIOR
Edelyn Verona, Naomi Sadeh, & Jenessa Sprague
University of Illinois at Urbana-Champaign

TRAIT DISINHIBITION LINKS EXTERNALIZING DISORDERS AND VARIANTS OF P3 RESPONSE FROM DIFFERING TASK PROCEDURES
Noah C. Venables, James Yancey, & Christopher J. Patrick
Florida State University

3:30 P.M.–5:00 P.M.
Blue Room (Lobby Level)

Symposium 7.2

THE (DYS)REGULATION OF APPROACH MOTIVATION: PERSPECTIVES FROM AFFECTIVE, CLINICAL, AND SOCIAL NEUROSCIENCE
Chairs: Philip A. Gable¹ & Dan Foti²
¹The University of Alabama, ²Stony Brook University

MOTIVATED ANGER: RELATIONSHIP BETWEEN TRAIT AND STATE APPROACH MOTIVATION AND ANGER
Philip A. Gable
The University of Alabama

MULTIPLE NEURAL INDICATORS OF DYSREGULATED APPROACH MOTIVATION IN MAJOR DEPRESSION
Dan Foti & Greg Hajcak
Stony Brook University
APPORACH-RELATED BRAIN ACTIVATION DISTINGUISHES UNIPOLAR DEPRESSION AND BIPOLAR DISORDER
Robin Nusslock
Northwestern University

DETERMINANTS OF P3 ATTENTIONAL BIAS TO SMOKING-RELATED STIMULI IN SMOKERS AND NON-SMOKERS: THE ROLE OF CRAVING AND IMAGE CONTENT
Cheryl L. Dickter & Catherine A. Forestell
College of William & Mary

MOTIVATED ATTENTION TO ALCOHOL CUES IN LOW-SENSITIVITY DRINKERS
Bruce D. Bartholow & Kimberly A. Fleming
University of Missouri

3:30 P.M.–5:00 P.M.
Orpheum Room (Second Level)

Symposium 7.3

THE PSYCHOPHYSIOLOGY OF SOCIAL PERCEPTION
Chair: David M. Amodio
New York University

STEREOTYPES FACILITATE THE VISUAL PROCESSING OF BLACK FACES: EVIDENCE FROM THE N170
Amy R. Krosch & David M. Amodio
New York University

N170 AND THE CROSS RACE EFFECT
Keith B. Senholzi & Tiffany A. Ito
University of Colorado

WHAT IS THE ROLE OF MIMICRY IN DETECTING POSED AND GENUINE SMILES?
Eric J. Vanman1, Mari Horiguchi1, Michael Philipp1, & Lucy Johnston2
1University of Queensland, 2University of Canterbury

PERSON ATTRIBUTIONS UNDER STRESS
Jennifer Kubota1, Rachel Mojdehbakhsh1, Candace Raio1, Tobias Brosch1, Jim Uleman1, & Elizabeth Phelps1
1New York University, 2University of Geneva
5:00 P.M.–5:30 P.M.

Break

5:30 P.M.–6:30 P.M.
Crescent City Ballroom (Mezzanine Level)

Invited Address

DEVELOPMENT OF FEAR-RELATED PROCESSES: FROM HUMAN IMAGING TO MOUSE GENETICS
B.J. Casey, PhD
Sackler Professor and Director of the Sackler Institute at Weill Medical College of Cornell University
New York, New York

6:30 P.M.–8:30 P.M.
Roosevelt Ballroom (Mezzanine Level)

Poster Session III
Exhibits Open

8:30 P.M.–10:00 P.M.
Chamber I (Mayor’s Suite Level)

Student Poster Award Committee Meeting

8:15 P.M.–9:15 P.M.
Producers Room (Second Level)

Committee to Promote Student Interests

10:00 P.M.–12:00 A.M.

Student Social
(location to be announced)
All students are invited!
Saturday, September 22

8:00 A.M.–4:30 P.M.
Roosevelt Ballroom (Mezzanine Level)

Internet Station

8:30 A.M.–12:30 P.M.
Roosevelt Foyer (Mezzanine Level)

Registration Open

9:00 A.M.–9:30 A.M.
Roosevelt Ballroom (Mezzanine Level)

Refreshment Break

9:30 A.M.–11:00 A.M.
Crescent City Ballroom (Mezzanine Level)

Symposium 8.1

NARRATIVE IMAGERY AND EMOTION: BASIC AND TRANSLATIONAL RESEARCH
Chair: Lisa M. McTeague
University of Florida
Discussant: Bruce N. Cuthbert
National Institute of Mental Health

FROM NARRATIVE TEXT TO EMOTIONAL IMAGERY: THE NETWORK MODEL
Peter J. Lang
University of Florida

FUNCTIONAL NEUROANATOMY OF NARRATIVE EMOTIONAL IMAGERY
Vincent D. Costa, Lisa M. McTeague, Jue Mo, Margaret M. Bradley, Mingzhou Ding, & Peter J. Lang
University of Florida

THE ANXIETY SPECTRUM AND AFFECTIVE MOBILIZATION: OPPOSING INFLUENCES OF FEAR AND MISERY
Lisa M. McTeague, Peter J. Lang, Marie-Claude Laplante, & Margaret M. Bradley
University of Florida
EMOTIONAL IMAGERY IN PATIENTS WITH ANXIETY DISORDERS: A NEW PARADIGM TO ASSESS THERAPEUTIC RESPONSES
Alfons Hamm, Anke Limberg, & Jan Richter
University of Greifswald

9:30 A.M.–11:00 A.M.
Blue Room (Lobby Level)

Symposium 8.2

MINDFULNESS-BASED INTERVENTIONS HAVE NEUROBIOLOGICAL AND PSYCHOPHYSIOLOGICAL EFFECTS

Chairs: M. Kathleen B. Lustyk¹ & Haley A.C. Douglas²
¹Seattle Pacific University and University of Washington, ²University of Washington
Discussant: Theodore P. Beauchaine
Washington State University

NEUROBIOLOGICAL MECHANISMS OF A MINDFULNESS-BASED INTEGRATIVE BODY-MIND TRAINING INTERVENTION ON DEPRESSION
Yi-Yuan Tang
Texas Tech University

MINDFUL ATTENTION REDUCES NEURAL AND SELF-REPORTED CUE-INDUCED CRAVING IN SMOKERS
Cecilia Westbrook¹, J. David Creswell², Golnaz Tabibnia², Erica Julson², Hedy Kober³, & Hilary Tindle⁴
¹University of Wisconsin, Madison, ²Carnegie Mellon University, ³Yale University, ⁴University of Pittsburgh

TONIC AND PHASIC CARDIAC VAGAL CONTROL DURING A COGNITIVE CHALLENGE IN SUBSTANCE ABUSERS TREATED WITH MINDFULNESS-BASED RELAPSE PREVENTION
M. Kathleen B. Lustyk¹, Haley A.C. Douglas², & Elizabeth Shilling³
¹Seattle Pacific University & University of Washington, ²University of Washington, ³Seattle Pacific University
INTENSIVE MEDITATION TRAINING INCREASES THE MOTIVATIONAL SALIENCE OF HUMAN SUFFERING
Brandon G. King, Anthony P. Zanesco, Phillip R. Shaver, Erika L. Rosenberg, Tonya L. Jacobs, Stephen R. Aichele, Katherine A. MacLean, David A. Bridwell, Baljinder K. Sahdra, & Clifford D. Saron
University of California, Davis; Johns Hopkins University; Mind Research Network, New Mexico; University of Western Sydney

9:30 A.M.–11:00 A.M.
Orpheum Room (Second Level)

Symposium 8.3

PREDICTIVE PROCESSING IN AUDITION
Chairs: Judith M. Ford & Juanita Todd
University of California, San Francisco; University of Newcastle

TASK-DRIVEN ENTRAINMENT OF LOW-FREQUENCY BRAIN OSCILLATIONS IN A SENSORY-MOTOR NETWORK: A NEURONAL MECHANISM FOR THE SEQUENTIAL ORGANIZATION OF SOUNDS
Jordi C. Faidella, Elyse S. Sussman, Sabine Grimm, & Carles Escera
University of Barcelona; Albert Einstein College of Medicine

COROLLARY-DISCHARGE AND MISMATCH NEGATIVITY STUDIES REVEAL THE PREDICTIVE NATURE OF AUDITORY PROCESSING
Erich Schröger
University of Leipzig

ANTICIPATING THE FUTURE: AUTOMATIC PREDICTION FAILURES IN SCHIZOPHRENIA
Judith M. Ford, Brian J. Roach, & Daniel H. Mathalon
University of California, San Francisco
AUTOMATIC LEARNING BIASES: ASYMMETRICAL SAMPLING OF EVENT-PROBABILITY IN THE UNATTENDED AUDITORY ENVIRONMENT
Juanita Todd, Alexander Provost, Lisa Whitson, Gavin Cooper, & Andrew Heathcote
The University of Newcastle

11:00 A.M.—11:30 A.M.
Crescent City Ballroom (Mezzanine Level)

Award for Distinguished Early Career Contribution to Psychophysiology

“WINNING!”: BASIC AND TRANSLATIONAL RESEARCH ON REWARD-RELATED BRAIN ACTIVITY
Greg Hajcak, PhD
Stony Brook University

11:30 A.M.—12:30 P.M.
Crescent City Ballroom (Mezzanine Level)

Presidential Address

PSYCHONEUROMETRICS: A PARADIGM FOR GROUNDING PSYCHOLOGICAL ASSESSMENT IN NEUROPHYSIOLOGY
Christopher Patrick, PhD
Florida State University

12:30 P.M.—12:45 P.M.

Break

12:45 P.M.—2:30 P.M.
Waldorf Astoria Ballroom (Mezzanine Level)

Business Meeting and Luncheon
(Pre-registration required; present your ticket when requested.)

2:30 P.M.—4:30 P.M.
Roosevelt Ballroom (Mezzanine Level)

Poster Session IV
Saturday Night Social

All attendees and guests are welcome!
Sunday, September 23

8:00 A.M.–10:00 A.M.
Waldorf Astoria Ballroom (Mezzanine Level)

Farewell Breakfast

9:00 A.M.–12:30 P.M.
Pontalba Room (Mezzanine Level)

SPR Board of Directors Meeting
Poster Session I
Wednesday, September 19

Poster Session Schedule

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<td>6:00 P.M.–7:00 P.M.</td>
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<td>7:00 P.M.–9:00 P.M.</td>
<td>Authors Present for Discussion and Questions</td>
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<tr>
<td>9:00 P.M.–10:00 P.M.</td>
<td>Dismantle Posters</td>
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1. **THE ASSOCIATION BETWEEN REACTION TIME AND DURATION OF BUTTON PRESSING IN CONDITIONS OF SENSORIMOTOR INTEGRATION**  
   Ekaterina Kirpach  
   Southern Federal University

2. **EMOTION SYSTEM COHERENCE FLEXIBILITY IN SOCIAL CONTEXT**  
   Cristina Gatti & Mark Geisler  
   San Francisco State University

3. **IMPAIRED CARDIOVASCULAR FUNCTIONING IN OBESE PARTICIPANTS**  
   Ashley E. Burch & Michael T. Allen  
   University of Mississippi

4. **THE MODIFICATION OF NON-DEFENSIVE REFLEX RESPONSE DURING AFFECTIVE PICTURE VIEWING**  
   Suvi Karla, Carita Ekman, Christa Ekman, Sini Hjelm, Krista Lehtomaki, Riitu Puumalainen, Julia Jokelainen, Ina Tarkka, & Jan Wikgren  
   University of Jyväskylä

5. **SOCIAL AND NONSOCIAL SOUNDS AS DETERMINANTS OF P300**  
   Katherine K.M. Stavropoulos¹, Leslie J. Carver¹, & John Polich²  
   ¹University of California, San Diego, ²Scripps Research Institute

6. **MOOD INDUCTION AND AFFECTIVE MODULATION OF STARTLE**  
   Malek Mneimne & Alice S. Powers  
   St. John’s University
7. PHYSIOLOGICAL REACTIVITY AND SELF-REPORTED DISSOCIATION AS RELATED TO THERAPEUTIC WORKING ALLIANCE IN A SAMPLE OF SURVIVORS OF INTERPERSONAL VIOLENCE
Catherine A. McGreevy & Andrea Fortunato Roth
The New School for Social Research

8. CEREBRAL BLOOD FLOW VARIABILITY IN CHRONIC PAIN PATIENTS AND HEALTHY INDIVIDUALS
Casandra Montoro, Cristina Muñoz, María Josefa Fernández, Stefan Duschek, & Gustavo A. Reyes del Paso
1University of Jaén, 2University of Munich

9. THE IMPACT OF A SINGLE DOSE OF ESCITALOPRAM ON HEART RATE VARIABILITY: A POTENTIAL MECHANISM FOR UNDERSTANDING AGE-RELATED, EARLY TREATMENT RESPONSES IN SUICIDALITY
Tim Outhred, Sasha Saunders, Gin Malhi, & Andrew H. Kemp
University of Sydney

10. TWO MODES OF NOVELTY PROCESSING: CONTEXT-INDUCED EXPLORATION AND EXPLOITATION
Judith Schomaker, Rinske Roos, & Martijn Meeter
VU University

11. A PSYCHOPHYSIOLOGICAL EXPLANATION OF DIMINISHED PERFORMANCE UNDER MENTAL FATIGUE
Jesper F. Hopstaken, Dimitri Van der Linden, Arnold B. Bakker, & Michiel A.J. Kompier
1Erasmus University Rotterdam, 2Radboud University Nijmegen

12. EMOTIONAL FACES AND VISUOSPATIAL WORKING MEMORY: DOES THE NATURE OF STIMULI REALLY MATTER?
1Universidad de Guadalajara, 2Universidad de Guadalajara and O.P.D. Hospital Civil de Guadalajara
13. SENSATION SEEKING AND A REAL WORLD STRESSOR: ENDOCRINE AND AUTONOMIC EFFECTS
Amber L. Allison, Jeremy C. Peres, Christian Boettger, Uwe Leonbacher, Paul D. Hastings, & Elizabeth A. Shirtcliff
University of New Orleans, University of California, Davis

14. GAZE BEHAVIOR AND SKIN CONDUCTANCE ACTIVITY IN REACTION TO EYES IN ADOLESCENTS WITH AUTISM SPECTRUM DISORDERS
Anneke Louwerse, Jos N. van der Geest, Joke H. Tulen, Frank C. Verhulst, & Kirstin Greaves-Lord
Erasmus Medical Center

15. PARALLELISMS IN GRAMMATICAL STRUCTURE MODULATE LPP AND N400 IN AN AFFECTIVE PRIMING PARADIGM WITH EMOTIONAL FACES AND WORDS
Beate Czerwon, Ylva Koehncke, Annette Hohlfeld, Heike Wiese, & Katja Werheid
Humboldt-Universität zu Berlin, Universität Potsdam

16. AUTOMATIC LEARNING BIASES: ASYMMETRICAL SAMPLING OF EVENT-PROBABILITY IN THE UNATTENDED AUDITORY ENVIRONMENT
Alexander Provost, Andrew Heathcote, Lisa Whitson, Gavin Cooper, & Juanita Todd
The University of Newcastle

17. THE ROLE OF PARASYMPATHETIC ACTIVITY IN CROSS-RACE EMPATHIC ACCURACY
Bonnie M. Le & Elizabeth Page-Gould
University of Toronto

18. THE EFFECT OF AUTISM SPECTRUM PERSONALITY ON THE VISUAL MISMATCH NEGATIVITY
Leigh C. Gayle & Paul D. Kieffaber
College of William & Mary
19. THE COMBINED USE OF EVENT-RELATED POTENTIALS AND ELECTROMYOGRAPHY REVEALED BOTH NON-RESPONSE AND RESPONSE CONFLICTS IN A STROOP MATCHING TASK
Ariane L. Caldas, Walter Machado-Pinheiro, Luisa B. Souza, Gabriel C. Motta-Ribeiro, & Isabel A. David
Fluminense Federal University

20. EVOKED POTENTIAL CORRELATES OF LINGUISTIC CROSS-SITUATIONAL ASSOCIATIONS IN THE ABSENCE OF BEHAVIORAL LEARNING
Pamela Lopes da Cunha, Laura Kaczer, Enrique Segura, Silvano Zanutto, & Alejandro Wainselboim
IBYME-CONICET

21. THE IMPACT OF GAIN VS. LOSS ANTICIPATION ON ERROR PROCESSING AND BEHAVIORAL ADJUSTMENTS DURING FEEDBACK-BASED LEARNING
Kerstin Unger & Jutta Kray
Saarland University

22. INCIDENCE OF ELECTRODE BRIDGES IN PUBLICLY AVAILABLE EEG DATA: AN EXPLORATORY SURVEY
Daniel M. Alschuler, Craig E. Tenke, Gerard E. Bruder, & Jürgen Kayser
New York State Psychiatric Institute

23. RELATIONSHIP BETWEEN BASELINE AROUSAL AND EMPATHY IN ADULTS WITH ASPERGER’S
Danielle Mathersul, Jacqueline A. Rushby, & Skye McDonald
University of New South Wales

24. INVESTIGATING A NOVEL METHOD FOR MENTAL ENHANCEMENT IN ELITE GYMNASTS USING ALPHA ACTIVITY TRAINING
Marian K.J. Dekker¹, Margriet M. Sitskoorn¹, Ad J.M. Denissen², Berber van den Berg³, & Geert J.M. van Boxtel¹
¹Tilburg University, ²Philips Research, ³Maastricht University
25. SPECTRAL EFFECTS OF RELEVANT VERSUS IRRELEVANT INFORMATION IN V1
Léon G. Faber, Natasha M. Maurits, & Monicque M. Lorist
University of Groningen

26. INSENSITIVITY TO REWARD AND PUNISHMENT IN DEPRESSION: EVIDENCE FROM CARDIOVASCULAR RESPONSE
Jessica Franzen & Kerstin Brinkmann
University of Geneva

27. DOES FEELING HAPPY MAKE US LESS SHARP? EVIDENCE FROM VISUAL ERPS
Naomi Vanlessen, Valentina Rossi, Rudi De Raedt, & Gilles Pourtois
Ghent University

28. TRAIT POSITIVE AFFECT BUFFERS NEGATIVE IMPACT OF AVOIDANT COPING DURING ANTICIPATORY STRESS
Jurate Aleknaviciute¹, Joke Tulen¹, Kees Kooiman², & Steven Kushner¹
¹Erasmus Medical Center Rotterdam, ²Riagg Rijnmond

29. EVIDENCE FOR THE AUTOMATIC NEGATIVE EVALUATION OF SELF-GENERATED ERRORS AT THE LEVEL OF THE ERROR-RELATED NEGATIVITY
Kristien Aarts, Jan De Houwer, & Gilles Pourtois
Ghent University

30. RESPONSE PREPARATION AND EVALUATION UNDER INCREASED DEPRESSIVE SYMPTOMS: AN ERP STUDY
Blair Saunders & Ines Jentzsch
University of St Andrews

31. AUTOMATIC AND CONTROLLED PROCESSING OF CATEGORICAL PERCEPTION OF LEXICAL TONES IN NON-NATIVE SPEAKERS: AN EVENT-RELATED POTENTIAL STUDY
Jie Xi¹, Linjun Zhang², & Hua Shu³
¹Laboratory for Higher Brain Function, Chinese Academy of Sciences, ²Beijing Language and Culture University, ³State Key Laboratory of Cognitive Neuroscience and Learning, Beijing Normal University
32. EXTREME LIBERALISM AND REACTIVITY TO AROUSING STIMULI: A NEUROPHYSIOLOGICAL INVESTIGATION
Shona M. Tritt, Jordan B. Peterson, & Michael Inzlicht
University of Toronto

33. NEURAL MEASURES INDICATE THAT THREAT'S PRIVILEGED ACCESS TO WORKING MEMORY REFLECTS REDUCED ATTENTIONAL FILTERING
Daniel M. Stout¹, Alexander J. Shackman², Melanie M. Wamboldt¹, & Christine L. Larson¹
¹University of Wisconsin, Milwaukee, ²University of Wisconsin, Madison

34. INDUCING ELEVATED PHYSICAL SYMPTOM REPORTING BY AFFECTIVE CUES: VALENCE AND AROUSAL EFFECTS
Elena Constantinou, Katelyn Bogaerts, Ilse Van Diest, & Omer Van den Bergh
University of Leuven

35. ACUTE RESTRICTION OF SLEEP DURATION AND TYPE D PERSONALITY: FATIGUE, HEMODYNAMIC, AND SALIVARY ALPHA-AMYLASE RESPONSE TO SOCIAL STRESS IN WOMEN
Éanna D. O'Leary¹, Siobhán Howard², & Jack E. James³
¹National University of Ireland, Galway, ²Mary Immaculate College, University of Limerick, ³Reykjavik University

36. PERFORMANCE MONITORING IN THE THALAMUS (W/ CORTICAL INTERACTION)
Theo O.J. Gruendler¹, Claudia Danielmeier², Jens Kuhn³, & Markus Ullsperger⁴
¹Max Planck Institute for Neurological Research, Cologne, ²Radboud University Nijmegen, ³University Hospital Cologne, ⁴University of Magdeburg

37. HOW MUCH DID I LOSE? ERP CORRELATES OF OUTCOME MAGNITUDE, BETTING BEHAVIOR, AND WINNING OR LOSING
Kira Bailey¹, Stephen Anderson², & Robert West²
¹University of Missouri, ²Iowa State University
38. SUBSTANCE USE AND DEPRESSION MODULATE PHYSIOLOGICAL MARKERS OF MATERNAL DISTRESS TOLERANCE
Dorotea Amador, Linda C. Mayes, & Helena J.V. Rutherford
Yale Child Study Center

39. BORDERLINE PERSONALITY DIMENSIONS: DIFFERENTIAL RELATIONS TO IMPULSIVITY AND P3 AMPLITUDE
Wade R. Goldstein, Rebecca J. Houston, & Jamie M. Ostrov
University at Buffalo, SUNY

40. THE EFFECT OF ATTENTIONAL DEPLOYMENT ON THE LATE POSITIVE POTENTIAL IN RESPONSE TO EMOTIONAL IMAGES
Andrea E. Naftz & Michael A. Kisley
University of Colorado at Colorado Springs

41. THE LAST WORD: COMPARISON OF LATE POSITIVE POTENTIAL (LPP) RESPONSES BETWEEN DEATH-RELATED WORDS AND OTHER EMOTIONALLY VALENCE WORDS
John R. Bluntschi, Molly Maxfield, & Michael A. Kisley
University of Colorado at Colorado Springs

42. EFFECT OF VERBAL REFRAMING ON EVENT RELATED POTENTIAL ELICITED BY EMOTIONAL IMAGES
Jesse T. Regnier, Sabrina C. Gregersen, & Michael A. Kisley
University of Colorado at Colorado Springs

43. VISUAL WORKING MEMORY FOR OTHER-RACE FACES IS MODULATED BY GAZE DIRECTION
Mario Dalmaso & Paola Sessa
University of Padova

44. CNV, LRP, AND ERN/PE EFFECTS IN THE DIFFERENTIATION-OF-DECEPTION PARADIGM
Kristina Suchotzki¹, Bruno Verschuere², Fren Smulders³, Ewout Meijer¹, & Geert Crombez¹
¹Ghent University, ²University of Amsterdam, ³Maastricht University
45. **THREAT-RELATED ATTENTIONAL BIAS AND INDIVIDUAL DIFFERENCES IN PSYCHOPHYSIOLOGICAL RESPONDING TO STRESS**  
Niamh M. Higgins & Brian M. Hughes  
*National University of Ireland, Galway*

46. **PSYCHOMETRIC INFORMATION IN SINGLE TRIALS OF A SELF-EVALUATION TASK DEFINES AFFECTIVE DIMENSIONALITY IN BRAIN ELECTRICAL ACTIVITY**  
Allison C. Waters & Don M. Tucker  
*University of Oregon and Electrical Geodesics, Inc.*

47. **NOVEL PEDIATRIC FEAR CONDITIONING PARADIGM: A PSYCHOPHYSIOLOGICAL STUDY**  
Melanie Hong¹, Tomer Shechner², Jennifer C. Britton³, Carolyn N. Spiro², Jamie A. Mash², Daniel S. Pine², & Nathan A. Fox¹  
¹*University of Maryland, College Park,* ²*National Institute of Mental Health*

48. **RELATION BETWEEN EXTINCTION WITHIN FEAR CONDITIONING AND IN VIVO CB1 NEUROTRANSMISSION IN HUMANS**  
Mathias Schroijen¹, Karolien Goffin³, Ilse Van Diest¹, Mathieu Vandenberghe², Guy Bormans¹, Debora Vansteenkiste¹, & Koen Van Laere²  
¹*KU Leuven,* ²*University Hospital Leuven and KU Leuven*

49. **STIMULUS RHYTHMICITY CAN OVERRIDE THE OMISSION MMN**  
Ivy A. Thompson¹, Dominique I. Echols², Breya Walker², Joel Diament², Andrew Dudas², Rikeen Patel¹, Lauren Reed², Jennifer Richardson², Frank Andrasik³, & Jeffrey J. Sable¹  
¹*Rhodes College,* ²*University of Memphis*

50. **WHEN YOUR PARTNER MAKES YOU FEEL GOOD, IT HURTS LESS: EVIDENCE FROM PICTURE-INDUCED MODULATION OF PAIN**  
Katrin Damm, Annina Klapper, & Christiane Hermann  
*Justus-Liebig University Giessen, Germany*
51. **THE AUTONOMIC CORRELATES OF BOREDOM**  
Christopher R. Seemann & Tanya Erazo  
*The New School for Social Research*

52. **N200 AND P300 CORRELATES OF RISKY PATTERNS OF ALCOHOL USE IN YOUNG ADULTS**  
John Sweeney, Hannah Louis, Stacey Patino, & Todd D. Watson  
*Lewis & Clark College*

53. **DIFFERENCES IN RESTING ALPHA ELECTROENCEPHALOGRAPHIC ASYMMETRY BETWEEN DEPRESSED AND NON-DEPRESSED YOUNG ADULT MEN**  
Jacob W. Vogel, Julie C. Sargent, Cynthia J. Gill, & Jane W. Couperus  
*Hampshire College*

54. **NEURAL RESPONSE AND PHYSIOLOGICAL ACTIVITY TO EMOTIONAL IMAGES ARE AFFECTED BY COGNITIVE REAPPRAISAL: AN ERP STUDY**  
Renlai Zhou  
*Beijing Normal University*

55. **THE RELATIONSHIPS OF PHYSIOLOGICAL AND SUBJECTIVE RESPONSES TO POSITIVE MOOD INDUCTION WITH ASPECTS OF COGNITIVE FUNCTIONING**  
Luz H. Ospina¹, Ekaterina Krasavina², Kathy Chu¹, Arianna Mangus², & Deborah J. Walder²  
¹*The Graduate Center, CUNY*, ²*Brooklyn College, CUNY*

57. **DIMENSIONS OF EMOTIONAL EXPERIENCE AND RESPIRATORY SINUS ARRHYTHMIA**  
Anita S. Hibbert & E. David Klonsky  
*University of British Columbia*
58. IMPAIRED SENSORY GATING AND INCREASED VARIABILITY OF RESPONSE TIMES IN UNMEDICATED ADHD CHILDREN AND ADOLESCENTS COMPARED TO HEALTHY CONTROLS AND MEDICATED PATIENTS; TOPOGRAPHICAL NOGO-ANTERIORIZATION DEVELOPED IN BUT NOT DIFFERENTIATING BETWEEN ADHD AND CONTROLS
Julia Geissler, Marcel Romanos, & Klaus-Peter Lesch
University of Würzburg

59. DETERMINANTS OF LEARNING AND DECISION MAKING HAVE TEMPOROSPATIALLY DISSOCIABLE CORRELATES IN HUMAN EEG
Adrian G. Fischer & Markus Ullsperger
University of Magdeburg

60. RESTING-STATE ACTIVITY RELATES TO PERFORMANCE IN A VERBAL RECALL TASK
Rocío A. López Zunini¹, Shanna Kousaie², Christine Sheppard¹, Jean-Philippe Thivierge³, & Vanessa Taler¹
¹University of Ottawa and Elisabeth Bruyere Research Institute, ²Elisabeth Bruyere Research Institute, ³University of Ottawa

61. TOASTED SCORPIONS AND CHOCOLATE CHEESECAKE: REFLEX MODULATION IS A MATTER OF TASTE
Karen R. Hebert¹, Fernando Valle-Inclán², & Steven A. Hackley¹
¹University of Missouri, Columbia, ²University of La Coruña

62. COGNITIVE FUNCTION PREDICTS NEURAL PROCESSING OF TIME-DEPENDENT STIMULUS FEATURES AS MEASURED BY THE MISMATCH NEGATIVITY (MMN)
Nathaniel T. Diede¹, Shannon M. Foster¹, Hasker P. Davis¹, Alana M. Campbell¹, Deana B. Davalos¹, & Michael A. Kisley¹
¹University of Colorado at Colorado Springs, ²Colorado State University

63. EXPECTATION OF EMOTIONAL STIMULI ENHANCES PERCEPTUAL DECISIONS
Tamara J. Sussman, Akos Szekely, Christian Luhmann, Greg Hajcak, & Aprajita Mohanty
Stony Brook University
64. **NEURAL CORRELATES OF THE USEFUL FIELD OF VIEW TEST**  
Carol L. Peronto, Jennifer L. O’Brien, Jennifer J. Lister, & Jerri D. Edwards  
*University of South Florida*

65. **SELF-REPORTED FUNNINESS RATINGS AND FACIAL ELECTROMYOGRAPHY REVEAL UNIQUE AGE-RELATED RESPONSES TO AGGRESSIVE SOCIAL HUMOR**  
Monika Lohani¹, Jennifer Tchan Stanley¹, & Derek Martin Isaacowitz²  
¹*Brandeis University*, ²*Northeastern University*

66. **RESPIRATORY SINUS ARRHYTHMIA IS ASSOCIATED WITH EMOTION REGULATION ABILITY AND SUBSEQUENT BEHAVIOR**  
James E. Juergensen & Heath A. Demaree  
*Case Western Reserve University*

67. **A PSYCHOPHYSIOLOGICAL EXAMINATION OF SCHOOL-BASED AGGRESSION: AUTONOMIC AND FACIAL EMG PROFILES OF BULLIES, VICTIMS, AND BULLY-VICTIMS**  
Chrysostomos Lazarou & Georgia Panayiotou  
*University of Cyprus*

68. **INVESTIGATING THE TIMING OF EMOTIONAL DISCRIMINATION ACROSS THE BRAIN**  
David W. Frank & Dean Sabatinelli  
*University of Georgia*

69. **EXPERIMENTAL MANIPULATIONS OF THE PREDICTIVE VALUE FOR CIGARETTE REWARD HAVE DIFFERENT IMPACTS ON NEURAL RESPONSES TO BEGIN- AND END-SMOKING-STIMULI**  
Bastian Stippekohl¹, Bertram Walter¹, Markus H. Winkler², Ron F. Mucha², Paul Pauli², Dieter Vaitl¹, & Rudolf Stark¹  
¹*Justus-Liebig-University of Gießen*, ²*Julius-Maximilians-University of Würzburg*
70. EFFECTS OF VARIATIONS IN WORKING MEMORY SPAN AND CARDIOVASCULAR FITNESS ON THE PATTERN OF BOLD fMRI RESPONSES IN MIDDLE-AGED AND OLDER ADULTS
Nils Schneider-Garcés, Timothy B. Weng, Chin Hong Tan, Benjamin Zimmerman, Mark A. Fletcher, Kathy A. Low, Gabriele Gratton, & Monica Fabiani
University of Illinois

71. AN EVALUATIVE PRIMING PARADIGM FOR ASSESSING CONCEALED ATTITUDES
Stephanie M. Reyes, Gabriela Terrazas, David R. Herring, Ana Rodriguez, Mayra Sandoval, Andrea Magana, Andrea Rios, Cynthia Cereceres, Diego Chavira, & Stephen L. Crites
University of Texas at El Paso

72. FRONTAL EEG ASYMMETRIES PREDICT PATTERNS OF AUTOMATIC EMOTION REGULATION
Michael Tooley, Rosie Moody, & Gina M. Grimshaw
Victoria University of Wellington

73. SKIN CONDUCTANCE AND SUBJECTIVE DISTRESS DURING PROLONGED EXPOSURE THERAPY FOR PTSD
Elizabeth R. Duval¹, C. Beau Nelson², Mandy Kumpula¹, E. Jenna Robison-Andrew¹, Aileen Echiverri-Cohen¹, Nicholas Giardino¹, Israel Liberzon¹, & Sheila Rauch²
¹VA Ann Arbor Healthcare System, ²VA Ann Arbor Healthcare System and University of Michigan

74. AUTOMATIC CORRELATES OF FEAR VERSUS ANXIETY
Daisy A. Burr, Shaun Nanavati, & Marcel Kinsbourne
The New School for Social Research

75. NEURAL INDICES OF ATTENTIONAL CAPTURE BY SMOKING STIMULI
Jason A. Oliver, Kate Janse Van Rensburg, Kade Jentink, David J. Drobes, & David E. Evans
Moffitt Cancer Center
76. A FRIEND IN NEED: PHYSIOLOGICAL EVIDENCE OF THE SAFE HAVEN FUNCTION OF CLOSE FRIENDS
Alexander F. Danvers, Milica Miocevic, Claire I. Yee, & Michelle N. Shiota
Arizona State University

77. VALIDITY OF THE CMETX METRICS IN AN AFRICAN AMERICAN COLLEGE SAMPLE
Larry D. Keen II
South Carolina State University

78. ELECTRODERMAL AROUSAL TO PICTURES OF OTHERS IN DISTRESS IN INDIVIDUALS WITH SCHIZOTYPY
Katie A. Ragsdale, Jonathan C. Mitchell, Lisa S. Kadison, Daniella S. Schlander, Christopher Spencer, & Jeffrey S. Bedwell
University of Central Florida

79. HUNGRY, THIRSTY, ACCURATE? NEED-STATE CAN IMPROVE BEHAVIORAL ACCURACY AND AMPLITUDE OF THE ERROR-RELATED NEGATIVITY
Erik M. Benau¹, Charles A. Perfetti², & Stephen T. Moelter¹
¹University of the Sciences, ²University of Pittsburgh

80. THE INFLUENCE OF TIME PRESSURE ON THE ALLOCATION OF ATTENTION
Kyle A. Frankovich & Steven J. Luck
University of California, Davis

81. STRESSOR ASSOCIATED COUPLING OF HEART RATE CHANGES WITH TONIC AND PHASIC HRV IN POLYSUBSTANCE ABUSERS TREATED WITH MINDFULNESS-BASED RELAPSE PREVENTION, STANDARD RELAPSE PREVENTION, OR STANDARD AFTERCARE
Haley A.C. Douglas¹, Elizabeth Shilling², & M. Kathleen B. Lustyk²
¹University of Washington, ²Seattle Pacific University
82. ADAPTIVE FACIAL MIMICRY TO SOCIAL EXCLUSION
Michael C. Philipp¹, Michael Bernstein², Eric J. Vanman¹, & Lucy Johnston¹
¹University of Queensland, ²Pennsylvania State University, Abington, ³University of Canterbury

83. COACTIVATION OF THE PARASYMPATHETIC AND SYMPATHETIC NERVOUS SYSTEM DURING TWO IMAGINATION TASKS
Ben Allen, Derek Spangler, Anarkali Morrill, Katherine Magruder, & Bruce Friedman
Virginia Tech

84. TASK-IRRELEVANT EMOTION MODULATES STIMULUS PROCESSING IN AN EMOTIONAL WISCONSIN CARD SORTING TASK
Lenka Selinger, Mareike Finke, & Carles Escera
University of Barcelona

85. ERP CORRELATES OF MATCHING UNFOLDING SENTENCES AGAINST EARLIER PREDICTIONS
Jakub M. Szewczyk
Jagiellonian University

86. HEART RATE VARIABILITY IN UNEMPLOYED MEN AND WOMEN
Vera Jandackova¹, Karel Paulik¹, & Andrew Steptoe²
¹University of Ostrava, ²University College London

87. THE PSYCHOPHYSIOLOGY OF MIXED EMOTIONS
Sylvia D. Kreibig, Andrea C. Samson, & James J. Gross
Stanford University

88. THE IMPORTANCE OF INDIVIDUAL DIFFERENCES IN PAIN TOLERANCE ON INDIVIDUALS WITH BORDERLINE PERSONALITY DISORDER FEATURES IN A COLD PRESSOR TASK
Ryan W. Carpenter, Phillip K. Wood, & Timothy J. Trull
University of Missouri
89. TMS EFFECTS ON CARDIAC AUTONOMIC CONTROL IN CHILDREN WITH AUTISM
Marie K. Hensley, Ayman S. El-Baz, Guela E. Sokhadze, Lonnie Sears, Manuel F. Casanova, & Estate M. Sokhadze
University of Louisville

90. AMBIENT PRISM LENSES AFFECT AUTONOMIC REACTIVITY AND ATTENTION TO AUDIO-VISUAL STIMULI IN AUTISM
Estate M. Sokhadze, Melvin Kaplan, Stephen M. Edelson, Barbara Kotsamanidis, Marie K. Hensley, Guela E. Sokhadze, Brynn Dombroski, & Manuel F. Casanova
1University of Louisville, 2 Center for Visual Management, New York, 3 Autism Research Institute, San Diego

91. REFLECTION IS ASSOCIATED WITH LOWER RESTING BLOOD PRESSURE IN COLLEGE-AGED MEN
LaBarron K. Hill, DeWayne P. Williams, Anjni Patel, John J. Sollers III, & Julian F. Thayer
1The Ohio State University, 2 The University of Auckland

92. THE IMPACT OF STEREOTYPE THREAT ON HEART RATE VARIABILITY RECOVERY
DeWayne P. Williams, Lassiter F. Speller, LaBarron K. Hill, Sean A. Plaskett, & Julian F. Thayer
The Ohio State University

93. NEURAL SYSTEMS OF ANTERIOR INSULAR CORTEX INVOLVED IN ANTICIPATION OF UNILATERAL STIMULUS PRESENTATION
Yasunori Kotani, Yoshimi Ohgami, Jun-ichiro Arai, Shigeru Kiryu, & Yusuke Inoue
1Tokyo Institute of Technology, 2 Daikin Industries, 3 The University of Tokyo, 4 Kitasato University

94. ANTICIPATORY ATTENTION PRIOR TO FACE, WORD, AND SYMBOLIC STIMULI: AN fMRI STUDY
Yoshimi Ohgami, Yasunori Kotani, Jun-Ichiro Arai, Shigeru Kiryu, & Yusuke Inoue
1Tokyo Institute of Technology, 2 Daikin Industries, 3 The University of Tokyo, 4 Kitasato University
95. ELECTRODE WEAR AS A SOURCE OF MEASUREMENT ERROR IN THE ASSESSMENT OF AMBULATORY ELECTRODERMAL ACTIVITY
Rachel L. Tomko, Ryan Carpenter, & Timothy J. Trull
University of Missouri

96. F#©K! PROCESSING EMOTION AND TABOO IN A NATIVE VS. A SECOND LANGUAGE: AN ERP STUDY
Allison R. Fogel¹, Katherine J. Midgley², Nate Delaney-Busch¹, & Phillip J. Holcomb¹
¹Tufts University, ²Tufts University and CNRS: Laboratory of Cognitive Psychology, France

97. EVENT-RELATED POTENTIAL EFFECTS IN MASKED SANDWICH PRIMING AT SHORT SOA
He Pu¹, Isabella Slaby¹, Katherine Midgley², Phillip Holcomb¹, & Jonathan Grainger³
¹Tufts University, ²Tufts University, CNRS and Aix-Marseille University, ³CNRS and Aix-Marseille University

98. A PSYCHOPHYSIOLOGICAL INVESTIGATION INTO THE EFFECTS OF PAIN OFFSET
Joseph C. Franklin, Kent M. Lee, Eleanor K. Hanna, & Mitchell J. Prinstein
University of North Carolina at Chapel Hill

99. PAIN OFFSET RELIEF CONDITIONING REDUCES NEGATIVE AFFECT TOWARD SELF-INJURY STIMULI: A STARTLE EYEBLINK INVESTIGATION
Megan E. Puzia, Kent M. Lee, Grace Chung, Eleanor K. Hanna, Victoria L. Spring, & Joseph C. Franklin
University of North Carolina at Chapel Hill

100. LOW CORRELATIONS AMONG FOUR DIFFERENT MEASURES OF AFFECT
Joseph C. Franklin, Megan E. Puzia, Kent M. Lee, Grace Chung, Eleanor K. Hanna, & Victoria L. Spring
University of North Carolina at Chapel Hill

101. RESPIRATORY VARIABILITY DURING EMOTIONAL PICTURE VIEWING
Elke Vlemincx, Ilse Van Diest, & Omer Van den Bergh
University of Leuven
102. MOTOR AND NON-MOTOR CONFLICT AND INHIBITION IN A CUED-GO/NOGO TASK
Janette L. Smith & William M. Randall
1 University of New South Wales, 2 Monash University

103. MISMATCH NEGATIVITY (MMN) AND SENSORY AUDITORY PROCESSING IN CHILDREN AGED 9-12 YEARS PRESENTING WITH PUTATIVE ANTECEDENTS OF SCHIZOPHRENIA
Jason M. Bruggemann, Helen V. Stockill, Glenn L. Mould, Sheilagh Hodgins, Rhoshel K. Lenroot, Eric A. Taylor, Robin M. Murray, & Kristin R. Laurens
1 University of New South Wales & Neuroscience Research Australia, 2 King's College London, 3 University of New South Wales & King's College London & Schizophrenia Research Institute

104. IS ERROR COMMISSION CRUCIAL FOR LEARNING? AN EXAMINATION OF THE ERPS ELICITED DURING ERRORLESS LEARNING
Summer N. Clay, Yael Arbel, & Emanuel Donchin
University of South Florida

105. PUPIL DILATION RESPONSE AND P300 IN AN ODDBALL PARADIGM WITH THREE STIMULUS TYPES
Siri-Maria Kamp & Emanuel Donchin
University of South Florida

106. EVALUATIVE FEEDBACK VS. INFORMATIVE FEEDBACK: WHAT DIFFERENCE DOES IT MAKE?
Anthony Murphy, Yael Arbel, & Emanuel Donchin
University of South Florida

107. EFFECTS OF ISI VARIABILITY AND RESPONSE TYPE ON P300 LATENCY JITTER IN AN ODDBALL TASK
Glen R. Forester, Siri-Maria Kamp, & Emanuel Donchin
University of South Florida

108. THE EFFECT OF HOMOPHOBIA ON EVENT-RELATED POTENTIALS ELICITED BY EROTIC IMAGES
Krista G. Yakub & Geoffrey F. Potts
University of South Florida
109. HOW BAD COULD IT BE? ALCOHOL’S EFFECT ON STARTLE TO UNCERTAIN INTENSITY THREAT VARIES BY DOSE AND BASELINE STARTLE
Daniel E. Bradford, Benjamin L. Shapiro, & John J. Curtin
University of Wisconsin, Madison

110. DOSE-DEPENDENT EFFECTS OF ALCOHOL ON ATTENTION TO CERTAIN AND UNCERTAIN THREAT
Mark J. Starr, Daniel E. Bradford, Courtney A. Motschman, Rachel Korhumel, & John J. Curtin
University of Wisconsin, Madison

111. CARDIAC RESPONSES TO STRESS DURING MENSTRUATION
Derek P. Spangler, Ben Allen, Xiao Yang, & Bruce H. Friedman
Virginia Tech

112. DESYNCHRONY OF PHYSIOLOGICAL RESPONSES AND AFFECTIVE RATINGS IN ALEXITHYMIA DURING IMAGERY
Catherine E. Peasley-Miklus¹ & Scott R. Vrana²
¹University of Vermont, ²Virginia Commonwealth University

113. SKIN CONDUCTANCE INCREASE PREDICTS INSIGHT AND AFFECTIVE WORD USAGE DURING WRITTEN EMOTIONAL DISCLOSURE
Therese K. Verkerke, Andrea Konig, Alison M. Eonta, & Scott R. Vrana
Virginia Commonwealth University

114. A ROLE FOR NEGATIVE EMOTIONALITY, BUT NOT REPRESSIVE COPING IN PTSD SYMPTOMS IN VETERANS OF OPERATION ENDURING FREEDOM AND OPERATION IRAQI FREEDOM
Scott R. Vrana¹, Lisa M. McAndrew², Shaina L. Gulin¹, & Karen S. Quigley³
¹Virginia Commonwealth University, ²Dept of Veterans Affairs NJ Healthcare System, ³Northeastern University
115. THE EFFECT OF 7.5% CO2 INHALATION ON AUTONOMIC AND RESPIRATORY MEASURES
Scott R. Vrana, Roxann Roberson-Nay, Jacob A. York, & Therese K. Verkerke
Virginia Commonwealth University

116. INFLUENCES ON OCCIPITAL ERPS DURING LATE STAGES OF MOTOR PREPARATION IN A PRECUING TASK
Romy Frömer & Werner Sommer
Humboldt-Universität zu Berlin

117. CLOSING THE EYES ELICITS A UNIVERSAL PARASYMPATHETIC REFLEX
Shaun S. Nanavati
The New School for Social Research

118. INDIVIDUAL DIFFERENCE IN SELF-REGULATION VIA REAPPRAISAL AND DISTRACTION
Reese Minshew & Wendy D’Andrea
The New School for Social Research

119. ATTENTION BIAS TO EMOTIONAL CUES, PHYSIOLOGICAL REACTIVITY, AND DISSOCIATION IN SURVIVORS OF CHRONIC AND ACUTE TRAUMA
Jonathan M. DePierro, Steven Freed, Catherine McGreevy, Andrea Roth, & Wendy M. D’Andrea
The New School for Social Research

120. FAKE IT ‘TIL YOU MAKE IT: EXAMINING INDIVIDUAL DIFFERENCES IN THE IMPACT OF FORCED SMILING AND LAUGHTER ON PHYSIOLOGY AND AFFECT
Ashley Doukas, Jaime McManus, & Wendy D’Andrea
The New School for Social Research

121. DIFFERENTIATING SHAME FROM GUILT: PHYSIOLOGICAL AND PSYCHOLOGICAL CORRELATES
Steven J. Freed¹, Wendy D’Andrea¹, Jonathan DePierro¹, & Nnambdi Pole²
¹The New School for Social Research, ²Smith College

122. SPEAKING FROM THE HEART: LEXICAL CORRELATES OF PHYSIOLOGY IN A TRAUMATIZED SAMPLE
Ché Lucero & Wendy D’Andrea
The New School for Social Research
123. EFFECTS OF ARTIFICIAL SWEETENERS ON PAIN THRESHOLD AND TOLERANCE
Mark Sappington, Bryan Raudenbush, & Kristin McCombs
Wheeling Jesuit University

124. INCREASED SALIVARY CORTISOL LEVELS IN INDIVIDUALS CHARACTERIZED AS FOOD NEOPHOBICS
August Capiola, Bryan Raudenbush, & Amanda Schultz
Wheeling Jesuit University

125. EFFECTS OF CINNAMON SCENT ADMINISTRATION ON PHYSIOLOGY, RANGE OF MOTION, MOOD, ANXIETY, AND PERCEIVED WORKLOAD DURING A MULTI-SESSION PHYSICAL THERAPY PROGRAM
Jessica Florian, Kristin Johnson, Sierra Moore, Bryan Raudenbush, & Allison Burke
Wheeling Jesuit University

126. EFFECTS OF JASMINE AND PEPPERMINT SCENT ADMINISTRATION ON PHYSIOLOGICAL AND PSYCHOLOGICAL STRESS REACTIONS IN ENCLOSED SPACES
Bryan Raudenbush, August Capiola, & Jessica Florian
Wheeling Jesuit University

127. SALIVARY PH AND GENERAL HEALTH DIFFERENCES AMONG INDIVIDUALS WHO WERE VS. WERE NOT BREAST-FED AS AN INFANT
Bryan Raudenbush, August Capiola, & Amanda Schultz
Wheeling Jesuit University

128. P50 SUPPRESSION AS A PREDICTOR OF TREATMENT RESPONSE TO COGNITIVE REMEDIATION TRAINING IN RECENT-ONSET SCHIZOPHRENIA
Holly K. Hamilton, Peter E. Clayson, Terrance J. Williams, Keith H. Nuechterlein, Denise Gretchen-Doorly, Kenneth L. Subotnik, Joseph Ventura, & Cindy M. Yee
University of California, Los Angeles
129. HEART RATE VARIABILITY DURING
PSYCHOSOCIAL STRESS IN FIRST-EPISEDE
SCHIZOPHRENIA
Kelsi A. Umekubo, Holly K. Hamilton, Jane C. Sun,
Gretchen L. Sholty, Keith H. Nuechterlein, Kenneth
L. Subotnik, Joseph Ventura, & Cindy M. Yee
University of California, Los Angeles

130. ABSENT TRIAL-BY-TRIAL MODULATION OF
EMOTIONAL PROCESSES IN
SCHIZOPHRENIA
Peter E. Clayson, Peter Bachman, Keith H.
Nuechterlein, & Cindy M. Yee
University of California, Los Angeles
Poster Session II
Thursday, September 20

Poster Session Schedule

8:00 A.M.–10:00 A.M. Posters Assembled
10:00 A.M.–6:15 P.M. Posters Available for Viewing
6:15 P.M.–8:15 P.M. Authors Present for Discussion and Questions
8:15 P.M.–9:15 P.M. Dismantle Posters

1. **EATING WITH THE EYES: ELECTROMAGNETIC BRAIN RESPONSES TO VISUAL CUES OF HIGH-CALORIE FOOD**
   Rotem Beit-Arie, Aron Weller, & Avi Goldstein
   *Bar-Ilan University*

2. **ELECTROMAGNETIC AND COGNITIVE SIMILARITIES BETWEEN CHRONIC CANNABIS USERS AND SCHIZOPHRENIA PATIENTS**
   Keren Yefet¹, Yechiel Levkovitz², & Avi Goldstein³
   ¹Tel Aviv University, ²Shalvata Mental Health Center, ³Bar-Ilan University

3. **EVENT-RELATED POTENTIALS IN VIBROTACTILE SOUND DISCRIMINATION**
   Vanessa D. Ruiz-Stovel¹, Andrés A. González-Garrido¹, Fabiola R. Gómez-Velázquez¹, & Luis R. Campos²
   ¹University of Guadalajara, ²University of Morón

4. **WORKING MEMORY CAPACITY INFLUENCES THE EFFECTIVENESS OF REAPPRAISAL EMOTION REGULATION STRATEGIES**
   Emily L. Belleau¹, Christine L. Larson¹, Emily J. Jakubowski¹, & Greg J. Siegle²
   ¹University of Wisconsin, Milwaukee, ²University of Pittsburgh Medical School

5. **ERD/ERS PARAMETERS DEPENDING ON PERSON’S SOCIAL ACTIVITY TYPE**
   Oksana Y. Fedorchuk, Igor Y. Kotsan, Illya P. Kuznetsov, & Evgeniy A. Kyrychuk
   *Lessya Ukrainka Volyn National University*
6. MOVING FROM CLASSICAL TO INSTRUMENTAL GENERALIZATION OF CONDITIONED FEAR
Brian G. van Meurs, Isaac Wicker, Nicole Wiggert, Michelle McCann, & Shmuel Lissek
University of Minnesota

7. FEAR-POTENTIATED STARTLE ASSOCIATED WITH BEHAVIORAL AVOIDANCE IN A FEAR CONDITIONING PARADIGM
Antonia N. Kaczkurkin, Eleanor I. Stahura, & Shmuel M. Lissek
University of Minnesota

8. EFFECTS OF PLACEBO ALCOHOL ON COGNITIVE CONTROL OVER RACIAL BIAS: INVESTIGATING NEURAL MECHANISMS
Joseph B. Hilgard, John G. Kerns, & Bruce D. Bartholow
University of Missouri, Columbia

9. VIOLENT VIDEO GAMES, COGNITIVE CONTROL, AND AGGRESSION: THE MODERATING ROLE OF INDIVIDUAL DIFFERENCES IN BEHAVIOR REGULATION PROBLEMS
Christopher R. Engelhardt, John S. Saults, & Bruce D. Bartholow
University of Missouri

10. CHANGES IN RIGHT HEMISPHERIC FUNCTIONAL CEREBRAL SYSTEMS WITH TRAIT ANXIETY CLASSIFICATION: SOME PRELIMINARY FINDINGS
Sara E. Newton, Jessica Bunting, Alissa K. Holland, Mark Coe, Joe E. Carmona, & David W. Harrison
1University of South Carolina, Lancaster, 2Virginia Tech

11. A FUNCTIONAL CEREBRAL SYSTEMS APPROACH TO EXAMINING CHANGES IN STATE ANXIETY: THE INFLUENCE OF RIGHT-LATERALIZED PHYSIOLOGICAL AND COGNITIVE STRESS ON REGULATION OF PARASYMPATHETIC TONE
Alissa K. Holland, Sara E. Newton, Jessica Bunting, Mark Coe, Joseph E. Carmona, & David W. Harrison
1University of South Carolina, Lancaster, 2Virginia Tech
12. GENDER COMMONALITIES AND DIFFERENCES IN NEURAL RESPONSES TOWARD VISUAL SEXUAL STIMULI
Sina Wehrum, Tim Klucken, Sabine Kagerer, Andrea Hermann, Bertram Walter, Dieter Vaitl, & Rudolf M. Stark
University of Giessen

13. DIFFERENTIAL STIMULUS PROCESSING AND STOP SIGNAL TASK PERFORMANCE IN FEARLESS DOMINANCE & IMPULSIVE ANTISOCIALITY
Allan J. Heritage & Stephen D. Benning
1Vanderbilt University, 2University of Nevada, Las Vegas

14. STARTLE BLINK MODULATION DURING CIRCUMSCRIBED INTEREST AND FACE STIMULI IN AUTISM SPECTRUM DISORDER
Stephen D. Benning, Anna Sabatino, Joseph C. Franklin, Noah J. Sasson, James W. Bodfish, & Gabriel S. Dichter
1University of Nevada, Las Vegas, 2University of North Carolina at Chapel Hill

15. GENETIC INFLUENCES OF NEURAL CORRELATES OF EMOTIONAL PROCESSING: AFFECTIVE PICTURE-RELATED ERPS IN FEMALE TWINS
Lacy A. Olson, Edward M. Bernat, Austin Cole, & Andrey Anokhin
1Florida State University, 2Washington University in St. Louis

16. DEVELOPMENT OF RESPONSE INHIBITION IN EARLY ADOLESCENCE: A LONGITUDINAL STUDY OF TIME-FREQUENCY THETA AND DELTA COMPONENTS
Kelly M. Klein, Jeremy Harper, Edward M. Bernat, & Andrey Anokhin
1Florida State University, 2Washington University in St. Louis

17. DEVELOPMENT OF EXPERT DIGIT-SPAN PERFORMANCE USING DELIBERATE PRACTICE: ELECTROCORTICAL INDICES OF ENCODING DIGITS INTO LONG-TERM WORKING MEMORY
Florida State University
18. REWARD POSITIVITY, BUT NOT FEEDBACK NEGATIVITY, IS SENSITIVE TO REWARD CONTEXT IN A GAMBLING TASK
Srikant R. Kothur¹, Matthew S. Cartabuke¹, Samuel B. Brewer¹, Paul Collins², & Edward M. Bernat¹
¹Florida State University, ²University of Minnesota

19. FUNCTIONAL INTEGRATION BETWEEN MEDIAL AND LATERAL PREFRONTAL CORTEX (MPFC-LPFC) DURING ACTION MONITORING AND RESPONSE INHIBITION: A TIME-FREQUENCY POWER AND PHASE-SYNCHRONY ANALYSIS OF THETA ACTIVITY
Jeremy Harper¹, Selin Aviyente², Steve M. Malone³, & Edward M. Bernat¹
¹Florida State University, ²Michigan State University, ³University of Minnesota, Twin Cities

20. BEHAVIORAL DISINHIBITION IS RELATED TO N2/THETA ACTIVITY IN A GO/NO-GO TASK: A TIME-FREQUENCY ANALYSIS
Jeremy Harper¹, Steve Malone², & Edward M. Bernat¹
¹Florida State University, ²University of Minnesota

21. COORDINATED GAMBLING FEEDBACK PROCESSING INDEXED BY FEEDBACK NEGATIVITY AND REWARD POSITIVITY ERP COMPONENTS, AND PUPIL DILATION
Elizabeth M. Mulligan, Matthew S. Cartabuke, Samuel B. Brewer, Srikant R. Kothur, Walter R. Boot, Christian Vorstius, Chelsea Morgan, & Edward M. Bernat
Florida State University

22. EVENT-RELATED POTENTIALS DURING PERCEPTION OF EMOTIONAL FACIAL EXPRESSIONS IN PSYCHOPATHIC FEMALE INPATIENTS
Hedwig Eisenbarth¹, Jeremy Harper², Lacy Olson³, Antonio Calogero³, Alessandro Angrilli¹, & Edward M. Bernat²
¹University of Regensburg, ²Florida State University, ³Prison Hospital Castiglione delle Stiviere, ⁴University of Padova
23. COMMON TIME-FREQUENCY THETA AND DELTA PROCESSES ACROSS TASKS: GAMBLING FEEDBACK, ODDBALL N2, AND GO/NO-GO N2
Matthew D. Bachman, Elizabeth M. Mulligan, Laura Byrnes, Sangeeta Nair-Collins, & Edward M. Bernat
Florida State University

24. ACOUSTIC PREPULSES DO NOT INHIBIT THE PAIN OF INTENSE SHOCKS
Alex Firan¹, Terry D. Blumenthal¹, & Magne A. Flaten²
¹Wake Forest University, ²The University of Tromsø

25. USING ACOUSTIC STARTLE FACILITATION BY WORDS TO ASSESS THREAT BIAS IN EXCESSIVE WORRIERS
Tamara E. Spence & Terry D. Blumenthal
Wake Forest University

26. TARGET-TO-TARGET INTERVAL INFLUENCES A RANGE OF ERP COMPONENTS
Genevieve Z. Steiner, Craig J. Gonsalvez, Robert J. Barry, Frances M. De Blasio, & Michelle L. Brennan
University of Wollongong

27. HOW TO ELECT YOUR ELECTRODES: A COMPARISON OF PASSIVE AND ACTIVE ELECTRODES IN THE SAME AMPLIFICATION SYSTEM
Kaitlin Mooney, Fanny Chu, Hannah Faigen, & Sarah Laszlo
Binghamton University, SUNY

28. DOES PERCEIVED PURPOSE IN LIFE PREDICT BETTER REGULATION OF INFLAMMATION?
Diana Wang, Myriam V. Thoma, Nia Fogelman, Emily Farver, Aysha Malik, Lindsey Wilson, & Nicolas Rohleder
Brandeis University

29. ERPS AND DELAY INTERVAL OSCILLATIONS ASSOCIATED WITH AUDITORY SENSORY GATING IN SCHIZOPHRENIA
Samuel P. Rumak¹, Caitlan R. Murphy¹, William P. Hetrick², Brian F. O’Donnell², Amanda R. Bolbecker², & Colleen A. Brenner²
¹University of British Columbia, ²Indiana University
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¹University of British Columbia, ²Indiana University

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Xin Zheng & Sidney J. Segalowitz
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Meghan M. Weissflog¹, Gillian E. Munro², Lisa M. Wirz³, Sidney J. Segalowitz¹, & Jane Dywan¹
¹Brock University, ²McMaster University, ³Maastricht University

35. ELECTROPHYSIOLOGY OF OCULOMOTOR DELAYED RESPONSE TASKS: A MODEL FOR THE MATURATION OF VISUAL—SPATIAL SHORT-TERM MEMORY NETWORKS
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Michelle K. Jetha¹, Lisa M. Gatzke-Kopp², & Sidney J. Segalowitz¹
¹Brock University, ²The Pennsylvania State University

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Anna Weinberg¹, Greg Hajcak¹, & Christopher J. Patrick²
¹Stony Brook University, ²Florida State University

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Anna Weinberg¹, Uma Vaidyanathan², Noah Venables², Greg Hajcak¹, & Christopher J. Patrick²
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   ¹Jaume I University, ²University of Florida

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1 Hong Kong Baptist University, 2 Humboldt University

66. RESIDUE ITERATION DECOMPOSITION (RIDE) AS A TOOL TO DISENTANGLE DIRECT AND INDIRECT ROUTE LRP ACTIVATION
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1 Hong Kong Baptist University, 2 Humboldt University

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Lauren E. Taubitz¹, Terri deRoon-Cassini², Julie Blaisdell¹, Therese Birmingham³, & Christine L. Larson¹
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Julie A. Blaisdell¹, Terri deRoon-Cassini², Lauren E. Taubitz¹, Therese Birmingham³, & Christine L. Larson¹
¹University of Wisconsin, Milwaukee, ²Medical College of Wisconsin, ³Marquette University

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Kimberly L. Lewis, Jordan S. Robinson, & Christine L. Larson
University of Wisconsin, Milwaukee

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Laura E. Drislane, Casey M. Strickland, Jaclyn L. Fishalow, & Christopher J. Patrick
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¹University of South Florida, ²Florida State University

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Robert W. Shannon¹, Christopher J. Patrick², & Sheng He³
¹University of Minnesota, ²Florida State University
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77. **DEPRESSION MODERATES THE RELATIONSHIP BETWEEN FEARFULNESS AND STARTLE POTENTIATION: FURTHER EVIDENCE FROM A COMMUNITY-BASED TWIN SAMPLE**
Uma Vaidyanathan\(^1\), James Yancey\(^2\), Jennifer Cermak\(^3\), Peter J. Lang\(^4\), & Christopher J. Patrick\(^2\)
\(^1\)University of Minnesota, \(^2\)Florida State University, \(^3\)Marymount University, \(^4\)University of Florida

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James R. Yancey\(^1\), Uma Vaidyanathan\(^2\), Jennifer Cermak\(^3\), Megan Lucy\(^1\), & Christopher J. Patrick\(^1\)
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79. **P3 TO TARGET AND NOVEL STIMULI IN AN ADULT TWIN SAMPLE: EVIDENCE FOR HERITABILITY AND RELATIONS WITH EXTERNALIZING PROBLEMS AND TRAITS**
James R. Yancey, Noah C. Venables, Casey Roca, & Christopher J. Patrick
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80. **FREQUENCY-SPECIFIC DISRUPTION OF NEURONAL OSCILLATIONS REVEAL ABERRANT CORTICAL NETWORK PROPERTIES IN SCHIZOPHRENIA**
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\(^1\)University of Georgia, \(^2\)Minneapolis VA Health Care System, University of Minnesota
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¹University of Georgia, ²Georgia Health Sciences University

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University of Illinois at Urbana-Champaign

83. TAKING THE AGING PULSE: REGIONAL ARTERIAL ELASTICITY IN THE BRAIN AND ITS ASSOCIATION WITH CARDIORESPIRATORY FITNESS, COGNITIVE ABILITY AND BRAIN ATROPHY
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84. RELATIONSHIPS BETWEEN CARDIORESPIRATORY FITNESS, BRAIN ANATOMY, AND COGNITION IN HEALTHY OLDER ADULTS
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¹University of Illinois at Urbana-Champaign, ²Washington University in Saint Louis
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86. WATCHING AN ERROR IS NOT QUITE THE SAME AS COMMITTING AN ERROR: AT LEAST ACCORDING TO THE ERN
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87. IS THERE A BENEFIT TO HAVING TWO EARS WHEN EVALUATING NOVELTY?
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Shannon E. Phelan, Patricia L. Davies, & William J. Gavin
Colorado State University

90. INVESTIGATING THE FLANKER EFFECT ON MOTOR RESPONSE IN ADULTS AND CHILDREN
Wen-Pin Chang¹, William J. Gavin², & Patricia L. Davies²
¹Creighton University, ²Colorado State University

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   Herman A. Diggs¹, Makoto Miyakoshi², Matthew A. Picchietti¹, & David G. Gilbert¹  
   ⁱSouthern Illinois University Carbondale, ²University of California, San Diego

95. **MARIJUANA CESSATION INCREASES EEG SOURCE-LOCALIZED DORSOLATERAL PREFRONTAL CORTEX ACTIVITY DURING INCORRECT TRIAL FEEDBACK-RELATED POSITIVITY IN EMOTIONAL IDENTIFICATION TASK**  
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96. **LORETA-ASSESSED PATTERNS OF BRAIN ACTIVITY IN RESPONSE TO TARGET STIMULI IN YOUNG CARRIERS OF THE ALZHEIMER'S DISEASE-ASSOCIATED APOE4 GENOTYPE: EFFECTS OF SMOKING ABSTINENCE**  
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97. **DO YOUR EARS WIGGLE WHEN YOU SMILE? AN INVESTIGATION OF POSTAURICULAR REFLEX AND AFFECTIVE FACIAL EXPRESSION**  
   Karly M. Schleicher, Stacia N. Gessner, Wade R. Elmore, & Diane L. Filion  
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Jessica L. Hamilton, Diane L. Filion, Harper Page, Robert Hanson, & Meagan Woodall
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99. FOCUS ON THE POSITIVE: DO STARTLE AND POSTAURICULAR DIFFERENTIATE PEOPLE HIGH AND LOW IN TRAIT POSITIVE AFFECT?
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Hans Kirschner¹, Ulrike Lueken², & Katja Beesdo-Baum²
¹University of Exeter, United Kingdom, ²Technical University of Dresden, Germany

101. BRINGING HOME THE BACON: TECHNIQUES FOR AUGMENTING SALIVA COLLECTION
Jacob L. Rouquette¹, Jeremy C. Peres¹, Paul D. Slowey², & Elizabeth A. Shirtcliff¹
¹University of New Orleans, ²Oasis Diagnostics® Corporation

102. CORTICAL REACTIONS TO VERBAL ABUSE: EVENT-RELATED BRAIN POTENTIALS REFLECTING THE PROCESSING OF SOCIAL THREATENING WORDS
Pascal Wabnitz¹, Ulla Martens², & Frank Neuner¹
¹University of Bielefeld, ²University of Osnabrück

103. FACIAL PROCESSING IN SOCIAL PHOBIA: EVENT-RELATED BRAIN POTENTIALS REFLECT DIFFERENCES IN PROCESSING OF SOCIALLY THREATENING FACES
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1 Federal University of Rio de Janeiro, 2 King’s College London, 3 University College London

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Elisa C.K. Steinfurth, Candace M. Raio, & Elizabeth A. Phelps
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106. COGNITIVE EMOTION REGULATION AND AGING: A NEUROPHYSIOLOGICAL STUDY USING THE LATE POSITIVE POTENTIAL
Jennifer M. DeCicco, Amy Medina, Victor Rios, & Tracy A. Dennis
1 The Graduate Center, CUNY and Lafayette College, 2 John Jay College, CUNY, 3 Hunter College, CUNY, 4 Hunter College, CUNY and The Graduate Center, CUNY

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Samantha Berthod, Jennifer DeCicco, Akeesha Simmons, Amishi Jha, & Tracy A. Dennis
1 The Graduate Center, CUNY, 2 The Graduate Center, CUNY and Lafayette College, 3 Hunter College, CUNY, 4 Miami University

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Laura O’Toole, Amy Medina, Sarah Babkirk, & Tracy A. Dennis
1 The Graduate Center, CUNY, 2 Hunter College, CUNY

109. SOCIAL MEDIA USE AND EMOTIONAL BIASES: AN ERP STUDY
Emily J. Dunn, Jennifer DeCicco, & Tracy A. Dennis
1 Hunter College, CUNY, 2 The Graduate Center, CUNY
110. POSITIVE RELATIONS WITH OTHERS IS A RESOURCE FOR SUCCESSFUL EMOTION REGULATION
Philipp C. Opitz¹, Jeffrey L. Birk¹, Sarah R. Cavanagh², & Heather L. Urry¹
¹Tufts University, ²Assumption College

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Karla C. Fettich¹, Eunice Y. Chen¹, Peggy Chau², Kara Christensen³, & Jaleesa Akuoko²
¹Temple University, ²The University of Chicago, ³Brigham and Women's Hospital

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113. PREDICTING THE UNEXPECTED: TRAIT ANXIETY, FRONTAL ALPHA ASYMMETRY, AND STATE NEGATIVE AFFECT PREDICT P3B, BUT NOT FRN, RESPONSES TO UNEXPECTED NEGATIVE FEEDBACK
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114. TRAITS AND EMOTION INFLUENCE INTERNAL CLOCKS: ELECTROPHYSIOLOGICAL AND BEHAVIORAL RESPONSES TO AN AFFECTIVE GO/NOGO TASK
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115. FACILITATION OF SOFT TOUCHES UNDER AFFILIATIVE PRIMING IS PREDICTED BY LPP AMPLITUDES, AFFILIATIVE STATES, AND MUTUAL GROOMING
Rafaela R. Campagnoli¹, Laura Krutman², Isabel A. David³, Isabela Lobo¹, Leticia Oliveira², Mirtes G. Pereira¹ & Eliane Volchan¹
¹Federal University of Rio de Janeiro, ²Fluminense Federal University

116. DIFFERENTIAL EFFECTS OF EMOTION ON PROACTIVE PROCESSES LEADING TO SCENE RECOGNITION: A HIGH DENSITY ERP STUDY
Antonio Schettino, Tom Loeyes, & Gilles Pourtois
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117. THE EFFECT OF SOCIAL ANXIETY ON EYE-MOVEMENTS BEFORE AND DURING PSYCHOSOCIAL STRESS
Andrew J. White & Georg W. Alpers
University of Mannheim

118. ATTENUATED EFFORT MOBILIZATION TO A SOCIAL REWARD IN DYSPHORIA: EVIDENCE FROM CARDIOVASCULAR REACTIVITY
Kerstin Brinkmann, Cyrielle Rossier, & Guido H.E. Gendolla
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119. RUMINATION AND PHYSIOLOGICAL REACTIVITY TO A LABORATORY-BASED STRESSOR
Mary L. Woody, Katie L. Burkhouse, & Brandon E. Gibb
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120. PUPILLARY REACTIVITY TO EMOTIONAL STIMULI IN CHILDREN: THE ROLE OF MATERNAL DEPRESSION AND AGGREGATE GENETIC INFLUENCE
Katie L. Burkhouse¹, Brandon E. Gibb¹, Greg J. Siegle², & John E. McGuey³
¹Binghamton University, SUNY, ²University of Pittsburgh School of Medicine, ³Providence Veterans Affairs Medical Center and Rhode Island Hospital, Brown University
121. A SPECTRUM OF EMOTION DYSREGULATION IN BULIMIA MEASURED WITH AFFECTIVE STARTLE
Erin A. Hazlett¹, Tom Hildebrandt¹, Nicolas G. Fernandez³, Kim E. Goldstein³, Eleanna Varangis², Katharine Loeb⁴, & King-Wai Chu¹
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122. FRONTAL AND PARIETAL ASYMMETRIES PREDICT ATTENTIONAL BIAS TO ANGRY FACES
Gina M. Grimshaw¹, Joshua Foster¹, Jessica Clifton¹, Lisa Hunkin¹, & Paul M. Corballis²
¹Victoria University of Wellington, ²The University of Auckland

123. CHILL REACTIONS INDUCED BY MUSIC AND UNPLEASANT SOUNDS
Katharina Holtz, Kai Klepzig, & Alfons O. Hamm
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124. EFFECTS OF NEW LEARNING ON RECONSOLIDATION OF EMOTIONAL MEMORIES: A HIGH-DENSITY ERP STUDY
Janine Wirkner¹, Mathias Weymar², Andreas Löw¹, & Alfons O. Hamm¹
¹University of Greifswald, ²University of Florida

125. STARTLE REFLEX ATTENUATION DURING IMAGERY OF IDIOGRAPHIC AVERSIVE SCRIPTS IN PATIENTS WITH BORDERLINE PERSONALITY DISORDER AND POSTTRAUMATIC STRESS DISORDER
Anke Limberg¹, Sven Barnow², Harald J. Freyberger¹, & Alfons O. Hamm¹
¹University of Greifswald, ²University of Heidelberg

126. ACTIVATION OF FEAR-RELATED FLIGHT BEHAVIOR DURING A STANDARDIZED BEHAVIORAL AVOIDANCE TEST IS ASSOCIATED WITH INCREASED EFFICACY OF SUBSEQUENT EXPOSURE-BASED CBT IN PATIENTS WITH PANIC DISORDER AND AGORAPHOBIA
Jan Richter, Alfons O. Hamm, & German Panic- Network Consortium
University of Greifswald
127. DOES RED LIGHT SUPPRESS ERP CORRELATES OF EMOTION?
Andreas Löw\textsuperscript{1}, Mathias Weymar\textsuperscript{2}, Janine Wirkner\textsuperscript{1}, & Alfons O. Hamm\textsuperscript{1}
\textsuperscript{1}University of Greifswald, \textsuperscript{2}University of Florida

128. POSTMENOPAUSAL WOMEN SHOW EVIDENCE OF MALADAPTIVE CORTISOL RESPONSES TO STRESS
Danielle Gianferante, Myriam V. Thoma, Anece Ahn, Jennifer Kim, & Nicolas Rohleder
Brandeis University

129. LIFETIME CHRONIC STRESS IS ASSOCIATED WITH CORTISOL AND INTERLEUKIN-6 ADAPTATION TO REPEATED ACUTE STRESS
Xuejie Chen, Myriam V. Thoma, Brian Dahlben, Holly Beaulac, Julius Johnson, Michelle Lerman, & Nicolas Rohleder
Brandeis University

130. DIFFERING ASSOCIATIONS BETWEEN SPONTANEOUS EXPRESSIVE SUPPRESSION AND DEPRESSIVE SYMPTOMS IN PEOPLE WITH AND WITHOUT A HISTORY OF DEPRESSION
Jeffrey L. Birk\textsuperscript{1}, Philipp C. Opitz\textsuperscript{1}, Sarah R. Cavanagh\textsuperscript{2}, Isaac N. Saidel-Goley\textsuperscript{3}, & Heather L. Urry\textsuperscript{1}
\textsuperscript{1}Tufts University, \textsuperscript{2}Assumption College, \textsuperscript{3}Saint Anselm College

131. AFFECT-SPECIFIC ADRENOCORTICAL REACTIVITY IN YOUTHS WITH EARLY-EMERGING BEHAVIORAL PROBLEMS
Georges Han\textsuperscript{1}, Paul D. Hastings\textsuperscript{1}, & Carolyn Zahn-Waxler\textsuperscript{2}
\textsuperscript{1}University of California, Davis, \textsuperscript{2}University of Wisconsin, Madison

132. THE HERITABILITY OF FRONTAL EEG ASYMMETRY: REFERENCE AND SEX DIFFERENCES
Andrew W. Bismark\textsuperscript{1}, William G. Iacono\textsuperscript{2}, Stephen M. Malone\textsuperscript{2}, & John J.B. Allen\textsuperscript{1}
\textsuperscript{1}University of Arizona, \textsuperscript{2}University of Minnesota
Poster Session III
Friday, September 21

Poster Session Schedule

8:00 A.M.–10:00 A.M.  Posters Assembled
10:00 A.M.–6:30 P.M.  Posters Available for Viewing
6:30 P.M.–8:30 P.M.  Authors Present for Discussion and Questions
8:30 P.M.–9:30 P.M.  Dismantle Posters

1. PHYSIOLOGICAL RESPONSES DURING VIOLENT AND NON-VIOLENT GAMES AS A FUNCTION OF PLAYERS’ MOTIVATIONAL ACTIVATION AND PRIOR VIOLENT EXPOSURE
   Satoko Kurita
   Osaka University of Economics

2. RESTING HRV, MOTIVATIONAL REACTIVITY, AND EXECUTIVE FUNCTIONING
   Rachel L. Bailey, Robert F. Potter, David B. Pisoni, & Annie Lang
   Indiana University

3. SEPARATING MOTIVATIONAL ACTIVATION FROM ATTITUDES TOWARD PRIMARY MOTIVATIONAL OBJECTS
   Rachel L. Bailey¹ & Narine S. Yegiyan²
   ¹Indiana University, ²University of California, Davis

4. POSITIVELY NEGATIVE: AN OVERTIME EXAMINATION OF REACTIONS TO COACTIVE MESSAGES
   Justin R. Keene & Annie Lang
   Indiana University

5. NARRATIVE STRUCTURE IN TELEVISION: ASSOCIATING PREDICTION CONFIDENCE AND VALENCE WITH PHYSIOLOGICAL MEASURES
   Curtis B. Matthews¹, Brandon H. Nutting², Sarah E. Kramer³, Samuel A. Moore³, Wan-chu Chuang³, & Samuel D. Bradley³
   ¹Kansas State University, ²University of South Dakota, ³Texas Tech University
6. AFFECTIVE REACTIVITY TO JUNK VS. HEALTHY FOOD IMAGES: LESS APPETITIVE BUT MORE AROUSING
Narine S. Yegiyan\textsuperscript{1} \& Rachel L. Bailey\textsuperscript{2}
\textsuperscript{1}University of California, Davis, \textsuperscript{2}Indiana University

7. DOES THE ORIENTING RESPONSE HABITUATE TO REPEATING AUDITORY STRUCTURAL FEATURES THAT VARY IN SEMANTIC CONTENT?
Robert F. Potter, Matthew Falk, Soyoung Bae, Teresa Lynch, Nicholas L. Matthews, Ashley Kraus, \& Sharon Mayell
Indiana University

8. AFFECTIVE WORDS, VOICE CHANGES, AND PERCEPTUAL LOAD: DICHOTIC PROCESSING OF ATTENDED AND UNATTENDED AUDIO
Wesley T. Wise\textsuperscript{1}, Rachel L. Bottlinger\textsuperscript{2}, Jennifer D. Green\textsuperscript{2}, Jessica E. Stark\textsuperscript{2}, Boni Cui\textsuperscript{2}, Kelli R. Lyons\textsuperscript{2}, \& Samuel D. Bradley\textsuperscript{2}
\textsuperscript{1}Kansas State University, \textsuperscript{2}Texas Tech University

9. NEURAL CORRELATES OF THOUGHT SUPPRESSION IN PATIENTS WITH OBSESSIVE-COMPULSIVE DISORDER
Nele Adler\textsuperscript{1}, Martin Voss\textsuperscript{2}, Gottfried Vosgerau\textsuperscript{3}, Rainer Kniesche\textsuperscript{1}, Norbert Kathmann\textsuperscript{1}, \& Daniela Simon\textsuperscript{1}
\textsuperscript{1}Humboldt-Universität zu Berlin, \textsuperscript{2}Charité Universitätsmedizin Berlin, \textsuperscript{3}Heinrich-Heine-Universität Düsseldorf

10. PERFORMANCE MONITORING IN OCD: DISSOCIATION OF ERN AND ACC ACTIVATION IN A COMBINED EEG/fMRI STUDY
Rosa Gruetzmann\textsuperscript{1}, Leonie Klock\textsuperscript{2}, Christian Kaufmann\textsuperscript{1}, Norbert Kathmann\textsuperscript{1}, \& Tanja Endrass\textsuperscript{1}
\textsuperscript{1}Humboldt-Universität zu Berlin, \textsuperscript{2}Freie Universität Berlin

11. IS PERFORMANCE MONITORING IN OCD ASSOCIATED WITH SYMPTOM STATUS OR SYMPTOM DIMENSIONS?
Tanja Endrass, Anja Riesel, Sandy Kias, Christian Kaufmann, \& Norbert Kathmann
Humboldt-Universität zu Berlin
12. AN EEG STUDY OF ENTROPY AND SURPRISAL DURING ARTIFICIAL GRAMMAR PROCESSING
Angel Tabullo¹, Christophe Pallier², Alejandro Wainselboim¹, & Asaf Bachrach²
¹IBYME - CONICET, ²University of Paris

13. MORE AROUSAL, LESS RISK
Barbara Schmidt, Patrick Mussel, & Johannes Hewig
University of Würzburg

14. ON THE INFLUENCE OF SEQUENTIAL DECISION OUTCOME ORDER ON FEEDBACK-RELATED BRAIN POTENTIALS
Roman Osinsky, Patrick Mussel, & Johannes Hewig
University of Würzburg

15. MEAN CEREBRAL BLOOD FLOW (CBF) DURING AN N-BACK TASK PREDICTS CARDIO-METABOLIC RISK (CMR)
Alicia F. Heim, Matthew F. Muldoon, Jane F. Owens, Lei K. Sheu, Claudiu Schirda, & J. Richard Jennings
University of Pittsburgh

16. GRAY MATTER VOLUME AND MEMORY IN MIDDLE AGE
Lauren B. Yadlosky, J.R. Jennings, Howard J. Aizenstein, Christopher M. Ryan, Matthew F. Muldoon, Sean E. Wo, & Alicia F. Heim
University of Pittsburgh

17. CARDIOVASCULAR ACTIVITY AND FUNCTIONAL IMPULSIVITY IN ADOLESCENTS
Marlen Figueroa-Varela¹, Pedro Guerra¹, Miguel A Muñoz¹, Sonia Rodríguez-Ruiz¹, María C. Fernández-Santaella¹, Rafael Delgado¹, Javier Rodríguez¹, Eduardo García¹, Lourdes Anllo-Vento², & Jaime Vila¹
¹University of Granada, ²University of Granada and F. Olóriz Institute of Neurosciences

18. VIEWING LOVED FACES REDUCES PHYSIOLOGICAL STRESS RESPONSES
Alicia Sánchez-Adam¹, Pedro Guerra¹, Lourdes Anllo-Vento², & Jaime Vila¹
¹University of Granada, ²University of Granada, F. Olóriz Institute for Neuroscience
19. EMOTIONAL IMPACT TO THE DYNAMIC IMAGE OF ONE’S OWN BODY IN BULIMIA NERVOSA
Blanca Ortega-Roldán, Sonia Rodríguez-Ruiz, Sandra Díaz-Ferrer, Jose Luis Mata-Martín, & M. Carmen Fernández-Santaella
University of Granada

20. PSYCHOLOGICAL AND NEUROENDOCRINE MECHANISMS UNDERLYING MIRROR EXPOSURE THERAPY IN BULIMIA NERVOSA
Sandra Díaz-Ferrer¹, Blanca Ortega-Roldán¹, Sonia Rodríguez-Ruiz¹, Silvia Moreno-Domínguez², Triana Bergillos-Meca¹, & M. Carmen Fernández-Santaella¹
¹University of Granada, ²University of Jaén

21. SOCIAL ANXIETY PREDICTS DECREASED NEURAL SELF-OTHER OVERLAP DURING THREAT TO UNFAMILIAR OTHERS
Erin L. Maresh, Lane Beckes, & James A. Coan
University of Virginia

22. HIGHER REJECTION SENSITIVITY AT AGES 17 AND 18 PREDICT LOWER SELF-OTHER OVERLAP IN THE NEURAL RESPONSE TO THREAT
Marlen Z. Gonzalez, Lane Beckes, James A. Coan, & Joseph P. Allen
University of Virginia

23. ATTACHMENT HISTORY PREDICTS A NEURAL SYNCHRONY MEASURE OF SELF-OTHER OVERLAP DURING THREAT
Lane Beckes, James A. Coan, Jospeh P. Allen, & Casey Brown
University of Virginia

24. WHEN THE RULES ARE REVERSED: ACTION-MONITORING CONSEQUENCES OF RESPONSE SWITCHING
Hans S. Schroder & Jason S. Moser
Michigan State University

25. THE MINDSET OF MISTAKES: GROWTH MINDSET INDUCTION FACILITATES ADAPTIVE ERROR PROCESSING AND ADJUSTMENTS
Hans S. Schroder, Jason S. Moser, Brent Donnellann, Carrie Heeter, & Yu Hao Lee
Michigan State University
26. **WORKING MEMORY LOAD ENHANCES ACTION MONITORING: IMPLICATIONS FOR THE STUDY OF ANXIETY**  
Tim P. Moran & Jason S. Moser  
*Michigan State University*

27. **DIFFERENTIAL EFFECTS OF STATE-ANXIETY ON ATTENTIONAL CAPTURE IN TRAIT—ANXIETY AND WORRY: BEHAVIORAL AND NEURAL EVIDENCE**  
Tim P. Moran, Jason S. Moser, & Mark W. Becker  
*Michigan State University*

28. **ERPS ELICITED BY IRRELEVANT SOMATOSENSORY STIMULI TO THE SHOULDERS REFLECT THE AMOUNT OF RESOURCES IN A GAME TASK**  
Fumie Sugimoto & Jun’ichi Katayama  
*Kwansei Gakuin University*

29. **THE TEMPORAL CHANGE IN ATTENTIONAL ALLOCATION FOR DEVIAN T STIMULUS REVEALED BY DEVIAN T P3 DISTRIBUTION**  
Fumihito Morimoto & Jun’ichi Katayama  
¹*Jin-ai University and Kwansei Gakuin University,*  
²*Kwansei Gakuin University*

30. **PARIETAL EEG ALPHA SYMMETRY AND OBSESSIVE-COMPULSIVE SYMPTOMATOLOGY**  
Ezra Smith, Laura Zambrano-Vazquez, Lauritz Dieckman, & John J.B. Allen  
*University of Arizona*

31. **CARDIAC VAGAL CONTROL AND ATTACHMENT IN COLLEGE COUPLES: DOES GENDER PLAY A ROLE?**  
Any a V. Kogan & John J.B. Allen  
*University of Arizona*

32. **THE IMPACT OF OBSESSIONS, COMPULSIONS, WORRY, AND ANXIETY ON THE FEEDBACK-RELATED NEGATIVITY**  
Brian Roller, Laura Zambrano-Vazquez, & John J.B. Allen  
*University of Arizona*
33. THE ROLE OF OBSESSIVE-COMPULSIVE, WORRY, AND ANXIETY SYMPTOMS IN PERFORMANCE MONITORING
Laura Zambrano-Vazquez & John J.B. Allen
University of Arizona

34. MEASURING THE DYNAMICS OF INDIVIDUAL EMOTIONS UNDER ONLINE INTERACTION THROUGH SUBJECTIVE AND PHYSIOLOGICAL RESPONSES
David Garcia¹, Arvid Kappas², Dennis Kuester²,
Mathias Theunis³, Elena Tsankova³, Antonios Garas¹,
Peter Kuppens¹, & Frank Schweitzer¹
¹ETH Zurich, ²Jacobs University Bremen, ³Katholieke Universiteit Leuven

35. CYBEREMOTIONS: AN ANALYSIS OF SYNCHRONOUS COMPUTER MEDIATED COMMUNICATION AND DYADIC INTERACTION
Arvid Kappas, Dennis Kuester, Mathias Theunis, & Elena Tsankova
Jacobs University Bremen

36. SUBSEQUENT TO SUPPRESSION: DOWNSTREAM COMPREHENSION CONSEQUENCES OF NOUN/VERB AMBIGUITY
Mallory C. Stites & Kara D. Federmeier
University of Illinois

37. THE RIGHT HEMISPHERE BREAKS THE RULES: EVENT-RELATED POTENTIALS REVEAL HEMISPHERIC DIFFERENCES IN VISUAL WORD RECOGNITION
Danielle S. Dickson & Kara D. Federmeier
University of Illinois at Urbana-Champaign

38. EFFECT OF PRIMED ATTACHMENT SECURITY AND OXYTOCIN ON PROCESSING OF TRAUMA-RELATED STRESS
Gizem Arikan¹, Kathy Carnelley¹, Lusia Stopa¹, Robert Kunsta², David Baldwin¹, & Anke Karl³
¹University of Southampton, United Kingdom, ²University of Freiburg, Germany, ³University of Exeter, United Kingdom
39. CONTEXTUAL MODULATION OF PHYSIOLOGICAL RESPONSES TRIGGERED BY EMOTIONAL STIMULI
Fujimura Tomomi, Katahira Kentaro, & Okanoya Kazuo
Japan Science and Technology Agency

40. COMPARISON AMONG DIFFERENT MODELS FOR EVALUATING RSA REACTIVITY IN CHILDREN
Santiago Morales, Charles Beekman, Elizabeth L. Davids, & Kristin A. Buss
The Pennsylvania State University

41. DOES RESPIRATORY SINUS ARRHYTHMIA (RSA) PLAY A ROLE IN THE ACQUISITION OF EMOTION REGULATION STRATEGIES DURING COGNITIVE BEHAVIORAL THERAPY (CBT)?
Karen J. Mathewson¹, David A. Moscovitch², Vladimir Miskovic³, Diane L. Santesso², Randi E. McCabe¹, Martin M. Antony⁴, & Louis A. Schmidt¹
¹McMaster University, ²University of Waterloo, ³University of Florida, ⁴Ryerson University

42. RELEVANCE OF THE P3 EVENT-RELATED POTENTIAL AND EXECUTIVE FUNCTION ASSESSMENTS TO CHILDREN'S SOCIAL-EMOTIONAL FUNCTIONING IN KINDERGARTEN
Cynthia J. Willner, Rachel M. Abenavoli, David DuPuis, & Lisa M. Gatzke-Kopp
The Pennsylvania State University

43. PLAYING THE MUSIC: DIFFERENT BRAIN RESPONSES FOR TECHNIQUE OR EXPRESSIVENESS
Marcia K. Higuchi¹, Tiago A. Sanchez², Marcio J. Sturzbecher³, Kelley C. Betti¹, José E. Fornari³, Draulio B. Araujo⁴, Cristina M. Del-Ben¹, Frederico G. Graeff¹, & João P. Leite¹
¹University of São Paulo, ²Federal University of Rio de Janeiro, ³University of Campinas, ⁴Federal University of Rio Grande do Norte

44. SOCIAL DISTANCE AND FRN
Erwin R. Villuendas-Gonzalez, Andres A. Gonzalez-Garrido, & Fabiola R. Gomez-Velazquez
Universidad de Guadalajara
45. **THE EFFECT OF DIFFERENT ORTHOGRAPHIC RECOGNITION ABILITIES ON LEXICAL DECISION: AN EVENT-RELATED POTENTIALS PERSPECTIVE**
Daniel Zarabozo-Hurtado, Andrés A. González-Garrido, Fabiola R. Gómez-Velázquez, & Daniel Zarabozo
*Universidad de Guadalajara*

46. **THREAT TRIGGERS MOTOR PREPARATION**
Orlando Fernandes Jr., Liana C.L. Portugal, Fátima S. Erthal, Tiago A. Sanchez, Letícia Oliveira, & Mirtes G. Pereira
1*Fluminense Federal University, 2Federal University of Rio de Janeiro*

47. **ACTION-LANGUAGE COUPLING: A DEPTH ERP STUDY ON MOTOR (PREMOTOR, M1) AND SEMATIC AREAS (IFG, STS)**
Juan F. Cardona, Yamil Vidal, Alejandro Blenkman, Pia Aravena, Esteban Hurtado, Mirna Nerguizian, Lucia Amoruso, Silvia Kochen, Tristan Bekinschtein, & Agustin Ibanez
1*Institute of Cognitive Neurology, CONICET, and University of Buenos Aires, Argentina, 2Institute of Cognitive Neurology, Argentina, 3Favaloro University, Argentina, 4L2C2-Institut des Sciences Cognitives, France, 5Pontifical Catholic University of Chile, Chile, 6Institute of Cognitive Neurology, CONICET, Argentina, 7University of Buenos Aires, Argentina, 8University of Cambridge, United Kingdom, 9Institute of Cognitive Neurology, CONICET, Argentina, and Diego Portales University, Chile*

48. **FRONTAL CORTEX ACTIVITY EVOKED BY THE TRAIL-MAKING TEST IN ELDERLY AND YOUNG ADULTS**
Laura D. Müller, Julia B.M. Zeller, Thomas Dresler, Tim Hahn, Thomas Polak, Andreas J. Fallgatter, Jürgen Deckert, & Martin J. Herrmann
1*University Hospital Würzburg, 2University Hospital Tübingen, 3Johann Wolfgang Goethe University Frankfurt/Main*
49. MEMORY FOR LEARNING EPISODES AND THE REINSTATEMENT OF CONDITIONED FEAR
Ottmar V. Lipp, Shannon M. Bramwell, Jessica L. Kerin, & Belinda M. Craig
University of Queensland

50. THE DETECTION OF NOVELTY RELIES ON DOPAMINERGIC SIGNALING: EVIDENCE FROM APOMORPHINE’S IMPACT ON THE NOVELTY N2
Mauricio Rangel-Gomez, Clayton Hickey, & Martijn Meeter
VU University Amsterdam

51. MODULATION OF STARTLE REFLEXES TO PICTURES OF EMOTIONAL AND NEUTRAL FACES WITH LOW AND HIGH AMPLITUDE IN LOW SPATIAL FREQUENCIES
Morten Øvervoll & Ole Åsli
The University of Tromsø

52. THE LATENCY OF THE INSTRUCTED FEAR REACTION
Ole Åsli
The University of Tromsø

53. TOP-DOWN VERSUS BOTTOM-UP: NEURAL, AUTONOMIC, AND BEHAVIORAL CORRELATES OF THREAT PROCESSING
Sara V. Túpak¹, Thomas Dresler², Anne Guhn¹, Martin J. Herrmann¹, Paul Pauli¹, Jürgen Deckert¹, Ann-Christine Ehlis², & Andreas J. Fallgatter²
¹University of Würzburg, ²University of Tübingen

54. EFFECTS OF REPEITIVE TRANSCRANIAL MAGNETIC STIMULATION (RTMS) ON THE EXTINCTION OF CONDITIONED FEAR
Anne Guhn¹, Thomas Dresler², Michael M. Plichta³, Sara V. Túpak¹, Agnes Gajewska¹, Thomas Polak¹, Jürgen Deckert¹, & Martin J. Herrmann¹
¹University of Würzburg, ²University of Tübingen, ³University of Heidelberg and Medical Faculty Mannheim

55. MOTOR PROGRAMMING OF RESPONSE COMPLEXITY AND MOVEMENT DURATION
Lu Xu¹, Werner Sommer², & Hiroaki Masaki¹
¹Waseda University, ²Humboldt University
56. ACUTE AEROBIC EXERCISE INFLUENCES ON EXECUTIVE CONTROL ASSESSED BY TASK SWITCHING PARADIGM
Seong-Ryu Bae & Hiroaki Masaki
Waseda University

57. DOES SKILLED-PERFORMANCE POSITIVITY REPRESENT TIMING CONTROL?
Hiroaki Masaki & Lu Xu
Waseda University

58. EARLY VISUAL PROCESSING: THE ROLE OF SPATIAL FREQUENCIES AND IDENTIFICATION AS REVEALED BY ERPS
Serena Mastria, Andrea De Cesarei, & Maurizio Codispoti
University of Bologna

59. PHASIC HEART RATE VARIABILITY CHANGES PREDICT CLINICAL OUTCOMES OF EMOTION REGULATION THERAPY FOR GENERALIZED ANXIETY DISORDER AND COMORBID DEPRESSION
Douglas S. Mennin¹, David M. Fresco², & Amelia Aldao³
¹Hunter College, CUNY, ²Kent State University, ³The Ohio State University

60. DISPOSITIONAL MINDFULNESS AND HEART RATE VARIABILITY IN GENERALIZED ANXIETY DISORDER
Annette M. Mankus¹, Amelia Aldao³, Caroline Kerns³, Elena Wright Mayville⁴, & Douglas S. Mennin¹
¹Hunter College, CUNY, ²Yale University and Weill Cornell Medical School, ³Boston University, ⁴Yale University

61. CONTINGENCY AWARENESS IN CLASSICALLY CONDITIONED RESPONSES TO STIMULI THAT ARE DIFFICULT TO DISCRIMINATE
Kulwinder Singh¹, Michael E. Dawson¹, Christopher G. Courtney¹, Anne M. Schell², & Andrew F.H. Payne³
¹University of Southern California, ²Occidental College
62. **NAVIGATING THROUGH VIRTUAL IRAQ: EFFECTS OF THREAT AND COGNITIVE WORKLOAD ON BEHAVIORAL PERFORMANCE AND PSYCHOPHYSIOLOGY**
Christopher G. Courtney¹, Michael E. Dawson², & Thomas D. Parsons¹
¹University of Southern California, Institute for Creative Technologies, ²University of Southern California

63. **CAN YOU GIVE ME A HAND? A COMPARISON OF HANDS AND FEET AS OPTIMAL ANATOMICAL SITES FOR SKIN CONDUCTANCE RECORDING**
Andrew F.H. Payne¹, Michael E. Dawson¹, Kulwinder Singh¹, Christopher G. Courtney¹, & Anne M. Schell²
¹University of Southern California, ²Occidental College

64. **EVENT-RELATED POTENTIAL CORRELATES OF AFFECTIVE PICTURE DIFFERENTIATION IN HIGH-FUNCTIONING AUTISM SPECTRUM DISORDERS (ASD)**
Whitney A. Worsham, Mikle South, & Michael J. Larson
Brigham Young University

65. **EFFECTS OF DOPAMINE DEPLETION ON ERROR-RELATED ELECTROPHYSIOLOGICAL INDICES OF PERFORMANCE MONITORING**
Michael J. Larson¹, Peter E. Clayson², Justin L. Hoskin¹, Mark D. Primosch¹, Samuel W. Bergin¹, Ann Clawson¹, & Scott C. Steffensen¹
¹Brigham Young University, ²University of California, Los Angeles

66. **EVENT-RELATED POTENTIAL (ERP) AMPLITUDE AND LATENCY MEASUREMENT: A SIMULATION-BASED METHODOLOGICAL CRITIQUE**
Peter E. Clayson¹, Scott A. Baldwin², & Michael J. Larson¹
¹University of California, Los Angeles, ²Brigham Young University
67. EFFECTS OF DOPAMINE DEPLETION ON ELECTROPHYSIOLOGICAL CORRELATES OF CONFLICT MONITORING AND RESOLUTION
Peter E. Clayson¹, Justin L. Hoskin², Mark D. Primosch², Samuel W. Bergin², Ann Clawson², Scott C. Steffensen², & Michael J. Larson²
¹University of California, Los Angeles, ²Brigham Young University

68. CONFLICT ADAPTATION PROCESSES IN ANXIETY: IMPLICATIONS FOR PSYCHIATRIC AND NON-PSYCHIATRIC POPULATIONS
Ann Clawson¹, Peter E. Clayson³, & Michael J. Larson¹
¹Brigham Young University, ²University of California, Los Angeles

69. CARDIOVASCULAR RESPONSES TO LATERALIZED FACIAL COOLING AND FOOT COLD PRESSOR TASKS: IMPLICATIONS FOR ANS REGULATION MODELS
Jared J. McGinley, Kate Magruder, Anarkali R. Morrill, Jessica Worthen, Matt Flamini, & Bruce H. Friedman
Virginia Tech

70. SEX DIFFERENCES IN THE RELATIONSHIP BETWEEN ANTISOCIAL BEHAVIOR AND P3 AMPLITUDE
Jonathan A. Klaphake¹, Scott R. Carlson², Stephen M. Malone¹, & William G. Iacono¹
¹University of Minnesota, Twin Cities, ²University of Minnesota, Duluth

71. ERN AMPLITUDE ASSOCIATIONS WITH LIFETIME SUBSTANCE USE AND ANTISOCIAL BEHAVIOR
Jonathan A. Klaphake¹, Uma Vaidyanathan¹, Stephen M. Malone¹, Edward M. Bernat³, & William G. Iacono¹
¹University of Minnesota, Twin Cities, ²Florida State University
72. **ELECTROPHYSIOLOGICAL DECOMPOSITION OF MOTOR RESPONSE EXECUTION USING CORTICAL CURRENT DENSITY SOURCE MODELING**
Scott J. Burwell, Stephen M. Malone, Edward M. Bernat, & William G. Iacono

University of Minnesota, Florida State University

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73. **THE EFFECT OF RECURRENT MDD ON AFFECTIVE STARTLE MODULATION**
Evan J. Welo, Uma Vaidyanathan, Scott J. Burwell, Stephen M. Malone, & William G. Iacono

University of Minnesota

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74. **THE HERITABILITY OF THE STARTLE BLINK REFLEX: BEHAVIOR AND MOLECULAR GENETIC INVESTIGATIONS**
Uma Vaidyanathan, Stephen M. Malone, Michael B. Miller, Scott Burwell, Evan Welo, Matt McGue, & William G. Iacono

University of Minnesota

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75. **FEARLESSNESS AND CARDIAC DEFENSE RESPONSE**
Alicia Fonfría, Raúl López, Rosario Poy, Pilar Segarra, Àngels Esteller, Carlos Ventura, Pablo Ribes, Andreea Sutu, & Javier Moltó

Universitat Jaume I

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76. **PSYCHOPATHY AND THE ERROR-RELATED NEGATIVITY (ERN): THE ROLE OF EXTERNALIZING TENDENCIES**
Àngels Esteller, Pablo Ribes, Rosario Poy, Pilar Segarra, Raúl López, Alicia Fonfría, Carlos Ventura, Andreea Sutu, & Javier Moltó

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77. **GENDER-SPECIFIC ASSOCIATIONS BETWEEN DEFICIENT FEAR-POTENTIATED STARTLE AND TRAIT FEARLESSNESS**
Rosario Poy, Pilar Segarra, Raúl López, Àngels Esteller, Alicia Fonfría, Pablo Ribes, Carlos Ventura, Andreea Sutu, & Javier Moltó

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78. THE TRIARCHIC MODEL OF PSYCHOPATHY AND HEART RATE VARIABILITY
Pilar Segarra, Alicia Fonfría, Roser Poy, Raúl López, Àngels Esteller, Pablo Ribes, Carlos Ventura, Andreea Sutu, & Javier Moltó
Universitat Jaume I

Raúl López, Rosario Poy, Pilar Segarra, Àngels Esteller, Alicia Fonfría, Carlos Ventura, Pablo Ribes, Andreea Sutu, & Javier Moltó
Universitat Jaume I

80. SEROTONIN TRANSPORTER GENETIC VARIATION MODERATES THE RELATIONSHIP BETWEEN COMBAT STRESS AND BIASED ATTENTION FOR FEAR STIMULI AMONG SOLDIERS DEPLOYED IN IRAQ
Seth G. Disner, Christopher G. Beevers, & Michael J. Telch
University of Texas at Austin

81. THE PERSISTENT INFLUENCE OF CONCUSSION ON NEUROELECTRIC FUNCTION AND RESPONSE VARIABILITY
Robert D. Moore1, Chien-Ting Wu1, Matthew B. Pontifex2, Steven P. Broglio1, & Charles H. Hillman1
1University of Illinois, 2Michigan State University, 3University of Michigan

82. THE LONG-TERM INFLUENCE OF MILD HEAD INJURY ON CHILDREN’S NEUROCOGNITIVE DEVELOPMENT: A PRELIMINARY INVESTIGATION
Robert D. Moore & Charles H. Hillman
University of Illinois

83. ERPS REVEAL EFFECTS OF THE SELF-POSITIVITY BIAS DURING ONLINE PROCESSING OF SOCIAL VIGNETTES
Eric C. Fields1, Camila Carneiro de Lima1, Rohan Natraj1, Erich Tusch1, & Gina R. Kuperberg2
1Tufts University, 2Tufts University and Massachusetts General Hospital
84. ACUTE EXERCISE MODULATES P3 AMPLITUDE FOR CHILDREN WHO NEED IT MOST: AN ERP STUDY OF INDIVIDUAL DIFFERENCES USING THE FLANKER TASK
Eric S. Drollette, Matthew B. Pontifex, Mark R. Scudder, Lauren B. Raine, Brian J. Saliba, & Charles H. Hillman
University of Illinois at Urbana-Champaign

85. THE ASSOCIATION BETWEEN AEROBIC FITNESS AND SEMANTIC PROCESSING IN CHILDREN
Mark R. Scudder¹, Kara D. Federmeier¹, Lauren B Raine¹, Artur Direito⁲, Jeremy Boyd³, & Charles H. Hillman¹
¹University of Illinois at Urbana-Champaign, ²Vrije Universiteit Amsterdam, ³University of California, San Diego

86. CHILDHOOD OBESITY AND ACTION MONITORING
Keita Kamijo¹, Matthew B. Pontifex², Naiman A. Khan³, Lauren B. Raine³, Mark R. Scudder³, Eric S. Drollette³, Ellen M. Evans³, Darla M. Castelli³, & Charles H. Hillman³
¹Waseda University, ²Michigan State University, ³University of Illinois at Urbana-Champaign, ⁴University of Georgia, ⁵University of Texas at Austin

87. INTERACTION EFFECTS OF MOOD VALENCE AND AROUSAL ON THE BREADTH OF ATTENTION IN EARLY VISUAL PROCESSING
Hiroki Moriya & Hiroshi Nittono
Hiroshima University

88. ABSOLUTE VALUE AND RELATIVE VALUE IN INCENTIVE ANTICIPATION
Asako Toyama & Hideki Ohira
Nagoya University

89. THE IMPACT OF FEAR CONDITIONING ON DECISION-MAKING: A LEARNING ACCOUNT OF AVOIDANCE
Andre Pittig¹, Michelle G. Craske², Georg W. Alpers¹, & Elisa Berdica¹
¹University of Mannheim, ²University of California, Los Angeles
90. BETTER CARDIAC AUTONOMIC REGULATION DURING CHALLENGE HELPS COMPASSIONATE PARENTS TO AVOID AUTHORITARIAN PARENTING
Jonas G. Miller, Sarah Kahle, Monica Lopez, & Paul D. Hastings
University of California, Davis

91. ALPHA OSCILLATIONS IN RESPONSE TO AFFECTIVE AND CIGARETTE-RELATED STIMULI IN SMOKERS

1 Baylor College of Medicine, 2 The University of Texas MD Anderson Cancer Center

92. CONDITIONING OF STIMULI FROM THE BEGINNING AND TERMINAL STAGE OF SMOKING LEADS TO DIFFERENTIAL PHYSIOLOGICAL RESPONSES
Markus H. Winkler, Ronald F. Mucha, Bastian Stippekohl, Rudolf Stark, & Paul Pauli

1 University of Würzburg, Institute for Psychology, 2 University of Giessen, Bender Institute of Neuroimaging

93. THREAT, PAIN, AND BRAIN—NEURAL AND PHYSIOLOGICAL CORRELATES OF DIVERGENT EFFECTS OF FEAR AND ANXIETY ON THE PERCEPTION OF PAIN
Philipp Reicherts, Matthias J. Wieser, Antje B.M. Gerdes, Andreas Mühlberger, & Paul Pauli

1 University of Würzburg, 2 University of Mannheim

94. ERP MEASURES OF INHIBITION ON A GO/NO-GO TASK IN PATIENTS WITH MILD COGNITIVE IMPAIRMENT, ALZHEIMER DISEASE, AND HEALTHY CONTROLS
Natalie A. Phillips & Erin K. Johns
Concordia University

95. ERP MEASURES OF WORKING MEMORY IN PATIENTS WITH MILD COGNITIVE IMPAIRMENT, ALZHEIMER DISEASE, AND HEALTHY CONTROLS
Natalie A. Phillips, Erin K. Johns, & Guido A. Powell
Concordia University
96. ATTENTION SHIFTS AND PHENOMENOLOGY OF VISUAL EXPERIENCE
Vitor Pereira, Isabel Fonseca, João Branquinho, Inês Reis, Inês Raposo, & Ana Marques
University of Lisbon

97. UNCONSCIOUS PROCESSING OF FACIAL EMOTIONS REVEALED BY ERPS RECORDED TO UPRIGHT AND INVERTED FEARFUL AND HAPPY FACES
Wioleta Walentowska & Eligiusz Wronka
Jagiellonian University

98. INFLUENCE OF SUBLIMINAL EMOTION STIMULATION ON PHENOMENIC EXPERIENCE: BEHAVIORAL AND ERPS INDICATORS
Isabel Fonseca, Vitor Pereira, Inês Reis, Inês Raposo, & Ana Marques
University of Lisbon

99. DIFFERENCES IN EMOTIONAL RESPONSIVENESS AND AFFECTIVE CONTROL AS REVEALED BY VISUAL ERP COMPONENT CLUSTERING
Miroslaw Wyczesany & Szczepan J. Grzybowski
Jagiellonian University

100. THE ROLE OF AMBIENT TEMPERATURE IN FACIAL EMOTION RECOGNITION
Rodrigo C. Vergara, Vladimir Lopez, & Diego Cosmelli
Pontifical Catholic University of Chile

101. EFFECTS OF EMOTIONAL CONTEXTS ON RESPONSE INHIBITION IN ADOLESCENTS WITH HIGH AND LOW BEHAVIORAL REGULATION CAPACITIES
Juan Hernández, Andrés González-Garrido, & Julieta Ramos-Loyo
Instituto de Neurociencias

102. EFFECTS OF NUMBER OF TARGETS AND INTER-TARGET DISTANCE ON N2PC: A STUDY EMPLOYING THE MULTIPLE FRAME PROCEDURE (MFP)
Mahesh M. Casiraghi¹, Roberto Dell’Acqua¹, Ulysse Fortier-Gauthier², & Pierre Jolicœur²
¹University of Padova, ²Université de Montréal
103. UNPLEASANT BODY POSTURE DOES NOT INDUCE AFFECTIVE MODULATION OF STARTLE
Erik Ceunen, Wim Dankaerts, Johan W.S. Vlaeyen, & Ilse Van Diest
KU Leuven

104. RECURRENT PAINFUL INTEROCEPTIVE SENSATIONS OF THE DIGESTIVE TRACT INCREASE GENERAL AUTONOMIC DEFENSIVE RESPONSE ACTIVATION REGARDLESS OF PICTURE INDUCED VALENCE
Erik Ceunen, Natacha Herssens, Lukas Van Oudenhove, Katrien Bogaerts, Huynh G. Ly, Steven J. Coen, Jan Tack, Johan W.S. Vlaeyen, & Ilse Van Diest
KU Leuven

105. DIFFERENCES IN AUTONOMIC DEFENSIVE RESPONSES BETWEEN AVERSIVE DYSPNEIC AND COLD PAIN CHALLENGES DUE TO HOMEOSTATIC REGULATORY MECHANISMS
Erik Ceunen, Johan W.S. Vlaeyen, & Ilse Van Diest
KU Leuven

106. INTEROCEPTIVE FEAR CONDITIONING AND CONTINGENCY AWARENESS
Meike Pappens, Omer Van den Bergh, & Ilse Van Diest
University of Leuven

107. INDIVIDUAL DIFFERENCES IN EXECUTIVE FUNCTION PREDICT EMOTIONAL REACTIVITY TO AND RECOVERY FROM NEGATIVE STIMULI IN FEMALES, BUT NOT MALES, IN TWO SEPARATE STUDIES
Stacey M. Schaefer¹, Carien M. van Reekum², Regina C. Lapate¹, Catherine J. Norris³, Lucas D. Hinsenkamp¹, Lauren K. Gresham³, David R.W. Bachhuber¹, & Richard J. Davidson¹
¹University of Wisconsin, Madison, ²University of Reading, ³Dartmouth College

108. THE EFFECT OF CHILDHOOD EXPERIENCES ON ACUTE PSYCHOSOCIAL STRESS RESPONSES IS MEDIATED BY SELF-ESTEEM
Juliette Saltz, Myriam V. Thoma, Ynbal Landesman, Rupert Thomas Jr., & Nicolas Rohleder
Brandeis University
109. BEYOND THE SES-HEALTH GRADIENT: LOWER SUBJECTIVE SOCIAL STATUS PREDICTS A HIGHER IL-6 RESPONSE TO ACUTE STRESS
June A. He¹, Myriam V. Thoma², Alex Fiksdal², Michelle Lerman², & Nicolas Rohleder²
¹Syracuse University, ²Brandeis University

110. CORTISOL STRESS RESPONSES: WHAT MATTERS MORE, HOW ONE FEELS ABOUT ONE’S WEIGHT AND OVERALL APPEARANCE, OR WHAT OTHERS THINK?
Sarah B. Lupis, Myriam V. Thoma, Nicolas Rohleder, & Jutta M. Wolf
Brandeis University

111. COMBINING THE P300-COMPLEX TRIAL-BASED CONCEALED INFORMATION TEST AND THE REACTION TIME-BASED AUTOBIOGRAPHICAL IMPLICIT ASSOCIATION TEST IN CONCEALED MEMORY DETECTION
Xiaoqing Hu & J. Peter Rosenfeld
Northwestern University

112. ECOLOGICAL VALIDITY AND COUNTERMEASURE MECHANISMS IN P300 CONCEALED INFORMATION TESTS
Michael R. Winograd & J. Peter Rosenfeld
Northwestern University

113. DETECTION OF CONCEALED INFORMATION IN A MOCK CRIME SCENARIO WITH A NOVEL DUAL PROBE COMPLEX TRIAL PROTOCOL (DPCTP) AND PICTORIAL STIMULI
Elena Labkovsky & J. Peter Rosenfeld
Northwestern University

114. ATTENUATED CARDIOVASCULAR REACTIVITY IN DEPRESSION IS MOOD-STATE DEPENDENT
Lauren M. Bylsma, Kristi E. White, Robert J. Gougelet, Kristen Salomon, & Jonathan Rottenberg
University of South Florida
115. SENSITIVITY TO UNPREDICTABLE THREAT IN INDIVIDUALS WITH PANIC DISORDER AND/OR ALCOHOL DEPENDENCE
Stephanie M. Gorka, Brady D. Nelson, Casey Sarapas, Miranda L. Campbell, Andrea C. Katz, Sarah Kate McGowan, & Stewart A. Shankman
University of Illinois, Chicago

116. THE MEDIATING EFFECT OF PREFRONTAL ASYMMETRY ON THE RELATIONSHIP BETWEEN COMT SNP AND TRAIT CONSUMMATORY POSITIVE AFFECT
Andrea C. Katz, Casey Sarapas, Brady D. Nelson, Miranda L. Campbell, Stephanie M. Gorka, Patel R. Shitalben, Jeffrey R. Bishop, & Stewart A. Shankman
University of Illinois, Chicago

117. DOES HEIGHTENED SENSITIVITY TO PREDICTABLE VS. UNPREDICTABLE THREAT INDEX RISK FOR PANIC DISORDER? A STARTLE ELECTROMYOGRAPHY INVESTIGATION
Brady D. Nelson, E. Jenna Robison-Andrew, Sarah E. Altman, Casey Sarapas, Miranda L. Campbell, Andrea C. Katz, Stephanie M. Gorka, Sarah Kate McGowan, & Stewart A. Shankman
University of Illinois, Chicago

118. VARIATION IN SEROTONIN TRANSPORTER GENE PREDICTS STARTLE RESPONSE TO CUED BUT NOT CONTEXTUAL THREAT
Casey Sarapas, Bishop R. Jeffrey, Patel R. Shitalben, Brady D. Nelson, Miranda L. Campbell, & Stewart A. Shankman
University of Illinois, Chicago

119. ATROPHY OF PRE-SMA UNIQUELY PREDICTS REDUCED WORKING MEMORY CAPACITY IN PARKINSON'S DISEASE
Fernando Valle-Inclan¹, Eun-Young Lee², Nelson Cowan², Jeffrey D. Johnson², Shawn Christ², Terry Rolan³, & Steven A. Hackley²
¹University of La Coruna, Spain, ²University of Missouri, United States

120. IS MISMATCH NEGATIVITY DELAYED IN FIRST HOSPITALIZED BIPOLAR DISORDER?
Dean F. Salisbury & Elizabeth J. Ronan
HMS McLean Hospital
121. AN ELECTROPHYSIOLOGICAL STUDY OF MASKED SEMANTIC PRIMING IN SCHIZOPHRENIA
Maya Libben, Elizabeth Ronan, & Dean Salisbury
HMS McLean Hospital

122. HIGH-APPROACH POSITIVE AFFECT INCREASES AGGRESSIVE RESPONSES TO PROVOCATION: AN EEG STUDY
David Tang¹, Brett Grant¹, Brandon Schmeichel¹, & Eddie Harmon-Jones²
¹Texas A&M University, ²University of New South Wales

123. NEURAL CORRELATES UNDERLYING SELF-CONTROL AND APPROACH MOTIVATION: ERROR-RELATED NEGATIVITY AND LATE POSITIVE POTENTIALS
Adrienne Crowell¹, Kim Hawkins¹, Nicholas Kelley¹, Brett Grant¹, Eddie Harmon-Jones², & Brandon Schmeichel¹
¹Texas A&M University, ²University of New South Wales

124. UNCONSCIOUS AUTOMATIC ACTIVATION OF CONCEPTUAL ACTION AND SOUND FEATURES DURING PASSIVE VIEWING IN A MASKED FEATURE PRIMING PARADIGM
Natalie M. Trumpp, Felix Traub, & Markus Kiefer
University of Ulm

125. ACTION OBSERVATION INFLUENCES PERCEPTION: fMRI AND ERP EVIDENCE FOR A FUNCTIONAL ROLE OF ACTION REPRESENTATIONS IN VISUAL OBJECT RECOGNITION
Markus Kiefer¹, Eun-Jin Sim¹, Hannah B. Helbig², & Markus Graf³
¹University of Ulm, ²Max Planck Institute for Biological Cybernetics, ³Max Planck Institute for Human Cognitive and Brain Sciences

126. EXECUTIVE CONTROL IN CHILDREN WITH ATTENTION DEFICIT HYPERACTIVITY DISORDER
I-hsuan Shen & Han-yun Hsiao
Chang Gung University
127. THE EFFECT OF FEEDBACK ON ERROR MONITORING IN CHILDREN WITH ATTENTION-DEFICIT HYPERACTIVITY DISORDER: AN EVENT-RELATED POTENTIAL STUDY
I-hsuan Shen & Mei-heng Lin
Chang Gung University

128. DECREASED RESPONSE MONITORING IN INDIVIDUALS WITH TRICHOTILLOMANIA SYMPTOMS
Kathryn T. Roberts, Emily M. Stanley, & Robert F. Simons
University of Delaware

129. INTERPERSONAL CONFLICTS INFLUENCED OUTCOME EVALUATION IN CHICKEN GAME: AN ERP STUDY
Emily M. Stanley¹, Bo Yuan², Zhen Zhang², Kathryn T. Roberts¹, Xiufeng Yu², Yiwen Wang², & Robert F. Simons¹
¹University of Delaware, ²Tianjin Normal University

130. STIMULUS DRIVEN ELECTROPHYSIOLOGICAL MEASURES OF RESPONSE INHIBITION
Christina Hong, Austin Katona, & Robert F. Simons
University of Delaware

131. NEURAL CORRELATES OF IMPLICIT AND EXPLICIT RACIAL PREJUDICE: N100, P200, N400
Hannah I. Volpert, Eric Hehman, & Robert F. Simons
University of Delaware

132. RESTING VAGAL REGULATION PREDICTS TESTOSTERONE RESPONSES TO OBSERVED VIOLENCE
Eric C. Porges, Karen E. Smith, & Jean Decety
University of Chicago

133. KINDNESS VERSUS HOSTILITY: ELECTRICAL BRAIN DYNAMICS OF UNDERSTANDING INTERACTIVE INTENTIONS OF OTHER PEOPLE
Liang Huang, Zhen Zhang, Cuili Du, Yan Li, & Yiwen Wang
Tianjin Normal University
134. HOW AFFECTIVE STATES IMPACT ON DECODING OTHER’S EMOTION IN EYES: AN ERP STUDY
Jie Wu, Yuwei Zheng, Liang Huang, Lei Pan, & Yiwen Wang
Tianjin Normal University

135. REWARD SALIENCE VS. POSITIVITY: REWARDS (BUT NOT REWARD EXPECTANCY) MODULATE THE LATE POSITIVE POTENTIAL
Bryan D. Poole, Michael Mintz, Sydney Gruber, & Philip A. Gable
The University of Alabama

136. WINNING ISN’T EVERYTHING: GOAL-RELEVANCE IN POSITIVE PICTURES MODULATES FRONTAL CORTICAL ASYMMETRY
Bryan D. Poole, Sara Seale, & Philip A. Gable
The University of Alabama

137. AFFECT AND TASK MODULATION OF THE LPP VARY AS A FUNCTION OF DISPLAY DURATION
David L. Adams¹, Kenyanita C.Y. Ellis¹, Greg Hajcak², & Philip A. Gable¹
¹The University of Alabama, ²Stony Brook University

138. ALCOHOL CUES, APPROACH BIAS, AND INHIBITORY CONTROL: APPLYING A DUAL PROCESS MODEL OF ADDICTION TO ALCOHOL SENSITIVITY
Kimberly A. Fleming & Bruce D. Bartholow
University of Missouri
Poster Session IV
Saturday, September 22

Poster Session Schedule

8:00 A.M.–10:00 A.M. Posters Assembled
10:00 A.M.–2:30 P.M. Posters Available for Viewing
2:30 P.M.–4:30 P.M. Authors Present for Discussion and Questions
4:30 P.M.–5:30 P.M. Dismantle Posters

1. CARDIOVASCULAR REGULATION UNDER ORTHOSTATIC STRESS IN ASSESSING GLUCOSE TOLERANCE
Dmitry M. Davydov¹, Róza Czabak-Garbacz², & Weronika Stasiuk³
¹P.K. Anokhin Institute of Normal Physiology, ²Medical University of Lublin

2. EEG ANALYSIS IN CHILDREN WITH ATTENTION DEFICITY/HYPERACTIVITY DISORDERS
Irma I.O. Khachidze¹, Victor V.I. Maloletnev², & Manana M.V. Gugushvili³
¹Beritashvili Centre of Experimental Medicine and Ilia State University, ²Beritashvili Centre of Experimental Medicine

3. HEART RATE RESPONSE TO PACED 0.1 HZ BREATHING IN 8 TO 10 YEARS OLD CHILDREN
Andrey Gorbunov¹, Vladimir Trubachev¹, Vera Trubacheva², Elena Veselkova², & Evgeny Vaschillo³
¹Moscow Open Social Academy, Mari Branch, ²Mari State University, ³Rutgers, The State University of New Jersey

4. THE DIFFERENTIAL ASSOCIATION BETWEEN ADIPOSITY, FITNESS, AND COGNITIVE CONTROL IN PREADESCENT CHILDREN
Matthew B. Pontifex¹, Keita Kamijo², Mark R. Scudder³, Lauren B. Raine³, Naiman A. Khan³, Ellen M. Evans³, Darla M. Castelli³, & Charles H. Hillman³
¹Michigan State University, ²Waseda University, ³University of Illinois at Urbana-Champaign, ⁴University of Georgia, ⁵University of Texas at Austin
5. PHYSIOLOGICAL REACTIVITY AND HABITUATION TO A CONTINUOUS AUDITORY TONE IN CHILDREN WITH SENSORY OVER-RESPONSIVITY AND RELATIONSHIP TO ADHD BEHAVIORS
Jillian C. Sullivan, Sarah A. Schoen, Darci M. Nielsen, & Lucy J. Miller
Sensory Processing Disorder Foundation

6. PATTERN COMPLETION IN PROCESSING EMOTIONAL CUES
Harald T. Schupp, Tobias Flaisch, Ursula Kirmse, Ralf Schmälzle, Frank Häcker, Alexander Barth, & Christoph Becker
University of Konstanz

7. ERP DIFFERENCES BETWEEN CHILDREN WITH DIFFERENT MATH ACHIEVEMENT LEVEL IN AN ARITHMETIC FACT RETRIEVAL TASK
Fabiola R. Gomez-Velazquez, Minerva Altamirano-Rios, & Andres A. Gonzalez-Garrido
University of Guadalajara

8. NITRC: NEUROIMAGING INFORMATICS TOOLS AND RESOURCES CLEARINGHOUSE, A SUCCESSFUL KNOWLEDGE ENVIRONMENT FOR THE NEUROIMAGING RESEARCHER
Arnaud Delorme
University of California, San Diego

9. THE IMPACT OF TEAM ENVIRONMENT ON ATTENTIONAL RESERVE
Matthew W. Miller¹, Alessandro Presacco², Lawrence J. Groman³, Sean Bur³, Jeremy C. Rietschel¹, Rodolphe J. Gentili³, Craig G. McDonald⁴, Seppo E. Iso-Ahola², & Bradley D. Hatfield³
¹Auburn University, ²University of Maryland, ³Veteran’s Health Administration, ⁴George Mason University

10. PROCESSING EMOTIONAL INFORMATION IS MORE AUTOMATIC IN L1 THAN IN L2: ERP EVIDENCE FROM CHINESE-ENGLISH BILINGUALS
Siyao Li¹, Wuwei Fan¹, & Taomei Guo²
¹Beijing Normal University, ²State Key Laboratory of Cognitive Neuroscience and Learning, Beijing Normal University
11. ELECTROPHYSIOLOGICAL DYSFUNCTION IN PSYCHOPATHIC VIOLENT WOMEN
Ana Calzada-Reyes¹, Alfredo Alvarez², Lídice Galán-García³, & Mitchell Valdés-Sosa⁴
¹Legal Medicine Institute, Havana, Cuba, ²Cuban Center of Neuroscience

12. CEREBRAL BLOOD FLOW DYNAMICS DURING PAIN PROCESSING IN PATIENTS WITH FIBROMYALGIA SYNDROME
Stefan Duschek¹, Tanja Mannhart¹, Jana Wörsching¹, & Gustavo A. Reyes del Paso²
¹University of Munich, ²University of Jaén

13. ACTION PLANNING AND THETA FREQUENCY IN A VISUO-SPATIAL WORKING MEMORY TASK
Ana Garcia, Flavia S. Belham, Carlos Uribe, Maria Clotilde H. Tavares, & Carlos Tomaz
University of Brasilia

14. EEG CORRELATES OF AFFECTIVE PICTURE VIEWING IN DIFFERENT PHASES OF THE MENSTRUAL CYCLE: ASSOCIATION WITH EMPATHY LEVEL
Viktoriia Kravchenko¹, Katerina Maksymovich¹, Valentyna Dubovyk², & Mykola Makarchuk¹
¹Taras Shevchenko National University of Kyiv, ²Ruhr-Universitat Bochum, IGSN

15. EVIDENCE FOR TWO DISTINCT PREFRONTALLY GENERATED PROCESSES CONTRIBUTING TO COGNITIVE INHIBITION: A COMBINED FNIRS-ERP STUDY
Alica C. Dieler¹, Thomas Dresler², Martin J. Herrmann³, & Andreas J. Fallgatter²
¹University Munich, ²University Tübingen, ³University Würzburg

16. AN EVENT-RELATED POTENTIAL STUDY OF SOCIAL STIMULUS PROCESSING IN ADOLESCENTS
Jill Grose-Fifer, Alison Higgins, Lillian Pena, Brooke Chiusano, Daianna Rodriguez, & Vera Kurmlavage
John Jay College of Criminal Justice, CUNY
17. COMPUTATIONAL ECONOMY AND PRAGMATIC MEANING IN PRONOUN RESOLUTION: AN EVENT-RELATED POTENTIAL STUDY WITH YOUNG AND OLDER SPEAKERS OF EUROPEAN PORTUGUESE
José G. Leitão, Maria T. Carvalho, Luís Pires, & Luís Tojo
University of Coimbra

18. Withdrawn

19. DIFFUSION WEIGHTED IMAGING (DWI) MULTI-VOXEL PATTERN ANALYSIS (MVPA) OF INTELLIGENCE IN THE CUBAN POPULATION
Maria L. Bringas-Vega¹, Yaritza Villareal-Recio², Gertrudis Hernandez³, Pedro A. Valdes-Hernandez³, Agustín Lage-Castellanos³, Yasser Yturria³, & Pedro A. Valdes-Sosa³
¹International Center for Neurological Restoration, Cuba, ²Enrique Cabrera Faculty of Medicine, Cuba, ³Cuban Neuroscience Center, Havana

20. DO PERCEPTUAL ITEM FEATURES MATTER FOR CHILDREN AND YOUNG ADULTS? BEHAVIORAL AND ERP CORRELATES OF FAMILIARITY AND RECOLLECTION FOR PERCEPTUALLY CHANGED VERSUS IDENTICAL PICTURES
Daniela Czernochowski & André Haese
Heinrich Heine Universität Düsseldorf

21. EFFECT OF KHAT (CATHA EDULIS) ON BRONCHIAL ASTHMA
Eden Y. Teferedegn, Andualem M. Ayana, & Alemeshet G. Yami
Jimma University

22. ERROR-RELATED COGNITIVE CONTROL PREDICTS CORTISOL REGULATION IN CONTROL BUT NOT DEPRESSED SAMPLES
Rebecca J. Compton, Julia Hofheimer, & Rebecca Kazinka
Haverford College, CUNY
23. **SEMANTIC ACCESS TO EMBEDDED WORDS? ELECTROPHYSIOLOGICAL AND BEHAVIORAL EVIDENCE FROM SPANISH AND ENGLISH**

Cyma Van Petten\(^1\), Pedro Macizo\(^2\), & Polly L. O’Rourke\(^3\)

\(^1\)Binghamton University, SUNY, \(^2\)University of Granada, \(^3\)University of Maryland

24. **ON THE GENERALIZED EMBODIMENT OF PAIN: HOW INTEROCEPTIVE SENSITIVITY MODULATES CUTANEOUS PAIN PERCEPTION**

Olga Pollatos\(^1\), Jürgen Füstös\(^3\), & Hugo Critchley\(^2\)

\(^1\)University of Potsdam, \(^2\)Brighton and Sussex Medical School, University of Sussex

25. **CONVERGING BEHAVIOURAL AND PSYCHOPHYSIOLOGICAL EVIDENCE OF TWO ROUTES TO EXPERTISE IN MENTAL ROTATION**

Alexander Provost\(^1\), Blake Johnson\(^2\), Frini Karayanidis\(^1\), Scott Brown\(^1\), & Andrew Heathcote\(^1\)

\(^1\)The University of Newcastle, \(^2\)Macquarie University

26. **EMOTIONAL IMPACT ON EEG RECORDS: CORTEX OR MUSCLES DOMINATE?**

Sergei G. Danko\(^1\), Julia A. Boytsova\(^1\), Larisa V. Gratcheva\(^2\), & Maria L. Solovjeva\(^1\)

\(^1\)N.P. Bechtereva Institute of the Human Brain RAS, \(^2\)State Academy of Theatre Arts

27. **EMOTION REGULATION WITH ONLINE HEART RATE-BASED BIOFEEDBACK**

Nathalie Peira\(^1\), Mats Fredrikson\(^2\), & Gilles Pourtois\(^3\)

\(^1\)Uppsala University and Ghent University, \(^2\)Uppsala University, \(^3\)Ghent University

28. **EXAMINING THE EFFECTS OF SOCIAL EXCLUSION ON NEURAL AND BEHAVIORAL INDICES OF SELF-REGULATORY ACTION MONITORING**

Jason R. Themanson\(^1\), Aaron B. Ball\(^1\), Stephanie M. Khatcherian\(^1\), & Peter J. Rosen\(^3\)

\(^1\)Illinois Wesleyan University, \(^2\)University of Chicago, \(^3\)Washington State University
29. EPISODIC IMAGERY AS A MANIFESTATION OF INTERNAL ATTENTION: A VIEW FROM OSCILLATORY EEG
Sergei G. Danko¹, Julia A. Boytsova¹, Larisa V. Gratcheva², & Maria L. Solovjeva¹
¹Bechtereva Institute of the Human Brain, Russian Academy of Sciences, ²State Academy of Theatre Arts

30. A CROSS-CULTURAL STUDY OF AUTOMATIC AND CONTROLLED PROCESSING OF ALCOHOL IMAGES IN FEMALE COLLEGE FRESHMAN
Natalie A. Ceballos, Abigail R. Mayfield, Jennifer M. Paz, Marika L. Vela-Gude, & Reiko Graham
Texas State University

31. GETTING A GRASP: USING THE NO-GO N200 TO INFORM THE TIMING OF SEMANTIC ACCESS
Ben D. Amsel, Tom P. Urbach, & Marta Kutas
University of California, San Diego

32. LOOKING AT ALLERGENS INCREASES RESPIRATORY SYMPTOM REPORT IN PATIENTS WITH ALLERGIC ASTHMA
Andreas von Leupoldt & Bernhard Dahme
University of Hamburg

33. VIRTUAL REALITY RUBBER HAND ILLUSION INDUCES FEELING OF OWNERSHIP AND ELICITS CORRECTIAL RESPONSE
Jens Foell, Robin Bekrater-Bodmann, Martin Diers, Jörg Trojan, Xaver Fuchs, & Herta Flor
Central Institute of Mental Health, Heidelberg
University, Mannheim, Germany

34. LISTENING TO MUSIC PERFORMANCES: DIFFERENT BRAIN RESPONSES FOR TECHNIQUE OR EXPRESSIVENESS
Tiago A. Sanchez¹, Marcia K.K. Higuchi², Marcio J. Sturzbecher², Kelley C. Mazzetto-Betti², Draulio B. Araujo¹, Cristina M. Del-Ben², Frederico G. Graeff³, & Joao P. Leite²
¹Federal University of Rio de Janeiro, ²University of Sao Paulo, ³Federal University of Rio Grande do Norte
35. CORTICAL ELECTROPHYSIOLOGICAL PROCESSING OF VERBAL STIMULI: RELATIONSHIP WITH MONOCULAR PERCEPTION AND WORD MEANING
Mariia Rassomagina & Viktoriia Kravchenko
Taras Shevchenko National University of Kyiv

36. P3 REFLECTS THE BROKEN BRIDGE FROM STIMULUS PROCESSING TO ACTION IN PARKINSON’S DISEASE
Rolf Verleger
University of Lübeck

37. IMPLICIT PROCESSING OF THE EYES AND MOUTH: EVIDENCE FROM HUMAN ELECTROPHYSIOLOGY
Francesca Pesciarelli¹, Irene Leo², & Michela Sarlo²
¹University of Modena, ²University of Padova

38. IMPLICIT AND EXPLICIT BIAS AGAINST HISPANICS
David S. March & Reiko Graham
Texas State University, San Marcos

39. PHYSIOLOGICAL RESPONSES TO INDUCED STRESS (RSA & EDR) AS PREDICTORS OF TRAIT AND STATE RUMINATION
Amy Mezulis¹, Sheila Crowell², Marissa Rudolph¹, Katherine Davis¹, & Tyler Laney¹
¹Seattle Pacific University, ²University of Utah

40. PENILE TEMPERATURE AND STRAIN GAUGE: RELIABLE INDICATORS OF SEXUAL AROUSAL PERMITTING CROSS GENDER COMPARISONS
Shonnetta R. Henry¹, Stetson L. Berg¹, & Nicole Praise²
¹University of New Mexico, Albuquerque, ²University of California, Los Angeles

41. OSCILLATORY CONNECTIVITY OF EVENT-RELATED BRAIN NETWORKS IN NORMAL AGING
Chia-Ju Liu & Ming-Chung Ho
National Kaohsiung Normal University
42. **LONGITUDINAL STUDY OF RESTING STATE FUNCTIONAL NETWORK CHARACTERISTICS IN MILD COGNITIVE IMPAIRMENT**

Bálint File,1 Brigitta Tóth,2 Roland Boha,2 Zoltán Hidasi,1 Zsófia A. Gaál,1 Cornelius J. Stam,4 & Márk Molnár1

1Pázmány Péter Catholic University, Hungary, 2RCNS, HAS, Hungary, 3Semmelweis University, Hungary, 4VU University Medical Centre, Netherlands

43. **A COMPARISON OF TWO MEASUREMENT TECHNOLOGIES TO COLLECT ELECTRODERMAL ACTIVITY IN INFANTS**

Jennifer A. DiCorcia,1 Matthew S. Goodwin,1 Elliott B. Hedman,3 & Nancy Snidman1

1University of Massachusetts, Boston, 2Northeastern University, 3MIT Media Lab

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PROGRAM SCHEDULE AT-A-GLANCE

Tuesday, September 18
8:30 a.m.–4:30 p.m., Waldorf Astoria Ballroom (Mezzanine Level), Pre-Conference Workshop #1, INTRODUCTION TO USING ERPLAB TOOLBOX FOR ERP DATA ANALYSIS (Day One)

Wednesday, September 19
8:30 a.m.–4:30 p.m., Waldorf Astoria Ballroom (Mezzanine Level), Pre-Conference Workshop #1, INTRODUCTION TO USING ERPLAB TOOLBOX FOR ERP DATA ANALYSIS (Day Two)
8:30 a.m.–4:30 p.m., Orpheum Room (Second Level), Pre-Conference Workshop #2, ICA/PCA OF ERP DATA: AN EP TOOLKIT TUTORIAL WORKSHOP
8:30 a.m.–4:30 p.m., Chamber I & III (Mayor’s Suite Level), Pre-Conference Workshop #3, BEYOND TRADITIONAL APPROACHES TO ANALYZING REPEATED MEASURES: APPLYING MULTI-LEVEL MODELING IN PSYCHOPHYSIOLOGICAL RESEARCH
12:00 noon–5:00 p.m., Conti Room (Mezzanine Level), SPR Board of Directors Meeting
4:00 p.m.–8:00 p.m., Roosevelt Foyer (Mezzanine Level), Registration Open
4:00 p.m.–9:00 p.m., Roosevelt Ballroom (Mezzanine Level), Internet Station
5:30 p.m.–7:00 p.m., Chamber IV (Mayor’s Suite Level), Panel Discussion 1, PSYCHOPHYSIOLOGY AT A PRIMARILY UNDERGRADUATE INSTITUTION: TEACHING AND RESEARCH
7:00 p.m.–9:00 p.m., Roosevelt Ballroom (Mezzanine Level), Poster Session I

Thursday, September 20
7:15 a.m.–6:30 p.m., Roosevelt Foyer (Mezzanine Level), Registration Open
8:00 a.m.–8:15 p.m., Roosevelt Ballroom (Mezzanine Level), Internet Station
8:00 a.m.–8:15 a.m., Crescent City Ballroom (Mezzanine Level), Welcome and Introductory Remarks, Christopher Patrick, PhD
8:15 a.m.–9:15 a.m., Crescent City Ballroom (Mezzanine Level), Invited Address, IMAGING DISEASES OF POOR SELF-CONTROL, Nora D. Volkow, MD, PhD
9:00 a.m.–8:15 p.m., Roosevelt Ballroom (Mezzanine Level), Exhibits Open
9:15 a.m.–9:45 a.m., Roosevelt Ballroom (Mezzanine Level), Refreshment Break
9:45 a.m.–11:30 a.m., Crescent City Ballroom (Mezzanine Level), Symposium 1.1, SLEEP, LEARNING, AND INSIGHT
9:45 a.m.–11:30 a.m., Waldorf Astoria Ballroom (Mezzanine Level), Symposium 1.2, FUNCTIONAL CONNECTIVITY AND THE STUDY OF PSYCHOPATHOLOGY
9:45 a.m.–11:30 a.m., Orpheum Room (Second Level), Symposium 1.3, THE SOCIAL FACE: THE IMPACT OF SOCIAL AND AFFECTIVE INFORMATION ON FACE AND CONTEXT PROCESSING
11:30 a.m.–1:00 p.m., Break for Lunch (on your own)
11:30 a.m.–1:00 p.m., Chamber III (Mayor’s Suite Level), Education and Training Committee Roundtable Discussions (Pre-registration required.)
1:00 p.m.–2:30 p.m., Crescent City Ballroom (Mezzanine Level), Symposium 2.1, THE NEUROBIOLOGY OF PSYCHOPATHY
1:00 p.m.–2:30 p.m., Orpheum Room (Second Level), Symposium 2.2, NEW DEVELOPMENTS IN THE PSYCHOPHYSIOLOGY OF AUTISM SPECTRUM DISORDERS
1:00 p.m.–2:30 p.m., Waldorf Astoria Ballroom (Mezzanine Level), Symposium 2.3, THE PRESENT AS THE PAST’S FUTURE
2:30 p.m.–3:00 p.m., Roosevelt Ballroom (Mezzanine Level), Refreshment Break
3:00 p.m.–4:30 p.m., Orpheum Room (Second Level), Symposium 3.1, EEG CONNECTIVITY AND AUTISM: METHODOLOGICAL AND CLINICAL FEATURES
3:00 p.m.–4:30 p.m., Waldorf Astoria Ballroom (Mezzanine Level), Symposium 3.2, ERP STUDIES OF ADULT SECOND LANGUAGE ACQUISITION
3:00 p.m.–4:30 p.m., Crescent City Ballroom (Mezzanine Level), Symposium 3.3, TO FEAR OR NOT TO FEAR: EXCITATORY AND INHIBITORY CONDITIONING IN THE LABORATORY AND THE CLINIC
4:30 p.m.–4:45 p.m., Break
4:45 p.m.–6:15 p.m., Crescent City Ballroom (Mezzanine Level), Symposium 4.1, THE DEVELOPMENTAL NEUROBIOLOGY OF ADOLESCENCE: IMPLICATIONS FOR EMERGING AFFECTIVE AND BEHAVIORAL DISORDERS
4:45 p.m.–6:15 p.m., Waldorf Astoria Ballroom (Mezzanine Level), Symposium 4.2, SOCIAL MISTAKES: SOCIAL PSYCHOLOGICAL PERSPECTIVES ON ERROR-RELATED BRAIN PROCESSES
4:45 p.m.–6:15 p.m., Orpheum Room (Second Level), Symposium 4.3, RECENT DEVELOPMENTS IN PSYCHOPATHOLOGY RESEARCH USING STARTLE PROBE METHODOLOGY
6:15 p.m.–8:15 p.m., Roosevelt Ballroom (Mezzanine Level), Poster Session II; Exhibits Open
8:15 p.m.–10:15 p.m., Conti Room (Mezzanine Level), Early Career Conversation Hour (Pre-registration requested.)

Friday, September 21
8:00 a.m.–5:00 p.m., Roosevelt Foyer (Mezzanine Level), Registration Open