SOCIETY FOR
PSYCHOPHYSIOLOGICAL
RESEARCH
Forty-Seventh Annual Meeting

Hyatt Regency Hotel
Savannah, Georgia
October 17–21, 2007

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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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Chester W. Darrow 1969
R. C. Davis 1969
Marion A. Wenger 1970
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Kees Brunia 2005
AWARDS FOR DISTINGUISHED EARLY CAREER CONTRIBUTIONS TO PSYCHOPHYSIOLOGY

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2006–2007 FUND CONTRIBUTORS

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GENERAL INFORMATION

Registration

Registration will be held in the Regency Ballroom Foyer at the Hyatt Regency Hotel during the following hours:

Wednesday, October 17 5:30 P.M.—8:00 P.M.
Thursday, October 18 7:30 A.M.—4:00 P.M.
Friday, October 19 8:00 A.M.—4:00 P.M.
Saturday, October 20 8:30 A.M.—3:00 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 Harborside Center at the Hyatt Regency Hotel.

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

Thursday, October 18, 2007

Poster Session I

8:00 A.M.—9:30 A.M. Posters Assembled
9:30 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
Friday, October 19, 2007

Poster Session II

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

Saturday, October 20, 2007

Poster Session III

8:00 A.M.—9:30 A.M.   Posters Assembled
9:30 A.M.—7:00 P.M.   Posters Available for Viewing
7:00 P.M.—9:00 P.M.   Authors Present for Discussion and Questions
9:00 P.M.—10:00 P.M.   Dismantle Posters

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
- Announcement 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 2007 supplement volume of Psychophysiology. If you do not receive a copy in the mail, a limited number of copies will be available at the SPR Registration Desk.
COMMITTEE MEETINGS

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

Board of Directors
Chair: Robert F. Simons (rsimons@psych.udel.edu)
Wednesday, 12:00 noon–5:30 P.M. (Westbrook)
Sunday, 8:30 A.M.–12:00 noon (Westbrook)

Committee to Promote Student Interests
Chair: John J. B. Allen (jallen@u.arizona.edu)
Friday, 8:00 P.M.–10:00 P.M.
(Location to be announced)
All students are welcome!

General Business Meeting and Luncheon
Saturday, 12:15 P.M.–2:15 P.M.
(Scarborough Ballroom)

Past Presidents’ Dinner
Saturday, 6:00 P.M.–8:00 P.M. (Dinner)

2007 Program Committee
Chair: Ursula Hess (hess.ursula@uqam.ca)
Thursday, 11:30 A.M.–1:00 P.M. (Lunch)

2008 Program Committee
Chair: Bruce D. Bartholow
Friday, 11:30 A.M.–1:00 P.M. (Lunch)

Education and Training Committee
Chair: John Curtin (jjcurtin@wisc.edu)
Thursday, 11:30 A.M.–1:00 P.M. (Lunch)

The Psychophysiology Board of Associate Editors
Robert F. Simons (rsimons@psych.udel.edu)
Thursday, 5:00 P.M.–6:00 P.M. (Plimsoll Room)

Publications Committee
Chair: Edwin W. Cook III (ecook@uab.edu)
Thursday, 11:30 A.M.–1:00 P.M. (Lunch)
Web Site Committee
Chair: Richard W. Backs (backs1rw@cmich.edu)
Friday, 11:30 A.M.—1:00 P.M. (Lunch)

SPECIAL INTEREST LUNCHEONS
AND DINNERS

As in previous years, small group lunches and dinners will 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.

Psychophysiological Research with Military and Veteran Populations
Contact: Karen Quigley (karen.quigley@va.gov)
Thursday, October 18, 2007, 11:30 A.M.—1:00 P.M.

Social Neuroscience
Contact: David Amodio (dma7@nyu.edu)
Friday, October 19, 2007, 11:30 A.M.—1:00 P.M.

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 their 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 once again be the opportunity to participate in the Roundtable Discussions during the lunch break on Thursday (lunch included!) at the Hyatt Regency Hotel. Each topic will be led by one or more leaders in their respective fields.

**Perspectives on EEG Asymmetry: Different Measurement and Conceptualization Issues**
Wendy Heller and Jim Coan

**EMG Methodology: Startle and Post-Auricular Reflex**
Terry Blumenthal and Steven A. Hackley

**High Density EEG**
Don Tucker

**Setting Up a Psychophysiology Laboratory**
John Curtin

**Ambulatory Psychophysiology: Bringing the Lab to Real Life**
Frank Wilhelm

To participate in one of these discussions, please contact Edelyn Verona (everona@uiuc.edu) to RSVP by September 28, 2007. Each roundtable is limited to 10 people.

**EARLY CAREERS CONVERSATION HOUR**
8:15 P.M.—10:15 P.M.
Scarborough Ballroom 1
Thursday, October 18, 2007

Don’t miss this opportunity to discuss early career issues with some of SPRs leading scientists! Please RSVP to Catherine Norris
Please join us for the Second Annual Women in Science Lunch Box Discussion. All SPR members, including men, are invited to attend. The discussion topic will be focused on negotiation skills involved in obtaining a competitive salary, sufficient start-up costs, and lab space for new faculty and continuing negotiations relevant to later career stages. Women tend to struggle with negotiation and are more than two times as likely than men to self-report that they feel apprehension and pessimism about the negotiation process. Compared to men, women typically negotiate for less and receive less when they do negotiate (http://www.womendontask.com/stats/html). The discussion will be facilitated by a panel of invited speakers composed of academic leaders from different workplace environments (e.g., medical setting, research university, small college). Registration for this event is required and lunch will only be provided to registered participants. To register, please contact Becky Levin (rllevin@cyrus.psych.uiuc.edu) prior to September 28, 2007.

**INTERNET STATION**

An internet station will be available for all attendees at the following times in the Regency Ballroom Foyer:

- Thursday, October 18: 8:00 A.M.–9:00 P.M.
- Friday, October 19: 8:00 A.M.–9:00 P.M.
- Saturday, October 20: 8:00 A.M.–5:00 P.M.
**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 Portside Room and open during the following hours:

- Thursday, October 18: 7:00 A.M. – 5:00 P.M.
- Friday, October 19: 7:00 A.M. – 5:00 P.M.
- Saturday, October 20: 7:00 A.M. – 1:00 P.M.

**CHILD CARE**

In need of child care while you are at the SPR meeting? Superwomen Services provides child care based on individual requests. For more information on child care, associated costs and availability, please contact Superwomen Services directly at 1-912-303-9288. *(This service is not sponsored nor endorsed by the SPR; it is provided for information purposes only.)*

**FUTURE ANNUAL MEETINGS**

**2008 Annual Meeting**

Hilton Hotel
Austin, Texas, USA
October 1–5, 2008

**EXHIBITORS**

Please take time while you are at the SPR meeting to visit the exhibit area located on the Mezzanine Level at the Hyatt Regency Savannah. 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 Hours**

- Thursday, October 18: 8:00 A.M. – 3:00 P.M.
- Friday, October 19: 8:00 A.M. – 3:00 P.M.
- Saturday, October 20: 8:00 A.M. – 10:30 A.M.
Hyatt Regency Hotel Savannah

Lobby Level

Second Floor
Pre-Conference Workshop I
(available for an additional fee)

The ERP Mini Boot Camp
Steve J. Luck, PhD, Professor, Center for Mind and Brain, University of California, Davis, Davis, CA

The ERP Mini Boot Camp is a two-day condensed workshop version of Steve Luck’s 10-day ERP Boot Camp. Back by popular demand, the workshop will provide an intensive introduction to the ERP technique, designed for beginning and intermediate ERP researchers at the graduate, postdoctoral, and faculty levels. The goal of the Boot Camp is to provide an in-depth introduction to the everyday procedures that are used in ERP research, with an emphasis on how various procedures are actually performed and why they are performed that way.

The Boot Camp will consist of a set of lectures and demonstrations by Steve Luck that are tightly linked with his book, An Introduction to the Event-Related Potential Technique (MIT Press). Topics will include the following:

ERP Components
Design and Interpretation of ERP Experiments
Electrodes, Amplifiers, Filters, and Noise
Averaging, Artifact Rejection, and Artifact Correction
Measurement and Analysis of ERP Components
ERP Localization
Setting Up and Running an ERP Lab
Tuesday, October 16, 2007

8:30 A.M.–10:00 A.M.

Lecture 1: Introduction to ERPS and Common ERP Components
Reading: Luck (2005, Ch. 1)

10:00 A.M.–10:15 A.M.

Refreshment Break

10:15 A.M.–11:45 A.M.

Lecture 2: Understanding the Nature of ERP Components
Reading: Luck (2005, Ch. 2)

11:45 A.M.–1:00 P.M.

Lunch Break (on your own)

1:00 P.M.–2:00 P.M.

Lecture 3: Design and Interpretation of ERP Experiments
Reading: Luck (2005, Ch. 2)

2:00 P.M.–3:00 P.M.

Lecture 4: An Example of Experimental Design
Reading: Vogel, Luck, and Shapiro (1998)
3:00 P.M.—3:15 P.M.

**Refreshment Break**

3:15 P.M.—5:00 P.M.

**Lecture 5: Recording ERPS**

*Reading: Luck (2005, Ch. 3)*
Wednesday, October 17, 2007

8:30 A.M.–5:00 P.M.
Regency Ballroom A

Pre-Conference Workshop
The ERP Mini Boot Camp (continued)

8:30 A.M.–10:00 A.M.

Lecture 6: Averaging and Artifacts
Reading: Luck (2005, Ch. 4)

10:00 A.M.–10:15 A.M.

Refreshment Break

10:15 A.M.–11:45 A.M.

Lecture 7: Filtering
Reading: Luck (2005, Ch. 5)

11:45 A.M.–1:00 P.M.

Lunch Break (on your own)

1:00 P.M.–2:00 P.M.

Lecture 8: Plotting, Measurement, and Statistics
Reading: Luck (2005, Ch. 6)

2:00 P.M.–3:00 P.M.

Lecture 9: Setting Up and Running an ERP Lab
Reading: Luck (2005, Ch. 8)
2007 Program Schedule—Wednesday

3:00 P.M.—3:15 P.M.

Refreshment Break

3:15 P.M.—5:00 P.M.

Lecture 10: ERP Localization
Reading: Luck (2005, Ch. 7)

Readings

12:00 noon–5:30 P.M.
Westbrook

SPR Board of Directors Meeting

5:30 P.M.—8:00 P.M.
Regency Ballroom Foyer

Registration Opens

5:30 P.M.—8:00 P.M.
Scarborough Ballroom

Opening Reception
(cash bar and hors d’oeuvres)
All attendees are welcome!
Thursday, October 18, 2007

7:30 A.M.–4:00 P.M.
Regency Ballroom Foyer

Registration

8:30 A.M.–10:00 A.M.

Symposia Sessions

8:30 A.M.–10:00 A.M.
Regency Ballroom A

Symposium 1

The Role of the Amygdala in Social/Emotional Cognition Across Development
Chair: Erin B. McClure
Georgia State University

Neural Processing of Threat-Related Facial Expressions in Young People with Depression, Anxiety, or No History of Psychiatric Disorder
University of Pittsburgh

Facial Emotion Processing in Borderline Personality Disorder: An fMRI Study of Amygdala Response to Overt and Masked Facial Expressions
Nathalie Vizueta, S. C. Schultz, & Kathleen M. Thomas
University of Minnesota
How Young and Older Adults Process and Remember Emotional Information
Elizabeth A. Kensinger
Boston College

Dissociable Medial Temporal Lobe Contributions to Social Memory
Leah H. Somerville, Gagan S. Wig, Paul S. Whalen, & William M. Kelley
Dartmouth College

Responses to Social Conflict in Youth with Mood and Anxiety Disorders
Erin B. McClure¹, Norberto E. Nawa², Eric E. Nelson³, Jessica M. Parrish⁴, Daniel S. Pine³, & Monique Ernst³
¹Georgia State University, ²ATR Cognitive Information Laboratories, ³National Institute of Mental Health, ⁴Catholic University

8:30 A.M.–10:00 A.M.
Scarborough Ballroom 1

Symposium 2

Cortical Dynamics for Visual Knowledge about Objects: Where Vision Meets Memory
Chair: Haline E. Schendan
Tufts University

ERP and fMRI Studies Reveal the Cortical Dynamics of Visual Object Knowledge
Haline E. Schendan
Tufts University

ERP Evidence for Access to Object Memories During Figure-Ground Perception
Logan T. Trujillo¹, Mary A. Peterson², & John J. B. Allen²
¹University of Texas at Austin, ²University of Arizona
Encoding-Related Neural Activity of Perceptual Priming: Effects of Object Structure  
Anja Soldan, Yaakov Stern, Jennifer Mangels, John Hilton, Eric Zarahn, & Lynn Cooper  
*Columbia University*

Distinguishing Explicit Memory and Conceptual Implicit Memory Electrophysiologically  
Joel L. Voss & Ken A. Paller  
*Northwestern University*

8:30 A.M.–10:00 A.M.  
*Scarborough Ballroom 3*

**Symposium 3**

**Deception Detection: New Procedures and Techniques for the 21st Century**  
**Chairs:** Bruno Verschuere¹ & Peter Rosenfeld²  
¹*Ghent University*, ²*Northwestern University*  
**Discussant:** Gershon Ben-Shakhar  
*The Hebrew University of Jerusalem*

**Combining Psychophysiology and Forced Choice in the Detection of Concealed Information**  
Ewout H. Meijer, Fren Ty Smulders, & Harald L. G. J. Merckelbach  
*Maastricht University*

**Slow Down and Start Sweating: Reaction-Times and Skin Conductance for the Detection of Concealed Information**  
Bruno Verschuere  
*Ghent University*
The Complex Trial Protocol (CTP): A New, Countermeasure-Resistant, Accurate P300-Based Method for Detection of Concealed Information
Peter Rosenfeld
Northwestern University

fMRI Studies of Different Types of Deception
Giorgio Ganis¹ & Stephen M. Kosslyn²
¹Harvard University, ²Harvard Medical School

Clinical and Theoretical Implications of the Functional Magnetic Resonance Imaging (fMRI) Studies of Deception
Daniel Langleben
University of Pennsylvania School of Medicine

10:00 A.M.–10:30 A.M.
Mezzanine Level

Refreshment Break

10:30 A.M.–11:30 A.M.
Regency Ballroom D

Invited Address

Neural Systems Involved in Fear Extinction: Relevance to Psychotherapy
Michael Davis, PhD
Robert W. Woodruff Professor of Psychiatry, Behavioral Sciences and Psychology, Emory University Department of Psychiatry, Yerkes National Primate Center, Atlanta, GA

11:30 A.M.–1:00 P.M.
Break for Lunch (on your own)
30

2007 Program Schedule—Thursday

11:30 A.M.—1:00 P.M.
Verelst Room

Education and Training Committee
Roundtable Discussions
This year, there will once 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 participate in one of these discussions, please contact Edelyn Verona (everona@uiuc.edu) to RSVP by September 28, 2007. Each roundtable is limited to 10 people.

Perspectives on EEG Asymmetry: Different Measurement and Conceptualization Issues
Wendy Heller & Jim Coan

EMG Methodology: Startle and Post-Auricular Reflex
Terry Blumenthal & Steven A. Hackley

High Density EEG
Don Tucker

Setting Up a Psychophysiology Laboratory
John Curtin

Ambulatory Psychophysiology: Bringing the Lab to Real Life
Frank Wilhelm

1:00 P.M.—2:30 P.M.
Regency Ballroom D

Presidential Symposium

Twenty-Seven Years of the Psychophysiology of Language Processing
Chair: Phillip J. Holcomb
Tufts University
Discussant: Marta Kutas
University of California, San Diego
Access to Embedded Words in Speech Perception
Cyma Van Petten¹, Pedro Macizo², & Polly O’Rourke¹
¹University of Arizona, ²University of Granada

Does the Brain See Language the Way Linguists Do? Processing Parallels Across Syntactic and Discourse Referential Dependencies
Robert Kluender
University of California, San Diego

Dynamic Adjustments to Lies Reflected in P2 and N400
Bernadette M. Jansma
University of Maastricht

Deriving Meaning from ERPS … and Other Acronyms
Kara D. Federmeier & Sarah Laszlo
University of Illinois, Urbana–Champaign

2:30 P.M.–3:00 P.M.  
Mezzanine Level

Refreshment Break

3:00 P.M.–4:30 P.M.  
Symposia Sessions

3:00 P.M.–4:30 P.M.  
Regency Ballroom A

Symposium 4

Spotting Danger: Stimulus Properties and Individual Differences Underlying Threat Detection
Chair: Christine L. Larson
University of Wisconsin–Milwaukee
Attentional Capture by Dynamic Threatening Stimuli
Luis Carretié, José A. Hinojosa, Sara López-Martín, & Jacobo Albert
1 Universidad Autónoma de Madrid, 2 Universidad Complutense de Madrid

Brain, Body, and Cognition: Neural, Physiological and Self-Report Correlates of Phobic and Normative Fear
Hillary S. Schaefer, Christine L. Larson, & Richard J. Davidson
1 University of Virginia, 2 University of Wisconsin–Milwaukee, 3 University of Wisconsin–Madison

Visual Consciousness and Threat Detection
Stefan Wiens
Stockholm University

The Shape of Threat: Simple Geometric Shapes Activate Attentional Bias and Neural Circuitry Instantiating the Detection of Threat
Christine L. Larson, Joel Aronoff, & David C. Zhu
1 University of Wisconsin–Milwaukee, 2 Michigan State University

3:00 P.M.–4:30 P.M.
Scarborough Ballroom 1

Symposium 5

Issues in Frontal EEG Asymmetry as a Marker of Risk for Psychopathology
Chair: Robin Nusslock
University of Wisconsin–Madison
Discussant: John J. B. Allen
University of Arizona
Frontal EEG Alpha Asymmetry in Depression: The Role of Clinical State and Emotion Regulation
Robin Nusslock¹, Alexander J. Shackman¹, Brenton W. McMenamin¹, Larry L. Greischar¹, Marika Kovacs², & Richard J. Davidson¹
¹University of Wisconsin–Madison, ²University of Pittsburgh

Frontal EEG Asymmetry, Psychopathology Risk, and Emotion Regulation Capabilities
James A. Coan
University of Virginia

Effect of Bipolar Disorder on Relative Left Frontal Cortical Responses to Goals Differing in Valence and Task Difficulty
Eddie Harmon-Jones¹, Lyn Y. Abramson², Robin Nusslock², Jonathan D. Sigelman², Snezana Urosevic², Lee Turonie², & Meghan Fearn²
¹Texas A&M University, ²University of Wisconsin–Madison

Internal Consistency Reliability of Frontal EEG Asymmetry
David N. Towers & John J. B. Allen
University of Arizona

4:30 P.M.–4:45 P.M.

Break

4:45 P.M.–6:15 P.M.

Symposia Sessions
Symposium 6

Stress Sensitization and Fear Learning in Posttraumatic Stress Disorder

Chairs: Michele Wessa¹ & Anke Karl²
¹University of Heidelberg, ²University of Southampton

Endocrine and Inflammatory Dysregulations in Posttraumatic Stress Disorder

Nicolas Rohleder¹, Jutta M. Wolf², Ljiljana Joksimovic², & Clemens Kirschbaum³
¹University of British Columbia, ²University of Düsseldorf, ³Dresden University of Technology

Stress-Induced Analgesia in Posttraumatic Stress Disorder: An fMRI Study

Michele Wessa, Slawomira Lipinski, Christoph Christmann, Stephanie Ridder, Simone Lang, & Herta Flor
University of Heidelberg

Generalization of Conditioned Fear as a Pathogenic Marker of PTSD

Shmuel Lissek, Stephanie Rabin, Arter Biggs, Ruben Alvarez, Brian Cornwell, Meena Vythiingam, & Christian Grillon
National Institute of Mental Health

Biopsychological Risk Factors and Correlates of PTSD and its Successful CBT Treatment

Anke Karl¹, Sirko Rabe², Katja Pohnitzsch², Tanja Zollner², Andreas Maercker³, Klaus-Peter Lesch⁴, & Alexander Strobel²
¹University of Southampton, ²Dresden University of Technology, ³University of Zurich, ⁴University of Wurzburg
2007 Program Schedule—Thursday

4:45 P.M.—6:15 P.M.
Scarborough Ballroom 1

Symposium 7

The Psychophysiology of Adult Attachment
Chair: James A. Coan
University of Virginia
Discussant: John T. Cacioppo
University of Chicago

Co-Regulation: The Psychophysiology of Normative Adult Attachment
David A. Sbarra\textsuperscript{1}, Emilio Ferrer\textsuperscript{2}, & Cindy Hazan\textsuperscript{3}
\textsuperscript{1}University of Arizona, \textsuperscript{2}University of California, Davis, \textsuperscript{3}Cornell University

Adult Attachment Styles Moderate the Social Regulation of Neural Threat Responding
James A. Coan\textsuperscript{1}, Hillary S. Schaefer\textsuperscript{1}, David A. Sbarra\textsuperscript{2}, & Richard J. Davidson\textsuperscript{3}
\textsuperscript{1}University of Virginia, \textsuperscript{2}University of Arizona, \textsuperscript{3}University of Wisconsin–Madison

Sympathetic and Parasympathetic Nervous System Reactivity and Regulation Among Anxiously and Avoidantly Attached Adults
Lisa M. Diamond, Angela Hicks, & Kimberly Otter-Henderson
University of Utah

Attachment Behaviors as a Combination of Sensitivity and the Ability to Control
Omri Gillath
University of Kansas

6:15 P.M.—8:15 P.M.
Harborside Center

Poster Session I
Early Careers Conversation Hour

Don’t miss this opportunity to discuss early career issues with some of SPR’s leading scientists! Please RSVP to Catherine Norris (catherine.j.norris@dartmouth.edu) by September 28, 2007 if you plan to attend.
Friday, October 19, 2007

8:00 A.M.–4:00 P.M.  
Regency Ballroom Foyer

Registration

8:30 A.M.–10:00 A.M.

Symposia Sessions

8:30 A.M.–10:00 A.M.  
Regency Ballroom A

Symposium 8

Neurophysiological Correlates of Emotion Regulation in Adults and Children
Chair: Tracy A. Dennis  
Hunter College, The City University of New York

Dismantling Reappraisal: Emotion, Cognition, and the Late Positive Potential
Greg Hajcak, Jonathan P. Dunning, & Dan Foti  
Stony Brook University

ERP Markers for the Cognitive Control of Emotion: Implications for Emotion Regulation
Tracy A. Dennis  
Hunter College, The City University of New York

Neurophysiological Correlates of Maternal Empathy and Emotion Regulation
Jim Stieben  
York University

Neural Correlates of Attentional Control: Implications for Individual Differences in Emotion Regulation
Heather A. Henderson  
University of Miami


**Symposium 9**

**Emerging Perspectives in Cardiovascular Psychophysiology: RSA, Vagal Tone and Beyond**

Chair: Frank H. Wilhelm  
*University of Basel*

Discussant: Gary G. Berntson  
*The Ohio State University*

**Sympathetic and Parasympathetic Cardiovascular Responses to Monetary Incentives Among Children and Adolescents at Risk for Delinquency**

Ted P. Beauchaine  
*University of Washington*

**Facts about Respiratory Sinus Arrhythmia (RSA) and Cardiac Vagal Control**

Paul Grossman  
*University Hospital of Basel*

**Interpretation of RSA in Psychophysiology: Correction for Respiration Can Make a Difference**

Thomas Ritz  
*Southern Methodist University*

**Attenuated Metabolic-Cardiorespiratory Coupling During Daily Life in Patients with Anxiety Disorders: Exploration of a New Phenomenon**

Frank H. Wilhelm\(^1\), Monique C. Pfaltz\(^1\), Tanja Michael\(^1\), Jens Blechert\(^1\), Vitaliy Kolodyazhniy\(^1\), Jürgen Margraf\(^1\), & Paul Grossman\(^2\)

\(^1\)University of Basel, \(^2\)University Hospital of Basel
Symposium 10

Personality, Affect, and Cardiovascular Response: Evidence for Motivational Gains and Deficits
Chair: Guido H. E. Gendolla
University of Geneva

Feeling Worn Out: Studies of Fatigue Influence on Cardiovascular Response
Rex A. Wright
University of Alabama–Birmingham

The Joint Effect of Depression and Task Difficulty on Performance-Related Cardiovascular Reactivity
Guido H. E. Gendolla & Kerstin Brinkmann
University of Geneva

Dysphoric Individuals Do Not Respond to Reward: Research on Cardiovascular Reactivity
Kerstin Brinkmann, Guido H. E. Gendolla, & Isabelle Ancel Joye
University of Geneva

Agentic Extraversion and Mobilization of Effort: Effects on Autonomic Activation Components
Mira-Lynn Chavanon¹, Anja Leue¹, Christoph Kemper², & Gerhard Stemmler¹
¹Philipps-Universität Marburg, ²Gutenberg University of Mainz

10:00 a.m.–10:30 a.m.
Mezzanine Level

Refreshment Break
10:30 A.M.–11:30 A.M.
Regency Ballroom D

**Invited Address**

**Functional Specificity in the Cortex: Selectivity, Experience, and Generality**

Dr. Nancy Kanwisher
*Ellen Swallow Richards Professor of Cognitive Neuroscience, Department of Brain and Cognitive Sciences, and McGovern Institute for Brain Research, MIT, Cambridge, MA*

11:30 A.M.–1:00 P.M.

**Break for Lunch (on your own)**

11:30 A.M.–1:00 P.M.

*Verelst*

**Women in Science Lunch Box Discussion**

Please join us for the Second Annual Women in Science Lunch Box Discussion. The discussion topic will be focused on negotiation skills involved in obtaining a competitive salary, sufficient start-up costs, and lab space for new faculty and continuing negotiations relevant to later career stages. All SPR members, including men, are invited to attend. To register, please contact Becky Levin (rllevin@cyrus.psych.uiuc.edu) no later than September 28, 2007.

1:00 P.M.–2:30 P.M.

**Symposia Sessions**
Symposium 11

An Integrative Approach to Understanding How Cultural Stereotypes Affect Performance, Learning, and Retention

Chairs: Michael Inzlicht¹ & Jennifer A. Mangels²

¹University of Toronto, ²Baruch College, City University of New York

Discussant: Bruce D. Bartholow
University of Missouri–Columbia

Signaling Threat: How Situational Cues Affect the Objective and Subjective Experiences of Women in Math, Science, and Engineering Settings

Mary C. Murphy, Claude M. Steele, & James J. Gross
Stanford University

Neural Basis of Stereotype Susceptibility Effects in Women’s Spatial Reasoning Performance

Maryjane Wraga¹, Molly Helt¹, Emily C. Jacobs², & Kerry Sullivan¹

¹Smith College, ²University of California, Berkeley

Devaluing and Discounting as Predictors of How Minority Students Monitor Errors in an Intellectually Threatening Environment

Toni Schmader, Chad Forbes, & John J. B. Allen
University of Arizona

Learning Math Under the Influence of Stereotype Threat: The Relationship Between Affective and Cognitive Engagement

Jennifer A. Mangels¹, Catherine D. Good¹, Brian Maniscalco², & Carol S. Dweck³

¹Baruch College, City University of New York, ²Columbia University, ³Stanford University
Why Women Leave Science: Using a Neurophysiological Approach to Understand and Plug the Leaky Pipeline
   Michael Inzlicht & Sonia Kang
   University of Toronto

1:00 P.M.–2:30 P.M.
Scarborough Ballroom 1

Symposium 12

When Structure Meets Function: New Frontiers in Neuroimaging
   Chairs: Gabriele Gratton & Monica Fabiani
   University of Illinois, Urbana–Champaign

The Relationship Between Brain Structure and Brain Function in Older Adults: The Influence of Lifestyle Factors and Genetics
   Kirk I. Erickson
   University of Illinois, Urbana–Champaign

Magnetic Resonance Imaging Correlates of Cognitive and Affective Symptoms of Geriatric Depression
   Faith Gunning-Dixon¹, Matthew J. Hoptman², Christopher F. Murphy¹, Kelvin O. Lim², & George S. Alexopoulos¹
   ¹Cornell University, ²New York University

Diffusion Tensor Imaging (DTI) Tractography as a Tool for Cognitive Neuroscience: Combination with fMRI
   Paul M. Corballis & Orion P. Keifer, Jr.
   Georgia Institute of Technology

When Structure Meets Function: New Insight from Brain Imaging
   Gabriele Gratton & Monica Fabiani
   University of Illinois, Urbana–Champaign
2007 Program Schedule—Friday

2:30 P.M.–3:00 P.M.
Mezzanine Level

**Refreshment Break**

3:00 P.M.–4:30 P.M.

**Symposia Sessions**

3:00 P.M.–4:30 P.M.
Regency Ballroom A

**Symposium 13**

**The Defense Cascade: The Dynamics of Fear Reaction**

**Chairs:** Eliane Volchan\(^1\) & Jaime Vila\(^2\)

\(^1\)Federal University of Rio de Janeiro, \(^2\)University of Granada

**Discussant:** Peter J. Lang

University of Florida

**Startle and Defense**

Margaret M. Bradley

University of Florida

**Human Freezing Behavior**

Eliane Volchan

Federal University of Rio de Janeiro

**Cardiac Defense: From Attention to Action**

Jaime Vila

University of Granada

**Anticipation and Exposure to Threat**

Alfons Hamm

University of Greifswald
Symposium 14

How Early is Semantics? Electrophysiological Correlates of Semantic Processing Peaking Earlier than the N400
Chair: Joseph Dien
University of Kansas

Developmental Changes in Word Learning Effects to Auditorally Named Visual Stimuli
Dennis L. Molfese
University of Louisville

N170 Indexes Lexical Access Processes in Simultaneous Interpreters
Alice M. Proverbio¹, Roberta Adorni¹, & Alberto Zani²
¹University of Milano–Bicocca, ²Consiglio Nazionale delle Ricerche

What Do Pre-N400 ERP Components Tell Us about the Timing of Semantic Processing?
John F. Connolly¹, Randy L. Newman², & Elisabet Service¹
¹University of Montreal, ²Acadia University

Partial Word Knowledge and Measures of Incremental Learning: ERP Evidence for Stages of Meaning Acquisition
Gwen A. Frishkoff
University of Pittsburgh

Responsiveness of the Recognition Potential to Sentence Context: Convergent ERP and fMRI Findings
Joseph Dien¹, Aminda J. O’Hare¹, & Cary R. Savage²
¹University of Kansas, ²University of Kansas Medical Center
4:30 P.M.—4:45 P.M.

**Break**

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4:45 P.M.—5:45 P.M.

*Regency Ballroom D*

**Invited Address**

**Neural Correlates of Recollection and Familiarity in Young and Older Adults**

Roberto Cabeza, PhD  
*Associate Professor, Center for Cognitive Neuroscience, Duke University, Durham, NC*

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5:45 P.M.—6:00 P.M.

**Break**

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6:00 P.M.—8:00 P.M.

*Harborside Center*

**Poster Session II**

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10:00 P.M.

**Student Social**  
(location to be announced)
Saturday, October 20, 2007

8:30 A.M.–3:00 P.M.
Regency Ballroom Foyer

Registration

8:30 A.M.–10:00 A.M.

Symposia Sessions

8:30 A.M.–10:00 A.M.
Regency Ballroom A

Symposium 15

Implicit Processes of Motivation: Evidence from Neuroimaging, Neuroendocrinology, and ERP Research
Chair: Julie L. Hall
University of Michigan

Implicit Motivation in the Brain: The Role of Implicit Power and Affiliation Motivation on Neural Responses to Angry Facial Expressions
Julie L. Hall¹, Christian E. Waugh², Steven J. Stanton³, Michelle M. Wirth³, Patricia A. Reuter-Lorenz¹, & Oliver C. Schultheiss¹
¹University of Michigan, ²Stanford University, ³University of Wisconsin

Relationships Between Progesterone and Implicit Affiliation Motivation
Michelle M. Wirth¹ & Oliver C. Schultheiss²
¹University of Wisconsin, ²University of Michigan
Implicit Racial Prejudice Motivates Attention Toward Out-Group Cues
Catherine J. Norris¹, Matthew R. Longo², Bennett I. Bertenthal³, & John T. Cacioppo⁴
¹Dartmouth College, ²University College, London, ³Indiana University, ⁴University of Chicago

8:30 A.M.—10:00 A.M.
Scarborough Ballroom 1

Symposium 16

Attention and Memory in Audition:
Measurements of Brain Activity and Behavior
Chair: Kimmo Alho
University of Helsinki

The Contribution of the Parietal Cortex to Auditory Spatial Working Memory
Claude Alain
Rotman Research Institute at Baycrest Hospital

Non-Intentional Encoding of Abstract Auditory Rules and its Consequences for Deviance Detection and Distraction
Erich Schröger¹, Alexandra Bendixen¹, Nelson J. Trujillo-Barreto², & Urte Roeber¹
¹University of Leipzig, ²Cuban Neuroscience Center

Dichotic Listening, Attention, and Age
Heikki Hämäläinen & Fiia Takio
University of Turku

Dichotic Listening and Attention:
Magnetoencephalographic Measurements of Auditory-Cortex Activity
Kimmo Alho¹, Johanna Salonen², Teemu Rinne¹, Svyatoslav V. Medvedev³, Kenneth Hugdahl¹, & Heikki Hämäläinen³
¹University of Helsinki, ²Helsinki University Central Hospital, ³Institute of the Human Brain, Russian Academy of Sciences, ⁴University of Bergen, ⁵University of Turku
8:30 A.M.–10:00 A.M.
Scarborough Ballroom 3

Symposium 17

Chair: Sylvia D. Kreibig
University of Geneva
Discussant: Julian F. Thayer
The Ohio State University

Feelings and the Body: William James and Autonomic Specificity of Emotion
Bruce H. Friedman
Virginia Polytechnic Institute and State University

The Psychophysiology of Fear and Sadness: Cardiovascular, Electrodermal, and Respiratory Responses During Film Viewing
Sylvia D. Kreibig, Frank H. Wilhelm, James J. Gross, & Walton T. Roth
1University of Geneva, 2University of Basel, 3Stanford University, 4VA Palo Alto Health Care System

Somatovisceral Profiles During Anger and Fear Imagination: Separable Effects of Emotion And Motivational Direction
Jan Wacker & Gerhard Stemmler
Philipps-Universität Marburg

Shrinking the Elephant: The Utility of Multivariate Statistical Tools and the Impact of Methodology on the Generation of an Integrated Affect Model
Israel C. Christie, Chad L. Stephens, & Bruce H. Friedman
1University of Pittsburgh, 2Virginia Polytechnic Institute and State University
2007 Program Schedule—Saturday

10:00 A.M.–10:30 A.M.
Mezzanine Level

Refreshment Break

10:30 A.M.–11:00 A.M.
Regency Ballroom D

Award for Distinguished Early Career Contribution to Psychophysiology

Investigating Mechanisms of Social Cognition with Event-Related Brain Potentials
Bruce D. Bartholow, PhD
Assistant Professor, Department of Psychological Sciences, University of Missouri, Columbia, MO

11:00 A.M.–12:00 noon
Regency Ballroom D

Presidential Address

The Way of Our Errors: Theme and Variations
Robert F. Simons, PhD
SPR President and Professor, Department of Psychology, University of Delaware, Newark, DE

12:15 P.M.–2:15 P.M.
Scarborough Ballroom

Business Meeting and Luncheon

2:15 P.M.

Free Afternoon to Explore Savannah!
7:00 P.M.–9:00 P.M.  
Harborside Center

**Poster Session III**

9:00 P.M.–12:00 midnight  
Regency Ballroom D

**Saturday Night Social**  
All attendees are welcome!  
(cash bar and snacks)
Sunday, October 21, 2007

8:00 A.M.–10:00 A.M.
Regency Ballroom A

**Farewell Breakfast**

*(Come at your leisure prior to leaving the conference! A continental breakfast will be offered to all!)*

8:30 A.M.–12:00 noon
Westbrook

**SPR Board of Directors Meeting**
Poster Session I
Thursday, October 18, 2007
6:15 P.M.—8:15 P.M.
Harborside Center

Poster Presenter Schedule

8:00 A.M.—9:30 A.M. Posters Assembled
9:30 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. **Do High Impedance ERP Recording Systems Really Save Time?**
   Emily S. Kappenman & Steven J. Luck
   *University of California, Davis*

2. **The Genetics of Fear Learning: Fear Conditioned Startle Potentiation and a Polymorphism in the Serotonin Transporter Gene**
   Tina B. Lonsdorf¹, Almut I. Weike², Martin Schalling¹, Alfons O. Hamm², & Arne Öhman¹
   ¹*Karolinska Institutet, ²University of Greifswald*

3. **Psychophysiological Reactions to Caffeine and Caffeine-Associated Stimuli in Habitual Coffee Drinkers and Abstainers**
   Christiane A. Melzig¹, Jan P. Stender¹, Varinia Popek¹, Thomas Giessmann¹, Werner Siegmund¹, Terry D. Blumenthal², & Alfons O. Hamm¹
   ¹*University of Greifswald, ²Wake Forest University*

4. **Memory Encoding of Emotional and Neutral Pictures: Autonomic, Behavioral and Electrocortical Responses**
   Mathias Weymar¹, Christiane A. Melzig¹, Jarek M. Michalowski¹, Harald T. Schupp², & Alfons O. Hamm¹
   ¹*University of Greifswald, ²University of Konstanz*
5. **The Temporal Specificity of Fear-Potentiated Startle in Aversive Single-Cue Conditioning**  
   Almut I. Weiße, Thomas Schaer, Arne Öhman, & Alfons O. Hamm  
   University of Greifswald, Karolinska Institute

6. **Neural Mechanisms Underlying Implementation Intentions to Respond Without Prejudice**  
   Saaid A. Mendoza & David M. Amodio  
   New York University

7. **The Role of Medial Prefrontal Cortex in Regulating Self-Related Social Judgments**  
   Polina V. Potanina & David M. Amodio  
   New York University

8. **Cortisol Effects on Self-Regulation in an Interracial Interaction**  
   David M. Amodio  
   New York University

9. **The Onset of Puberty: Effects on the Psychophysiology of Emotional Processing and Motivation**  
   Karina M. Quevedo, Stephen D. Benning, Ronald E. Dahl, & Megan R. Gunnar  
   University of Minnesota, Vanderbilt University, University of Pittsburgh

10. **Effects of Personality Traits on Startle Blink and Postauricular Reflex Modulation in Adolescents**  
    Stephen D. Benning, Karina M. Quevedo, Ronald E. Dahl, & Megan R. Gunnar  
    Vanderbilt University, University of Minnesota, University of Pittsburgh

11. **Evidence for Diminished Emotional Reactivity to Disgust in Frontotemporal Dementia**  
    Janet A. Eckart, Virginia E. Sturm, Bruce L. Miller, & Robert W. Levenson  
    University of California, Berkeley, University of California, San Francisco
12. Positive Emotions and Physiological Downregulation During Conflict in Close Relationships
   Sarah R. Holley, Joyce W. Yuan, Megan E. McCarthy, & Robert W. Levenson
   University of California, Berkeley

13. Coherence Between Subjective Experience and Physiology in Emotion: Does Body-Awareness Training Matter?
   Jocelyn A. Sze, Joyce W. Yuan, Anett Gyurak, & Robert W. Levenson
   University of California, Berkeley

14. Task-Switching, Inhibitory Control and the Role of Trait Anxiety: Evidence from Eye-Movements During an Antisaccade Task
   Tahereh L. Ansari & Nazanin Derakshan
   Birkbeck University of London

15. Anxiety Reduces Top Down Attentional Control: Evidence from the Antisaccade Task
   Nazanin Derakshan & Tahereh Ansari
   Birkbeck University of London

16. High-Anxious Individuals Show Enhanced P1 Amplitudes upon Disengagement from Angry Faces
   Elaine Fox\(^1\), Nazanin Derakshan\(^2\), & Leor Shoker\(^2\)
   \(^1 University of Essex, \(^2 Birkbeck University of London

17. Anxiety Interferes with Effective Inhibition of Distracting Stimuli: Evidence from Eye-Movements During a Reading Task
   Leor Shoker & Nazanin Derakshan
   Birkbeck University of London

18. Deficits in Prepulse Inhibition of Startle with Increased Bulimic Symptomology in a Normative Sample
   Kelly Beth Bowker, Joseph C. Franklin, & Terry D. Blumenthal
   Wake Forest University
19. The Association Between Schizoid and Histrionic Personality Disorder Traits and Prepulse Inhibition of Acoustic Startle in a Nonclinical Sample
   Joseph C. Franklin, Kelley Beth Bowker, & Terry D. Blumenthal
   Wake Forest University

20. Apathy and Emotional Symptoms in Relation to P3 Response in Parkinson’s Disease
   David A. S. Kaufman, William M. Perlstein, Michelle J. Blanco, Michael J. Larson, Michael S. Okun, Hubert H. Fernandez, & Dawn Bowers
   University of Florida

21. The Impact of Motivational Influences on Error-Related Brain Activity in Young Children
   Dana C. Torpey, Greg Hajcak, & Daniel N. Klein
   Stony Brook University

22. Reconsidering Reappraisal: Descriptions Preceding Unpleasant Pictures Modulate the Amplitude of the Late Positive Potential
   Dan Foti, Greg Hajcak, & Jonathan Dunning
   Stony Brook University

23. Psychopathy, Trait Fear, and Affective Modulation of the Startle Blink Reflex
   Jason R. Hall, Edward M. Bernat, Noah Venables, Meredith Cadwallader, & Christopher J. Patrick
   University of Minnesota

24. Trait Fear and Fearlessness: Utilizing ERP to Investigate Individual Differences in Affective Processing
   An T. Dao¹, Nathalie Vizueta¹, Edward M. Bernat¹, Cho Kim Cheng², Siri A. Scott¹, Jana C. Christensen¹, Bethany A. Dicks¹, Michael L. Meldahl¹, Brandon W. Thorne¹, & Christopher J. Patrick¹
   ¹University of Minnesota, ²University of Toronto
25. **Improved Source Localization of Error-Related Negativity (ERN) Using Principal Components Analysis (PCA) of Time-Frequency Activity**  
   Edward M. Bernat¹, Selin Aviyente², & Christopher J. Patrick¹  
   ¹University of Minnesota, ²Michigan State University

26. **Startle Reflex Potentiation During Aversive Picture Viewing as an Indicator of Trait Fear in an Undergraduate Sample**  
   Uma Vaidyanathan, Edward M. Bernat, Meredith Cadwallader, An T. Dao, Alma Dzafic, Nathalie Vizueta, Noah C. Venables, & Christopher J. Patrick  
   University of Minnesota

27. **Processing Invisible Faces: Brain Response Differentiation Between Fearful and Neutral Expressions in an Interocular Suppression Paradigm**  
   Nathalie Vizueta, Yi Jiang, Robert W. Shannon, Edward M. Bernat, Christopher J. Patrick, & Sheng He  
   University of Minnesota

28. **Approach Emotionality Predicts EEG Coherence Between Left Motor Cortex and Left Prefrontal Cortex**  
   Carly K. Peterson & Eddie Harmon-Jones  
   Texas A&M University

29. **Take Your Mind Off It: Affective Perception and Distraction**  
   Bethany C. Wangelin, Andreas Löw, Lisa M. McTeague, Robert Sivinski, Margaret M. Bradley, & Peter J. Lang  
   University of Florida

30. **Dissociating Stimulus Novelty and Information Value**  
   Vera Ferrari¹, Margaret M. Bradley¹, Maurizio Codispoti², & Peter J. Lang¹  
   ¹University of Florida, ²University of Bologna
31. Electro cortical Dynamics of the Lag-1-Sparing Phenomenon During Rapid Serial Visual Presentation
Andreas Keil, Niklas Ihssen, & Sabine Heim
University of Florida, University of Konstanz

32. Pliant Fear: Instructed Reversal of Anticipatory Fear
Vincent D. Costa, Margaret M. Bradley, & Peter J. Lang
University of Florida

33. Reliable Sources: Dense EEG and Fast fMRI in Affective Perception
Dean Sabatinelli, Robert G. Sivinski, Francesco Versace, Margaret M. Bradley, & Peter J. Lang
University of Florida

34. The Effect of the Sharpness of a Knife on Weapon Focus: A P300 Study
Yuki Hamamoto & Shinji Hira
Fukuyama University

35. Effects of Refreshing Memory on P300-Based GKT After One Month: Central Memory vs. Peripheral Memory
Shinji Hira, Hamamoto Yuki, & Furumitsu Isato
Fukuyama University, University of East Asia

36. Event-Related Potentials Validate Attentional Changes After Mindfulness Training in Chronic Depression
Vladimir Bostanov, Martin Hautzinger, & Boris Kotchoubey
University of Tübingen

37. Pre-Ejection Period and T-Wave Amplitude as Indices of Sympathetic Nervous System Activity
Steffen Richter, Christine Philippsen, Johannes Port, & Hartmut Schächinger
University of Trier, University of Stuttgart
38. The Influence of Central Alpha2-Adrenoceptor Agonism and Antagonism on the Cardiac Modulation of Acoustic Startle
   Andre Schulz, Christine Philippsen, & Hartmut Schächinger
   University of Trier

39. Social Support and Social Anxiety Effects on Physiological Reactivity
   Amy R. Borchardt & Kathi L. Heffner
   Ohio University

40. Autonomic Influences on Heart Rate Reactivity to Acute Stress Following Emotional Disclosure
   Kathi L. Heffner & Lynne M. Rochette
   Ohio University

41. The Role of Reward Expectancy on the Generation of Feedback Related Negativity (FRN)
   Andrew Bismark, Loran Kelley, & John J. B. Allen
   University of Arizona

42. Respiratory Sinus Arrhythmia Predicts Mood in Third Trimester in Anxious Pregnant Women
   Andrea S. Chambers & John J. B. Allen
   University of Arizona

43. Measuring Stigma’s Effects on Neuronal Indices of Error Perception and Error Evaluation in Psychologically Disengaged Minorities
   Chad E. Forbes, Toni Schmader, & John J. B. Allen
   University of Arizona

44. Do You Feel Like We Do: Development and Testing of an Objective Measure of Empathic Emotional Responding
   Laura G. Kirsch, Judith V. Becker, & John J. B. Allen
   University of Arizona
45. **Brief Slow-Breathing Training and Stability of Resting and Stressor Task Changes in RSA Over One Week**

Lauren M. Bylsma, Mardis Karlsdottir, Jonathan Rottenberg, & Kristen Salomon

*University of South Florida*

46. **Cardiovascularly Healthy Depressed Persons Exhibit Attenuated Cardiovascular Reactivity to Laboratory Stressors**

Mardis Karlsdottir, April Clift, Jonathan Rottenberg, & Kristen Salomon

*University of South Florida*

47. **Race and Adiposity Are Related to Cardiovascular Reactivity and Impaired Recovery from Laboratory Stress**

Kristi E. White, Cathy A. Bykowski, Thomas S. King, & Kristen Salomon

*University of South Florida*

48. **Internalized Racism as a Moderator for Stereotype Threat: Effects on Cardiovascular Responses in Black Individuals**

Nicole E. Jaguszyn & Kristen Salomon

*University of South Florida*

49. **Language Lateralization of Theta and Beta EEG Bands in Developmental Dyslexia**

Chiara Spironelli, Barbara Penolazzi, & Alessandro Angrilli

*University of Padova*

50. **Emotional Anticipation in Subjects with Vasovagal Syncope**

Giulia Buodo¹, Silvia Poli¹, Franco Giada², Michela Madalosso², Cesare Rossi², & Daniela Palomba¹

¹ *University of Padova*, ² *Umberto I Hospital–Mestre*

51. **Time Course of Emotional Face Processing During Passive Viewing**

Michela Sarlo, Marianna Munafò, & Daniela Palomba

*University of Padova*
52. Defense Reactions to Interoceptive Threats: A Comparison Between Loaded Breathing and Aversive Picture Viewing
Meike Pappens, Steven De Peuter, Ilse Van Diest, Deb Vansteenwegen, & Omer Van Den Bergh
University of Leuven

53. Pavlovian Conditioning of Breathing Behavior in a Picture-Noise Fear Conditioning Paradigm
Ilse Van Diest¹, Margaret M. Bradley², Omer Van Den Bergh¹, Pedro Guerra³, & Peter J. Lang²
¹University of Leuven, ²University of Florida, ³University of Granada

54. The Influence of Emotional Context on Response Inhibition: Neural Correlates
Jacobo Albert, Sara López-Martín, Manuel Tapia, Dominique Kessel, & Luis Carretié
Universidad Autónoma De Madrid

55. Interaction Between Emotional Context and Attention to Color Studied Through Event-Related Potentials
Sara López-Martín, Jacobo Albert, Manuel Tapia, & Luis Carretié
Universidad Autónoma De Madrid

56. The Role of Attentional Deployment in Emotion Regulation
Sarah R. Cavanagh & Lisa M. Shin
Tufts University

57. Emotion Discrimination: Untangling the Extent of Emotion Understanding of 6-Month-Old Infants
Jennifer A. Dicoria, Sarah K. Ballou, & Heather L. Urry
Tufts University
Heather L. Urry
Tufts University

59. Modality Non Specific Attentional Startle is Modulated by Task Demands
Sakinah Alhadad, Helena M. Purkis, & Ottmar V. Lipp
University of Queensland

60. No Evidence for a Role of Startle in the StartReac Effect or for an Effect of Attention on Blink Facilitation at Very Short Lead Intervals
Ottmar V. Lipp¹, Sakinah Alhadad¹, Daniel M. Kaplan², & Helena M. Purkis¹
¹University of Queensland, ²Washington University

61. The Effects of Arousal and Valence on Global and Local Processing
Frances Martin, Tao Yin Ting, & Andrea Adam
University of Tasmania

62. Emotional Stimuli Modulate Sensory Gain: An ERP Study
Jordan E. Devylder, Paul M. Corballis, & Matt R. Hilimire
Georgia Institute of Technology

63. Establishing Functional Connectivity Between the Superior Colliculus and the Parietal Eye Field: A Combined fMRI and DTI Study
Orion P. Keifer, Paul M. Corballis, & Jordan E. Devylder
Georgia Institute of Technology

64. Age Differences in Early Frontocentral Enhanced Event-Related Positivity Elicited by Emotional Faces
Andrew Mienaltowski, Matthew R. Hilimire, Nathan A. Parks, Fredda Blanchard-Fields, & Paul M. Corballis
Georgia Institute of Technology
65. **Attentional Modulation of Prepulse Inhibition and Facilitation in ADHD and Healthy Adults: Relationship to Genetic and Diagnostic Factors**
   Annette Conzelmann, Peter Weyers, Ronald F. Mucha, Antje B. M. Gerdes, Christian Jacob, Christina G. Bähne, Klaus-Peter Lesch, Georg W. Alpers, & Paul Pauli
   *University of Würzburg*

66. **Toward and Away from Spiders: Attentional Engagement and Disengagement in Spider Phobic Patients**
   Antje B. M. Gerdes, Georg W. Alpers, & Paul Pauli
   *University of Würzburg*

67. **Eye to Eye Contact in Social Anxiety: New Insights from Eye-Tracking and Psychophysiological Data in a Mutual Gaze Design**
   Matthias J. Wieser, Andreas Mühlberger, & Paul Pauli
   *University of Würzburg*

68. **A Direct Comparison of the Central Nervous Processing of Social and Non-Social Emotional Stimuli**
   Andreas Mühlberger, Monika C. M. Frey, Katja Likowsky, Matthias J. Wieser, Paul Pauli, & Peter Weyers
   *University of Würzburg*

69. **A Direct Comparison of Facial Reactions to Social and Non-Social Emotional Stimuli**
   Peter Weyers, Monika Frey, Katja Likowski, Matthias J. Wieser, Paul Pauli, & Andreas Mühlberger
   *University of Würzburg*

70. **Assessing Multisensory Interactions During Audio-Visual Speech Perception Using ERP**
   Axel H. Winneke & Natalie A. Phillips
   *Concordia University*
71. Increased Activation of Left Hemisphere After Right Hand Transplantation Using Event Related Potentials: A Case Study
Jia Wu¹, Nikki Pratt¹, Alysia R. Rue¹, Sasha Key², Warren C. Briedenbach³, & Dennis L. Molfese¹
¹University of Louisville, ²Vanderbilt University, ³Jewish Hospital, Louisville

72. Threat of Shock Modulates Emotional Picture Processing: An ERP Study
Florian Bublatzky, Beate Hofer, Jessica Stockburger, Tobias Flaisch, Ralf Schmälzle, & Harald T. Schupp
University of Konstanz

73. Childhood Stress Load Affects Brain Responses to Affective Pictures in Psychiatric Patients
Jens Borgelt, Katja Weber, Barbara Awiszus, Tzvetan Popov, & Brigitte Rockstroh
University of Konstanz

74. Emotion and Attention in Visual Word Processing: An ERP Study
Johanna Kissler³, Cornelia Herbert¹, & Markus Junghöfer²
¹University of Konstanz, ²University of Münster

75. Age Differences in the Relationship Between Emotional Experience and Physiological Arousal
Samantha L. Neufeld¹, Michelle N. Shiota, & Robert W. Levenson²
¹Arizona State University, ²University of California, Berkeley

76. What is Reappraisal: A Psychophysiological Look at Sex Differences in Cognition-Based Emotion Regulation
Maren M. True¹, Michelle N. Shiota¹, & Robert W. Levenson²
¹Arizona State University, ²University of California, Berkeley
77. Investigating the Negativity Bias Using the Affective Go/No Go Task with Event-Related Potentials
   Jason W. Krompinger, Jason M. Moser, & Robert F. Simons
   University of Delaware

78. Alcohol is Nearly as Good as Sex: Social Drinkers’ P3 Reactivity to Alcohol and Arousing Cues
   Sarah A. Lust & Bruce D. Bartholow
   University of Missouri–Columbia

79. Response Conflict in Affective Priming Revealed by Event-Related Brain Potentials (ERPs)
   Bruce D. Bartholow & Monica Schepers
   University of Missouri–Columbia

80. Sitting, Listening, Viewing, or Performing: Effects of Baseline Task on Quantification of Autonomic Reactivity in Emotion
   Sylvia D. Kreibig, Guido H. E. Gendolla, & Klaus R. Scherer
   University of Geneva

81. Musical Complexity is Associated with Greater Relative Sympathetic Nervous System Activation
   Benjamin O. Turner, Robert J. Ellis, John J. Sollers III, & Julian F. Thayer
   The Ohio State University

82. Heart Rate and Heart Rate Variability During Experimental Worry and Problem Solving
   Jos F. Brosschot¹, Bart VerkuilBart, & Julian F. Thayer²
   ¹Leiden University, ²The Ohio State University

83. Resting Heart Rate Variability and the Startle Reflex to Pictures Presented Outside of Conscious Awareness
   Elisabeth Ruiz-Padial¹, & Julian F. Thayer²
   ¹University of Jaen, ²The Ohio State University
84. **Friend or Foe: Heart Rate Variability and the Negativity Bias in Learning about Novel Objects**
   Natalie Shook, Paloma Peña, Russell H. Fazio, John J. Sollers, III, & Julian F. Thayer
   *The Ohio State University*

85. **The Effects of Avatar Presence and Emotional Valence on Facial Muscle Activity in an Immersive Virtual Environment**
   Michael C. Philipp, H. Ted Denney, Ashley Moncrieff, Ritu Sharma, & Eric J. Vanman
   *Georgia State University*

86. **Effects of Trait Aggression on Emotional Responding and Aggressive Behavior Under Interpersonal Stress**
   Ashley Kilmer¹, Naomi Sadeh², & Edelyn Verona¹
   ¹*University of Illinois, Urbana–Champaign*,
   ²*University of Illinois, Chicago*

87. **Psychophysiological Correlates of Excessive Worry: Hyperventilation and Lower Vagal Control**
   Luis Carlos Delgado, Maria Isabel Viedma Del Jesus, Pandelis Perakakis, Jose Luis Mata, Pedro Guerra, Agnese Ferrara, & Jaime Vila
   *University of Granada*

88. **The Effects of Trait Worry, State Anxiety, and Task Difficulty on Heart Rate**
   Michael M. Knepp, Megan E. Moore, Jenna G. Carpenter, & Bruce H. Friedman
   *Virginia Tech*

89. **P300 Latency is Related to the Temporal Lag Between Two Targets During Attentional Blink**
   Fumihito Morimoto & Akihiro Yagi
   *Kwansei Gakuin University*
90. **Psychosocial Influences on Adrenocortical and Autonomic Reactivity in Schizophrenia Patients**

Gretchen L. Sholty, Jane C. Sun, Kristopher I. Mathis, Peter Bachman, Terrance J. Williams, Shelley E. Taylor, Keith H. Nuechterlein, Michael F. Green, Kenneth L. Subotnik, & Cindy M. Yee

*University of California, Los Angeles*

91. **Gender, Stress and P50 Suppression in Schizophrenia**

Jane C. Sun, Terrance J. Williams, Keith H. Nuechterlein, Kenneth Subotnik, & Cindy M. Yee

*University of California, Los Angeles*

92. **The Influence of Stress on P50 Suppression During the Prodromal, First-Episode and Chronic Phases of Schizophrenia**

Terrance J. Williams, Peter Bachman, Jane Sun, Kristopher I. Mathis, Gretchen L. Sholty, Shanon Chen, Kristen Hammel, Keith H. Nuechterlein, Tyrone D. Cannon, & Cindy M. Yee

*University of California, Los Angeles*

93. **Reduced Short-Latency Prepulse Inhibition Among Individuals at Ultra High Risk of Developing Psychosis**

Peter Bachman, Terrance J. Williams, Tyrone D. Cannon, Carrie E. Bearden, & Cindy M. Yee

*University of California, Los Angeles*

94. **The Influence of Social Support on the Affective Modulation of Startle in Schizophrenia**

Janet Y. Bang, Kristopher I. Mathis, Gretchen L. Sholty, Terrance J. Williams, Jane C. Sun, Peter Bachman, Keith H. Nuechterlein, Michael F. Green, Kenneth L. Subotnik, & Cindy M. Yee

*University of California, Los Angeles*
95. Gender Differences in Affective Modulation of Event-Related Potentials Elicited by Startle Probes
   Margarita Adrover¹, Catalina Alorda¹, Carolina Sitges¹, Jose Javier Campos-Bueno², & Pedro Montoya¹
   ¹University of Balearic Islands, ²Universidad Complutense De Madrid

96. Affective Vulnerability Coupled with Negative Mood Leads to Greater Artistic Creativity
    Modupe N. Akinola & Wendy B. Mendes
    Harvard University

97. Race, Ethnicity, and the TV News: Facial EMG Activity Can Index Audience Responses
    Anita Atwell, Ashley Moncrief, Asia Williams, Yuki Fujioka, & Eric J. Vanman
    Georgia State University

98. Neurophysiological Mechanisms of Voluntary Attention in Conditions of Sensorimotor Integration
    Ekaterina Aydarkina
    Southern Federal University

99. Neural Correlates of Conflict with Emotional Stimuli in a Flanker Task
    Shruti Baijal, Neha Khetrapal, & Narayanan Srinivasan
    University of Allahabad

100. Psychophysiological Gender Differences in Emotional Stimuli Processing
    Marta Bianchin & Alessandro Angrilli
    University of Padova

101. Quantitative and Convectional EEG in Homicides
    Ana Agustina Calzada Reyes¹ & Alfredo Alvarez Amador²
    ¹Legal Medicine Institute, ²Cuban Neuroscience Center
102. The Autonomic Nervous System: Middleman Between Stress and Emotion
James Cavanagh¹ & Margaret E. Kemeny²
¹University of Arizona, ²University of California, San Francisco

103. Effects of Secondary Categorization Processes on Explicit Categorization Using Event-Related Potentials
Guadalupe Corral, Stephen L. Crites, Jennifer H. Taylor, & Andrew J. Mojica
University of Texas–El Paso

104. Correct-Response Negativity and 1/F Noise as Indices of Strategic Control in Social Categorization
Heather M. Coulter¹, Tiffany A. Ito¹, & Joshua Correll²
¹University of Colorado–Boulder, ²University of Chicago

105. Neural Response to Emotional Pictures is Unaffected by Concurrent Task Difficulty: An Event-Related Potential Study
Jonathan P. Dunning, Dan Foti, & Greg Hajcak
Stony Brook University

106. Emotional Perception and Imagery: A Translational Approach to Internalizing Disorders
Daniel J. Goldman¹, Bruce N. Cuthbert¹, Margaret M. Bradley², Christopher J. Patrick¹, & Peter J. Lang²
¹University of Minnesota, ²University of Florida

107. Associations Among Introversion, Neuroticism, and Attentional Processing as Measured by Heart Rate and Skin Conductance Responses to High Intensity Auditory Stimuli
Justin E. Greenstein, Jon D. Kassel, & Daniel P. Evatt
University of Illinois, Chicago
108. A Regression-Based Meta-Analysis of Cardiovascular Baselines in Participants With and Without a Family History of Hypertension
Barron M. Griffith, Thomas W. Pierce, Rodney D. Grim, & Joseph S. King
Radford University

109. Cardiovascular Variability in Unmedicated Patients with Recent-Onset Schizophrenia
Erasmus MC

110. Examining the Nature and Time Course of Attention to Emotional Facial Expressions
Matthew R. Hilimire, Paul M. Corballis, Jordan E. Devylder, & Derek Forth
Georgia Institute of Technology

111. Implicit Motivation in the Brain: The Role of Implicit Power and Affiliation Motivation on Neural Responses to Angry Facial Expressions of Emotion
Julie L. Hall¹, Christian E. Waugh², Steven J. Stanton¹, Michelle M. Wirth³, Patricia A. Reuter-Lorenz¹, & Oliver C. Schultheiss¹
¹University of Michigan, ²Stanford University, ³University of Wisconsin

112. The Impact of Rock Climbing on Anxiety and Cortisol
Christopher I. Hodgson, Nick Draper, Glenys A. Jones, Simon Fryer, Ian Coleman, & Terry McMorris
University of Chichester
113. Comparing Effects of Physiological Stress and Psychological Stress on Wound Healing in Rats
Mir Ali Khatibi Tabatabaei¹, Elham Dianati Ajibishe², & Abbas Haghparast²
¹Tehran-Oxford Neurodevelopmental Center, ²Arkansas Children’s Nutrition Center, ³Iran Neuroscience Research Center

114. Retrieval-Induced Forgetting Under Stress-Memory Performance and Cortisol Level
Susanne Kössler & Johanna Kissler
University of Konstanz

115. Implicit Sociality Overrides Explicit Relationship Goals in a Task Involving Conscious Control of Corrugator Supercilii: Diverging Paths of Automaticity and Control Towards Friends vs. Strangers
Dennis Kuester & Arvid Kappas
Jacobs University Bremen

116. The Effects of Age and Motivational Activation on the Processing of Risky Products
Sungkyoung Lee, Gayle Nadorff, & Annie Lang
Indiana University

117. Attentional Networks Reveal Executive Control Deficits in Posttraumatic Stress Disorder: An fMRI Study
Lorraine P. Leskin, Patricia M. White, & Yalchin Abdullaev
University of Oregon

118. Effects of Opioid Blockade on the Modulation of Pain and Mood by Sweet Taste and Blood Pressure
Maxim D. Lewkowski, Simon N. Young, Shuvo Ghosh, & Blaine Ditto
McGill University
119. Attentional Blink Startle Modulation During Pleasant and Unpleasant Cues in Human Affective Conditioning
Kimberley M. Mallan & Ottmar V. Lipp
University of Queensland

120. Respiratory Pacing and Experimental Context: Interactive Influences on the Quantification of Heart Rate Variability
Martha F. McCool\textsuperscript{1}, Senta Furman\textsuperscript{1}, Keri Heilman\textsuperscript{1}, Jocelyn Leobow\textsuperscript{2}, Emily Harden\textsuperscript{1}, Mika Handelman\textsuperscript{1}, Alexis Kramer\textsuperscript{2}, & Stephen W Porges\textsuperscript{1}
\textsuperscript{1}University of Illinois, Chicago, \textsuperscript{2}Illinois Institute of Technology

121. ERP Endophenotypes of Adult ADHD
Gráinne McLoughlin\textsuperscript{1}, Björn Albrecht\textsuperscript{2}, Daniel Brandeis\textsuperscript{3}, Tobias Banaschewski\textsuperscript{4}, Philip Asherson\textsuperscript{1}, & Jonna Kuntsi\textsuperscript{1}
\textsuperscript{1}King’s College, London, \textsuperscript{2}Georg August Universitaat, Göttingen, \textsuperscript{3}University of Zurich, \textsuperscript{4}University of Mannheim

122. Chronic Worry, Somatic Arousal, and the Psychophysiology of Generalized Anxiety Disorder
Lisa M. McTague\textsuperscript{1}, Joshua R. Shumen\textsuperscript{1}, Marie-Claude Laplante\textsuperscript{3}, Margaret M. Bradley\textsuperscript{1}, Bruce N. Cuthbert\textsuperscript{2}, & Peter J. Lang\textsuperscript{1}
\textsuperscript{1}University of Florida, \textsuperscript{2}University of Minnesota

123. Differences Between the Detection of Shape Deviance and Color Deviance: An ERP Study
Eli J. Mikkelsen, James K. Kroger, Doerte K. Spring, & Carly J. Chapa
New Mexico State University

124. Current Mood State and Affective Startle Modulation
Chantal P. Mörsen\textsuperscript{1}, Klaus Wölfing\textsuperscript{1}, Herta Flor\textsuperscript{2}, & Sabine M. Grüsser\textsuperscript{1}
\textsuperscript{1}Charité Berlin, \textsuperscript{2}University of Heidelberg
125. The Neural Consequences of Flip Flopping: the Feedback Related Negativity and Commitment to Reward Prediction
Jason S. Moser & Robert F. Simons
University of Delaware

126. Action-Monitoring Processing is More Sensitive to Gain than to Avoidance of the Loss
Asuka Murata & Jun’ichi Katayama
Hokkaido University

127. The Fear Survey Schedule as a Sensitive Measure of Stress: Evidence from ERPs
Aminda J. O’Hare & Joseph Dien
University of Kansas

128. Relationship Between Emotional Arousal and Retention Intervals in the Concealed Information Test (CIT)
Akemi Osugi\(^1\) & Hideki Ohira\(^2\)
\(^1\)Nagoya University, Japan Society for the Promotion of Science, \(^2\)Nagoya University

129. Psychopathy Prompts Irrational Decision-Making: Evidence from Autonomic Responses to Disadvantageous Offers in the Ultimatum Game
Takahiro Osumi & Hideki Ohira
Nagoya University

130. Evidence of Respiratory Sinus Arrhythmia-Heart Rate Dissociation During Sleep in Healthy Volunteers
Kirill Ovchinnikiv
Southern Federal University

131. The Influence of Motivation and Reward on Selective Visual Attention
Nikki L. Pratt & Dennis L. Molfese
University of Louisville
132. Psychophysiological Validation of an Aversive Conditioning Paradigm Designed to Assess Continuous Gradients of Fear Generalization
Stephanie Rabin, Shmuel Lissek, Arter Biggs, Ruben Alvarez, Brian Cornwell, & Christian Grillon
National Institute of Mental Health

134. Ringtones in Our Modern World: Personal Significance isEncoded Automatically by the Human Brain
Anja Roye, Thomas Jacobsen, & Erich Schröger
University of Leipzig

135. Alpha-Asymmetry and Differential Approach Processes in Psychopathic Prison Inmates
Naomi Sadeh¹, Edelyn Verona¹, Edward M. Bernat², & Christopher J. Patrick³
¹University of Illinois, Urbana–Champaign, ²University of Minnesota

136. Neural Correlates of Human Helplessness: An fMRI Investigation
Tim V. Salomons¹, Robin Nusslock², Allison Detloff², Tom Johnstone², Misha M. Backonja³, Lyn Y. Abramson³, & Richard J. Davidson³
¹University of Wisconsin–Milwaukee, ²University of Wisconsin–Madison

137. Sex, Food, Threat and the Post-Auricular Reflex
Arthur R. Sandt¹, Denise M. Sloan², & Kareem J. Johnson¹
¹Temple University, ²National Center for PTSD

138. Time Course of Attentional Bias in Anxiety
Sarah M. Sass, Wendy Heller, Jennifer L. Stewart, Rebecca L. Levin, Christopher J. Edgar, Joscelyn E. Fisher, & Gregory A. Miller
University of Illinois, Urbana–Champaign
139. The Influence of Attention on the Auditory Steady-State Response in Artificial and Natural Sounds
   Katja Saupe, Andreas Widmann, Alexandra Bendixen, Matthias Müller, & Erich Schröger
   University of Leipzig

140. Difficulty of Discrimination Modulates Attentional Capture by Regulating Attentional Focus
   Risa Sawaki & Jun’ichi Katayama
   Hokkaido University
Poster Session II
Friday, October 19, 2007
6:00 P.M.—8:00 P.M.
Harborside Center

Poster Presenter Schedule

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

1. Borderline Personality Disorder Traits are Associated with Prepulse Inhibition Abnormalities that Vary According to Gender
Joseph C. Franklin, Kelly Beth Bowker, & Terry D. Blumenthal
Wake Forest University

2. Respiratory Sinus Arrhythmia (RSA) and the N450 in Younger and Older Adults
Leslie Capuana, William J. Tays, Karen Mathewson, Sidney J. Segalowitz, & Jane Dywan
Brock University

3. Evaluating Bandpass Filter Settings for Measuring the P50 in Adults and Children
Wen-Pin Chang, William J. Gavin, & Patricia L. Davies
Colorado State University

4. Heart Rate Variability and Maze-Learning Performance in Older and Younger Adults
Karen J. Mathewson¹, Jane Dywan¹, William J. Tays¹, Peter J. Snyder², & Sidney J. Segalowitz¹
¹Brock University, ²University of Connecticut

5. Subclinical Psychopathy (SRP-III) and ERP Responses to a Visual Oddball Task
Gillian E. S. Munro¹, Jane Dywan², & Sidney J. Segalowitz²
¹University of Waterloo, ²Brock University
6. **General Proactive Interference and the N450 Response**  
   William J. Tays, Jane Dywan, Leslie Capuana, & Sidney J. Segalowitz  
   Brock University

7. **A High-Density ERP Study on Word Frequency and Neighborhood: Lexical Status Effects in the P100**  
   Xin Zheng & Sidney J. Segalowitz  
   Brock University

8. **ERP Measures of Efficiency During Error Processing in Children**  
   William J. Gavin¹, Sidney J. Segalowitz², & Patricia L. Davies³  
   ¹Colorado State University, ²Brock University

9. **Eliciting Early VEP Components: A Comparison of Paradigms**  
   Sidney J. Segalowitz & Matthew Dipoce  
   Brock University

10. **Endogenous Cortisol Suppression Enhances Startle Eye Blink**  
    Sonja Roemer & Hartmut Schächinger  
    University of Trier

11. **The Neural Substrates of Delayed Match and Non-Match Saccades: An fMRI Investigation**  
    Benjamin P. Austin, Kara A. Dyckman, Jazmin Camchong, & Jennifer E. McDowell  
    University of Georgia

12. **ERP Source Analysis of Genetic Influences on Early and Late Processing in a Visual Oddball Task**  
    Lauren E. Ethridge¹, Steven Malone², William G. Iacono², & Brett A. Clementz¹  
    ¹University of Georgia, ²University of Minnesota
13. Neural Correlates of Wins and Losses During a Gambling Task in Pathological and Non-Pathological Gamblers
   Elizabeth Krusemark, Jazmin Camchong, Jennifer McDowell, Adam Goodie, & Brett Clementz
   University of Georgia

14. A Specific Relationship Between Motion Processing and Neural Activity Deficits in Schizophrenia
   Jun Wang¹, Jennifer Wilson¹, Karen R. Dobkins², Jennifer E. McDowell¹, & Brett A. Clementz¹
   ¹University of Georgia, ²University of California, San Diego

15. The Effects of Education and Physical Fitness on Brain Anatomy
   Brian A. Gordon, Elena I. Rykhlevskaia, Carrie R. Brumback, Edward McAuley, Art F. Kramer, Stan Colcombe, Gabriele Gratton, & Monica Fabiani
   University of Illinois, Urbana–Champaign

16. Effects of Parametric Changes in Working Memory Load on the Bold and ERP Response in Young and Old Adults
   Nils J. Schneider, Shin Eunsam, Brian A. Gordon, Carrie R. Brumback, Yukyung Lee, Ed L. Maclin, Gabriele Gratton, & Monica Fabiani
   University of Illinois, Urbana–Champaign

17. Electrophysiological Evidence of Inter-Trial Inhibition of Focused Attention
   Eunsam Shin, Xiaoang I. Wan, Monica Fabiani, Gabriele Gratton, & Alejandro Lleras
   University of Illinois, Urbana–Champaign

18. Dissociating Brain Responses to Implicit Rules of Varying Complexity
   Chun-Yu Tse, Kathy A. Low, Jason Agran, Guadalupe Arroyo, Colleen Jackson, Monica Fabiani, & Gabriele Gratton
   University of Illinois, Urbana–Champaign
19. When the Modality Keeps Changing: Event-Related Potentials (ERPs) Show General and Modality-Specific Preparation in a Cross-Modal Stroop Task
   Kathy A. Low, Colleen Jackson, Monica Fabiani, & Gabriele Gratton
   University of Illinois, Urbana–Champaign

20. Early Gamma Band Response in a Word Relatedness Task
   Grantley W. Taylor & Dean F. Salisbury
   McLean Hospital

21. Alcohol Selectively Affects Anxiety But Not Fear
   Christine A. Moberg & John J. Curtin
   University of Wisconsin–Madison

22. Assessing the Effects of Background Noise and Prepulse Format on Auditory Sensorimotor Gating
   Wade R. Elmore, Elizabeth R. Duval, & Diane L. Filion
   University of Missouri–Kansas City

23. Emotional Reactions to Body Image Cues: Implications for Eating Disorders
   Kristen M. Keune, Carrie D. Spresser, Diane L. Filion, & Jennifer D. Lundgren
   University of Missouri–Kansas City

24. Does Respiratory Sinus Arrhythmia Predict PTSD Symptom Severity?
   Kristin E. Pontoski¹, Michelle J. Bovin¹, Denise M. Sloan², & Brian P. Marx²
   ¹Temple University, ²National Center for PTSD, VA Boston Healthcare System

25. Grasping Disgusting Stimuli Enhances Motor Readiness Potential
   Federal University of Rio de Janeiro
26. **Emotional Engagement and Desengagement Verified by Saccadic Reaction Times**  
Aydamari J. P. Faria, Jr., Walter Machado-Pinheiro, Isabel P. A. David, Pedro Guerra, Pandelis Perakakis, Leticia Oliveira, Mirtes G. Pereira, Jaime Vila, & Eliane Volchan  
¹Federal University of Rio de Janeiro, ²Federal Fluminense University, ³University of Granada

27. **Fiction or Truth? Differential Processing of Aversive Scenes: An ERP Study**  
Letícia Oliveira, Izabela Mocaiber, Fatima Erthal, Mauricio Cagy, Ivan Figueira, Walter Machado-Pinheiro, Mirtes G. Pereira, & Eliane Volchan  
¹Federal Fluminense University, ²Federal University of Rio de Janeiro

28. **Individual Differences in Brain Activations During Negative-Picture Behavioral Interference**  
Mirtes G. Pereira, Fatima Erthal, Leticia Oliveira, Mateus Joffily, Walter Machado-Pinheiro, Ivan Figueira, Eliane Volchan, & Luiz Pessoa  
¹Federal Fluminense University, ²Federal University of Rio de Janeiro, ³Indiana University–Bloomington

29. **Decision-Making and Emotion: Cardiac Reaction in the Ultimatum Game**  
Billy E. M. Nascimento, Carlos E. Norte, Ana C. Lages, Jorge Moll, & Eliane Volchan  
¹Federal University of Rio de Janeiro, ²Labs D’Or Hospitals
30. Resilience, Vagal Tone and Pleasant Priming Improve Cardiac Recovery from Acute Stress
Gabriela G. L. Souza¹, Ana C. F. Mendonza-de-Souza¹, Eduardo M. Barros¹, Nastassja L. Fischer¹, Evandro F. S. Coutinho², Letícia Oliveira³, Mauro V. Mendlowicz³, Ivan Figueira¹, Jaime Vila⁴, & Eliane Volchan¹
¹Federal University of Rio de Janeiro, ²Oswaldo Cruz Foundation, ³Federal Fluminense University, ⁴University of Granada

31. Startle Responses of Schizophrenic Patients During the Viewing of Erotic, Nature and Threat Pictures
Erasmus MC

32. Patterns of P300 Laterality Observed During the Presentation of Emotional Prosodic Utterances and Emotional Prosodic Words
Alan L. Gerding, Daniel E. Everhart, & Claude E. Davis
East Carolina University

33. Latency of Conditioned Fear in Humans After Delay and Trace Aversive Conditioning
Ole Asli & Magne A. Flaten
University of Tromsø

34. Brain Activation During Fear Conditioning Depends on Genetic Variations Related to Functioning of the Hypothalamic-Pituitary-Adrenal Axis
Herta Flor¹, Stephanie Ridder¹, Simone Lang¹, Slawomira Lipinski¹, Michele Wessa¹, Markus Skowronek¹, Marcella Retschel¹, & Gunter Schumann²
¹University of Tübingen, ²King’s College, London
35. Risk Factors for the Development of Posttraumatic Stress Disorder: Results from a High Risk Population Sample
   Slawomira Lipinski, Stephanie Ridder, Simone Lang, Michèle Wessa, Christoph Christmann, & Herta Flor
   University of Heidelberg

36. Skin Potential Level Changes Under Arousal Stimulation and Individual Differences in Empathy
   Dmytro Gorlov, Volodymyr Bogdanov, & Yuriy Gorgo
   Taras Shevchenko National University of Kyiv

37. Emotional Stress, Gender, and Age Effects on Facial Skin Potential Distribution
   Volodymyr Bogdanov, Dmytro Gorlov, Svitlana Fedorchuk, Anatoliy Ena, & Yuriy Gorgo
   Taras Shevchenko National University of Kyiv

38. Increase of Local Skin Potential Response in Forehead Skin During a Cognitive Task
   Yuriy Gorgo, Volodymyr Bogdanov, & Dmytro Gorlov
   Taras Shevchenko National University of Kyiv

39. Interactions of Emotion and Cognitive Control: An ERP Study about Task-Switching
   Doerte K. Spring, James Kroger, & Eli Mikkelsen
   New Mexico State University

40. The Effect of Individual Differences in Motivated Processing on Responses to Sex Appeal in TV Ads
   Rachel Bailey, Paul D. Bolls, Kevin Wise, & Glenn Leshner
   University of Missouri–Columbia
41. An Examination of Heart Rate Variability During Positive and Negative Radio Messages
   Jacob Koruth¹, Robert F. Potter¹, Paul D. Bolls², & Annie Lang¹
   ¹Indiana University, ²Missouri School of Journalism

42. Yo-Mam! Validating a Measure for Assessing Individual Differences in Motivational Activation in Children
   Annie Lang, Satoko Kurita, Sungkyoung Lee, & Pamela Gayle Nadorff
   Indiana University

43. The Interplay Between Income and Midfrontal EEG Asymmetry in Children from Low-Income Households
   Cory A. B. Jackson¹, Eric Dearing², Daren C. Jackson¹, & Walter D. Scott¹
   ¹University of Wyoming, ²Boston College

44. Demand Characteristics in Emotion Regulation Paradigms
   Nicholas G. Schwab, David L. Jost, & Daren C. Jackson
   University of Wyoming

45. Generalizing Knowledge: ERPs Reveal the Time-Course of Retrieval of Novel Categories
   Caterina Gratton, Karen M. Evans, & Kara D. Federmeier
   University of Illinois, Urbana–Champaign

46. Hemispheric Differences in Syntactic Modulation on the Lexical Ambiguity Resolution—An Event Related Potential Study
   Chia-lin Lee & Kara D. Federmeier
   University of Illinois, Urbana–Champaign

47. How I Learned to Stop Worrying and Love the VCR: N400 Processing of Illegal Strings in Sentence Context
   Sarah Laszlo & Kara D. Federmeier
   University of Illinois, Urbana–Champaign
48. Two Sides of Meaning: The Scalp-Recorded N400 Reflects Distinct Contributions from the Cerebral Hemispheres
   Edward W. Wlotko & Kara D. Federmeier
   University of Illinois, Urbana–Champaign

49. Combined Effects of Alcohol and Nicotine on Acoustic Startle Reflex in Response to a Social Stressor
   Jennifer C. Veilleux¹, Jon D. Kassel¹, Margaret C. Wardle¹, Marisa C. Yates¹, Linda Roesch¹, & David J. Drobes²
   ¹University of Illinois, Chicago, ²University of South Florida

50. Reduced Lateralized Readiness Potential (LRP) Amplitude in Schizophrenia Patients
   Emily S. Kappenman¹, Rebecca L. Fuller², Steven J. Luck¹, Benjamin Robinson², Elsie L. Braun¹, & James M. Gold¹
   ¹University of California, Davis, ²Maryland Psychiatric Research Center, ³University of Iowa

51. P3 Amplitude Predicts Treatment Compliance in Substance Dependent Individuals
   Robyn M. Baldridge & Matthew S. Stanford
   Baylor University

52. Working Memory and Impulsive Aggression
   Amanda Colby & Matthew S. Stanford
   Baylor University

53. Brain Potentials to Structural Reanalysis of Arithmetic Expressions
   Naiyi Wang¹, Burkhard Maess¹, Yuejia Luo², & Angela D. Friederici¹
   ¹Max Planck Institute for Human Cognitive and Brain Sciences, ²Beijing Normal University

54. Cortisol Increases During Interracial Encounters Predict (Over-) Correction of Bias
   Katrina R. Koslov & Wendy Mendes
   Harvard University
55. Genetic and Environmental Contributions to P300 Amplitude as a Function of Adolescent Alcohol Use
   Greg Perlman, Wendy Johnson, Steve M. Malone, & William G. Iacono
   University of Minnesota

56. Physiological Compliance and Team Performance During the Highly Dynamic Task of Building Clearing
   Clemson University

57. The Effects of Parental Divorce on Females’ Cardiac Reactivity and Hesitancy Towards Public Displays of Affection
   Lauren M. Haack, Amanda N. Elkins, Stephanie R. Fishel, & Eric R. Muth
   Clemson University

58. The Relationship Between Aerobic Fitness and the Attentional Networks in Preadolescent Children
   Sarah M. Buck, Nicole M. Surico, Kristopher J. Wnek, Darla M. Castelli, & Charles H. Hillman
   University of Illinois, Urbana–Champaign

59. The Relationship of Age and Fitness to Attentional Orienting and Task Difficulty
   Matthew B. Pontifex¹, Charles H. Hillman¹, & John Polich²
   ¹University of Illinois, Urbana–Champaign, ²The Scripps Research Institute

60. Neuroelectric Indices of Error Correction and the Regulation of Cognitive Control
   Charles H. Hillman, Jason R. Themanson, Matthew B. Pontifex, Douglas C. George, Kelli M. Thompson, Teresa A Valentini, & Kristopher J. Wnek
   University of Illinois, Urbana–Champaign
61. Cardiorespiratory Fitness Influences on the Modulation of Neuroelectric and Behavioral Indices of Action Monitoring
   Jason R. Themanson, Matthew B. Pontifex, & Charles H. Hillman
   University of Illinois, Urbana–Champaign

62. Resting Brain Activity Predicts Emotion Regulation Success
   Marina L. Bontowski, Christen M. Deveney, & Diego A. Pizzagalli
   Harvard University

64. Affective Modulation of the Acoustic Startle Eyeblink Reflex in Fibromyalgia
   Emily J. Bartley, Amy E. Williams, & Jamie L. Rhudy
   University of Tulsa

65. The Influence of Emotionally-Charged Facial Expressions on the Acoustic Startle Reflex
   Klanci M. McCabe, Amy E. Williams, Emily J. Bartley, & Jamie L. Rhudy
   University of Tulsa

66. Emotional Modulation of Nociceptive Reactions: Do Borderline Personality Traits Play a Role?
   Jennifer L. Russell, Amy E. Williams, Klanci M. McCabe, & Jamie L. Rhudy
   University of Tulsa

67. Affective Modulation of Blink Reflexes Following Painful Trigeminal Nerve Stimulation
   Amy E. Williams & Jamie L. Rhudy
   University of Tulsa
68. **The Influence of Behavioral Activation and Behavioral Inhibition on Affective Modulation of Nociception**
   Carl P. Lattimore, Amy E. Williams, Klanci M. McCabe, & Jamie L. Rhudy
   *University of Tulsa*

69. **Preparation for Speeded Action: Distinguishing the Effects of Phasic Arousal and Temporal Orienting with fMRI**
   Robert Langner¹, Bettina Rolke², Rolf Ulrich², Michael Erb³, Wolfgang Grodd³, & Steven A. Hackley³
   ¹Aachen University, ²University of Tübingen, ³University of Missouri–Columbia

70. **Neural Mechanisms of Visual Working Memory Deficits**
   Eun-Young Lee¹, Cowan Nelson¹, Rolan Terry¹, Edward K. Vogel³, & Steven A. Hackley¹
   ¹University of Missouri–Columbia, ²University of Oregon

71. **Out of Sight But Still in Mind: Shift of Attention Precedes Shift of Dominance in Binocular Rivalry**
   Andrea Schankin¹, Fernando Valle-Inclan², & Steven A. Hackley³
   ¹Ludwig Maximilian University–Munich, ²University of La Coruna, ³University of Missouri–Columbia

72. **Expectancy-Driven Modulation of Primary Auditory Cortical Responses**
   Thomas Hartmann¹, Nathan Weisz², Winfried Schlee¹, Katalin Dohrmann¹, & Thomas Elbert¹
   ¹University of Konstanz, ²INSERM U821

73. **Neuromagnetic Activity During Recognition of Emotional Pictures**
   Anne Hauswald & Johanna Kissler
   *University of Konstanz*
74. **Childhood Stress Load Affects Psychoendocrinological Responses in Psychiatric Patients**
   Katja Weber¹, Jens Borgelt¹, Barbara Awiszus¹, Tzvetan Popov², Brigitte Rockstroh¹, Harald Engler², & Manfred Schedlowski³
   ¹University of Konstanz, ²Swiss Federal Institute of Technology Zurich, ³University of Duisburg-Essen

75. **Intensity Information Encoded in Auditory Imagery as Indexed by Electrophysiological and Behavioral Measures**
   Jianhui Wu¹, Yuejia Luo², Zhulin Yu³, Xiaojin Mai¹, & Junxian Shen³
   ¹Institute of Psychology, Chinese Academy of Sciences, ²Beijing Normal University, ³Institute of Biophysics, Chinese Academy of Sciences

76. **Comparing Working Memory Contents vs. Recalling Working Memory Contents: P3 and Late Negative Component Differences**
   Jason W. Wyatt, James K. Kroger, & Doerte K. Spring
   New Mexico State University

77. **Increased Activation of the Frontal P3 During Encoding is Associated with Poorer Working Memory Performance in Middle Aged Adults**
   Ashley S. Hamlin, Janet L. Shucard, Ayda Tekok-Kilic, & David W. Shucard
   University at Buffalo, SUNY

78. **An Electrophysiological Study of Age-Related Differences in Encoding and Maintenance During a Spatial Working Memory (WM) Task**
   Ayda Tekok-Kilic, Janet L. Shucard, Ashley S. Hamlin, & David W. Shucard
   University at Buffalo, SUNY

79. **Asymmetrical Frontal EEG and Anger Following Social Rejection**
   Carly K. Peterson & Eddie Harmon-Jones
   Texas A&M University
80. Physiological Arousal During Narration of Emotional Events in Secure and Dismissive Attached Individuals
Ana E. Wyman¹, Arlene R. King², & Carol Magai³
¹Intercultural Institute for Human Development and Aging, ²Columbia University, ³Long Island University

81. Voiced Laughter Elicits More Positive Affect in Listeners than Unvoiced Laughter
Michael C. Philipp, Eric J. Vanman, & Michael J. Owren
Georgia State University

82. Low-Cost EEG/ERP Lab Development and Validation Using a Visual CPT Oddball Paradigm
Richard T. Amoss & Eric J. Vanman
Georgia State University

83. Simple Affective Conditioning to Colors as Revealed by Brow and Cheek Electromyographic Activity
Lisa A. Elliott, Emma Kearney, Will Kearney, & Eric J. Vanman
Georgia State University

84. Fight or Flight: Fear, Anger, and Aggressive Responding
Ashley Kilmer¹, Naomi Sadeh¹, & Edelyn Verona²
¹University of Illinois, Urbana–Champaign, ²University of Illinois, Chicago
85. **Eyeblink and Post-Auricular Startle Modulation During Reward, Punishment, and Frustration in Deprived and Non-Deprived Smokers**

Miguel A. Muñoz¹, Steve S. Hackley¹, Sonia S. Rodriguez¹, Luis C. Delgado¹, Isabel I. Antunes de Paula², María Carmen Fernández-Santaella¹, & Jaime J. Vila¹

¹University of Granada, ²Federal Fluminense University

86. **Differences in Exercise and Baseline Heart Rate Interactions in High and Low Worriers**

Michael M. Knepp & Laura E. Tiffin

Virginia Tech

87. **Frustration and Novelty: Effects on Autonomic Response in Internet Users**

Michelle A. Patriquin, Michael M. Knepp, Bruce H. Friedman, Angela Scarpa, & Anthony O. Wells

Virginia Tech

88. **Cortical Dynamics of Object-Sensitive Neural Activity**

Emily A. Slocombe, Lisa C. Lucia, & Haline E. Schendan

Tufts University

89. **Differential Effects of Chocolate and Coffee Scents on Cognition, Physiology, and Clerical Office Work**

Daniel Felbaum, Kristen Koval, Justin Schmitt, & Bryan Raudenbush

Wheeling Jesuit University

90. **Differential Effects of Visual Distractions on Pain Threshold and Tolerance**

Daniel Felbaum, Ryan Hunker, Bryan Raudenbush, Corrine Chamberlin, & Jerry Nolan

Wheeling Jesuit University
91. **The Role of the Cholinergic Pathway in Airway Response to Emotional Stimuli**

Antje Kullowatz¹, Hans-Juergen Smith², Stefan Weber³, Frank Kanniess⁴, Helgo Magnussen⁴, Bernhard Dahme⁴, & Thomas Ritz¹

¹Southern Methodist University, ²Jaeger/Toennies GmbH, ³University of Hamburg, ⁴Hospital Grosshansdorf

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92. **Emotional Reactivity of the Airways in Asthma: Association with Markers of Airway Reactivity and Pathophysiology**

Thomas Ritz¹, Antje Kullowatz¹, Hans-Juergen Smith², Christopher Burrows¹, Frank Kanniess³, Bernhard Dahme⁴, & Helgo Magnussen³

¹Southern Methodist University, ²Jaeger/Toennies GmbH, ³Hospital Grosshansdorf, ⁴University of Hamburg

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93. **Paced Breathing Does Not Alter Respiratory Resistance in Healthy Individuals**

Bernhard Dahme¹, Miriam Thoens¹, & Thomas Ritz²

¹University of Hamburg, ²Southern Methodist University

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94. **Respiratory Muscle Tension as a Determinant of Breathlessness in Individuals with High and Low Anxiety Sensitivity**

Sibylle Petersen¹, Lavanya Bhaskara², Catherine P. Seger², Tristan A. Knowles², Alicia E. Meuret², & Thomas Ritz²

¹University of Hamburg, ²Southern Methodist University

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95. **Time Estimation Differences in Low and High Hostile Men: Behavioral and Physiological Correlates of Right Frontal Regulation of an Internal Clock**

Holland K. Alissa, Joseph E. Carmona, David E. Cox, Thomas Belcher, Samantha Wolf, & David Harrison

Virginia Polytechnic Institute and State University
96. Younger and Older Adult Slow Wave Potentials During Problem Solving are Differentially Modified by Strategy Training
   Kimberly H. Anderson, Dana L. Byrd, & W. Keith Berg
   University of Florida

97. The Effects of Methylphenidate on Attention and Inhibition in Attention-Deficit/Hyperactivity Disorder
   Rebecca L. Ashare, Larry W. Hawk, Jr., Keri Shiels-Keri, Sarah V. Spencer, Brian Gangloff, James G. Waxmonsky, William E. Pelham, Jr., & Jerry B. Richards
   1University at Buffalo, SUNY, 2Umberto I Hospital-Mestre

98. Placebo Analgesia Related to Reduced Negative Emotions
   Per Aslaksen & Magne Arve Flaten
   University of Tromsø

   Pamela Baess, Thomas Jacobsen, & Erich Schröger
   University of Leipzig

100. Orienting of Attention Influences Visual Memory Storage
    Marcin Biernacki, & Adam Tarnowski
    1Polish Air Force Institute of Aviation Medicine, 2Warsaw University

101. Possible Antioxidant and Neuroprotective Mechanisms of Zolpidem in Attenuating Typical Antipsychotic-Induced Orofacial Dyskinesia—A Biochemical and Neurochemical Study
    Mahendra Bishnoi, Shrinivas Kulkarni, & Kanwaljit Chopra
    Panjab University
102. Use of Video Games to Distract Physical Therapy Patients from Pain and Anxiety
Trevor Cessna & Bryan Raudenbush
Wheeling Jesuit University

103. Event-Related Potential Correlates of Individual Differences in Activation of Achievement Goals
Sonja Damnjanovic & Ira Fischler
University of Florida

104. Looking at Small Emotional Pictures: Arousal and Attention
Andrea De Cesarei, Martina Luchetti, & Maurizio Codispoti
University of Bologna

105. The Effects of Audio-Visual Stimulation on Heart Rate Variability
Ralph W. Emerson, Thomas J. Pardikes, Bruce H. Friedman, & Chad L. Stephens
Virginia Polytechnic Institute and State University

106. The Effects of Smoking on Heart Rate Response to Emotionally Valenced Slides in Adolescent Smokers
Daniel P. Evatt, Jon D. Kassel, Justin E. Greenstein, Megin C. Wardle, Jenn C. Veilleux, Linda L. Roesch, & Robin Mermelstein
University of Illinois, Chicago

107. Changes in Respiratory Sinus Arrhythmia in Response to Low and High Workload Conditions on a Military Forward Observer PC Simulator (FOPCSIM) Task
Stephanie R. Fishel, Lyndsey Banks, Lauren N. Brewer, Jarryd Player, Adam W. Hoover, & Eric R. Muth
Clemson University

108. Relative Left Frontal EEG Activation Predicts Attentional Narrowing Following Appetitive Stimuli
Philip A. Gable & Eddie Harmon-Jones
Texas A&M University
109. Age-Associated Hemispheric Asymmetry Reduction on the Auditory M100 to Nonverbal Stimuli
Yuan Gao, Megan Boyd, Leonard Poon, & Brett Clementz
University of Georgia

110. Modulation of the ERN in Lose/Lose Trials in Individuals with Obsessive-Compulsive and Depressive Symptomology
Theo O. J. Gründler¹, James Cavanagh², Michael J. Frank³, & John J. B. Allen³
¹University of Trier, ²University of Arizona

111. A Call for Pseudo-Randomization: The Influence of Preceding Picture Affect Type in Affective Modulation of Startle
Valerie L. Hobson, Jared P. Dempsey, Lee M. Cohen, Megan Jaeger, & Paige Miller
Texas Tech University

112. Social Anxiety Attenuates PPI and Alters Laterality of Response
Andrea M. Hopkins, Patricia M. White, Shannon L. Hopkins, & Bill T. Troyer
University of Oregon

113. Feedback-Related Negativity Reflects the Evaluation Based on One’s Own Criteria
Shun Itagaki¹ & Jun’ichi Katayama²
¹The University of Tokyo, ²Hokkaido University

114. Deficient Habituation During Negative Mood States: A Potential Risk Factor for Borderline Personality and Alcohol Use Disorders
Lisa M. James, Leonardo Bobadilla, Mark D. Reeves, & Jeanette Taylor
Florida State University

115. Emotional Startle Modulation During Script Driven Imagery in Patients with Borderline Personality Disorder
Anke Limberg, Sven Barnow, Harald J. Freyberger, & Alfons O. Hamm
University of Greifswald
116. Age-Related Changes in P3 Response and Executive Functioning
David A. S. Kaufman, William M. Perlstein, Michelle J. Blanco, Michael J. Larson, & Dawn Bowers
University of Florida

117. Effect of Sodium Valproate (Depakin) on EEG Patterns in Epileptic Children
Irma O. Khachidze, Viktor I. Maloletnev, & Manana L. Gugushvili
Georgian I. Beritashvili Institute of Physiology

118. Decreased Lateralization of the P2 Event-Related Brain Potential (ERP) Component in Response to Visual Word Stimuli in Schizophrenia
Michael Kiang, Marta Kutas, Gregory A. Light, & David L. Braff
University of California, San Diego

119. Context-Dependent Differences in the Pre-Attentive Processing of Familiar and Unfamiliar Sounds
Ursula Kirmse, Erich Schröger, & Thomas Jacobsen
University of Leipzig

120. Evidence that Aversive Conditioning Occurs While Assessing Prepulse Inhibition of Acoustic Startle
Frauke Nees¹, Melanie Hahn¹, Terry D. Blumenthal², & Hartmut Schächinger¹
¹University of Trier, ²Wake Forest University

121. Hypocortisolism Facilitates Trace, But Not Delay Classical Conditioning
Frauke Nees, Steffen Richter, & Hartmut Schächinger
University of Trier
122. Performance Monitoring, the P300, and Externalizing: What Relationships Among ERP Measures Tell Us about the Neural Substrates of Impulse Control Problems
   Lindsay D. Nelson, Edward E. Bernat, & Christopher J. Patrick
   University of Minnesota

123. Long-Term Retention of Extinction Memory for Explicitly Learned Fear Relevant Stimuli
   Julia Ofer, Alexander Kroll, & Christiane Hermann
   Central Institute for Mental Health

   Nathan A. Parks, Matthew R. Hilimire, & Paul M. Corballis
   Georgia Institute of Technology

125. Presaccadic Interhemispheric Spatial Updating in Humans
   Nathan A. Parks & Paul M. Corballis
   Georgia Institute of Technology

126. Emotional Responses Vary with Awareness: Psychophysiological Responses to Masked Spiders
   Nathalie Peira¹, Armita Golkar¹, Arne Öhman², & Stefan Wiens¹
   ¹Stockholm University, ²Karolinska Institutet

127. Emotion is Good: Psychological Well-Being Predicts Heightened Cardiovascular Response to Another’s Distress
   Elaine F. Perea¹, Michelle N. Shiota¹, & Robert W. Levenson²
   ¹Arizona State University, ²University of California, San Francisco
128. Altered Resting-State Brain Connectivity in Tinnitus Patients Revealed by Phase-Synchrony Analysis

Winfried Schlee¹, Nathan Weisz², Thomas Hartmann¹, Katalin Dohrmann¹, & Thomas Elbert¹

¹University of Konstanz, ²INSERM U821 Lyon

129. Selective Emotion Processing as a Function of Perceptibility: An ERP Analysis

Ralf Schmälzle, Jessica Stockburger, Florian Bublatzky, Tobias Flaisch, & Harald T. Schupp

University of Konstanz

130. Cardiovascular Fitness and Executive Control: An ERP Study

Jenna L. Scisco¹, & P. Andrew Leynes²

¹Clemson University, ²The College of New Jersey

131. Cardiovascular Reactivity and Affective Startle Modulation During Emotional Picture Viewing

Simona Scozzari, Michela Sarlo, Marta Ghisi, Luciano Stegagno, & Daniela Palomba

University of Padova

132. Susceptibility of the Pattern MMM to the Attentional Demands of Continuous Multiple Object Tracking

Lauren D. Sculthorpe, Kenneth B. Campbell, & Charles A. Collin

University of Ottawa

133. Predicting Emotional Experience from Autonomic Physiology Using Machine Learning Methods

Ekaterina Spriggs¹, Emily A. Butler¹, Kobus BarnardKobus, Frank H. Wilhelm², & James J. Gross³

¹University of Arizona, ²University of Basel, ³Stanford University
134. The Role of Somatomotor Representations in the Recognition of Affective Prosody: An ERP Study
Valery Sramko & Mario Liotti
Simon Fraser University

135. The Impact of Unconscious Facial Expressions on Consumption Behavior Involves Changes in Positive Affect: Evidence from EMG and Appetitive Reflex-Modulation
Mark J. Starr, Johnny Lin, & Piotr Winkielman
University of California, San Diego

136. Brain Correlates of Selective Stopping: Playing Safe?
Marijke van de Laar¹, Wery van den Wildenberg¹, Geert van Boxtel², & Maurits van der Molen¹
¹University of Amsterdam, ²University of Tilburg

137. Emotion Regulation Strategies: Differential Cognitive and Physiological Effects
Rachael N. Volokhov & Heath A. Demaree
Case Western Reserve University
Poster Session III
Saturday, October 20, 2007
7:00 P.M.—9:00 P.M.
Harborside Center

Poster Presenter Schedule

8:00 A.M.—9:30 A.M. Posters Assembled
9:30 A.M.—7:00 P.M. Posters Available for Viewing
7:00 P.M.—9:00 P.M. Authors Present for Discussion and Questions
9:00 P.M.—10:00 P.M. Dismantle Posters

1. The Effects of Pramipexole, a D2/D3 Agonist, on Reward Processing: An ERP Source Localization Study
   Diane L. Santesso¹, Erika Cowman¹, Petra Pajtas¹, A. Eden Evans², & Diego A. Pizzagalli¹
   ¹Harvard University, ²Massachusetts General Hospital

2. Visual Fixations Reveal Hemispheric Asymmetries in Meaning Selection and Revision
   Aaron M. Meyer & Kara D. Federmeier
   University of Illinois, Urbana–Champaign

3. Neuromagnetic Indicators of Selective Distractor Suppression While Anticipating an Auditory Target
   Nathan Weisz & Olivier Bertrand
   INSERM U821

4. How Picture Repetition Affects Attention and Emotion
   Vera Ferrari¹, Margaret M. Bradley¹, Maurizio Codispoti², & Peter J. Lang¹
   ¹University of Florida, ²University of Bologna
5. Emotional Stimuli in the Visual Periphery Successfully Compete for Resources with a Foveal High-Load Primary Task
   Andreas Keil, Dean Sabatinelli, Margaret M. Bradley, & Peter J. Lang
   University of Florida

6. Recognition Memory for Emotional and Non-Emotional Pictures
   Francesco Versace, Margaret M. Bradley, & Peter J. Lang
   University of Florida

7. Negative Affect and the Reflex Physiology of Emotion
   J. Carson Smith¹, Margaret M. Bradley², & Peter J. Lang²
   ¹University of Wisconsin–Milwaukee, ²University of Florida

8. Neuronal Correlates of Explicit Versus Implicit Processing of CS-US Contingency During Fear Conditioning
   Christiane Hermann, Alexander Kroll, & Julia Ofer
   Central Institute for Mental Health

9. Adapting the P300-Brain Computer Interface (BCI) for the Control of a Wheelchair-Mounted Robotic Arm System
   Yael Arbel, Redwan Alqasemi, Rajiv Dubey, & Emanuel Donchin
   University of South Florida

10. Cardiac Reactivity in Active Coping: Influence of Task Difficulty and Incentive Value
    Michael Richter & Guido H. E. Gendolla
    University of Geneva
11. Physionomics of Tax Evasion: Cheating Rationally or Deciding Emotionally
Giorgio Coricelli¹, Mateus Joffily¹, Claude Montmarquette², & Marie-Claire Villeval³
¹Institute of Cognitive Sciences, CNRS,
²University of Montreal, ³GATE, CNRS

12. Voluntary Movements Mechanism Formation in Right- and Lefthanded Children in Ontogenesis
Mariam Bezroukikh
Institute of Development Physiology, RAO

13. Mental Counting and Operating: An ERP Study about Task Switching
James Kroger, Doerte K. Spring, Holly Archer, & Breannan Stone
New Mexico State University

14. Resting Frontal Brain Asymmetry and Behavioral Activation and Inhibition
Daren C. Jackson¹, Cory A. B. Jackson¹, Aminda O’Hare², Nicholas G. Schwab¹, & Danielle J. Maack¹
¹University of Wyoming, ²University of Kansas

15. Coherence Between Physiological and Experiential Response Systems is Positively Associated with Emotional Recovery from Negative Pictures
Regina C. Lapate, Carien M. vanReekum, Catherine J. Norris, Larry L. Greischar, Jennifer M. Oh, & Richard J. Davidson
University of Wisconsin–Madison

16. Binary Evaluation of Reward Versus Non-Reward: Reflected by Feedback Negativity and P300
Yue-Jia Luo¹, Yu-Xia Huang¹, & Kin-Hung Ting²
¹Beijing Normal University, ²The Hong Kong Polytechnic University
17. **Action Monitoring of Perceived Errors in a Target Force Production Task**  
Hiroaki Masaki\(^1\), Keiko Ogawa\(^2\), Werner Sommer\(^3\), Noriyoshi Takasawa\(^4\), & Katuo Yamazaki\(^1\)  
\(^1\)Waseda University, \(^2\)Japan Society for the Promotion of Science, \(^3\)Humboldt University of Berlin, \(^4\)Edogawa University

18. **The Effect of Punishment on Action Monitoring**  
Keiko Ogawa\(^1\), Hiroaki Masaki\(^2\), Noriyoshi Takasawa\(^3\), Katuo Yamazaki\(^2\), & Werner Sommer\(^4\)  
\(^1\)Japan Society for the Promotion of Science, \(^2\)Waseda University, \(^3\)Edogawa University, \(^4\)Humboldt University of Berlin

19. **Lack of N170 Modulation by Facial Emotion in Schizophrenia: A Preliminary Analysis**  
Spencer K. Lynn, Robert W. McCarley, & Dean F. Salisbury  
*Harvard Medical School*

20. **Sensory Processing, Physiological Reactivity and Adaptive Behavior in Children with Autism and Sensory Modulation Dysfunction**  
Roseann C. Schaaf & Teal Benevides  
*Thomas Jefferson University*

21. **Spreading Activation or Semantic Integration: Proverbs Test the Nature of the N400**  
Boris Kotchoubey & Miriam Jander  
*University of Tübingen*

22. **Activation, Connectivity, and Morphology of the Amygdala Predict Individual Differences in Blood Pressure Reactivity to Psychological Stress**  
Peter J. Gianaros, Lei K. Sheu, Karen A. Matthews, & Ahmad R. Hariri  
*University of Pittsburgh*
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PROGRAM SCHEDULE AT-A-GLANCE

Tuesday, October 16, 2007
8:30 A.M.–5:00 P.M., Verelst Room, Pre-Conference Workshop (available for an additional fee), The ERP Mini Boot Camp

Wednesday, October 17, 2007
8:30 A.M.–5:00 P.M., Regency Ballroom A, Pre-Conference Workshop, The ERP Mini Boot Camp (continued)
12:00 noon–5:30 P.M., Westbrook, SPR Board of Directors Meeting
5:30 P.M.–8:00 P.M., Regency Ballroom Foyer, Registration Opens
5:30 P.M.–8:00 P.M., Scarborough Ballroom, Opening Reception. Cash bar and hors d’oeuvres. All attendees are welcome!

Thursday, October 18, 2007
7:30 A.M.–4:00 P.M., Regency Ballroom Foyer, Registration
8:00 A.M.–3:00 P.M., Mezzanine Level, Exhibits Open
8:00 A.M.–9:00 P.M., Regency Ballroom Foyer, Internet Station
8:30 A.M.–10:00 A.M., Regency Ballroom A, Symposium 1, The Role of the Amygdala in Social/Emotional Cognition Across Development
8:30 A.M.–10:00 A.M., Scarborough Ballroom 1, Symposium 2, Cortical Dynamics for Visual Knowledge about Objects: Where Vision Meets Memory
10:00 A.M.–10:30 A.M., Mezzanine Level, Refreshment Break
10:30 A.M.–11:30 A.M., Regency Ballroom D, Invited Address, Neural Systems Involved in Fear Extinction: Relevance to Psychotherapy, Michael Davis
11:30 A.M.–1:00 P.M., Break for Lunch (on your own)
11:30 A.M.–1:00 P.M., Verelst Room, Education and Training Committee Roundtable Discussions
1:00 P.M.–2:30 P.M., Regency Ballroom D, Presidential Symposium, Twenty-Seven Years of the Psychophysiology of Language Processing
2:30 P.M.–3:00 P.M., Mezzanine Level, Refreshment Break
3:00 P.M.–4:30 P.M., Regency Ballroom A, Symposium 4, Spotting Danger: Stimulus Properties and Individual Differences Underlying Threat Detection
3:00 P.M.–4:30 P.M., Scarborough Ballroom 1, Symposium 5, Issues in Frontal EEG Asymmetry as a Marker of Risk for Psychopathology
4:30 P.M.–4:45 P.M., Break
4:45 P.M.–6:15 P.M., Regency Ballroom A, Symposium 6, Stress Sensitization and Fear Learning in Posttraumatic Stress Disorder
4:45 P.M.–6:15 P.M., Scarborough Ballroom 1, Symposium 7, The Psychophysiology of Adult Attachment
6:15 P.M.–8:15 P.M., Harborside Center, Poster Session I
8:15 P.M.–10:15 P.M., Scarborough Ballroom 2, Early Careers Conversation Hour (pre-registration requested)

Friday, October 19, 2007
8:00 A.M.–4:00 P.M., Regency Ballroom Foyer, Registration
8:00 A.M.–3:00 P.M., Mezzanine Level, Exhibits Open
8:00 A.M.–9:00 P.M., Regency Ballroom Foyer, Internet Station
8:30 A.M.–10:00 A.M., Regency Ballroom A, Symposium 8, Neurophysiological Correlates of Emotion Regulation in Adults and Children
8:30 A.M.–10:00 A.M., Scarborough Ballroom 1, Symposium 9, Emerging Perspectives in Cardiovascular Psychophysiology: RSA, Vagal Tone and Beyond
8:30 A.M.–10:00 A.M., Scarborough Ballroom 3, Symposium 10, Personality, Affect, and Cardiovascular Response: Evidence for Motivational Gains and Deficits
10:00 A.M.–10:30 A.M., Mezzanine Level, Refreshment Break
10:30 A.M.–11:30 A.M., Regency Ballroom D, Invited Address, Functional Specificity in the Cortex: Selectivity, Experience, & Generality, Nancy Kanwisher
11:30 A.M.–1:00 P.M., Break for Lunch (on your own)
11:30 A.M.–1:00 P.M., Verelst, Women in Science Lunch Box Discussion (pre-registration requested)
1:00 P.M.–2:30 P.M., Regency Ballroom A, Symposium 11, An Integrative Approach to Understanding How Cultural Stereotypes Affect Performance, Learning, and Retention
1:00 P.M.–2:30 P.M., Scarborough Ballroom 1, Symposium 12, When Structure Meets Function: New Frontiers in Neuroimaging
2:30 P.M.–3:00 P.M., Mezzanine Level, Refreshment Break
3:00 P.M.–4:30 P.M., Regency Ballroom A, Symposium 13, The Defense Cascade: The Dynamics of Fear Reaction
3:00 P.M.–4:30 P.M., Scarborough Ballroom 1, Symposium 14, How Early is Semantics? Electrophysiological Correlates of Semantic Processing Peaking Earlier than the N400
4:30 P.M.–4:45 P.M., Break
4:45 P.M.–5:45 P.M., Regency Ballroom D, Invited Address, Neural Correlates of Recollection and Familiarity in Young and Older Adults, Roberta Cabeza
5:45 P.M.–6:00 P.M., Break
6:00 P.M.–8:00 P.M., Harborside Center, Poster Session II
10:00 P.M., Student Social (location to be announced). All students are invited!

Saturday, October 20, 2007
8:00 A.M.–10:30 A.M., Mezzanine Level, Exhibits Open
8:00 A.M.–9:00 P.M., Regency Ballroom Foyer, Internet Station
8:30 A.M.–3:00 P.M., Regency Ballroom Foyer, Registration
8:30 A.M.–10:00 A.M., Scarborough Ballroom 1, Symposium 16, Attention and Memory in Audition: Measurements of Brain Activity and Behavior
10:00 A.M.–10:30 A.M., Mezzanine Level, Refreshment Break
10:30 A.M.–11:00 A.M., Regency Ballroom D, Award for Distinguished Early Career Contribution to Psychophysiology, Investigating Mechanisms of Social Cognition with Event-Related Brain Potentials, Bruce D. Bartholow, PhD
11:00 A.M.–12:00 noon, Regency Ballroom D, Presidential Address, The Way of Our Errors: Theme and Variations, Robert F. Simons
12:15 P.M.–2:15 P.M., Scarborough Ballroom, Business Meeting and Luncheon
2:15 P.M., Free Afternoon to Explore Savannah!
7:00 P.M.–9:00 P.M., Harborside Center, Poster Session III
9:00 P.M.–12:00 midnight, Regency Ballroom D, Saturday Night Social. All attendees are welcome!

Sunday, October 21, 2007
8:00 A.M.–10:00 A.M., Regency Ballroom A, Farewell Breakfast. All attendees are welcome!
8:30 A.M.–12:00 noon, Westbrook, SPR Board of Directors Meeting