

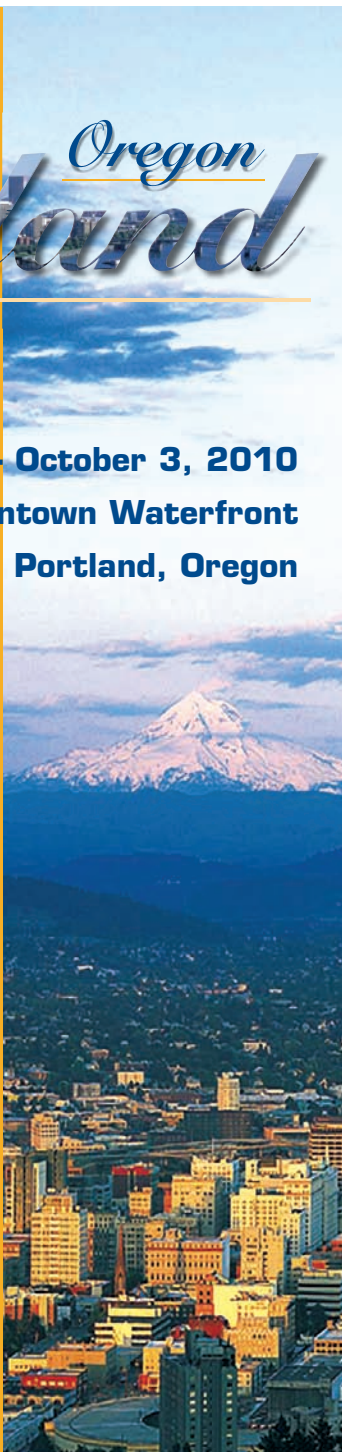
**Society for  
Psychophysiological Research**  
**50th Annual Meeting**



*Oregon*  
*Portland*

**September 29 – October 3, 2010**  
**Portland Marriott Downtown Waterfront**  
**Portland, Oregon**

**2010**  
**Final Program**



**SOCIETY FOR  
PSYCHOPHYSIOLOGICAL  
RESEARCH**  
*Fiftieth Annual Meeting*

Portland Marriott Downtown Waterfront  
Portland, Oregon  
September 29–October 3, 2010

***Table of Contents***

Author Index. . . . .	123
Announcements . . . . .	13
Board of Directors. . . . .	4
Committees. . . . .	5
Early Careers Conversation Hour . . . . .	16
Education and Training Committee	
Roundtable Discussions . . . . .	15
Exhibitors . . . . .	17
Future Annual Meetings. . . . .	17
Historical Roster . . . . .	7
Internet Station . . . . .	16
Meeting Rooms. . . . .	18
Poster Sessions . . . . .	49
Pre-Conference Workshops . . . . .	20
Program . . . . .	20
Program Committee. . . . .	3
Publication of Abstracts. . . . .	13
Registration . . . . .	11
Speaker Ready Room . . . . .	17
Special Interest Luncheons and Dinners . . . . .	14
SPR Fund Contributors . . . . .	10
Women in Science and Education	
Lunch Box Discussion . . . . .	16



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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.

### ***50th Anniversary***

The meeting in Portland will mark the Society's 50th Anniversary, so we plan to celebrate this turning of age properly. The meeting will begin with a 50th Anniversary Dinner Reception at the Oregon Museum of Science and Industry (OMSI) on Wednesday, September 29, from 6:00 P.M.–9:00 P.M. The reception will include delicious food and a brief program with fun presentations and remembrances. Please plan to arrive in time for this event.

### ***Program Committee***

- Chair: \*Edelyn Verona, University of Illinois at  
Urbana-Champaign
- David A. Sbarra (2009 Chair), University of Arizona  
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Erin Hazlett, Mount Sinai School of Medicine  
\*Rebecca Houston, University at Buffalo–SUNY  
Arvid Kappas, Jacobs University–Bremen  
Victoria Kazmerski, Pennsylvania State University  
Iris-Tatjana Kolassa, University of Konstanz  
Christine Larson, University of Wisconsin–Milwaukee  
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Nathan Parks, University of Illinois at Urbana-Champaign

Trevor Penney, National University of Singapore  
 Dean Sabatinelli, University of Georgia  
 Sarah Sass (Student Member), University of Illinois at  
 Urbana-Champaign  
 Annett Schirmer, National University of Singapore  
 Greg Siegle, University of Pittsburgh  
 Scott Sponheim, VA Medical Center, Minneapolis  
 Julian Thayer, The Ohio State University  
 Heather Urry, Tufts University

**\*Members of the 50th Anniversary  
 Planning Subcommittee**

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Wendy Heller

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University at Buffalo–SUNY (2008–2011)

**Editor, *Psychophysiology***

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University of Saarland (2009–2012)

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University of Arizona (2009–2010)

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Eliane Volchan  
Federal University of Rio De Janeiro

**Ad Hoc International Outreach Committee****(Eastern Europe and Asia)**

Yasunori Kotani  
Tokyo Institute of Technology

**Ad Hoc Women in Psychophysiology:  
Liaison Between WISE, Membership,  
Student and Early Career**

Rebecca Houston  
University at Buffalo–SUNY

**Ad Hoc Committee to Revamp the  
Student Poster Competition**

Monica Fabiani  
University of Illinois at Urbana-Champaign

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*Past Presidents*

Chester W. Darrow 1960–61  
 John I. Lacey 1961–62  
 Albert F. Ax 1962–63  
 Marion A. Wenger 1963–64  
 Clinton C. Brown 1964–65  
 Robert Edelberg 1965–66  
 John A. Stern 1966–67  
 William W. Grings 1967–68  
 Laverne C. Johnson 1968–69  
 David T. Graham 1969–70  
 Bernard T. Engel 1970–71  
 Robert Roessler 1971–72  
 Bernard Tursky 1972–73  
 Frances K. Graham 1973–74  
 Paul A. Obrist 1974–75  
 David Shapiro 1975–76  
 Peter H. Venables 1976–77  
 Peter J. Lang 1977–78  
 Beatrice C. Lacey 1978–79  
 Emanuel Donchin 1979–80  
 David T. Lykken 1980–81  
 Enoch Callaway 1981–82  
 William F. Prokasy 1982–83  
 Edward S. Katkin 1983–84  
 Arne Ohman 1984–85  
 Jasper Brener 1985–86  
 Don C. Fowles 1986–87  
 Michael G. H. Coles 1987–88  
 Michael E. Dawson 1988–89  
 David A. T. Siddle 1989–90  
 J. Richard Jennings 1990–91  
 Cornelis H. M. Brunia 1991–92  
 John T. Cacioppo 1992–93  
 Stephen W. Porges 1993–94  
 Gregory A. Miller 1994–95  
 Marta Kutas 1995–96  
 William G. Iacono 1996–97  
 Judith M. Ford 1997–98  
 Risto Naatanen 1998–99  
 Richard J. Davidson 1999–2000

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Robert W. Levenson	2000–01
Margaret M. Bradley	2001–02
Connie C. Duncan	2002–03
Bruce N. Cuthbert	2003–04
Niels Birbaumer	2004–05
Steven A. Hackley	2005–06
Robert F. Simons	2006–07
Monica Fabiani	2007–08
John J.B. Allen	2008–09

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Martin Orne	1962–63
Lawrence A. Gustafson	1963–64
Betty A. Wieland	1965–68
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Gregory A. Miller	1990–93
Steven Hackley	1993–96
Connie C. Duncan	1996–99
Edwin W. Cook, III	1999–02
Robert F. Simons	2002–05
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William F. Prokasy	1974–77
David Shapiro	1978–86
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John T. Cacioppo	1994–98
Gregory A. Miller	1999–02
Margaret M. Bradley	2003–05
Robert F. Simons	2006–11

***AWARDS FOR DISTINGUISHED  
CONTRIBUTIONS TO  
PSYCHOPHYSIOLOGY***

Chester W. Darrow	1969
R. C. Davis	1969
Marion A. Wenger	1970

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John I. Lacey	1970
Albert F. Ax	1973
Robert Edelberg	1974
William W. Grings	1978
Frances K. Graham	1981
Donald B. Lindsley	1984
Paul A. Obrist	1985
Peter H. Venables	1987
David Shapiro	1988
E. N. Sokolow	1988
Peter J. Lang	1990
John Stern	1993
Emanuel Donchin	1994
Risto Naatanen	1995
David T. Lykken	1998
Steven A. Hillyard	1999
John T. Cacioppo	2000
Arne Ohman	2001
Michael G. H. Coles	2002
Robert M. Stern	2004
Kees Brunia	2005
Marta Kutas	2007
William Iacono	2008
Niels Birbaumer	2009

***AWARDS FOR DISTINGUISHED EARLY  
CAREER CONTRIBUTIONS TO  
PSYCHOPHYSIOLOGY***

Connie C. Duncan	1980
Kathleen C. Light	1980
John T. Cacioppo	1981
William G. Iacono	1982
Graham Turpin	1984
Ray Johnson, Jr.	1985
Alan J. Fridlund	1986
J. Rick Turner	1988
Ulf Dimberg	1988
Kimmo Alho	1990
Thomas W. Kamarck	1991
Steven Hackley	1992
George R. Mangun	1993
Christopher J. Patrick	1993
Cyma Van Petten	1994
Friedemann Pulvermuller	1995
Erich Schroger	1996
Brett A. Clementz	1997
Gabriele Gratton	1997

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Christopher R. France	1998
Axel Mecklinger	1999
John J.B. Allen	2000
James J. Gross	2000
Martin Heil	2001
Eddie Harmon-Jones	2002
Thomas Ritz	2003
Frank Wilhelm	2004
Kent A. Kiehl	2005
Kara Federmeier	2006
Diego Pizzagalli	2006
Bruce D. Bartholow	2007
Markus Ullsperger	2008
Sander Nieuwenhuis	2009
James Coan	2010

### ***2010–2011 FUND CONTRIBUTORS***

John J.B. Allen	Ulrich W. Ebner-
Bruce D. Bartholow	Priemer
Herbert Bauer	Martin Eimer
Gershon Ben-Shakhar	Alison Eonta
W. Keith Berg	Francisco Esteves
Gary G. Berntson	Monica Fabiani
Stefan Berti	Florian Ph. S.
Koen B. E. Bocker	Fischmeister
Volodymyr B. Bogdanov	Zsofia Anna Gaal
Corinna E. C. Bonhage	Giovanni Galfano
Marta Bortoletto	Andres Antonio
Margaret M. Bradley	Gonzalez-Garrido
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Connie C. Duncan	LaBarron K. Hill
Roscoe A. Dykman	Shinji Hira
Jane Dywan	Rebecca J. Houston
	Chiao-Ling Hung
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Jasmin Kizilirmak	Harald Schupp
Yasunori Kotani	Sidney J. Segalowitz
Michal J. Kuniecki	David Shapiro
Peter J. Lang	Sergei L. Shishkin
Christine F. Larson	Robert F. Simons
Robert W. Levenson	Werner Sommer
Mario Liotti	Marco Steinhauser
Ottmar V. Lipp	Charlotte R. Tye
Christopher T. Lovelace	Markus Ullsperger
Regina I. Machinskaya	Heather L. Urry
Steve M. Malone	Anton van Boxtel
Frances Martin	Geert J. M. van Boxtel
Hiroaki Masaki	Maurits W. Van der Molen
José Luís L. Mata	Carien Van Reekum
Terry McMorris	Ralf G. Veit
Axel Mecklinger	Francesco Versace
Mark Molnar	Jaime Vila
Pedro Montoya	Jan Wacker
Stephan Moratti	Sara J. Webb
James W. Morrison	Peter Weyers
Jason S. Moser	Stefan Wiens
Erik M. Mueller	Matthias J. Wieser
Andreas Muhlberger	Frank H. H. Wilhelm
Tim Murphy	Akihiro Yagi
Sander Nieuwenhuis	Laura Zambrano- Vazquez
Andrei R. Nikolaev	
Hideki Ohira	
Atsushi Ohsaga	

## ***GENERAL INFORMATION***

### ***Registration***

Registration will be held in the Oregon Ballroom Foyer on lower level one of the Portland Marriott Downtown Waterfront during the following hours:

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Wednesday, September 29	3:00 P.M.–7:00 P.M.
Thursday, September 30	7:30 A.M.–6:30 P.M.
Friday, October 1	8:00 A.M.–5:00 P.M.
Saturday, October 2	8:30 A.M.–2:30 P.M.

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

### *Poster Sessions*

Poster sessions will be held in the Exhibit Hall at the Portland Marriott Downtown Waterfront. The Exhibit Hall is located on lower level two.

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

#### **Thursday, September 30, 2010**

##### **Poster Session I**

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

#### **Friday, October 1, 2010**

##### **Poster Session II**

8:00 A.M.–10:00 A.M.	Posters Assembled
10:00 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 2, 2010**

##### **Poster Session III**

8:00 A.M.–10:00 A.M.	Posters Assembled
10:00 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
- Announcements of Social Activities
- Special Interest Lunches or Dinners
- Messages to Attendees

### ***Publication of Abstracts***

Abstracts of papers presented in the symposia and the poster sessions are published in the September 2010 supplement volume of *Psychophysiology*. Copies of the supplement are available at the registration desk.

## ***COMMITTEE MEETINGS***

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

### ***Board of Directors***

**Chair: Gabriele Gratton** (grattong@illinois.edu)  
 Wednesday, 12:00 noon–5:00 P.M.  
 Sunday, 8:30 A.M.–12:00 noon

### ***Public Relations Committee***

**Chair: Greg Hajcak** (hajcak@gmail.com)  
 Wednesday, 5:00 P.M.–6:00 P.M.

### ***2010 Program Committee***

**Chair: Edelyn Verona** (everona@illinois.edu)  
 Thursday, 11:30 A.M.–1:00 P.M. (Lunch)

### ***Archives Committee***

**Chair: Lou Tassinary** (ltassinary@mac.com)  
 Thursday, 12:00 noon–1:30 P.M. (Lunch)

### ***The Psychophysiology Board of Associate Editors***

**Chair: Robert F. Simons** (rsimons@psych.udel.edu)  
 Thursday, 5:00 P.M.–6:00 P.M.

### ***Past Presidents' Dinner***

Thursday, 8:30 P.M. (Dinner)  
 Please meet in the hotel lobby at 8:15 P.M.

***2011 Program Committee*****Chair: Louise Hawkley** (hawkley@uchicago.edu)

Friday, 11:30 A.M.–1:00 P.M. (Lunch)

***Committee to Promote Student Interests*****Chair: Rebecca Houston** (rhouston@ria.buffalo.edu)

Friday, 8:15 P.M.–9:45 P.M.

***General Business Meeting and Luncheon***

Saturday, 12:15 P.M.–2:15 P.M.

***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.

***Special Interest Lunch******Faculty from Primarily Undergraduate Institutions***

Friday, October 1, 2010

11:30 A.M.–1:00 P.M.

Contact: Rebecca Compton at rcompton@haverford.edu

***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!

***FORUM TO FACILITATE  
INTERNATIONAL LAB EXCHANGE AND  
COLLABORATION***

Thursday, September 30 through Saturday, October 2

Exhibit Hall

This special interest event, sponsored by the International Subcommittee of the SPR Committee to Promote Student Interests, provides a unique opportunity to promote international exchange and collaboration. Posters will

provide information from various groups, labs, and/or facilities regarding research focus, potential research and job opportunities, special advantages of a facility or country and organizational preconditions (e.g., visa regulations, typical issues and cost of living). Presenters for each poster will be available on Thursday and Friday from 10:00 A.M. to 10:30 A.M. to facilitate communication and discussion. Posters will remain available for viewing through Saturday, October 2 at 9:00 P.M. For more information please contact Stefan Schulz at [schulz@psychologie.uni-wuerzburg.de](mailto:schulz@psychologie.uni-wuerzburg.de).

***EDUCATION AND TRAINING  
COMMITTEE  
ROUNDTABLE DISCUSSIONS***

11:30 A.M.–1:00 P.M.

Thursday, September 30, 2010

Mount Hood Room

This year, there will again be the opportunity to participate in the Roundtable Discussions. Each topic will be led by one or more leaders in their respective fields. To register, please contact Drew Nelesen at [meetings@sprweb.org](mailto:meetings@sprweb.org). For questions on a particular roundtable, please contact Heather Urry at [heather.urry@tufts.edu](mailto:heather.urry@tufts.edu). Attendance is limited to eight people at each roundtable.

Confirm your attendance prior to Wednesday, September 22!

***Errors and Negative Feedback***

Greg Hajcak and Clay Holroyd

***Eyeblink Startle Reflex***

Larry Hawk and Christine Larson

***Combining FMRI and Autonomic Psychophysiology***

Greg Siegle and Carien van Reekum

***Heart Rate Variability***

Dick Jennings and Julian Thayer

***Setting up a Psychophysiology Laboratory***

John J.B. Allen and John Curtin

***Principal Components Analysis of ERP Data***

Joe Dien and Jürgen Kayser

***Time-Frequency Analysis***

Ed Bernat and Phan Luu

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***EARLY CAREERS  
CONVERSATION HOUR***

8:15 P.M.–10:15 P.M.

Salon I

Thursday, September 30, 2010

Don't miss this opportunity to discuss early career issues with some of SPR's leading scientists! As in past years, the first hour will be a panel discussion, followed by a breakout into small groups. If you have questions about this event or would like to RSVP, please contact Catherine Norris by e-mail at [cnorris@dartmouth.edu](mailto:cnorris@dartmouth.edu).

The deadline to register is Wednesday, September 22, 2010.

***WOMEN IN SCIENCE  
AND EDUCATION  
LUNCH BOX DISCUSSION***

11:30 A.M.–1:00 P.M.

Mount Hood Room

Friday, October 1, 2010

The Committee to Promote Student Interests will be hosting a luncheon focused on Women in Science and Education. Please join us for the Fifth Annual Women in Science Lunch Box Discussion on Friday, October 1, from 11:30 A.M. TO 1:00 P.M. Our topic this year is re-entry into the workforce. All SPR members, including men, are invited to attend. If you have any suggestions for this event, and/or if you are interested in participating in the W.I.S.E. committee and helping with the luncheon, please contact Stacie Warren at [swarren3@illinois.edu](mailto:swarren3@illinois.edu).

Please e-mail Stacie Warren to RSVP for the luncheon by Wednesday, September 22. If you would like to join the W.I.S.E. listserv, please e-mail John Hofmann ([jhofmann@reesgroupinc.com](mailto:jhofmann@reesgroupinc.com)) at the SPR office with the subject, "Subscribe to SPR-WISE." Once you have signed up, you can share your ideas regarding how SPR might best serve its female members and participate in engaging e-mail discussion covering a wide range of topics (e.g., career development, quality of life, mentoring, diversity, etc.).

***INTERNET STATION***

An Internet station will be available for all attendees at the following times in the Exhibit Hall Foyer:

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Wednesday, September 29	4:00 P.M.–7:00 P.M.
Thursday, September 30	8:00 A.M.–8:00 P.M.
Friday, October 1	8:00 A.M.–8:00 P.M.
Saturday, October 2	8:00 A.M.–9:00 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 Salem Room and open during the following hours:

Thursday, September 30	7:00 A.M.–5:00 P.M.
Friday, October 1	7:00 A.M.–5:00 P.M.
Saturday, October 2	7:00 A.M.–3:00 P.M.

### ***FUTURE ANNUAL MEETINGS***

#### ***51st SPR Annual Meeting***

September 14–18, 2011  
Westin Boston Waterfront  
Boston, Massachusetts

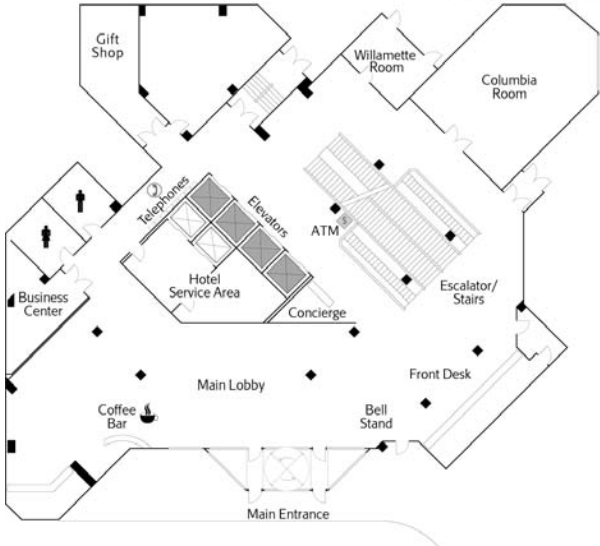
### ***EXHIBITORS***

Please take time while you are at the SPR meeting to visit the exhibit area located in the Exhibit Hall at the Portland Marriott Downtown Waterfront. Exhibitors contribute financial support to the SPR meeting and we ask that you take a few minutes to spend time in the exhibit area looking at the products, services and equipment offered by the companies represented. Thank you!

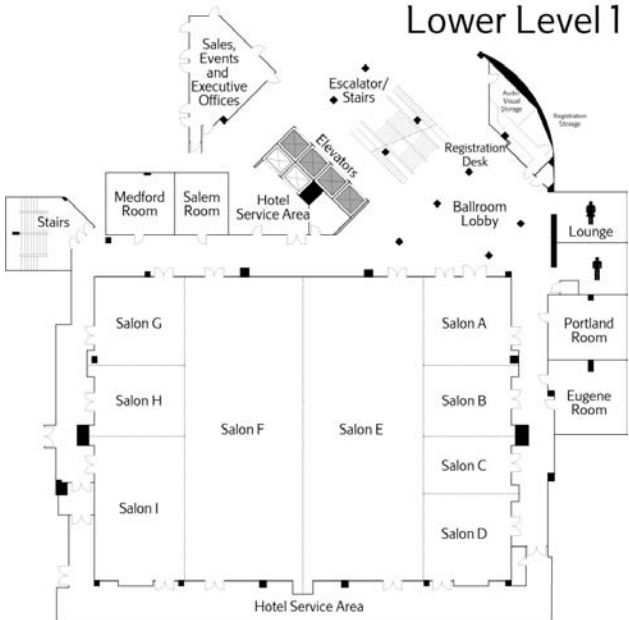
#### ***Open Exhibit Hours***

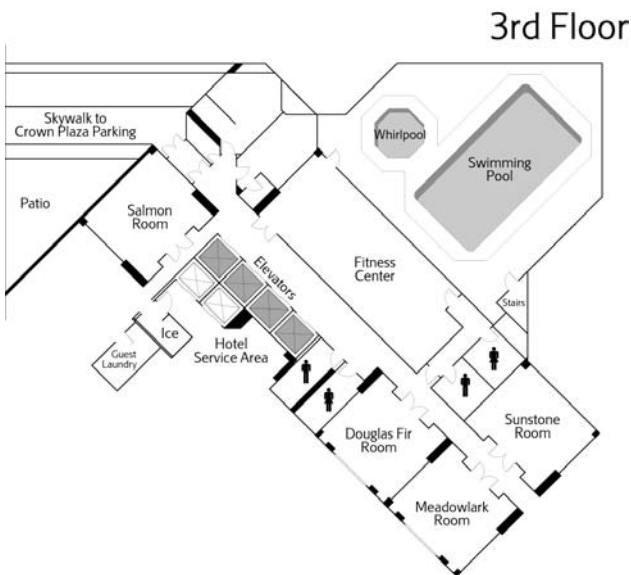
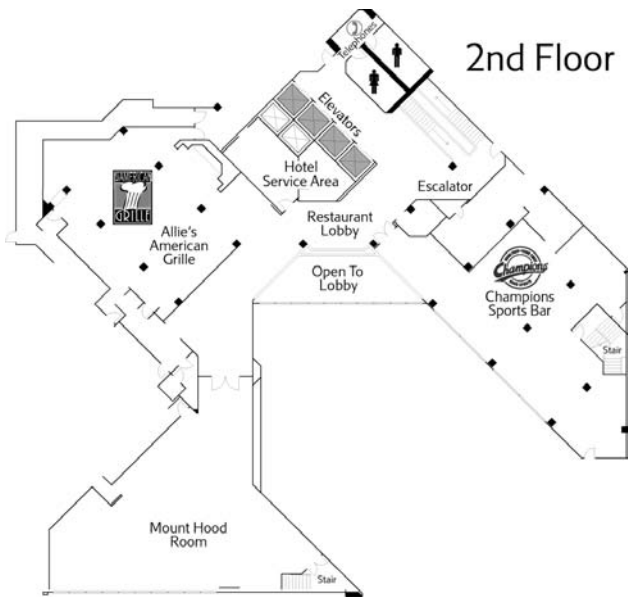
Thursday, September 30, 2010	10:00 A.M.–8:15 P.M.
Friday, October 1, 2010	10:00 A.M.–8:00 P.M.

## Main Lobby



## Lower Level 1





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**PROGRAM****Tuesday, September 28, 2010**

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8:30 A.M.—4:30 P.M.

*Salon GH****Pre-Conference Workshop #1***  
**(Available for an additional fee)****FUNDAMENTALS OF MATLAB (day one)**

Alejandro Lleras, PhD

*University of Illinois at Urbana-Champaign*

This tutorial is aimed at those with little to no previous knowledge of MATLAB or programming more generally. The goal is to introduce some foundational concepts about programming using MATLAB. To this effect, we will start with a brief description of how computers work and about the underlying philosophy behind a high-level language like MATLAB. We will study the various forms of variables (matrices, structures, cells) as well as discuss the use of scripts and functions in this language. We will also practice using logic and flow control statements and learn how to best utilize MATLAB strengths towards one's programming goals. Ideally, by the end of the workshop, participants will feel more at ease interacting with MATLAB code and know how to go about understanding and modifying code. All participants will be encouraged to bring their own laptops for the practice sessions.

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**Wednesday, September 29, 2010**

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8:30 A.M.—4:30 P.M.

*Salon GH****Pre-Conference Workshop #1*****FUNDAMENTALS OF MATLAB (day two)**

Alejandro Lleras, PhD

*University of Illinois at Urbana-Champaign*

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8:30 A.M.—4:30 P.M.*Salon AB****Pre-Conference Workshop #2***  
**(Available for an additional fee)****EEGLAB: BASIC AND ADVANCED TOOLS FOR ELECTROPHYSIOLOGICAL DATA ANALYSIS**Scott Makeig<sup>1</sup>, Arnaud Delorme<sup>1</sup>, Julie Onton<sup>2</sup>, Tim Mullen<sup>1</sup>, Christian Kothe<sup>1</sup><sup>1</sup>*University of California, San Diego*, <sup>2</sup>*Naval Health Research Center, San Diego*

The purpose of this one-day workshop will be to introduce EEGLAB to those considering its use in their research, to highlight new capabilities recently introduced into EEGLAB, and to accelerate the transition to more advanced uses of EEGLAB for current research users and developers. EEGLAB ([sccn.ucsd.edu/eeglab/](http://sccn.ucsd.edu/eeglab/)) is an open source Matlab environment (The Mathworks, Inc.) for the analysis of EEG, MEG and related electrophysiological signals released for non-commercial use as open source software in the public domain under the GNU Public License by the Swartz Center for Computational Neuroscience (SCCN) of the Institute for Neural Computation at the University of California, San Diego in La Jolla. EEGLAB has been used by Swartz Center researchers and by many other research groups to publish results in many leading journals. Over 3,500 researchers in dozens of countries subscribe to its email discussion list. As an open source project, its functionality can and may be easily extended to include many types of electromagnetic data analysis, and more than twenty specialized EEGLAB plug-in functions have been made available by other groups. The workshop will present overview talks and demonstrations by EEGLAB developers aimed to answer questions including:

- What is the overall structure of the EEGLAB software environment?
  - What kinds of electrophysiological data can I process using EEGLAB?
  - How does EEGLAB simplify custom MATLAB script-based data processing?
  - How can I use EEGLAB graphics to explore my data?
  - How can I find and remove artifacts and corrupt data?
  - How can I apply independent component analysis (ICA) to my data?
  - How can I apply time/frequency analysis to my data?
  - How can I make subject head models and estimate EEG source locations?
  - How can I compare data from multiple subjects?
  - How can I explore brain-computer interface (BCI) paradigms?
  - How can I contribute new functions and plug-ins to EEGLAB?
  - What related experiment control and database resources are available?
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12:00 noon–5:00 P.M.

*Columbia Room*

### ***SPR Board of Directors' Meeting***

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3:00 P.M.–7:00 P.M.

*Oregon Ballroom Foyer*

### ***Registration Opens***

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4:00 P.M.–7:00 P.M.

*Exhibit Hall Foyer*

### ***Internet Station***

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6:00 P.M.–9:00 P.M.

*Oregon Museum of Science and Industry*

***50th Anniversary Reception***  
(Registration at hotel required prior to departing for the event.)

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**Thursday, September 30, 2010**

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7:30 A.M.—6:30 P.M.  
*Oregon Ballroom Foyer*

***Registration***

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8:00 A.M.—8:00 P.M.  
*Exhibit Hall Foyer*

***Internet Station***

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8:15 A.M.—10:00 A.M.  
*Salon AB*

***Symposium 1.1***

**B.O.L.D. STATEMENTS ON HUMAN  
REWARD PROCESSING**

Chair: Vincent D. Costa  
*University of Florida*

**REWARD CIRCUIT ACTIVATION AND  
CONNECTIVITY DURING EMOTIONAL  
IMAGERY AND PERCEPTION**

Vincent D. Costa<sup>1</sup>, Margaret M. Bradley<sup>1</sup>, Dean  
Sabatinelli<sup>2</sup>, & Peter J. Lang<sup>1</sup>  
<sup>1</sup>*University of Florida*, <sup>2</sup>*University of Georgia*

**INDIVIDUAL DIFFERENCES IN DOPAMINE  
FUNCTIONING AND EXTERNALIZING  
PERSONALITY TRAITS**

David H. Zald  
*Vanderbilt University*

**FUNCTIONAL NEURODEVELOPMENT OF  
REWARD SYSTEMS**

Monique Ernst  
*National Institute of Mental Health*

**THE INFLUENCE OF EMOTION REGULATION  
ON DECISION-MAKING UNDER RISK AND  
THE NEURAL CIRCUITS OF REWARD**

Laura N. Martin & Mauricio R. Delgado  
*Rutgers, The State University of New Jersey*

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**PROCESSING OF INTRINSICALLY  
EMOTIONAL AND CIGARETTE-RELATED  
IMAGES IN SMOKERS: AN FMRI STUDY**

Francesco Versace, Edward F. Jackson, Jason D.  
Robinson, Cho Y. Lam, Jennifer A. Minnix, Victoria  
L. Brown, & Paul M. Cinciripini  
*The University of Texas M.D. Anderson Cancer Center*

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8:15 A.M.—10:00 A.M.

*Salon GH*

***Symposium 1.2***

**EARLY LATENCY EVENT-RELATED READING  
POTENTIALS: AT THE INTERSECTION OF  
LEXICAL AND SEMANTIC PROCESSING**

Chair: Joseph Dien  
*University of Maryland at College Park*

**EARLY ORTHOGRAPHIC AND  
PHONOLOGICAL EFFECTS DURING  
READING ALOUD IN A SECOND LANGUAGE**

Kalinka Timmer & Niels O. Schiller  
*Leiden University*

**THE EMERGENCE OF “LEXICAL QUALITY”  
FROM READING EXPERIENCE: EARLY ERP  
SIGNATURES OF PARTIAL VS. ROBUST WORD  
LEARNING FROM TEXT**

Gwen A. Frishkoff<sup>1</sup> & Charles A. Perfetti<sup>2</sup>  
<sup>1</sup>*Georgia State University*, <sup>2</sup>*University of Pittsburgh*

**BEHAVIOURAL AND ERP EVIDENCE FOR  
EARLY RETRIEVAL OF LEXICO-SEMANTIC  
INFORMATION IN VISUAL  
WORD RECOGNITION**

Olaf O. Hauk  
*MRC Cognition and Brain Sciences Unit*

**ENHANCED PROCESSING OF EMOTIONAL  
WORDS, PRE-LEXICAL, LEXICAL, POST-  
LEXICAL, OR EXTRA-LEXICAL?  
IMPLICATIONS FOR THE ORGANIZATION OF  
THE MENTAL LEXICON**

Johanna Kissler  
*University of Konstanz*

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**COMBINED ERP/FMRI EVIDENCE FOR  
LEXICAL EFFECTS IN THE LANGUAGE  
FORMULATION AREA**

Joseph Dien<sup>1</sup>, Eric Brian<sup>2</sup>, Dennis L. Molfese<sup>2</sup>, &  
Brian T. Gold<sup>3</sup>

<sup>1</sup>University of Maryland at College Park, <sup>2</sup>University of  
Louisville, <sup>3</sup>University of Kentucky

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8:15 A.M.—10:00 A.M.

*Salon EF*

***Symposium 1.3***

***SPR 50th Anniversary Symposium #1***

**THE PRESENT AS THE PAST'S FUTURE**

Chair: Emanuel Donchin

*University of South Florida*

**SOCIAL NEUROSCIENCE SEVENTEEN  
YEARS LATER**

John T. Cacioppo

*University of Chicago*

**PSYCHOPHYSIOLOGICAL  
ENDOPHENOTYPES AND  
EXTERNALIZING PSYCHOPATHOLOGY**

William G. Iacono

*University of Minnesota*

**A DECADE OF ELECTROPHYSIOLOGICAL  
STUDIES OF LANGUAGE**

Marta Kutas

*University of California, San Diego*

**EMOTIONAL NETWORKS IN THE BRAIN:  
MIXING MEMORY, DESIRE AND FEAR**

Peter Lang

*University of Florida*

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10:00 A.M.—8:15 P.M.

*Exhibit Hall*

***Exhibits Open***

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10:00 A.M.—10:30 A.M.

*Exhibit Hall*

***Refreshment Break***

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10:30 A.M.—11:30 A.M.

*Salon EF*

***Invited Address***

**RISK, RESILIENCE, AND GENE-  
ENVIRONMENT INTERPLAY IN PRIMATES**

Steve Suomi, PhD

*Chief, Laboratory of Comparative Ethology, Eunice  
Kennedy Shriver National Institute of Child Health and  
Human Development National Institutes of Health,  
DHHS, Bethesda, Maryland*

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11:30 A.M.—1:00 P.M.

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

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11:30 A.M.—1:00 P.M.

*Mount Hood Room*

***Education and Training Committee  
Roundtable Discussions***

**Errors and Negative Feedback**

Greg Hajcak and Clay Holroyd

**Eyeblink Startle Reflex**

Larry Hawk and Christine Larson

**Combining fMRI and  
Autonomic Psychophysiology**

Greg Siegle and Carien van Reekum

**Heart Rate Variability**

Dick Jennings and Julian Thayer

**Setting up a Psychophysiology Laboratory**

John J.B. Allen and John Curtin

**Principal Components Analysis of ERP Data**

Joe Dien and Jürgen Kayser

**Time-Frequency Analysis**

Ed Bernat and Phan Luu

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1:00 P.M.—2:30 P.M.

*Salon EF*

***Presidential Symposium***

**COMPETING FOR ATTENTION: CORTICAL MECHANISMS OF SELECTION**

**Chair:** Diane Beck

*University of Illinois at Urbana-Champaign*

**ERP CORRELATES OF COMPETITION FOR VISUAL REPRESENTATION**

Paul Corballis

*Georgia Institute of Technology*

**INTERACTIONS IN VISUAL CORTEX LIMIT ATTENTION'S ABILITY TO ACT ON MULTIPLE ITEMS**

Diane Beck

*University of Illinois at Urbana-Champaign*

**FUNCTIONAL NETWORKS UNDERLYING TOP-DOWN VISUAL SPATIAL ATTENTION IN THE HUMAN BRAIN**

Michael Silver

*University of California, Berkeley*

**PAYING ATTENTION TO THE MOST INFORMATIVE SENSORY NEURONS**

John Serences

*University of California, San Diego*

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2:30 P.M.—3:00 P.M.

*Exhibit Hall*

***Refreshment Break***

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3:00 P.M.—4:30 P.M.

*Salon EF*

***Symposium 2.1***

**FROM PERCEPTION TO ACTION: WHEN, WHERE, AND HOW DOES ANXIETY BREAK THE CHAIN?**

**Chairs:** Monique Ernst<sup>1</sup> & Nazanin Derakshan<sup>2</sup>

<sup>1</sup>*National Institute of Mental Health*, <sup>2</sup>*Birkbeck University of London*

**Discussant:** Monique Ernst

*National Institute of Mental Health*

**ERP CORRELATES OF IMPAIRED INHIBITION  
AND COGNITIVE EFFORT IN ANXIETY: AN  
INVESTIGATION OF ATTENTIONAL  
CONTROL THEORY**

Tahereh Ansari & Nazanin Derakshan  
*Birkbeck University of London*

**TEMPORAL DYNAMICS OF WORKING  
MEMORY PROCESSES IN ANXIETY**

Christina Fales  
*Washington University, Missouri*

**TRAIT ANXIETY ALTERS EARLY ERROR  
MONITORING BRAIN FUNCTIONS: A HIGH-  
DENSITY ERP TOPOGRAPHIC  
MAPPING STUDY**

Gilles Pourtois & Kristien Aarts  
*Ghent University, Belgium*

**SENSORIMOTOR COUPLING TIGHTENS  
UNDER ANXIETY**

Monique Ernst, Brian Cornwell, Sven Mueller, &  
Christian Grillon  
*National Institute of Mental Health*

3:00 P.M.—4:30 P.M.

*Salon AB*

***Symposium 2.2***

***Methodology Symposium #1***

**NEW DIMENSIONS OF EEG RESEARCH**

Chair: Scott Makeig  
*University of California, San Diego*

**HEADIT AND EEGLAB: OPEN RESOURCES  
FOR ELECTROPHYSIOLOGICAL DISCOVERY**

Arnaud Delorme  
*University of California, San Diego*

**SOURCE FREQUENCY MODE ANALYSIS  
DURING EMOTION IMAGINATION**

Julie A. Onton  
*Naval Health Research Center*

**CORTICAL INFORMATION FLOW ANALYSIS**

Tim Mullen  
*University of California, San Diego*

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**BRAIN-COMPUTER INTERFACE  
(BCI) DESIGN**

Christian Kothe  
*University of California, San Diego*

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3:00 P.M.—4:30 P.M.

*Salon GH*

***Symposium 2.3***

**LOOKING UP AND DOWN THE BRAIN: IS  
THE HEART FOREVER MAKING THE HEAD  
ITS FOOL?**

**Chairs:** Nathalie Pattyn<sup>1</sup> & Julian F. Thayer<sup>2</sup>  
<sup>1</sup>*Vrije Universiteit Brussel*, <sup>2</sup>*The Ohio State University*

**Discussant:** Richard J. Jennings  
*University of Pittsburgh*

**A META-ANALYSIS OF STUDIES OF THE  
NEURAL CORRELATES OF HEART RATE  
VARIABILITY: IMPORTANCE OF THE  
AMYGDALA AND THE MEDIAL  
PREFRONTAL CORTEX**

Julian F. Thayer<sup>1</sup>, Fredrik Ahs<sup>2</sup>, Mats Fredrikson<sup>2</sup>, John  
J. Sollers<sup>3</sup>, & Tor D. Wager<sup>4</sup>

<sup>1</sup>*Ohio State University*, <sup>2</sup>*Uppsala University*, <sup>3</sup>*University  
of Auckland*, <sup>4</sup>*University of Colorado*

**CENTRAL AND PERIPHERAL AROUSAL  
DURING EMOTION INDUCTION—AN  
FMRI STUDY**

Annick Van den Nest<sup>1</sup>, Philippe Peigneux<sup>2</sup>, Xavier  
Neyt<sup>3</sup>, Patrick Emonts<sup>4</sup>, & Nathalie Pattyn<sup>1</sup>

<sup>1</sup>*Vrije Universiteit Brussel*, <sup>2</sup>*Universite Libre de Bruxelles*,  
<sup>3</sup>*Royal Military Academy*, <sup>4</sup>*Institut Jules Bordet*

**STRESSOR-EVOKED SUPPRESSION OF  
BAROREFLEX SENSITIVITY COVARIES WITH  
FUNCTIONAL ACTIVITY IN  
CORTICOLIMBIC CIRCUITS**

Israel C. Christie, Lei K. Sheu, Ikechukwu C.  
Onyewuenyi, & Peter J. Gianaros  
*University of Pittsburgh*

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**THE INFLUENCE OF CARDIAC  
BARORECEPTOR AFFERENT SIGNALING ON  
THE INTEGRATION OF COGNITIVE,  
EMOTIONAL AND PHYSIOLOGICAL  
FUNCTION**

Marcus A. Gray & Hugo D. Critchley  
*University of Sussex*

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4:30 P.M.—4:45 P.M.

*Break*

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4:45 P.M.—6:15 P.M.

*Salon AB*

*Symposium 3.1*

**SPEED CHANNELS: FAST DYNAMICS OF  
VISUAL DISCRIMINATION AND ATTENTION**

**Chair:** Dean Sabatinelli  
*University of Georgia*

**Discussant:** Don Tucker  
*University of Oregon*

**TIME COURSE OF VISUAL OBJECT  
CATEGORIZATION IN THE MACAQUE VISUAL  
AREA V4**

Jay Hegdé  
*Medical College of Georgia*

**EFFECTS OF PERCEPTUAL LOAD IN PRIMARY  
VISUAL CORTEX DEPEND ON AFFECTIVE  
STATE: EVIDENCE FROM ERPS**

Gilles Pourtois & Valentina Rossi  
*Ghent University, Belgium*

**THE HARDER THEY COME, THE HARDER  
THEY FALL: TIME DYNAMICS IN HUMAN  
VISUAL CORTEX PREDICT  
BEHAVIORAL ACCURACY**

Andreas Keil  
*CSEA, University of Florida*

**THE TIMING OF EMOTIONAL  
DISCRIMINATION ACROSS DORSAL AND  
VENTRAL ATTENTION NETWORKS**

Dean Sabatinelli  
*University of Georgia*

4:45 P.M.—6:15 P.M.

Salon EF

***Symposium 3.2***

**BRAIN DISORDER PASTICHE: VIEW FROM  
THE LEFT COAST**

Chair: John Polich

*The Scripps Research Institute*

**GENETIC RISK FOR ALZHEIMER'S DISEASE  
PREDICTS ERP RESPONSE AND FMRI  
ACTIVATION DURING ODOR RECOGNITION  
MEMORY IN OLDER ADULTS**

Claire Murphy

*San Diego State University*

**NEUROELECTRIC ASSESSMENT OF BINGE  
DRINKING IN YOUNG ADULT HUMANS**

Kelly E. Courtney & John Polich

*The Scripps Research Institute*

**WHEN IT'S TIME FOR A CHANGE: FAILURES  
TO TRACK CONTEXT IN SCHIZOPHRENIA**

Daniel Mathalon & Judith Ford

*University of California, San Francisco*

**SELF-EVALUATION AND THE  
NEUROPHYSIOLOGY OF DEPRESSION**

Allison C. Waters<sup>1</sup> & Don M. Tucker<sup>1,2</sup>

<sup>1</sup>*University of Oregon*, <sup>2</sup>*Electrical Geodesics, Inc.*

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6:15 P.M.—8:15 P.M.

*Exhibit Hall*

***Poster Session I***

***Exhibits Open***

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8:15 P.M.—10:15 P.M.

*Salon I*

***Early Careers Conversation Hour***

(Pre-registration requested)

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**Friday, October 1, 2010**


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8:00 A.M.—5:00 P.M.

*Oregon Ballroom Foyer****Registration***

8:00 A.M.—8:00 P.M.

*Exhibit Hall Foyer****Internet Station***

8:30 A.M.—10:00 A.M.

*Salon AB****Symposium 4.1***

**ATTENTION MOTIVATES AND MOTIVATION  
ATTENDS: EXPLORING THE INTERACTION  
BETWEEN EMOTIVE AND  
ATTENTIONAL PROCESSES**

**Chairs:** Philip A. Gable<sup>1</sup> & Eddie Harmon-Jones<sup>2</sup>

<sup>1</sup>*University of Alabama*, <sup>2</sup>*Texas A&M University*

**SOCIAL THREAT PERCEPTION—  
COMPETITION AND ATTENTIONAL  
SELECTION OF THREATENING FACES**

Matthias J. Wieser

*University of Würzburg*

**ANTERIOR ASYMMETRIES,  
INTERHEMISPHERIC CONNECTIVITY AND  
MOTIVATIONAL TENDENCIES: A  
TRANSCRANIAL MAGNETIC STIMULATION  
APPROACH**

Dennis J. L. G. Schutter, Sylco S. Hoppenbrouwers,  
& Dennis Hofman

*Utrecht University*

**MOTIVATION AND ATTENTION: BOTTOM-  
UP AND TOP-DOWN PROCESSES REFLECTED  
IN THE LATE POSITIVE POTENTIAL**

Greg Hajcak<sup>1</sup>, Anna Weinberg<sup>1</sup>, Joe Hilgard<sup>2</sup>, & Bruce  
Bartholow<sup>2</sup>

<sup>1</sup>*Stony Brook University*, <sup>2</sup>*University of Missouri*

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**BI-DIRECTIONAL RELATIONSHIP BETWEEN  
MOTIVATION AND ATTENTIONAL  
NARROWING**

Philip A. Gable<sup>1</sup> & Eddie Harmon-Jones<sup>2</sup>

<sup>1</sup>University of Alabama, <sup>2</sup>Texas A&M University

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8:30 A.M.—10:00 A.M.

Salon GH

*Symposium 4.2*

**BEYOND THE ODDBALL IN SCHIZOPHRENIA  
RESEARCH: NEUROPHYSIOLOGIC STUDIES  
OF MEMORY AND LANGUAGE PROCESSING**

**Chairs:** Gerard E. Bruder<sup>1,2</sup> & Jürgen Kayser<sup>1,2</sup>

<sup>1</sup>New York State Psychiatric Institute, <sup>2</sup>Columbia  
University College of Physicians & Surgeons

**Discussant:** Daniel H. Mathalon

San Francisco VA Medical Center; University of  
California, San Francisco

**SPEECH INDUCED SUPPRESSION OF  
AUDITORY CORTEX: COROLLARY  
DISCHARGE DYSFUNCTION IN THE  
PRODROMAL STAGE OF SCHIZOPHRENIA**

Judith M. Ford<sup>1,2</sup>, Veronica Perez<sup>1,2</sup>, Brian J. Roach<sup>1,2</sup>,  
Sophia Vinogradov<sup>1,2</sup>, Rachel Loewy<sup>2</sup>, Barbara K.  
Stuart<sup>2</sup>, & Daniel H. Mathalon<sup>1,2</sup>

<sup>1</sup>San Francisco VA Medical Center, <sup>2</sup>University of  
California, San Francisco

**TASK-SPECIFIC ERP OLD/NEW EFFECTS IN  
SCHIZOPHRENIA: NEURONAL GENERATOR  
PATTERNS DURING A WORKING MEMORY  
(WM) PARADIGM WITH WORDS AND FACES**

Jürgen Kayser<sup>1,2</sup>, Craig E. Tenke<sup>1,2</sup>, Christopher J.  
Kroppmann<sup>1</sup>, Daniel M. Alschuler<sup>1</sup>, Shiva Fekri<sup>1</sup>,  
Roberto Gil<sup>1,2</sup>, Lars F. Jarskog<sup>1,2</sup>, Jill M. Harkavy-  
Friedman<sup>1,2</sup>, & Gerard E. Bruder<sup>1,2</sup>

<sup>1</sup>New York State Psychiatric Institute, <sup>2</sup>Columbia  
University College of Physicians & Surgeons

**SEMANTIC MEMORY AND WORD  
FREQUENCY MODULATE N400 IN THE  
FAMILY MEMBERS OF SCHIZOPHRENIA  
PATIENTS**

Ruth Condray<sup>1,2</sup>, Greg J. Siegle<sup>1,2</sup>, & Stuart R.  
Steinhauer<sup>1,2,3</sup>

<sup>1</sup>*Western Psychiatric Institute & Clinic*, <sup>2</sup>*University of  
Pittsburgh School of Medicine*, <sup>3</sup>*VA Pittsburgh Healthcare  
System*

**DIFFERENCES IN BRAIN ACTIVATION AS A  
FUNCTION OF RELATIONSHIP TYPE AND  
TEMPORAL DISTANCE BETWEEN PRIMES  
AND TARGETS IN NORMAL CONTROL AND  
SCHIZOPHRENIA INDIVIDUALS**

Margaret Niznikiewicz<sup>1,2,3</sup>, Laurel Bobrow<sup>3</sup>, Cynthia  
Wible<sup>2,3</sup>, Susan Whitman-Gabrieli<sup>4</sup>, Paul G. Nestor<sup>4,5</sup>,  
Martha E. Shenton<sup>1,2,3</sup>, & Marek Kubicki<sup>2,3</sup>

<sup>1</sup>*Boston VA Healthcare System*, <sup>2</sup>*Harvard Medical School*,  
<sup>3</sup>*Brigham and Women Hospital, Boston*, <sup>4</sup>*Massachusetts  
Institute of Technology*, <sup>5</sup>*University of Massachusetts,  
Boston*

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8:30 A.M.—10:00 A.M.

*Salon EF*

***Symposium 4.3***

***SPR 50th Anniversary Symposium #2***

**PSYCHOPHYSIOLOGY IN THE NEXT  
FIFTY YEARS**

Chair: John J.B. Allen  
*University of Arizona*

**PSYCHOPHYSIOLOGY IN 2050**

John T. Cacioppo  
*University of Chicago*

**QUESTIONS, TOOLS, AND INFERENCE**

Marta Kutas  
*University of California, San Diego*

**PSYCHOPHYSIOLOGY'S THIRD WAVE**

Sylvia D. Kreibig  
*Stanford University*

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**SHINY PAST—BRIGHT FUTURE**

Niels Birbaumer  
*University of Tübingen*

**ERPS IN THE FUTURE: SEX, DRUGS, ROCK  
'N ROLL**

John Polich  
*The Scripps Research Institute*

**EVERYTHING OLD IS NEW AGAIN**

Margaret M. Bradley  
*University of Florida*

**PSYCHOPHYSIOLOGY IN 2060: MAD MAX OR  
RETURN OF THE JEDI?**

David Amodio  
*New York University*

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10:00 A.M.—8:00 P.M.

*Exhibit Hall*

***Exhibits Open***

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10:00 A.M.—10:30 A.M.

*Exhibit Hall*

***Refreshment Break***

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10:30 A.M.—11:30 A.M.

*Salon EF*

***Invited Address***

**NEUROBEHAVIORAL FUNCTION IN  
ADOLESCENCE: DEVELOPMENTAL AND  
EVOLUTIONARY PERSPECTIVES ON RISK  
FOR ALCOHOL/SUBSTANCE USE DISORDERS**

Linda Spear, PhD, Distinguished Professor  
*Department of Psychology and Center for Development  
and Behavioral Neuroscience, Binghamton University,  
Binghamton, New York*

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11:30 A.M.—1:00 P.M.

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

11:30 A.M.—1:00 P.M.

*Mount Hood Room*

***Women in Science and Education (W.I.S.E.)***

***Lunch Box Discussion***

(Pre-registration required)

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1:00 P.M.—2:30 P.M.

*Salon AB*

***Symposium 5.1***

**PSYCHOPHYSIOLOGICAL AND  
NEUROBIOLOGICAL CONCOMITANTS OF  
MINDFULNESS: EVIDENCE FROM  
LABORATORY RESEARCH**

**Chairs:** M. Kathleen B. Lustyk & Haley A. C.

Douglas

*Seattle Pacific University & University of Washington*

**MINDFULNESS TRAINING AFFECTS  
CENTRAL AND AUTONOMIC NERVOUS  
SYSTEM INTERACTIONS**

Yi-Yuan Tang

*University of Oregon*

**MINDFULNESS TRAINING AS TREATMENT  
AND MECHANISTIC PROBE FOR ADDICTION**

Judson Brewer

*Yale University*

**EFFECTS OF MINDFULNESS-BASED  
COGNITIVE THERAPY ON SLEEP IN  
PARTIALLY REMITTED DEPRESSION**

Willoughby B. Britton

*Brown University*

**CARDIOVASCULAR RESPONSES TO A  
LABORATORY STRESSOR IN WOMEN:  
ASSESSING THE ROLE OF BODY AWARENESS**

Haley A. C. Douglas & M. Kathleen B. Lustyk

*Seattle Pacific University & University of Washington*

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**BRAIN ACTIVITY DURING MINDFULNESS  
MEDITATION RELATIVE TO INSTRUCTED  
MIND-WANDERING: EFFECTS ON  
SPONTANEOUS BRAIN ACTIVITY AND  
STIMULI-INDUCED REACTIVITY**

B. Rael Cahn<sup>1,2,3</sup>, John Polich<sup>2</sup>, & Arnaud Delorme<sup>3,4</sup>

<sup>1</sup>University of California, Irvine, <sup>2</sup>The Scripps Research  
Institute, <sup>3</sup>Meditation Research Institute, <sup>4</sup>The Institute  
for Neural Computation & Paul Sabatier University

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1:00 P.M.—2:30 P.M.

*Salon EF*

***Symposium 5.2***

**BEHAVIORAL AND EMOTIONAL SELF-  
REGULATION IN CHILDREN: RELATIONS  
WITH THE NOGO N2**

**Chair:** Sidney J. Segalowitz

*Brock University*

**Discussant:** Sidney J. Segalowitz

*Brock University*

**THE NOGO-N2 EFFECT PREDICTS  
EXTERNALIZING BEHAVIOR IN 5-6 YEAR  
OLD CHILDREN AT RISK FOR REDUCED  
INHIBITORY CONTROL**

Michelle K. Jetha<sup>1,2</sup>, Sidney J. Segalowitz<sup>1</sup>, Lisa Gatzke-  
Kopp<sup>2</sup>, & David Ly<sup>1</sup>

<sup>1</sup>*Brock University*, <sup>2</sup>*Penn State University*

**ERP MEASURES OF ANXIETY-RELATED  
ATTENTIONAL BIASES IN CHILDREN**

Tracy A. Dennis

*City University of New York*

**FEAR RELATED DIFFERENTIAL NEURAL  
CORRELATES OF RESPONSE CONTROL**

Connie Lamm, Lauren K. White, & Nathan Fox

*University of Maryland*

**VENTRAL AND DORSAL ACC ACTIVITY  
DURING EMOTION REGULATION IN  
CHILDREN: THE MEDIATING ROLE OF  
PARENTING STYLE**

Jim Stieben

*York University*

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1:00 P.M.—2:30 P.M.

*Salon GH*

### ***Symposium 5.3***

#### **EMBODIMENT OF THE SOCIAL CONTEXT: PSYCHOPHYSIOLOGICAL ADVANCES IN INTERGROUP INTERACTION RESEARCH**

**Chair:** Elizabeth Page-Gould

*University of Toronto Scarborough*

**Discussant:** Wendy B. Mendes

*Harvard University*

#### **POWERFUL AND CONTAGIOUS: SOCIAL POWER DRIVES PHYSIOLOGICAL SYNCHRONY DURING SOCIAL INTERACTIONS**

Elizabeth Page-Gould<sup>1</sup>, Katrina Koslov<sup>2</sup>, & Wendy B. Mendes<sup>2</sup>

<sup>1</sup>*University of Toronto Scarborough*, <sup>2</sup>*Harvard University*

#### **PHYSIOLOGICAL AND BEHAVIORAL STRESS RESPONSES TO INTERRACIAL CONTACT IN THE MOMENT AND ACROSS TIME**

Sophie Trawalter<sup>1</sup>, Emma K. Adam<sup>2</sup>, P. L. Chase-Lansdale<sup>2</sup>, & Jennifer A. Richeson<sup>2</sup>

<sup>1</sup>*University of Virginia*, <sup>2</sup>*Northwestern University*

#### **THE PHYSIOLOGICAL AND PHENOMENOLOGICAL EXPERIENCE OF INTERGROUP INTERACTIONS: THE MODERATING ROLE OF EXPLICIT RACIAL PREJUDICE**

Amanda B. Brodish<sup>1</sup>, Leah R. Zinner<sup>2</sup>, Patricia G. Devine<sup>3</sup>, & Eddie Harmon-Jones<sup>4</sup>

<sup>1</sup>*University of Michigan*, <sup>2</sup>*Oglethorpe University*,

<sup>3</sup>*University of Wisconsin, Madison*, <sup>4</sup>*Texas A&M University*

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2:30 P.M.—3:00 P.M.

*Exhibit Hall*

***Refreshment Break***

3:00 P.M.—4:30 P.M.

Salon EF

### *Symposium 6.1*

#### **INTEGRATING EMOTION AND COGNITION IN ETIOLOGICAL UNDERSTANDINGS OF PSYCHOPATHY**

**Chairs:** Edelyn Verona<sup>1</sup> & Joseph P. Newman<sup>2</sup>

<sup>1</sup>*University of Illinois at Urbana-Champaign*, <sup>2</sup>*University of Wisconsin, Madison*

**Discussant:** Christopher J. Patrick

*Florida State University*

#### **SPECIFYING THE ATTENTIONAL SELECTION THAT MODERATES THE FEARLESSNESS OF PSYCHOPATHIC OFFENDERS**

Arielle R. Baskin-Sommers, John J. Curtin, & Joseph P. Newman

*University of Wisconsin, Madison*

#### **PSYCHOPATHY, PHENOTYPIC BOLDNESS, AND AFFECTIVE MODULATION OF THE BLINK REFLEX AND P3 RESPONSES TO ACOUSTIC STARTLE PROBES DURING AVERSIVE IMAGES**

Jason R. Hall<sup>1</sup>, Uma Vaidyanathan<sup>2</sup>, & Edward M. Bernat<sup>2</sup>

<sup>1</sup>*University of South Florida*, <sup>2</sup>*Florida State University*

#### **EMOTIONAL PROCESSING AS A FUNCTION OF VISUAL COMPLEXITY IN PSYCHOPATHS: IMPLICATIONS FOR EMOTIONAL MODULATION OF THE STARTLE RESPONSE**

Naomi Sadeh & Edelyn Verona

*University of Illinois at Urbana-Champaign*

#### **YOUTHS WITH CONDUCT DISORDER AND CALLOUS-UNEMOTIONAL TRAITS SHOW DISRUPTED VENTROMEDIAL FRONTAL CORTEX FUNCTION DURING DECISIONS REGARDING ENVIRONMENTAL THREATS AND REWARDS**

Katherine A. Fowler & James R. Blair

*National Institute of Mental Health*

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3:00 P.M.—4:30 P.M.

*Salon AB*

***Symposium 6.2***

***Methodology Symposium #2***

**ENHANCING THE RICHNESS AND  
RESOLUTION OF ERP ANALYSES WITH SAVVY  
CORRECTION FOR MULTIPLE  
COMPARISONS, MULTIPLE REGRESSION,  
AND GENERALIZED ADDITIVE MODELS**

Chair: David M. Groppe

*University of California, San Diego*

**FREELY AVAILABLE MATLAB SOFTWARE FOR  
MASSIVELY UNIVARIATE ANALYSIS AND  
VISUALIZATION OF ERPS**

David M. Groppe & Marta Kutas

*University of California, San Diego*

**MULTIPLE REGRESSION EXTENSIONS TO  
CLASSIC ERP ANALYSIS**

Nathaniel J. Smith, & Marta Kutas

*University of California, San Diego*

**EXPLORING LINGUISTIC COMPONENTS OF  
EVOKED RESPONSE POTENTIALS WITH  
GENERALIZED ADDITIVE MODELS (GAMS)**

Harald Baayen, Antoine Tremblay, & Peter Hendrix

*University of Alberta, Edmonton*

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4:30 P.M.—4:45 P.M.

***Break***

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4:45 P.M.—5:45 P.M.

*Salon EF*

***Invited Address***

**EXTENDING THE REACH OF THE  
HIPPOCAMPAL SYSTEM AND  
RELATIONAL MEMORY**

Neal Cohen, PhD, Professor of Psychology

*Neuroscience Program and Beckman Institute, University  
of Illinois at Urbana-Champaign, Urbana, Illinois*

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6:00 P.M.—8:00 P.M.

*Exhibit Hall*

***Poster Session II***  
***Exhibits Open***

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10:00 P.M.

***Student Social***  
(location to be announced)  
*All students are invited!*

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**Saturday, October 2, 2010**

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8:30 A.M.—2:30 P.M.

*Oregon Ballroom Foyer****Registration***

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8:00 A.M.—9:00 P.M.

*Exhibit Hall Foyer****Internet Station***

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8:30 A.M.—10:00 A.M.

*Salon AB****Symposium 7.1*****PSYCHOPHYSIOLOGICAL AND  
NEUROBIOLOGICAL MARKERS OF EARLY  
LIFE STRESS THROUGHOUT THE LIFE SPAN****Chairs:** Sven C. Mueller & Monique Ernst*National Institute of Mental Health/National Institutes  
of Health***NEONATAL AUDITORY EVOKED RESPONSES  
ARE RELATED TO PERINATAL MATERNAL  
ANXIETY**

Kyle W. Harvison, Dennis L. Molfese, Janet

Woodruff-Borden, &amp; Rebecca Weigel

*University of Louisville***EARLY ADVERSITY AND THE DEVELOPMENT  
OF FACE PROCESSING**Jennifer McDermott<sup>1</sup>, Alissa Westerlund<sup>2</sup>, Margaret  
Moulson<sup>3</sup>, Nathan A. Fox<sup>4</sup>, Charles H. Zeanah<sup>5</sup>, &  
Charles A. Nelson<sup>6</sup><sup>1</sup>*University of Wisconsin*, <sup>2</sup>*Children's Hospital Boston*,<sup>3</sup>*Ryerson University*, <sup>4</sup>*University of Maryland*, <sup>5</sup>*Tulane  
University*, <sup>6</sup>*Harvard University*

**EARLY LIFE STRESS DUE TO MALTREATMENT  
IN CHILDHOOD MODULATES INHIBITORY  
CONTROL AND REWARD PROCESSING:  
EVIDENCE FROM EYE TRACKING AND FMRI**

Sven C. Mueller<sup>1</sup>, Francoise S. Maheu<sup>2</sup>, Michael G.  
Hardin<sup>1</sup>, Katherine Korelitz<sup>1</sup>, Mary Dozier<sup>3</sup>, Elizabeth  
Peloso<sup>3</sup>, Ellen Leibenluft<sup>1</sup>, Daniel S. Pine<sup>1</sup>, & Monique  
Ernst<sup>1</sup>

<sup>1</sup>National Institute of Mental Health/National Institutes  
of Health, <sup>2</sup>University of Montreal, <sup>3</sup>University of  
Delaware

**CHILDHOOD ABUSE IS ASSOCIATED WITH  
INCREASED STARTLE REACTIVITY  
IN ADULTHOOD**

Tanja Jovanovic, Seth D. Norrholm, Erica Duncan,  
Rebekah Bradley, & Kerry Ressler  
*Emory University*

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8:30 A.M.—10:00 A.M.

*Salon EF*

*Symposium 7.2*

**THE “WHERE” AND “WHEN” OF EMOTION  
REGULATION PROCESSES IN THE BRAIN**

**Chair:** Carien M. van Reekum  
*University of Reading*

**Discussant:** Arvid Kappas  
*Jacobs University Bremen*

**ELECTROCORTICAL ACTIVITY AND THE  
DYNAMIC ALLOCATION OF ATTENTION  
TO EMOTION**

Greg Hajcak, Annmarie MacNamara, Jamie Ferri,  
Jonathan P. Dunning, & Dan Foti  
*Stony Brook University*

**THE TEMPORAL DYNAMICS OF  
REAPPRAISAL AND DISTRACTION**

Ravi Thiruchselvam, Gal Sheppes, & James J. Gross  
*Stanford University*

**VARIETIES OF EMOTION-REGULATORY  
EXPERIENCE**

Heather L. Urry  
*Tufts University*

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**NEURAL SUBSTRATES UNDERLYING THE  
POSITIVE FRAMING OF NEGATIVE  
INFORMATION**

Carien M. van Reekum  
*University of Reading*

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8:30 A.M.—10:00 A.M.

*Salon CD*

*Symposium 7.3*

*SPR 50th Anniversary Symposium #3*

**LYKKEN WAS RIGHT! REMEMBERING DAVID  
LYKKEN'S LEGACY TO PSYCHOPHYSIOLOGY  
ON SPR'S 50TH ANNIVERSARY**

Chair: Jeanette Taylor  
*Florida State University*

**"PRECEPTION" 50 YEARS LATER:  
ELECTRODERMAL RESPONSE MODULATION  
AS A BIOMARKER OF SUBSTANCE USE  
DISORDER**

Jeanette Taylor  
*Florida State University*

**EARLY FUNDAMENTAL CONTRIBUTIONS BY  
DAVID LYKKEN: ELECTRODERMAL  
RECORDING METHODOLOGY AND THE  
LOW FEAR THEORY OF PSYCHOPATHY**

Don Fowles  
*University of Iowa*

**BOLDNESS AND PSYCHOPATHY: "TWIGS ON  
THE SAME GENETIC BRANCH"**

Christopher J. Patrick  
*Florida State University*

**TWIN STUDIES OF PSYCHOPHYSIOLOGICAL  
MEASURES ACROSS TIME: AN EXAMPLE OF  
LYKKEN'S LONGITUDINAL METHOD FOR  
DISATTENUATING HERITABILITY**

Scott R. Carlson  
*University of British Columbia*

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**LIE DETECTION AND THE GUILTY  
KNOWLEDGE TEST: WHERE HAVE WE COME  
IN THE LAST 50 YEARS?**

William G. Iacono  
*University of Minnesota*

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10:00 A.M.—10:15 A.M.

***Break***

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10:15 A.M.—10:45 A.M.

*Salon EF*

***Award for Distinguished Early Career Contribution  
to Psychophysiology***

**THE SOCIAL REGULATION OF EMOTION**

James Coan, PhD  
*University of Virginia*

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10:45 A.M.—11:45 A.M.

*Salon EF*

***Presidential Address***

**BRAIN REFLECTIONS**

Gabriele Gratton, MD, PhD, Professor of Psychology  
and Neuroscience  
*Department of Psychology and Beckman Institute,  
University of Illinois at Urbana-Champaign, Urbana,  
Illinois*

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11:45 A.M.—12:15 P.M.

***Break***

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12:15 P.M.—2:15 P.M.

*Salon EF*

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

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2:15 P.M.—2:30 P.M.

***Break***

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2:30 P.M.—4:00 P.M.

Salon AB

### *Symposium 8.1*

#### **BETTER (OR WORSE) FOR SOME THAN OTHERS: INDIVIDUAL DIFFERENCES IN EMOTIONAL BIASES**

Chairs: Catherine J. Norris<sup>1</sup> & Jackie K. Gollan<sup>2</sup>

<sup>1</sup>*Dartmouth College*, <sup>2</sup>*Northwestern University*

Discussant: Jackie K. Gollan

*Northwestern University*

#### **A NEGATIVITY BIAS IN REPETITION SUPPRESSION: NEURAL RESPONSES TO NEGATIVE PICTURES ARE ENHANCED WITH REPETITION**

Catherine J. Norris<sup>1</sup> & George Monteleone<sup>2</sup>

<sup>1</sup>*Dartmouth College*, <sup>2</sup>*University of Chicago*

#### **DON'T SWEAT THE SMALL STUFF: AGE DIFFERENCES IN THE POSITIVITY OFFSET**

Kristin W. Flanary & Catherine J. Norris

*Dartmouth College*

#### **PSYCHOPHYSIOLOGICAL SUBSTRATES OF RESOLVING AMBIGUITY: INDIVIDUAL DIFFERENCES IN RATING SURPRISED FACIAL EXPRESSIONS**

Maital Neta, Catherine J. Norris, & Paul J. Whalen

*Dartmouth College*

#### **NEGATIVE APPRAISAL OF AMBIGUOUS SOCIAL CUES: EFFECTS OF TEMPORAL UNPREDICTABILITY & GENETIC BACKGROUND**

F. Caroline Davis<sup>1</sup>, M. Justin Kim<sup>1</sup>, Maital Neta<sup>1</sup>,  
Ahmad R. Hariri<sup>2</sup>, & Paul J. Whalen<sup>1</sup>

<sup>1</sup>*Dartmouth College*, <sup>2</sup>*Duke University*

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2:30 P.M.—4:00 P.M.

Salon CD

### *Symposium 8.2*

#### **THE PSYCHOPHYSIOLOGY OF FAMILY INTERACTIONS: EXPLORING THE INTERACTION BETWEEN BIOLOGICAL AND**

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**INTERPERSONAL PROCESSES DURING  
DEVELOPMENT**

**Chair:** Nicholas B. Allen  
*University of Melbourne*

**FINE TUNING: BEHAVIORAL AND  
PHYSIOLOGICAL ATTUNEMENT IN  
MOTHERS AND INFANTS FOLLOWING  
SOCIAL CHALLENGE**

Elisabeth Conradt, Jeffrey Measelle, & Jennifer C.  
Ablow  
*University of Oregon*

**PHYSIOLOGICAL AND EMOTION  
REGULATION IN ADOLESCENTS: THE ROLE  
OF MATERNAL EMOTION COACHING**

Joann Wu Shortt<sup>1</sup>, Lisa B. Sheeber<sup>2</sup>, & Sabina Low<sup>3</sup>  
<sup>1</sup>*Oregon Social Learning Center*, <sup>2</sup>*Oregon Research  
Institute*, <sup>3</sup>*Wichita State University*

**INDIVIDUAL DIFFERENCES IN BASELINE  
STARTLE REFLEX MAGNITUDE PREDICTS  
AFFECTIVE BEHAVIOR DURING FAMILY  
INTERACTIONS IN EARLY ADOLESCENTS**

Julian G. Simmons, Sarah Whittle, Marie Yap, Laurie  
O'Brien-Simpson, & Nicholas B. Allen  
*University of Melbourne*

**HEART RATE RESPONSES TO PARENTAL  
BEHAVIOR IN DEPRESSED ADOLESCENTS**

Lisa B. Sheeber<sup>1</sup>, Nicholas B. Allen<sup>2</sup>, & Peter Kuppens<sup>3</sup>  
<sup>1</sup>*Oregon Research Institute*, <sup>2</sup>*University of Melbourne*,  
<sup>3</sup>*University of Leuven*

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4:00 P.M.—7:00 P.M.

***Extended Dinner and City Seeing***  
(on your own)

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7:00 P.M.—9:00 P.M.

*Exhibit Hall*

***Poster Session III***

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9:00 P.M.—12:00 midnight

*Salon F*

***Saturday Night Social***  
*All attendees are welcome!*

**Sunday, October 3, 2010**

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8:30 A.M.—12:00 noon

*Columbia Room****SPR Board of Directors' Meeting***

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8:30 A.M.—10:00 A.M.

*Salon AB****Farewell Breakfast***

All are welcome!

**Poster Session I**  
**Thursday, September 30, 2010**

***Poster Session Schedule***

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

- 1. AFFECTIVE PROCESSING OF LOVED FAMILIAR FACES: EVIDENCE FROM EYE-BLINK STARTLE**  
 Alicia Sánchez, Pedro Guerra, Isis González, Lourdes Anllo-Vento, & Jaime Vila  
*University of Granada*
- 2. ATTENTIONAL MODULATION OF CARDIAC DEFENSE: SYMPATHETIC MECHANISMS UNDERLYING ITS POTENTIATION AND HABITUATION**  
 Pedro Guerra<sup>1</sup>, Sofía Mohamed<sup>1</sup>, Isabel Ramírez<sup>2</sup>, Pandelis Perakakis<sup>1</sup>, & Jaime Vila<sup>1</sup>  
<sup>1</sup>*University of Granada*, <sup>2</sup>*Spanish National Open University*
- 3. STRESS MOTIVATES THE BRAIN: ENHANCED SELECTIVE VISUAL ATTENTION TO UNPLEASANT PICTURES AFTER STRESS EXPOSURE**  
 Mathias Weymar<sup>1</sup>, Lars Schwabe<sup>2</sup>, Andreas Löw<sup>1</sup>, Janine Wirkner<sup>1</sup>, & Alfons O. Hamm<sup>1</sup>  
<sup>1</sup>*University of Greifswald*, <sup>2</sup>*Ruhr University Bochum*
- 4. THE ERP REPETITION EFFECT FOLLOWING INCIDENTAL ENCODING OF A RAPID SERIAL PICTURE STREAM**  
 Andreas Löw, Mathias Weymar, & Alfons O. Hamm  
*University of Greifswald*
- 5. EEG RESPONSES TO EMOTIONAL IMAGES: EXAMINATION OF THE EFFECTS OF RUMINATION AND DISTRACTION IN DEPRESSION**  
 Michael W. Duke, Elizabeth L. Steuer, Lauren E. Taubitz, Emily L. Belleau, & Christine L. Larson  
*University of Wisconsin, Milwaukee*

6. **THE DOWNWARD V IS AN EMOTIONALLY MEANINGFUL ENVIRONMENTAL CUE: AN EVENT-RELATED POTENTIAL STUDY**  
Emily L. Belleau, Elizabeth L. Steuer, Michael W. Duke, Lindsay M. Kaad, & Christine L. Larson  
*University of Wisconsin, Milwaukee*
7. **EVIDENCE THAT TRAIT AGGRESSIVENESS MODERATES THE RELATIONSHIP BETWEEN VIOLENT VIDEO GAMES AND PSYCHOPHYSIOLOGICAL MEASURES OF EVALUATIVE AND REGULATORY CONTROL**  
Christopher R. Engelhardt, Scott Saults, & Bruce D. Bartholow  
*University of Missouri*
8. **MEASURING EVOKED POTENTIALS DURING A GO-NOGO REACTION TIME TASK IN SUBJECTS' NATURAL ENVIRONMENT USING AN AMBULATORY RECORDING SYSTEM**  
Irina G. Fonareva, Roger M. Ellingson, Daniel P. Zajdel, Alexandra M. Amen, & Barry S. Oken  
*Oregon Health & Science University*
9. **THE IMPORTANCE OF CONTEXT IN EMOTIONAL PROCESSING**  
Joseph B. Hilgard<sup>1</sup>, Bruce D. Bartholow<sup>1</sup>, Greg Hajcak<sup>2</sup>, & Anna Weinberg<sup>2</sup>  
<sup>1</sup>*University of Missouri—Columbia*, <sup>2</sup>*Stony Brook University*
10. **PHYSIOLOGICAL CORRELATES OF HOSTILITY: CHANGES IN REGULATION OF SYMPATHETIC TONE AFTER EXPOSURE TO A RIGHT-LATERALIZED MOTOR STRESSOR**  
John F. Hardin<sup>1</sup>, Alissa K. Holland<sup>1</sup>, John E. Rutledge<sup>1</sup>, Joseph E. Carmona<sup>2</sup>, David W. Harrison<sup>2</sup>, Clinton S. Comer<sup>2</sup> & Mark Coe<sup>1</sup>  
<sup>1</sup>*University of South Carolina Lancaster*, <sup>2</sup>*Virginia Tech*
11. **GENETICS, DRUGS, AND COGNITIVE CONTROL: INDIVIDUAL DIFFERENCES UNDERLYING SUBSTANCE DEPENDENCE**  
Travis E. Baker, Tim Stockwell, Gordon Barnes, Roderick Haesevoets, Patrick Macleod, & Clay Holroyd  
*University of Victoria*

**12. IMPAIRMENT IN SENSORY REACTIVITY OF CHILDREN WITH AUTISM SPECTRUM DISORDER**

Tapan K. Gandhi<sup>1</sup>, Pawan Sinha<sup>2</sup>, & Sneha Anand<sup>1</sup>  
<sup>1</sup>*Indian Institute of Technology, Delhi*, <sup>2</sup>*Massachusetts Institute of Technology*

**13. FRONTAL EEG ASYMMETRY IN RESPONSE TO COGNITIVE BEHAVIORAL THERAPY IN PATIENTS WITH SOCIAL ANXIETY DISORDER**

Diane L. Santesso<sup>1</sup>, David A. Moscovitch<sup>2</sup>, Vladimir Miskovic<sup>3</sup>, Jessica M. Senn<sup>4</sup>, Randi E. McCabe<sup>3,5</sup>, Martin M. Antony<sup>6</sup>, & Louis A. Schmidt<sup>3</sup>  
<sup>1</sup>*Brock University*, <sup>2</sup>*University of Waterloo*, <sup>3</sup>*McMaster University*, <sup>4</sup>*Concordia University*, <sup>5</sup>*St. Joseph's Healthcare*, <sup>6</sup>*Ryerson University*

**14. ENHANCED FEEDBACK-RELATED ACC ACTIVITY IN RELATION TO NEGATIVE EMOTIONALITY DURING ADOLESCENCE**

Diane L. Santesso, Jane Dywan, Terrance J. Wade, & Sidney J. Segalowitz  
*Brock University*

**15. MEDIAL PREFRONTAL NOGO ACTIVATION DURING AN EMOTION GO/NOGO TASK IS RELATED TO WORRYING IN ADOLESCENTS**

Christine L. Lackner, Diane L. Santesso, Jane Dywan, Terrance J. Wade, & Sidney J. Segalowitz  
*Brock University*

**16. ANTICIPATING WINS AND LOSSES: CNVS APPEAR TO BE SIMILAR BUT REFLECT DIFFERENT TRAITS**

Angela Dzyundzyak & Sidney J. Segalowitz  
*Brock University*

**17. PERFECTING THE P50 GATING PARADIGM: THE BENEFITS OF USING ICA AND BOOTSTRAPPING TECHNIQUES**

James Desjardins, Christine L. Lackner, & Sidney J. Segalowitz  
*Brock University*

**18. MACHIAVELLIANISM, SOCIOPOLITICAL IDEOLOGY AND THE ERN**

Meghan J. Weissflog<sup>1</sup>, Stefon J. R. van Noordt<sup>1</sup>, Becky L. Choma<sup>2</sup>, Jane Dywan<sup>1</sup>, & Sidney J. Segalowitz<sup>1</sup>  
<sup>1</sup>*Brock University*, <sup>2</sup>*Wilfrid Laurier University*

- 19. RESOLVING INTERFERENCE ONE COMPONENT AT A TIME: DISSOCIATION BETWEEN N2 AND N450 IN A MODIFIED STROOP PARADIGM**  
William J. Tays, Richelle L. Witherspoon, Lesley J. Capuana, Sidney J. Segalowitz, & Jane Dywan  
*Brock University*
- 20. AUTONOMIC CORRELATES OF RESPONSE CONTROL IN THE CONTEXT OF MEMORY-BASED INTERFERENCE AND REWARD CONTINGENCIES**  
Lesley J. Capuana, Jamie L. Elmers, William J. Tays, Sidney J. Segalowitz, & Jane Dywan  
*Brock University*
- 21. I WAS NOT WRONG WAS I? ERP CORRELATES OF ERROR AWARENESS IN AN ANTISACCADE TASK**  
Cassandra J. Lowe, Timothy I. Murphy, & Dirk B. H. Homan  
*Brock University*
- 22. WATCHING THE BRAIN DURING THE ACQUISITION OF ABSTRACT AND CONCRETE WORDS FROM CONTEXT—AN MEG STUDY**  
Kati Keuper<sup>1</sup>, Pienie Zwitserlood<sup>1</sup>, Antoni Rodríguez-Fornells<sup>2</sup>, & Christian Döbel<sup>1</sup>  
<sup>1</sup>*University of Münster*, <sup>2</sup>*University of Barcelona*
- 23. IMMEDIATE AND DELAYED EFFECTS OF NOVEL WORD ACQUISITION BEFORE AND AFTER NOCTURNAL SLEEP—AN MEG STUDY OF LANGUAGE PLASTICITY**  
Annuschka S. Eden<sup>1</sup>, Christian Döbel<sup>1</sup>, Gareth Gaskell<sup>2</sup>, & Pienie Zwitserlood<sup>1</sup>  
<sup>1</sup>*University of Münster*, <sup>2</sup>*University of York*
- 24. SEMANTIC WORD-PICTURE-PRIMING IN SIMULTANEOUS EEG-FMRI**  
Sebastian Geukes<sup>1</sup>, René J. Huster<sup>2</sup>, Andreas Wollbrink<sup>1</sup>, Pienie Zwitserlood<sup>1</sup>, & Christian Döbel<sup>1</sup>  
<sup>1</sup>*University of Münster*, <sup>2</sup>*University of Oldenburg*
- 25. MAGNETOPHYSIOLOGICAL CORRELATES OF MULTIPLE, SHOCK-CONDITIONED FACES**  
Maimu Rehbein, Christian Putsche, Christian Döbel, Pienie Zwitserlood, & Markus Junghöfer  
*University of Münster*

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- 26. EMOTIONAL CONNOTATIONS INFLUENCE CORTICAL RESPONSES OF NEWLY ACQUIRED WORDS**  
Thore Apitz<sup>1</sup>, Christian Dobel<sup>1</sup>, Pienie Zwitserlood<sup>2</sup>, & Markus Junghöfer<sup>1</sup>  
<sup>1</sup>*Institute for Biomagnetism and Biosignalanalysis,*  
<sup>2</sup>*University of Münster*
- 27. BRAIN PLASTICITY DUE TO LONG-TERM PIANO PRACTICE AS REVEALED BY INTRINSIC FUNCTIONAL-NETWORK-CONNECTIVITY BASED ON RESTING-STATE FMRI**  
Han Zhang & Chao-Zhe Zhu  
*State Key Laboratory of Cognitive Neuroscience and Learning, Beijing Normal University*
- 28. REDUCED REACTIVITY TO SAD FACES IN CHILDREN AT RISK FOR DEPRESSION: EVIDENCE FROM EVENT-RELATED POTENTIALS**  
Autumn J. Kujawa, Dana Torpey, Jiyon Kim, Suzanne Rose, Greg Hajcak, & Daniel N. Klein  
*Stony Brook University*
- 29. THE LATE POSITIVE POTENTIAL IN RESPONSE TO EMOTIONAL FACES IN 5-7 YEAR OLD CHILDREN**  
Jamie M. Ferri, Autumn J. Kujawa, Dana Torpey, Jiyon Kim, Greg Hajcak, & Daniel N. Klein  
*Stony Brook University*
- 30. PSYCHOTIC ILLNESS AND ABNORMAL ERROR MONITORING: BEYOND SCHIZOPHRENIA**  
Dan Foti, Roman Kotov, Evelyn J. Bromet, & Greg Hajcak  
*Stony Brook University*
- 31. EARLY HYPERVIGILANCE FOLLOWED BY ATTENUATED PROCESSING OF EMOTIONAL MATERIAL IN GENERALIZED ANXIETY DISORDER: AN EVENT-RELATED POTENTIAL STUDY**  
Anna Weinberg & Greg Hajcak  
*Stony Brook University*

- 32. THE EFFECTS OF REAPPRAISAL FOLLOWING A DELAY: DESCRIPTION TYPE MODULATES THE LPP AND SUBJECTIVE RATINGS ELICITED BY NEUTRAL AND UNPLEASANT PICTURES 30 MINUTES LATER**  
Annmarie MacNamara<sup>1</sup>, Kevin N. Ochsner<sup>2</sup>, & Greg Hajcak<sup>1</sup>  
<sup>1</sup>*Stony Brook University*, <sup>2</sup>*Columbia University*
- 33. PARSING EVENT-RELATED POTENTIALS TO REWARDS AND NON-REWARDS USING TEMPORAL-SPATIAL PCA: THE FEEDBACK NEGATIVITY IS THE ABSENCE OF A REWARD-RELATED POSITIVITY**  
Dan Foti<sup>1</sup>, Anna Weinberg<sup>1</sup>, Joseph Dien<sup>2</sup>, & Greg Hajcak<sup>1</sup>  
<sup>1</sup>*Stony Brook University*, <sup>2</sup>*University of Maryland*
- 34. WHAT NEWS DO YOU WANT FIRST? THE FEEDBACK NEGATIVITY IS SENSITIVE TO UNSELECTED OUTCOMES BUT ONLY WHEN PRESENTED FIRST**  
Jonathan P. Dunning, Rachel Bronheim, Christian Luhmann, & Greg Hajcak  
*Stony Brook University*
- 35. NEW BUZZWORDS—REPETITION SUPPRESSION EFFECTS TO PSEUDO WORDS AFTER AFFECTIVE CONDITIONING**  
Magdalene Ortmann<sup>1</sup>, Christian Döbel<sup>1</sup>, Johanna Kissler<sup>2</sup>, & Markus Junghöfer<sup>1</sup>  
<sup>1</sup>*Institute for Biomagnetism and Biosignalanalysis, University of Münster*, <sup>2</sup>*Institute for Clinical Psychology, University of Konstanz*
- 36. TAKING THE PULSE OF AGING: FITNESS, VASCULAR ELASTICITY AND CEREBRAL HEALTH**  
Nils Schneider-Garces, Kathy Low, Ed Maclin, Gabriele Gratton, & Monica Fabiani  
*University of Illinois at Urbana-Champaign*

- 37. READ MY LIPS? DISSOCIATING AUDIOVISUAL INTEGRATION AND DEVIANCE DETECTION WITH EVENT-RELATED OPTICAL SIGNALS (EROS)**  
Chun-Yu Tse<sup>1</sup>, Gabriele Gratton<sup>1</sup>, Susan M. Garnsey<sup>1</sup>, Michael A. Novak<sup>2</sup>, & Monica Fabiani<sup>1</sup>  
<sup>1</sup>*University of Illinois at Urbana-Champaign*, <sup>2</sup>*Carle Clinic Association*
- 38. THE EFFECTS OF EATING DISORDERS ON GASTRIC MOTILITY**  
E. Devon Eldridge<sup>1</sup>, Jared P. Dempsey<sup>2</sup>, Lucinda Chee<sup>2</sup>, Stephanie Kline<sup>2</sup>, & Courtney Cavett<sup>2</sup>  
<sup>1</sup>*Washington State University*, <sup>2</sup>*Oklahoma State University*
- 39. CLARIFYING THE ROLE OF FEAR DEFICITS IN PSYCHOPATHY AND ANTISOCIAL PERSONALITY USING STARTLE REFLEX METHODOLOGY**  
Uma Vaidyanathan<sup>1</sup>, Edward M. Bernat<sup>1</sup>, Jeremy Harper<sup>1</sup>, James Yancey<sup>1</sup>, Jason R. Hall<sup>2</sup>, & Christopher J. Patrick<sup>1</sup>  
<sup>1</sup>*Florida State University*, <sup>2</sup>*University of South Florida*
- 40. TASK AND REPETITION EFFECTS ON THE SEMANTIC PROCESSING OF ITEMS WITHOUT SEMANTICS**  
Sarah Laszlo<sup>1</sup>, Mallory Stites<sup>2</sup>, & Kara D. Federmeier<sup>2</sup>  
<sup>1</sup>*Carnegie Mellon University*, <sup>2</sup>*University of Illinois at Urbana-Champaign*
- 41. ENTRAINING NEURAL OSCILLATIONS WITH RHYTHMIC VISUAL STIMULATION ELICITS SIMULTANEOUS FLUCTUATIONS IN VISUAL AWARENESS**  
Kyle E. Mathewson, Christopher Prudhomme, Monica Fabiani, Diane M. Beck, Gabriele Gratton, & Alejandro Lleras  
*University of Illinois at Urbana-Champaign*
- 42. WHO WILL LEARN BEST? ELECTROPHYSIOLOGICAL MARKERS OF COGNITIVE CONTROL PREDICT SUBSEQUENT COMPLEX TASK LEARNING IN THE SPACE FORTRESS GAME**  
Kyle E. Mathewson, Kathy A. Low, Edward L. Maclin, Tanya Stanley, Chandramallika Basak, Arthur F. Kramer, Monica Fabiani, & Gabriele Gratton  
*University of Illinois at Urbana-Champaign*

- 43. ASSESSING HUMAN BRAIN FUNCTION WITH SIMULTANEOUS OPTICAL IMAGING AND TMS**  
Nathan A. Parks, Edward L. Maclin, Diane M. Beck, Monica Fabiani, & Gabriele Gratton  
*University of Illinois at Urbana-Champaign*
- 44. THE EVENT-RELATED OPTICAL SIGNAL REVEALS CONTRALATERAL AND IPSILATERAL BRAIN ACTIVITY OVER TIME DURING LATERALIZED PROCESSING OF WORDS**  
Edward W. Wlotko, Kara D. Federmeier, Monica Fabiani, & Gabriele Gratton  
*University of Illinois at Urbana-Champaign*
- 45. PROCESSING PICTURE PREPULSES: ATTENTION CAPTURE BY EMOTIONAL AND NEUTRAL IMAGES**  
Bethany C. Wangelin, Margaret M. Bradley, & Peter J. Lang  
*University of Florida*
- 46. THE PUPIL AS A MEASURE OF EMOTION-MODULATED AROUSAL IN PARKINSON'S DISEASE**  
Jenna B. Dietz, Margaret M. Bradley, Michael S. Okun, & Dawn Bowers  
*University of Florida*
- 47. VENTRODORSAL AXIS OF MEDIAL PREFRONTAL CORTEX REPRESENTS PLEASURE AND AROUSAL: A META-ANALYSIS OF EMOTIONAL IMAGERY**  
Vincent D. Costa, Margaret M. Bradley, & Peter J. Lang  
*University of Florida*
- 48. TIMING OF HEDONIC DISCRIMINATION IN MESOLIMBIC REWARD CENTERS**  
Vincent D. Costa, Lisa M. McTeague, Margaret M. Bradley, & Peter J. Lang  
*University of Florida*
- 49. ERROR-RELATED ERPS IN ADULTS WITH AND WITHOUT ADHD: DISSIMILARITY IN FLANKER AND GO/NOGO TASKS**  
Wen-Pin Chang<sup>1</sup>, William J. Gavin<sup>2</sup>, & Patricia L. Davies<sup>2</sup>  
<sup>1</sup>*Creighton University*, <sup>2</sup>*Colorado State University*

- 50. INDIVIDUAL DIFFERENCES IN RESPONSE INHIBITION IN ADULTS WITH AND WITHOUT ADHD**  
Wen-Pin Chang<sup>1</sup>, William J. Gavin<sup>2</sup>, & Patricia L. Davies<sup>2</sup>  
<sup>1</sup>Creighton University, <sup>2</sup>Colorado State University
- 51. P50 AND N1 BRAIN RESPONSES IN A HABITATION-ORIENTING ERP PARADIGM DIFFER IN MAGNITUDE AND THEIR FUNCTIONAL SIGNIFICANCE**  
Carly A. Yadon<sup>1</sup>, Patricia L. Davies<sup>2</sup>, & William J. Gavin<sup>2</sup>  
<sup>1</sup>Missouri State University, <sup>2</sup>Colorado State University
- 52. GAMMA TO BETA FREQUENCY TRANSITION IN RESPONSE TO AUDITORY STIMULATION: A COMPARISON OF CHILDREN AND ADULTS**  
Barbara Brett-Green<sup>1</sup>, William J. Gavin<sup>2</sup>, & Patricia L. Davies<sup>2</sup>  
<sup>1</sup>University of Colorado Health Science Center, <sup>2</sup>Colorado State University
- 53. EMOTION REGULATION EFFECTS ON THE AFFECTIVE MODULATION OF STARTLE**  
Jessica L. Hamilton, Diane L. Filion, Tamera B. Murdock, Alexandra Davis, & Clarissa Johnson  
*University of Missouri—Kansas City*
- 54. EEG ASYMMETRY, ATTENTION CONTROL, AND RISK FOR ANXIETY IN EARLY CHILDHOOD**  
Rebecca J. Brooker, Kristin A. Buss, & Rebecca L. Eddinger  
*The Pennsylvania State University*
- 55. MODULATING MOTIVATIONAL AROUSAL THROUGH THE MANIPULATION OF ATTENTIONAL SCOPE**  
Philip A. Gable<sup>1</sup> & Eddie Harmon-Jones<sup>2</sup>  
<sup>1</sup>University of Alabama, <sup>2</sup>Texas A&M University
- 56. INDIVIDUAL DIFFERENCES IN APPROACH MOTIVATION PREDICT CORRUGATOR EMG RESPONSES TO ANGRY FACES**  
Kimberly E. Hawkins & Eddie Harmon-Jones  
*Texas A&M University*

- 57. ATTENTIONAL DEPLOYMENT AND COGNITIVE REAPPRAISAL IN OLDER AND YOUNGER ADULTS**  
Philipp C. Opitz<sup>1</sup>, James J. Gross<sup>2</sup>, & Heather L. Urry<sup>1</sup>  
<sup>1</sup>*Tufts University*, <sup>2</sup>*Stanford University*
- 58. CARDIAC RESPONSE DURING COGNITIVE REAPPRAISAL LINKED TO EUDAIMONIC WELL-BEING**  
Sarah R. Cavanagh<sup>1</sup>, Philipp C. Opitz<sup>2</sup>, Jeffrey L. Birk<sup>2</sup>, & Heather L. Urry<sup>2</sup>  
<sup>1</sup>*Assumption College*, <sup>2</sup>*Tufts University*
- 59. EFFECTS OF NEUROTICISM ON VALID AND INVALID FEEDBACK PROCESSING IN A TIME-ESTIMATION TASK: AN FMRI STUDY**  
Gabry W. Mies<sup>1</sup>, Ivo Van den Berg<sup>2</sup>, Maurits W. Van der Molen<sup>3</sup>, Marion Smits<sup>1</sup>, Michiel W. Hengeveld<sup>1</sup>, Ingmar H. A. Franken<sup>2</sup>, & Frederik M. Van der Veen<sup>1</sup>  
<sup>1</sup>*Erasmus MC, University Medical Center Rotterdam*,  
<sup>2</sup>*Erasmus University Rotterdam*, <sup>3</sup>*University of Amsterdam*
- 60. FLEXIBLE AFFECTIVE AND PHYSIOLOGICAL RESPONSIVENESS IN TRAIT RESILIENCE**  
Christian E. Waugh<sup>1</sup>, Renee J. Thompson<sup>2</sup>, Kalpa Bhattacharjee<sup>2</sup>, & Ian H. Gotlib<sup>2</sup>  
<sup>1</sup>*Wake Forest University*, <sup>2</sup>*Stanford University*
- 61. THE RELATION BETWEEN INTEROCEPTIVE AWARENESS AND DECISION-MAKING DIFFICULTIES IN MAJOR DEPRESSIVE DISORDER**  
Kalpa Bhattacharjee, Daniella J. Furman, & Ian H. Gotlib  
*Stanford University*
- 62. THE EFFECT OF MOTIVATIONAL BODY POSTURES ON ERP/EEG RESPONSES TO EMOTIVE STIMULI**  
Tom F. Price, Philip A. Gable, & Eddie Harmon-Jones  
*Texas A&M University*

- 63. UNIQUE AND OPPOSING CONTRIBUTIONS OF TRAIT AND STATE ANXIETY TO THE EXECUTIVE CONTROL OF ATTENTION**  
Jeffrey L. Birk<sup>1</sup>, Tracy A. Dennis<sup>2</sup>, Lisa M. Shin<sup>1,3</sup>, & Heather L. Urry<sup>1</sup>  
<sup>1</sup>Tufts University, <sup>2</sup>Hunter College—City University of New York, <sup>3</sup>Massachusetts General Hospital/Harvard Medical School
- 64. THE DEVIL YOU KNOW: THE EFFECTS OF SCREEN SIZE, PACING, EXPERIENCE AND FAMILIARITY ON ATTENTION AND AROUSAL RESPONSES TO CAMERA CHANGES IN TELEVISION MESSAGES**  
Di Chen & Julia R. Fox  
*Indiana University*
- 65. THE EFFECTS OF TRAIT MOTIVATIONAL ACTIVATION AND PERSONAL EXPERIENCES ON PROCESSING NEGATIVE, MOTIVATIONALLY RELEVANT TELEVISION CONTENT**  
Rachel L. Bailey<sup>1</sup>, Annie Lang<sup>1</sup>, Gayle Nadorff<sup>1</sup>, Sungkyoung Lee<sup>2</sup>, Bernice Pescosolido<sup>1</sup>, & Jack Martin<sup>1</sup>  
<sup>1</sup>Indiana University, <sup>2</sup>University of Pennsylvania
- 66. THE EFFECTS OF TRAIT APPETITIVE SYSTEM REACTIVITY AND PERSONAL EXPERIENCES ON PROCESSING TV MESSAGES ABOUT MENTAL ILLNESS**  
Rachel L. Bailey<sup>1</sup>, Bridget Rubenking<sup>1</sup>, Annie Lang<sup>1</sup>, Gayle Nadorff<sup>1</sup>, Sungkyoung Lee<sup>2</sup>, Bernice Pescosolido<sup>1</sup>, & Jack Martin<sup>1</sup>  
<sup>1</sup>Indiana University, <sup>2</sup>University of Pennsylvania
- 67. EFFECTS OF STEREOTYPE REDUCTION ON COGNITIVE AND EMOTIONAL PROCESSING OF ADVERTISING**  
Saleem Alhabash, Mi Jahng, & Kevin Wise  
*University of Missouri*
- 68. TESTING COLOR THEORY: HOW DIFFERENT COLOR COMBINATIONS AFFECT PHYSIOLOGICAL AND SELF-REPORT MEASURES OF EMOTION**  
Kevin R. Wise, So-Yeon Yoon, Bimal Balakrishnan, Saleem Alhabash, & Veronica Polivanaya  
*University of Missouri*

- 69. CARDIAC RESPONDING DURING A SIGNAL DETECTION TASK FOR MEDIA EVENT MEMORY**  
Brandon H. Nutting, Wesley T. Wise, & Samuel D. Bradley  
*Texas Tech University*
- 70. THE HEART KNOWS BEST: COGNITIVE EFFORT INCREASES WITH ADDED APPETITIVE ACTIVATION**  
Curtis B. Matthews<sup>1</sup>, Krista C. Wells<sup>1</sup>, Johnny V. Sparks<sup>1</sup>, Annie Lang<sup>2</sup>, & Brian K. Hamilton<sup>3</sup>  
<sup>1</sup>*Texas Tech University*, <sup>2</sup>*Indiana University*, <sup>3</sup>
- 71. UTILIZING IMAGERY INDUCTION TO TEST FOR EMOTIONAL RESPONSES TO MEDIA APPROACH AND AVOIDANCE**  
Wendy Maxian  
*Xavier University*
- 72. USING HRV TO MEASURE VARIATIONS IN PNS AND SNS ACTIVATION DURING TELEVISION VIEWING**  
K. Jacob Koruth & Annie Lang  
*Indiana University*
- 73. CONTROLLED ATTENTION TO TELEVISION AND PARASYMPATHETIC NERVOUS SYSTEM ACTIVITY**  
Curtis B. Matthews, Wesley T. Wise, Kelli R. Lyons, & Samuel D. Bradley  
*Texas Tech University*
- 74. PHYSIOLOGICAL RESPONDING AS A FUNCTION OF EMOTION AND NARRATIVE IN TELEVISION MESSAGES**  
Kent N. Lowry, Kelli R. Lyons, Leslie Moya, & Samuel D. Bradley  
*Texas Tech University*
- 75. PROCESSING POLITICAL ADS: DYNAMIC INTERACTIONS BETWEEN EMOTIONAL APPEALS AND POLITICAL ATTITUDE**  
Zheng Wang, Morey Alyssa, & Srivastava Jatin  
*The Ohio State University*

- 76. IMPACT OF LONG-TERM MEDITATION PRACTICE ON SLEEP: A MATCHED CONTROLLED TRIAL**  
Suhas A. Vinchurkar, Shirley A. Telles, & Naveen K. Visweswaraiah  
*Swami Vivekananda Yoga Research Foundation*
- 77. CHANGES IN MIDDLE LATENCY AUDITORY EVOKED POTENTIALS DURING FOUR PHASES OF WAKEFULNESS**  
Raghavendra R. Bhat, Shirley A. Telles, & Naveen K. Visweswaraiah  
*Swami Vivekananda Yoga Research Foundation*
- 78. ATTENTIONAL AND AFFECTIVE CONSEQUENCES OF SAFETY SIGNALS IN THE PRESENCE AND ABSENCE OF THREAT**  
Kathryn R. Hefner<sup>1</sup>, Edelyn Verona<sup>2</sup>, & John J. Curtin<sup>1</sup>  
<sup>1</sup>*University of Wisconsin, Madison*, <sup>2</sup>*University of Illinois at Urbana-Champaign*
- 79. PERSISTENT CORRELATIONS IN HUMAN POSTURAL SWAY AT SHORT TIME INTERVALS: A POSSIBLE MEASURE OF POSTURAL RESPONSES TO AFFECTIVE STIMULATION**  
Sofia Mohamed, Pandelis Perakakis, Jose Luis Mata-Martin, Marlen Figueroa-Varela, & Jaime Vila  
*University of Granada*
- 80. THETA ACTIVITY UNDERLIES GENERIC AND REACTIVE MEDIOFRONTAL FUNCTIONS**  
James F. Cavanagh<sup>1</sup>, Laura Zambrano-Vazquez<sup>2</sup>, & John J.B. Allen<sup>2</sup>  
<sup>1</sup>*Brown University*, <sup>2</sup>*University of Arizona*
- 81. CARDIAC VAGAL CONTROL AS A PROSPECTIVE PREDICTOR OF ANXIETY IN WOMEN DIAGNOSED WITH BREAST CANCER**  
Anna Povzner, John J.B. Allen, Róisín O'Donnell, Amanda E. Brody, & Karen L. Weihs  
*University of Arizona*

- 82. ASSOCIATION BETWEEN SEROTONIN TRANSPORTER (SERT) RISK ALLELES AND PARIETAL EEG ASYMMETRY**  
Andrew W. Bismark<sup>1</sup>, Jennifer L. Stewart<sup>1,2</sup>, James A. Coan<sup>3</sup>, & John J.B. Allen<sup>1</sup>  
<sup>1</sup>University of Arizona, <sup>2</sup>University of California, San Diego, <sup>3</sup>University of Virginia
- 83. 24-MONTH-OLD CHILDREN SHOW DIFFERENT PATTERNS OF RSA SUPPRESSION IN FEAR-ELICITING SOCIAL AND NON-SOCIAL CONTEXTS**  
Elizabeth L. Davis & Kristin A. Buss  
*The Pennsylvania State University*
- 84. I DIDN'T KNOW YOU WERE GOING TO SAY THAT: A LEFT-LATERALIZED NEGATIVE BRAIN POTENTIAL FOR SENTENCES OF MODERATELY STRONG CONSTRAINT**  
Edward W. Wlotko & Kara D. Federmeier  
*University of Illinois at Urbana-Champaign*
- 85. ARE THE CEREBRAL HEMISPHERES DIFFERENTIALLY SENSITIVE TO CHANGING LINGUISTIC PROBABILITIES?**  
Jeremy K. Boyd & Kara D. Federmeier  
*University of Illinois at Urbana-Champaign*
- 86. IT'S ALL IN THE FAMILY: BRAIN ASYMMETRY AND SYNTACTIC PROCESSING**  
Chia-lin Lee & Kara D. Federmeier  
*University of Illinois at Urbana-Champaign*
- 87. A "CONCRETE VIEW" OF AGING: ERPS REVEAL AGE-RELATED CHANGES IN BASIC INTEGRATIVE PROCESSES IN LANGUAGE**  
Hsu-Wen Huang<sup>1</sup>, Aaron M. Meyer<sup>2</sup>, & Kara D. Federmeier<sup>1</sup>  
<sup>1</sup>University of Illinois at Urbana-Champaign, <sup>2</sup>Northwestern University
- 88. LINKING THE EYES AND THE BRAIN: ERP AND EYETRACKING EFFECTS OF ON-LINE AMBIGUITY RESOLUTION OF NOUN/VERB HOMOGRAPHS**  
Mallory C. Stites, Chia-Lin Lee, Kara D. Federmeier, Xuefei Gao, & Elizabeth A. Stine-Morrow  
*University of Illinois at Urbana-Champaign*

- 89. CONTRIBUTIONS OF CONCEPTUAL PRIMING AND RECOLLECTION TO THE DM EFFECT**  
Laura E. Matzen<sup>1</sup> & Kara D. Federmeier<sup>2</sup>  
<sup>1</sup>*Sandia National Laboratories*, <sup>2</sup>*University of Illinois at Urbana-Champaign*
- 90. THE EFFECTS OF METHYLPHENIDATE ON RESPONSE ACTIVATION AND SELECTIVE RESPONSE INHIBITION IN A FLANKER TASK: PERFORMANCE AND EVENT RELATED POTENTIALS**  
Kelly Wheaton, Rafael Klorman, Andrea Burgio-Murphy, Joan E. Thatcher, & Thomas E. Gift  
*University of Rochester*
- 91. EFFECTS OF MINDFULNESS BASED STRESS REDUCTION (MBSR) ON ELDERS' ALPHA POWER ASYMMETRY**  
Rafael Klorman<sup>1</sup>, Paul Duberstein<sup>1</sup>, Nancy Talbot<sup>1</sup>, Michael Krasner<sup>1</sup>, Kirk W. Brown<sup>2</sup>, & Jan Moynihan<sup>1</sup>  
<sup>1</sup>*University of Rochester*, <sup>2</sup>*Virginia Commonwealth University*
- 92. THE EFFECTS OF SMOKING ABSTINENCE ON IMPULSIVE BEHAVIOR AMONG SMOKERS HIGH AND LOW IN ADHD SYMPTOMS**  
Rebecca L. Ashare & Larry W. Hawk  
*State University of New York at Buffalo*
- 93. THE EFFECT OF REWARDS ON NEURAL CORRELATES OF SELF-REGULATION IN ADHD**  
Keri Shiels, Larry W. Hawk, & Nicholas F. Albino  
*University at Buffalo*
- 94. INFLUENCE OF ANXIETY ON CORTICAL AND BEHAVIOURAL RESPONSES TO THE IOWA GAMBLING TASK**  
Marta Bianchin<sup>1</sup>, Andreas Mühlberger<sup>2</sup>, Paul Pauli<sup>2</sup>, & Alessandro Angrilli<sup>1</sup>  
<sup>1</sup>*University of Padova*, <sup>2</sup>*University of Würzburg*
- 95. LACK OF STARTLE BLINK POTENTIATION TO FEAR-RELEVANT PICTURES IN BLOOD PHOBICS**  
Giulia Buodo, Michela Sarlo, & Daniela Palomba  
*University of Padova*

- 96. SHORT-TERM PLASTIC N150 MODULATION MARKS WORD POSITION EFFECTS ON STIMULUS RECOGNITION**  
Chiara Spironelli, Giovanni Galfano, Carlo Umiltà, & Alessandro Angrilli  
*University of Padova*
- 97. CHOOSING THE LESSER EVIL: ELECTROPHYSIOLOGICAL CORRELATES OF MORAL JUDGMENT**  
Andrea Manfrinati, Michela Sarlo, Lorella Lotto, Daniela Palomba, Germano Gallicchio, & Rino Rumiati  
*University of Padova*
- 98. CARDIAC AUTONOMIC ACTIVITY IN PRIMARY INSOMNIA: A HRV STUDY**  
Naima Covassin, Massimiliano de Zambotti, Michela Sarlo, Giuliano De Min Tona, Serena Rabini, & Luciano Stegagno  
*University of Padova*
- 99. CARDIOVASCULAR ACTIVITY DURING SLEEP IN PRIMARY INSOMNIA**  
Massimiliano de Zambotti, Naima Covassin, Giuliano De Min Tona, Michela Sarlo, Yuri Maddalena, & Luciano Stegagno  
*University of Padova*
- 100. THE ATTENTIONAL BIAS IN BLOOD PHOBIA: AN ERP STUDY OF TASK-SWITCHING**  
Andrea Devigili, Michela Sarlo, Germano Gallicchio, & Marianna Munafò  
*University of Padova*
- 101. INCREASED CORTICOSPINAL EXCITABILITY INDUCED BY UNPLEASANT VISUAL STIMULI**  
Ottmar V. Lipp, Carlos M. Coelho, Welber Marinovic, & Stephan Riek  
*The University of Queensland*
- 102. THE PRESENCE OF HIGH FREQUENCY POWER DURING SLOW PACED BREATHING**  
Ben Allen, Thomas J. Pardikes, & Bruce H. Friedman  
*Virginia Tech*

**103. POSITIVE EMOTION REDUCES AFFECTIVE AND SENSORY DIMENSIONS OF DYSPNEA DURING SLOW-PACED BREATHING**

Ben Allen & Bruce H. Friedman

*Virginia Tech*

**104. P3 AMPLITUDE REDUCTION RECORDED FROM 14-YEAR-OLDS PREDICTS THE DEVELOPMENT OF A SUBSTANCE USE DISORDER BY AGE 17**

Greg Perlman, Abe Markin, Steve M. Malone, & William G. Iacono

*University of Minnesota, Twin Cities*

**105. DECOMPOSING THE MISMATCH NEGATIVITY USING TIME-FREQUENCY ANALYSIS**

Dragana Vidovic<sup>1</sup>, Edward M. Bernat<sup>2</sup>, Scott J. Burwell<sup>1</sup>, Micah A. Hammer<sup>1</sup>, Ian B. McLaughlin<sup>1</sup>, Daniel W. Bedford<sup>1</sup>, Jonathan A. Klaphake<sup>1</sup>, Casey S. Gilmore<sup>1</sup>, William G. Iacono<sup>1</sup>, & Stephen M. Malone<sup>1</sup>

<sup>1</sup>*University of Minnesota*, <sup>2</sup>*Florida State University*

**106. ERP AND PERSONALITY CORRELATES OF EXECUTIVE CONTROL: TIME-FREQUENCY DECOMPOSITION OF THE GO/NOGO ERP TASK IN ADOLESCENT SUBJECTS**

Ian B. McLaughlin<sup>1</sup>, Edward M. Bernat<sup>2</sup>, Dragana Vidovic<sup>1</sup>, Scott J. Burwell<sup>1</sup>, Micah A. Hammer<sup>1</sup>, Daniel W. Bedford<sup>1</sup>, Jonathan A. Klaphake<sup>1</sup>, Casey S. Gilmore<sup>1</sup>, William G. Iacono<sup>1</sup>, & Stephen M. Malone<sup>1</sup>

<sup>1</sup>*University of Minnesota*, <sup>2</sup>*Florida State University*

**107. REDUCED INTERTRIAL EEG PHASE SYNCHRONY AND SUBSTANCE ABUSE**

Scott J. Burwell<sup>1</sup>, Stephen M. Malone<sup>1</sup>, Edward M. Bernat<sup>2</sup>, Selin Aviyente<sup>3</sup>, Micah A. Hammer<sup>1</sup>, Ian B. McLaughlin<sup>1</sup>, Dragana Vidovic<sup>1</sup>, Henry H. Yoon<sup>4</sup>, & William G. Iacono<sup>1</sup>

<sup>1</sup>*University of Minnesota*, <sup>2</sup>*Florida State University*,

<sup>3</sup>*Michigan State University*, <sup>4</sup>*Augsburg College*

**108. DEFICIENT FEAR-POTENTIATED STARTLE IN NON-CRIMINAL PSYCHOPATHS ASSESSED BY PPI-R: THE FEARLESSNESS FACTOR**

Rosario Poy, Pilar Segarra, Àngels Esteller, Raúl López, Alicia Fonfría, & Javier Moltó

*Universitat Jaume I*

- 109. STARTLE REFLEX LATENCY AS AN ADDITIONAL INDICATOR OF MOTIVATIONAL ENGAGEMENT: A STUDY OF SMOKING CUES REACTIVITY**  
Pilar Segarra, Rosario Poy, Raúl López, Àngels Esteller, Alicia Fonfría, & Javier Moltó  
*Universitat Jaume I*
- 110. REDUCED CONTEXTUAL FEAR IN SUBCLINICAL PSYCHOPATHS WITHIN A THREAT OF SHOCK PARADIGM**  
Raúl López, Rosario Poy, Àngels Esteller, Pilar Segarra, Alicia Fonfría, & Javier Moltó  
*Universitat Jaume I*
- 111. PSYCHOPATHY-RELATED DIFFERENCES IN CONTEXTUAL FEAR WITHIN A PICTURE VIEWING TASK**  
Rosario Poy, Àngels Esteller, Pilar Segarra, Raúl López, Alicia Fonfría, & Javier Moltó  
*Universitat Jaume I*
- 112. CARDIAC DEFENSE RESPONSE AND SUBCLINICAL PSYCHOPATHY**  
Àngels Esteller, Pilar Segarra, Alicia Fonfría, Rosario Poy, Raúl López, M. Carmen Pastor, M. Mar Molés, & Javier Moltó  
*Universitat Jaume I*
- 113. PSYCHOPATHY AND CONTEXTUAL FEAR WITHIN AN AVERSIVE CONDITIONING TASK: THE FEARLESS FACTOR**  
Raúl López, Rosario Poy, Pilar Segarra, Àngels Esteller, Alicia Fonfría, & Javier Moltó  
*Universitat Jaume I*
- 114. FACILITATED EMOTIONAL PROCESSING OF COCAINE-RELATED STIMULI IN COCAINE PATIENTS: AN ERP STUDY**  
Javier Moltó<sup>1</sup>, Rosario Poy<sup>1</sup>, Àngels Esteller<sup>1</sup>, Pilar Segarra<sup>1</sup>, Raúl López<sup>1</sup>, Alicia Fonfría<sup>1</sup>, M. José Marqué<sup>2</sup>, Victoria Vicente<sup>2</sup>, & Juan José Llopis<sup>1,2</sup>  
<sup>1</sup>*Universitat Jaume I*, <sup>2</sup>*Addictive Behaviors Service 02 (Generalitat Valenciana)*

- 115. COCAINE-RELATED STIMULI ACTIVATE APPETITIVE SYSTEM IN COCAINE PATIENTS**  
Javier Moltó<sup>1</sup>, Rosario Poy<sup>1</sup>, Pilar Segarra<sup>1</sup>, Àngels Esteller<sup>1</sup>, Raúl López<sup>1</sup>, Alicia Fonfría<sup>1</sup>, Victoria Vicente<sup>2</sup>, M. José Marqué<sup>2</sup>, & Juan José Llopis<sup>1,2</sup>  
<sup>1</sup>*Universitat Jaume I*, <sup>2</sup>*Addictive Behaviors Service 02 (Generalitat Valenciana)*
- 116. ACUTE AEROBIC EXERCISE AND SPATIAL INHIBITION**  
Keita Kamijo<sup>1,2</sup>, Chien-Ting Wu<sup>1</sup>, John Polich<sup>3</sup>, & Charles H. Hillman<sup>1</sup>  
<sup>1</sup>*University of Illinois at Urbana-Champaign*, <sup>2</sup>*Japan Society for the Promotion of Science*, <sup>3</sup>*The Scripps Research Institute*
- 117. FROM ERPS TO ACADEMICS**  
Matthew B. Pontifex<sup>1</sup>, Kevin C. O’Leary<sup>1</sup>, Christopher R. Johnson<sup>1</sup>, Mark R. Scudder<sup>1</sup>, Lauren B. Raine<sup>1</sup>, Robert W. Motl<sup>1</sup>, Darla M. Castelli<sup>2</sup>, & Charles H. Hillman<sup>1</sup>  
<sup>1</sup>*University of Illinois at Urbana-Champaign*, <sup>2</sup>*University of Texas at Austin*
- 118. THE EFFECTS OF SINGLE BOUTS OF AEROBIC EXERCISE, VIDEOGAME PLAY, AND EXERGAMING ON ATTENTIONAL CONTROL**  
Kevin C. O’Leary, Mark R. Scudder, Michael L. Brown, Timothy R. Gilbert, Zachary A. Flynn, Matthew B. Pontifex, & Charles H. Hillman  
*University of Illinois at Urbana-Champaign*
- 119. AEROBIC FITNESS AND INTRA-INDIVIDUAL VARIABILITY IN PREADOLESCENT CHILDREN**  
Chien-Ting Wu, Matthew B. Pontifex, Kevin C. O’Leary, Mark R. Scudder, Lauren B. Raine, Christopher R. Johnson, & Charles H. Hillman  
*University of Illinois at Urbana-Champaign*
- 120. GENERALIZATION OF ENHANCED (EVALUATIVE) PROCESSING OF SNAKES AND SPIDERS IN INDIVIDUALS WITH HIGH SNAKE/SPIDER FEAR**  
Kimberley M. Mallan & Ottmar V. Lipp  
*The University of Queensland*

**121. ATTENTIONAL STARTLE MODULATION IN A SPATIAL CUEING TASK**

Sakinah S. J. Alhadad & Ottmar V. Lipp  
*The University of Queensland*

**122. DEEP BRAIN STIMULATION OF SUB-CALLOSAL CINGULATE CORTEX AND FRONTAL THETA POWER IN PATIENTS WITH TREATMENT RESISTANT DEPRESSION**

James M. Broadway<sup>1</sup>, Matthew R. Hilimire<sup>1</sup>, Nathan A. Parks<sup>2</sup>, Jordan E. DeVlyder<sup>3</sup>, Paul M. Corballis<sup>1</sup>, Helen S. Mayberg<sup>4</sup>, & Paul E. Holtzheimer<sup>4</sup>

<sup>1</sup>*Georgia Institute of Technology*, <sup>2</sup>*University of Illinois at Urbana-Champaign*, <sup>3</sup>*Columbia University*, <sup>4</sup>*Emory University*

**123. DEEP BRAIN STIMULATION OF SUBCALLOSAL CINGULATE FOR TREATMENT RESISTANT DEPRESSION REDUCES SELF-NEGATIVITY BIAS: EEG AND BEHAVIORAL EVIDENCE**

Matthew R. Hilimire<sup>1</sup>, James M. Broadway<sup>1</sup>, Jordan E. DeVlyder<sup>2</sup>, Nathan A. Parks<sup>3</sup>, Paul M. Corballis<sup>1</sup>, Paul E. Holtzheimer<sup>4</sup>, & Helen S. Mayberg<sup>4</sup>

<sup>1</sup>*Georgia Institute of Technology*, <sup>2</sup>*Columbia University*, <sup>3</sup>*University of Illinois at Urbana-Champaign*, <sup>4</sup>*Emory University*

**124. SPATIALLY MEDIATED COMPETITION IN THE VISUAL SYSTEM AFFECTS BOTH TARGET AND DISTRACTOR PROCESSING: AN ERP STUDY**

Matthew R. Hilimire<sup>1</sup>, Jeffrey R. W. Mounts<sup>2</sup>, Nathan A. Parks<sup>3</sup>, & Paul M. Corballis<sup>1</sup>

<sup>1</sup>*Georgia Institute of Technology*, <sup>2</sup>*State University of New York at Geneseo*, <sup>3</sup>*University of Illinois at Urbana-Champaign*

**125. MOTOR INHIBITION IN YOUNG ADULTS AS A FUNCTION OF PRENATAL EXPOSURE TO ALCOHOL AND CHILDHOOD ADHD: PERFORMANCE AND EVENT-RELATED POTENTIALS**

Anna Gekker<sup>1</sup>, Rafael Klorman<sup>1</sup>, Matthew J. Burden<sup>2</sup>, Malcolm J. Avison<sup>3</sup>, Joseph L. Jacobson<sup>4</sup>, & Sandra W. Jacobson<sup>4</sup>

<sup>1</sup>*University of Rochester*, <sup>2</sup>*Swanson Center*, <sup>3</sup>*Vanderbilt University*, <sup>4</sup>*Wayne State University*

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- 126. TRAINING EFFECTS ON NEURONAL CORRELATES OF THE OWN-RACE BIAS**  
Johanna Stahl, Holger Wiese, & Stefan R. Schweinberger  
*Friedrich Schiller University of Jena*
- 127. PERCEIVING AGE AND GENDER IN UNFAMILIAR FACES: AN FMRI STUDY ON FACE CATEGORIZATION**  
Nadine Kloth, Holger Wiese, Daniel Güllmar, Jürgen R. Reichenbach, & Stefan R. Schweinberger  
*Friedrich Schiller University of Jena*
- 128. THE EFFECTS OF DEPRESSION ON YOUR COGNITIVE BRAKES: EVIDENCE FROM EVENT RELATED POTENTIALS**  
Jason W. Kropf, Kate Chernow, Robert Henderson, Julia Janes, & Robert F. Simons  
*University of Delaware*
- 129. OH NO! OH WELL: ALCOHOL IMPAIRS POST-ERROR ADJUSTMENT OF COGNITIVE CONTROL**  
Sarah A. Lust, J. S. Saults, & Bruce D. Bartholow  
*University of Missouri*
- 130. THE EFFECTS OF INDIVIDUAL DIFFERENCES IN EMOTION REGULATION AND ALCOHOL ON ERROR DISTRESS**  
Erika A. Henry & Bruce D. Bartholow  
*University of Missouri*
- 131. TESTOSTERONE AND ANGER IN RESPONSE TO SOCIAL REJECTION**  
Carly K. Peterson & Eddie Harmon-Jones  
*Texas A&M University*
- 132. CONTRALATERAL MOTOR CORTEX EEG MU RHYTHM SUPPRESSION TO WATCHING MOTOR BEHAVIOR**  
Laura C. Gravens, Tom F. Price V, & Eddie Harmon-Jones  
*Texas A&M University*
- 133. HOW LARGE IS YOUR ERROR? AN EXAMINATION OF THE ERPS ELICITED BY ERRORS OF VARYING DEGREE**  
Kristen Goforth, Yael Arbel, Summer Clay, Ryan Paulson, & Emanuel Donchin  
*University of South Florida*

- 134. COMPARING THE VON RESTORFF EFFECT AND THE WORD FREQUENCY EFFECT ON FREE RECALL: A SUBSEQUENT MEMORY STUDY**  
Siri-Maria Kamp & Emanuel Donchin  
*University of South Florida*
- 135. ALCOHOL EXPECTANCIES AND ERROR MONITORING IN ADOLESCENTS: DEVELOPMENTAL CHANGES REFLECTED IN EVENT-RELATED POTENTIALS**  
Ty Brumback, Mark S. Goldman, & Emanuel Donchin  
*University of South Florida*
- 136. MOTIVATIONAL VALUE OF PRIMARY AND SECONDARY REINFORCERS AS INDEXED BY THE MFN**  
Krista G. Yakub & Geoffrey F. Potts  
*University of South Florida*
- 137. THE PROCESSING OF REDUNDANT FEEDBACK BY CHILDREN – AN ANALYSIS OF THE ERROR RELATED ERP COMPONENTS**  
Yael Arbel & Emanuel Donchin  
*University of South Florida*
- 138. EMOTIONAL PROCESSING AND INHIBITORY CONTROL IN CRIMINAL OFFENDERS**  
Jenessa Sprague, Naomi Sadeh, & Edelyn Verona  
*University of Illinois at Urbana-Champaign*
- 139. EMOTIONAL AND PSYCHOPHYSIOLOGICAL MECHANISMS INVOLVED IN BODY DISSATISFACTION: A STARTLE PARADIGM**  
Blanca Ortega-Roldán, Sonia Rodríguez-Ruiz, Sandra Díaz, M. Carmen Fernández, & Jaime Vila  
*University of Granada*
- 140. BETA-BAND ACTIVITY AS A CORRECTNESS PREDICTOR IN A SUSTAINED ATTENTION TASK**  
Mateusz K. Gola<sup>1</sup>, Jan K. Kamiński<sup>2</sup>, Aneta Brzezicka<sup>1</sup>, & Andrzej Wróbel<sup>2</sup>  
<sup>1</sup>*Warsaw School of Social Sciences and Humanities,*  
<sup>2</sup>*Nencki Institute*

**141. TIME COURSE OF ATTENTIONAL BIAS DISTINGUISHES ANXIETY, DEPRESSION, AND THEIR COMORBIDITY**

Sarah M. Sass, Wendy Heller, Joscelyn E. Fisher, Rebecca Silton, Jennifer L. Stewart, Laura D. Crocker, J. Christopher Edgar, & Gregory A. Miller  
*University of Illinois at Urbana-Champaign*

**142. EARLY-STAGE VISUAL PROCESSING ABNORMALITIES IN AUTISM SPECTRUM DISORDER (ASD)**

Joshua M. Baruth, Manuel F. Casanova, Lonnie Sears, & Estate Sokhadze  
*University of Louisville*

**143. TIME COURSE OF TRUSTWORTHINESS JUDGMENTS OF FACES**

Dingcheng Wu<sup>1</sup>, Gizelle Anzures<sup>2</sup>, Fengling Ma<sup>1</sup>, Fen Xu<sup>1</sup>, & Kang Lee<sup>2</sup>  
<sup>1</sup>State Key Laboratory of Cognitive Neuroscience and Learning, <sup>2</sup>Institute of Child Study

**144. DIFFERENTIAL MARIJUANA CUE-REACTIVITY IN THE LATE-POSITIVE POTENTIAL IN SMOKERS AND NON-SMOKERS**

Jesse T. Kaye & Tiffany A. Ito  
*University of Colorado at Boulder*

**145. REWARD COUNTERACTS CONFLICT-DRIVEN ADAPTATIONS IN COGNITIVE CONTROL: EVIDENCE FROM BEHAVIORAL AND PHYSIOLOGICAL MEASURES**

Henk van Steenbergen  
*Leiden University Institute of Psychology*

**146. BOTH TRAIT ANXIETY ASSOCIATIONS AND DOPAMINE ANTAGONIST-INDUCED REDUCTIONS OF THE ERROR-RELATED NEGATIVITY ARE MODERATED BY THE D2 RECEPTOR GENE**

Erik M. Mueller<sup>1</sup>, Gerhard Stemmler<sup>1</sup>, Jürgen Hennig<sup>2</sup>, & Jan Wacker<sup>1</sup>  
<sup>1</sup>Marburg University, <sup>2</sup>University of Giessen

- 147. FAST, NON-GENOMIC EFFECTS OF CORTISOL ON CEREBRAL BLOOD FLOW IN 26 HEALTHY MEN—A CONTINUOUS ARTERIAL SPIN LABELING (CASL) STUDY**  
Florian Strelzyk<sup>1</sup>, Michael Hermes<sup>2</sup>, Ewald Naumann<sup>2</sup>, Melly S. Oitzl<sup>3</sup>, & Hartmut Schächinger<sup>1</sup>  
<sup>1</sup>*University of Trier, Department of Clinical Physiology,*  
<sup>2</sup>*University of Trier, Psychophysiological Laboratory,*  
<sup>3</sup>*Leiden/Amsterdam Center for Drug Research and Leiden University Medical Center*
- 148. ERN ACROSS ADULTHOOD AND IN PATHOLOGICAL AGING—CONTRIBUTIONS OF COGNITIVE FUNCTION AND AGE**  
Franka Glöckner, Daria Antonenko, Thomas Elbert, & Iris-Tatjana Kolassa  
*University of Konstanz*
- 149. CHILDREN'S VAGAL REGULATORY CAPACITY PREDICTS ATTENUATED SYMPATHETIC STRESS REACTIVITY IN A SOCIALLY SUPPORTIVE CONTEXT: EVIDENCE FOR A PROTECTIVE EFFECT OF THE VAGAL SYSTEM**  
Brian C. Wolff<sup>1</sup>, Martha E. Wadsworth<sup>2</sup>, Frank H. Wilhelm<sup>3</sup>, & Iris B. Mauss<sup>2</sup>  
<sup>1</sup>*University of Colorado, Denver,* <sup>2</sup>*University of Denver,*  
<sup>3</sup>*University of Basel*
- 150. AGGRESSIVE DRIVING BEHAVIOR: THE P300 IN RESPONSE TO AGGRESSIVE AND NORMAL ROAD EVENTS**  
Amy L. Panczakiewicz<sup>1</sup>, Rebecca J. Houston<sup>1</sup>, & Changxu Wu<sup>2</sup>  
<sup>1</sup>*Research Institute on Addictions, University at Buffalo,*  
<sup>2</sup>*University at Buffalo*
- 151. IMPAIRED RESPONSE ACTIVATION AND INHIBITION IN SCHIZOPHRENIA PATIENTS: EVIDENCE FROM EVENT-RELATED POTENTIALS**  
Emily S. Kappenman<sup>1</sup>, Steve J. Luck<sup>1</sup>, Shaun Rafael<sup>1</sup>, Tara Niendam<sup>1</sup>, Marjorie Solomon<sup>1</sup>, Ann Kring<sup>2</sup>, J. Daniel Ragland<sup>1</sup>, Charan Ranganath<sup>1</sup>, Tamara Swaab<sup>1</sup>, & Cameron S. Carter<sup>1</sup>  
<sup>1</sup>*University of California, Davis,* <sup>2</sup>*University of California, Berkeley*

- 152. DUAL EFFECTS OF PERSEVERATIVE COGNITION: AFRICAN AMERICANS AND THE CARDIOVASCULAR CONUNDRUM**  
LaBarron K. Hill<sup>1</sup>, John J. Sollers III<sup>2</sup>, & Julian F. Thayer<sup>1</sup>  
<sup>1</sup>*The Ohio State University*, <sup>2</sup>*The University of Auckland, New Zealand*
- 153. ERP CORRELATES OF SWITCHING ATTENTION, RESPONSES, AND COGNITIVE OPERATIONS IN A TASK-SWITCHING PARADIGM**  
Jamie N. Hershaw & Paul D. Kieffaber  
*College of William and Mary*
- 154. FEELING BAD ABOUT WHAT “WE” HAVE DONE: THE P300 AS A MARKER OF COLLECTIVE GUILT IN AN INTERGROUP TRANSGRESSION**  
Martin Henrion & Eric J. Vanman  
*The University of Queensland*
- 155. PROCESSES UNDERLYING THE REPETITION BIAS IN VOLUNTARY TASK SWITCHING**  
Kimberley Vandamme, Arnaud Szmalec, Baptist Liefoghe, & André Vandierendonck  
*Ghent University*
- 156. RHYTHM OF PERCEPTION AND ATTENTION: AN OEP STUDY OF TEMPORAL ATTENTION**  
Molly A. Erickson, Benjamin A. Motz, & William P. Hetrick  
*Indiana University*
- 157. EMOTION REGULATION AND POSTTRAUMATIC STRESS SYMPTOMS: AN ERP STUDY IN A SAMPLE OF TRAUMA-EXPOSED COLLEGE STUDENTS**  
Isabela V. P. Lobo<sup>1</sup>, Letícia Oliveira<sup>1</sup>, Isabel P. A. David<sup>1</sup>, Rafaela R. Campagnoli<sup>2</sup>, Mirtes G. Pereira<sup>1</sup>, Eliane Volchan<sup>2</sup>, & Izabela Mocaiber<sup>1</sup>  
<sup>1</sup>*Fluminense Federal University*, <sup>2</sup>*Federal University of Rio de Janeiro*

- 158. YES, BUT IS IT ART?: AN EVENT-RELATED POTENTIAL STUDY OF VISUAL DECISIONS**  
Heather Henkell<sup>1</sup>, Seonhye Park<sup>2</sup>, Amit Sharma<sup>2</sup>, John Zhu<sup>2</sup>, & Ray Johnson Jr.<sup>2</sup>  
<sup>1</sup>*The Graduate Center—City University of New York*,  
<sup>2</sup>*Queens College—City University of New York*
- 159. INCREASED N100 AMPLITUDE TO IN-GROUP FACES PREDICTS MORE ACCURATE RECOGNITION**  
Emily M. Stanley, Eric Hehman, & Robert Simons  
*University of Delaware*
- 160. AMYGDALA HABITUATION TO UNPLEASANT PICTURES PREDICTS RESPONSE TO DIALECTICAL BEHAVIOR THERAPY IN BORDERLINE PATIENTS**  
Erin A. Hazlett<sup>1</sup>, Marianne Goodman<sup>1</sup>, Kim E. Goldstein<sup>2</sup>, Jennifer Avedon<sup>1</sup>, Harold Koenigsberg<sup>1</sup>, Larry J. Siever<sup>1</sup>, & Antonia S. New<sup>1</sup>  
<sup>1</sup>*Mount Sinai School of Medicine*, <sup>2</sup>*Temple University*
- 161. NEURAL CORRELATES OF PICTURE PROCESSING: MOTIVE CIRCUITS & DEPRESSION**  
Lisa M. McTeague, Vincent D. Costa, Margaret M. Bradley, & Peter J. Lang  
*University of Florida*

**Poster Session II**  
**Friday, October 1, 2010**

*Poster Session Schedule*

8:00 A.M.—10:00 A.M.	Posters Assembled
10:00 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. PUTTING SYNTACTIC TABS ON SEMANTIC RELATEDNESS: AN ERP STUDY OF BRAZILIAN PORTUGUESE WORDS**  
 Juliana Novo Gomes & Anieli Improta França  
*Federal University of Rio de Janeiro*
- 2. IN-SITU MEASUREMENT OF ELECTRODERMAL ACTIVITY DURING OCCUPATIONAL THERAPY**  
 Elliott B. Hedman<sup>1</sup>, Rosalind W. Picard<sup>1</sup>, Lucy J. Miller<sup>2</sup>, & Matthew S. Goodwin<sup>1</sup>  
<sup>1</sup>*Massachusetts Institute of Technology*, <sup>2</sup>*Sensory Processing Disorder Foundation*
- 3. ELECTROPHYSIOLOGY OF FACIAL EMOTION MEMORY AND SCHIZOTYPAL TRAITS**  
 Colleen A. Brenner, Samuel P. Rumak, Amy Burns, & Sara Grant-Weaver  
*University of British Columbia*
- 4. STEADY STATE AUDITORY ENTRAINMENT IN SCHIZOPHRENIA AND BIPOLAR DISORDER**  
 Amy Burns<sup>1</sup>, Hetrick P. William<sup>2</sup>, Brian F. O'Donnell<sup>2</sup>, & Colleen A. Brenner<sup>1</sup>  
<sup>1</sup>*University of British Columbia*, <sup>2</sup>*Indiana University—Bloomington*
- 5. RESPIRATORY SINUS ARRHYTHMIA, DISTRESS TOLERANCE, EMOTION REGULATION AND DEPRESSED MOOD AS PSYCHOBIOLOGICAL CORRELATES OF BINGE-EATING DISORDER—A PILOT STUDY**  
 Eunice Y. Chen, Karla Fettich, Johnny Berona, Jessica Weissman, Kara Christensen, Matthew Southward, Caroline Taromino, Megan Nelson, & Haotian Zhou  
*The University of Chicago*

6. **ANHEDONIA AS PREDICTOR OF BASELINE RSA IN EATING DISORDERS**  
Karla Fettich & Eunice Chen  
*The University of Chicago*
7. **EMOTIONAL IMPULSIVITY PREDICTS TREATMENT RESPONSE IN WOMEN WHO BINGE EAT: AN EXPLORATORY STUDY**  
Eunice Y. Chen, Karla Fettich, Jessica Weissman, Johnny Berona, Matthew Southward, Kara Christensen, Caroline Taromino, Megan Nelso, & Haotian Zhou  
*The University of Chicago*
8. **LONG DISTANCE NEURAL SYNCHRONY DURING AFFECTIVE IMAGE VIEWING**  
Vladimir Miskovic & Louis A. Schmidt  
*McMaster University*
9. **ELABORATING THE TIME COURSE OF THE EMOTION MODULATED STARTLE REFLEX IN DYSPHORIA**  
Lauren E. Taubitz, Jordan S. Robinson, & Christine L. Larson  
*University of Wisconsin, Milwaukee*
10. **TOPOLOGICAL CHANGES IN THE ELECTROPHYSIOLOGICAL RESPONSE TO CONFLICT IMPLICATE THE LOCUS COERULEUS-NOREPINEPHRINE SYSTEM**  
Christopher M. Warren, James W. Tanaka, & Clay B. Holroyd  
*University of Victoria*
11. **REPETITION ENHANCES RECOLLECTION IN OLDER ADULTS AND ENGENDERS AGE-EQUIVALENT EPISODIC-MEMORY RETRIEVAL PERFORMANCE**  
David Friedman<sup>1</sup>, Raymond Johnson<sup>2</sup>, Julianna Kulik<sup>3</sup>, Yuji Yi<sup>1</sup>, & Timothy Martin<sup>3</sup>  
<sup>1</sup>*Columbia University Medical Center*, <sup>2</sup>*Queens College–City University of New York*, <sup>3</sup>*NY Psychiatric Institute*

**12. ELECTROPHYSIOLOGICAL CORRELATES OF ABNORMAL PROSODY PROCESSING IN SCHIZOPHRENIA**

Margaret A. Niznikiewicz<sup>1</sup>, Ana Pinheiro<sup>2</sup>, Jenna Mezin<sup>3</sup>, Adrianna Rauber<sup>2</sup>, Elizabetta Del Re<sup>3</sup>, Robert W. McCarley<sup>1</sup>, & Oscar Goncalves<sup>2</sup>

<sup>1</sup>Harvard Medical School, <sup>2</sup>University of Minho, Portugal, <sup>3</sup>Boston VA Medical Center

**13. NEURAL CORRELATES OF AUTOMATIC ATTENTION IN TOUCH: EVENT RELATED POTENTIAL AND BEHAVIOURAL MEASURES**

Alexander Jones & Bettina Forster

City University London

**14. ROLE OF INTERTRIAL PHASE SYNCHRONY IN PREDICTING P300 AMPLITUDE AND EXTERNALIZING PRONENESS**

Lindsay D. Nelson<sup>1</sup>, Edward A. Descallar<sup>1</sup>, Jeremy B. Harper<sup>1</sup>, Christopher J. Patrick<sup>1</sup>, Selin Aviyente<sup>2</sup>, & Edward M. Bernat<sup>1</sup>

<sup>1</sup>Florida State University, <sup>2</sup>Michigan State University

**15. HERITABILITY OF LPP IN A PICTURE-VIEWING PARADIGM WITHIN A COMMUNITY TWIN SAMPLE**

Megan D. Lucy, Sarah K. Patrick, Edward M. Bernat, & Christopher J. Patrick

Florida State University

**16. DIFFERING RESPONSES TO STARTLE PROBE STIMULI ACCOUNT FOR UNIQUE VARIANCE IN PSYCHOPATHY FACTOR 1**

Laura E. Drislane, Uma Vaidyanathan, Edward M. Bernat, & Christopher J. Patrick

Florida State University

**17. COHERENCE AMONG VARIANTS OF P3 FROM DIFFERING TASKS AS INDICATORS OF THE ANTISOCIAL DEVIANCE FACTOR OF CRIMINAL PSYCHOPATHY**

Noah C. Venables, Christopher J. Patrick, Kelsey Hohman, Rachel Tennenbaum, & Edward M. Bernat

Florida State University

- 18. LEFT ANTERIOR CORTICAL ACTIVITY IS ASSOCIATED WITH INCREASED RISK TAKING DURING A SIMULATED SLOT MACHINE TASK**  
Daniel E. Everhart<sup>1</sup>, Heath A. Demaree<sup>2</sup>, Alicia M. Moran<sup>1</sup>, Katie A. LeHockey<sup>1</sup>, Claude E. Davis<sup>1</sup>, Jessica D. Hauf<sup>1</sup>, & Jonathan M. Highsmith<sup>1</sup>  
<sup>1</sup>East Carolina University, <sup>2</sup>Case Western Reserve University
- 19. MASKED PRIMING IN SCHIZOPHRENIA: AN EEG STUDY**  
Maya Libben & Dean F. Salisbury  
*Harvard Medical School*
- 20. NICOTINE MODULATES FRONTAL AND CENTRAL AFFECTIVE PROCESSING ACTIVATION IN ADHD SMOKERS AND NONSMOKERS**  
Matthew A. Picchietti & David G. Gilbert  
*Southern Illinois University*
- 21. NICOTINE REDUCES ANTERIOR CINGULATE ACTIVITY DURING PROCESSING OF NEGATIVE PICTURES IN SMOKERS AND NONSMOKERS WITH ADHD**  
Matthew A. Picchietti & David G. Gilbert  
*Southern Illinois University*
- 22. THE EFFECTS OF SLOW WAVE SLEEP DISRUPTION ON POSITIVE AND NEGATIVE WORD RECOGNITION IN DEPRESSED OUTPATIENTS AND HEALTHY CONTROLS**  
Jennifer R. Goldschmied, Philip Cheng, Hyang Sook Kim, Melynda Casement, Robert F. Hoffmann, Roseanne Armitage, & Patricia J. Deldin  
*University of Michigan*
- 23. MEDIOFRONTAL THETA AND PERSONALITY TRAITS**  
Laura Zambrano-Vazquez<sup>1</sup>, James F. Cavanagh<sup>2</sup>, & John J.B. Allen<sup>1</sup>  
<sup>1</sup>University of Arizona, <sup>2</sup>Brown University

**24. THE LATE POSITIVE POTENTIAL AS A NEURAL MARKER FOR THE POSITIVITY BIAS IN EXUBERANT CHILDREN**

Oliver M. Dobrich<sup>1</sup>, Alisa Powers<sup>2</sup>, Lauren V. Saunders<sup>2</sup>, Ellen Kessel<sup>2</sup>, & Tracy A. Dennis<sup>2</sup>

<sup>1</sup>*City College–City University of New York*, <sup>2</sup>*Hunter College–City University of New York*

**25. THE LAW OF INITIAL VALUES WITH RESPIRATION VARIABLES: WHAT IS IT AND CAN WE CORRECT FOR IT?**

Jessica D. Hauf, Claude E. Davis, & Daniel E. Everhart

*East Carolina University*

**26. SEX AND RACE DIFFERENCES IN PHYSIOLOGICAL RESPONSES TO PAINFUL ELECTRODERMAL STIMULATION INDUCED STATE ANXIETY**

Jessica D. Hauf, Claude E. Davis, Daniel E. Everhart, & Kathleen L. Row

*East Carolina University*

**27. AFFECTIVE LATE POSITIVE POTENTIAL (LPP) IS CONSISTENT ACROSS PASSIVE AND INCIDENTAL PICTURE VIEWING: A TIME-FREQUENCY APPROACH**

Lacy A. Olson<sup>1</sup>, Joshua Greenstein<sup>1</sup>, Jeremy Block<sup>1</sup>, Christopher J. Patrick<sup>1</sup>, Selin Aviyente<sup>2</sup>, & Edward M. Bernat<sup>1</sup>

<sup>1</sup>*Florida State University*, <sup>2</sup>*Michigan State University*

**28. EMOTIONAL FACE PROCESSING BIASES IN NEUROTYPICALS WITH EXTREME AUTISTIC TRAITS**

Simona E. Pana, Julia Avram, & Andrei C. Miu

*Babes-Bolyai University*

**29. THE LATE POSITIVE POTENTIAL AS A PREDICTOR OF LONG TERM EMOTIONAL MEMORY**

Jennifer M. DeCicco<sup>1</sup>, Melanie Hong<sup>2</sup>, Alisa Powers<sup>2</sup>, Greg Hajcak<sup>3</sup>, George Bonanno<sup>4</sup>, & Tracy A. Dennis<sup>2</sup>

<sup>1</sup>*The Graduate Center–City University of New York*,

<sup>2</sup>*Hunter College–City University of New York*, <sup>3</sup>*Stony Brook University*, <sup>4</sup>*Teachers College, Columbia University*

- 30. ATTENTION TRAINING CHANGES TASK-RELATED FACE PROCESSING: AN ERP STUDY**  
Laura J. O’Toole<sup>1</sup>, Alina Klimova<sup>2</sup>, & Tracy A. Dennis<sup>2</sup>  
<sup>1</sup>*The Graduate School–City University of New York*,  
<sup>2</sup>*Hunter College–City University of New York*
- 31. NEURAL MEDIATION OF WORKING MEMORY BY PROCESSING SPEED IN OLDER ADULTS**  
M. Amanda Earl Colby<sup>1</sup>, Ilana J. Bennett<sup>1</sup>, Meghana Karnik-Henry<sup>1</sup>, Erin K. Tisdale<sup>1</sup>, Lee A. Jordan<sup>1</sup>, Michael A. Motes<sup>1</sup>, Traci I. Sandoval<sup>1</sup>, & Bart Rypma<sup>1,2</sup>  
<sup>1</sup>*University of Texas at Dallas*, <sup>2</sup>*University of Texas Southwestern Medical Center*
- 32. RIGHT OR WRONG - DO THEY CARE? THE EFFECTS OF TASK DIFFICULTY AND CONSCIENTIOUSNESS ON EARLY RESPONSE-RELATED ERP COMPONENTS**  
Andrea R. Carr & Frances H. Martin  
*University of Tasmania*
- 33. INFORMATIONAL IMPACT OF MASKED AFFECTIVE STIMULI ON MENTAL EFFORT INTENSITY**  
Ruta Lasauskaite, Nicolas Silvestrini, & Guido H. E. Gendolla  
*University of Geneva*
- 34. ANGER PRIMES, SADNESS PRIMES, AND EFFORT-RELATED CARDIAC REACTIVITY**  
Laure Freydefont & Guido H. E. Gendolla  
*University of Geneva*
- 35. CARDIAC REACTIVITY IN ACTIVE COPING: THE JOINT IMPACT OF MONETARY REWARD, TASK DIFFICULTY, AND MANIPULATION CHECKS**  
Michael Richter  
*University of Geneva*
- 36. TRAIT IMPULSIVITY, P300 AND EXECUTIVE FUNCTIONS**  
Rachelle Smith, Julia Kam, & Scott R. Carlson  
*University of British Columbia*
- 37. PRIMED NOGO P300 AMPLITUDE AND IMPULSIVE PERSONALITY SUBTRAITS**  
Megan Graf, Maria Stanciulescu, & Scott R. Carlson  
*University of British Columbia*

- 38. SPATIAL AND VERBAL WORKING MEMORY AND AGE AT FIRST DRINK: AN ERP STUDY**  
Jackson McKee & Scott R. Carlson  
*University of British Columbia*
- 39. ELECTROPHYSIOLOGICAL EFFECTS OF ACUTE COMBINATION PHARMACOTHERAPY ON EXECUTIVE CONTROL OF ATTENTION IN MORNING ABSTINENT SMOKERS USING A MODIFIED WISCONSIN CARD SORTING TASK**  
Dhrasti K. Shah<sup>1,2</sup>, Adam Heenan<sup>1</sup>, Joelle Choueiry<sup>3</sup>, Erin Clough<sup>3</sup>, Natalia Jaworska<sup>3</sup>, Derek Fisher<sup>1</sup>, Vadim Ilivitsky<sup>4</sup>, & Verner Knott<sup>2</sup>  
<sup>1</sup>*Carleton University*, <sup>2</sup>*University of Ottawa Institute of Mental Health Research*, <sup>3</sup>*University of Ottawa*, <sup>4</sup>*Royal Ottawa Mental Health Care Group*
- 40. EFFECTS OF GLUTAMATERGIC-NICOTINIC INTERACTIONS ON BEHAVIOURAL AND P300 RESPONSIVITY DURING SUSTAINED ATTENTION**  
Verner J. Knott<sup>1</sup>, Anne Millar<sup>2</sup>, Judy McIntosh<sup>3</sup>, Crystal Villeneuve<sup>4</sup>, Derek Fisher<sup>5</sup>, Vadim Ilivitsky<sup>6</sup>, & Ed Horn<sup>6</sup>  
<sup>1</sup>*University of Ottawa Institute of Mental Health Research*, <sup>2</sup>*University of Ottawa, Department of Cellular and Molecular Medicine*, <sup>3</sup>*University of Ottawa, Department of Psychology*, <sup>4</sup>*Carleton University, Institute of Cognitive Science*, <sup>5</sup>*Carleton University, Institute of Neuroscience*, <sup>6</sup>*Royal Ottawa Mental Health Centre*
- 41. EVENT-RELATED POTENTIAL AND SLORETA CORRELATES OF SENSORY GATING IN HIGH AND LOW SUPPRESSORS WITH SCHIZOPHRENIA**  
Derek J. Fisher, Alain Labelle, & Verner J. Knott  
*Carleton University, Department of Psychology & Institute of Neuroscience*
- 42. EFFECTS OF NICOTINE ON SENSORY GATING AND ITS SOURCES IN SCHIZOPHRENIA PATIENTS**  
Dylan M. Smith<sup>1</sup>, Bryan Grant<sup>2</sup>, Derek Fisher<sup>3</sup>, Joe Borracci<sup>1</sup>, Alain Labelle<sup>1</sup>, & Verner J. Knott<sup>1</sup>  
<sup>1</sup>*Royal Ottawa Mental Health Centre*, <sup>2</sup>*University of Ottawa*, <sup>3</sup>*Carleton University*

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- 43. FMRI ASSESSED CUE REACTIVITY IN SMOKERS**  
Herman A. Diggs, Andrew Giritharan, Pamela Perschler, Joshua Carlson, Chihiro Sugai, Jordan Wright, Reza Habib, & David G. Gilbert  
*Southern Illinois University*
- 44. DIFFERENTIAL FMRI ACTIVATION TO SMOKING AND EMOTIONAL STIMULI IN SMOKERS AND NONSMOKERS**  
Herman A. Diggs, Josh Carlson, Andrew Giritharan, Jordan Wright, Pamela Perschler, Reza Habib, Chihiro Sugai, & David G. Gilbert  
*Southern Illinois University*
- 45. CAFFEINE DIFFERENTIALLY AFFECTS ERPS RELATED TO INVOLUNTARY (N1) AND VOLUNTARY (P3) ATTENTION**  
Erika K. Reckert & Perry L. Person  
*Rhodes College*
- 46. CAFFEINE, PHYSIOLOGICAL AROUSAL, AND MOOD: THE EFFECTS OF CAFFEINE AND INDUCED MOOD ON BRAIN ACTIVITY, HEART RATE, AND ATTITUDE CHANGE**  
Kelly A. Coney, Perry L. Person, Erika K. Reckert, Sarah Eldridge, Danielle E. Fincher, Madeline R. Scott, & Julia K. Stewart  
*Rhodes College*
- 47. THE EFFECT OF COGNITIVE LOAD ON PROCESSING OF SUBLIMINALLY PRESENTED FACIAL EXPRESSIONS**  
Wioleta Walentowska & Eligiusz Wronka  
*Jagiellonian University*
- 48. FAMILY HISTORY OF STROKE AND TYPE II DIABETES IS RELATED TO GREATER PEP AND RSA REACTIVITY**  
Mardís S. Karlsdóttir, Kaleena Burgess, & Kristen Salomon  
*University of South Florida*
- 49. THE EFFECT OF FAMILY HISTORY OF CARDIOVASCULAR DISEASE ON RSA RECOVERY IS MODIFIED BY ETHNICITY**  
Mardís S. Karlsdóttir, Alvin Jin, & Kristen Salomon  
*University of South Florida*

- 50. THE LATE POSITIVE POTENTIAL TO EMOTIVE FACES AFTER ACUTE TRYPTOPHAN DEPLETION IN INDIVIDUALS WITH A FAMILY HISTORY OF DEPRESSION**  
Natalia Jaworska<sup>1,2</sup>, Andrea Thompson<sup>1,3</sup>, Dhraști Shah<sup>1,3</sup>, Derek Fisher<sup>1,3</sup>, Vadim Ilivitsky<sup>1</sup>, & Verner Knott<sup>1,2,3</sup>  
<sup>1</sup>University of Ottawa Institute of Mental Health Research, <sup>2</sup>University of Ottawa, <sup>3</sup>Carleton University
- 51. EFFECTIVE CONNECTIVITY OF THE RIGHT ANTERIOR INSULAR CORTEX IN ANTICIPATION OF FEEDBACK STIMULUS**  
Yasunori Kotani<sup>1</sup>, Yoshimi Ohgami<sup>1</sup>, Tatsuya Yoshihiro<sup>1</sup>, Tetsuji Tsukamoto<sup>2</sup>, & Yusuke Inoue<sup>3</sup>  
<sup>1</sup>Tokyo Institute of Technology, <sup>2</sup>GE Healthcare Japan, <sup>3</sup>The University of Tokyo
- 52. STIMULUS-PRECEDING NEGATIVITY (SPN) PRIOR TO UNILATERAL VISUAL FEEDBACK STIMULUS: A COMBINED EEG/FMRI STUDY**  
Yoshimi Ohgami<sup>1</sup>, Yasunori Kotani<sup>1</sup>, Tatsuya Yoshihiro<sup>1</sup>, Tetsuji Tsukamoto<sup>2</sup>, & Yusuke Inoue<sup>3</sup>  
<sup>1</sup>Tokyo Institute of Technology, <sup>2</sup>GE Healthcare Japan, <sup>3</sup>The University of Tokyo
- 53. FEELINGS THAT SOMETHING IS WRONG AND ERROR-RELATED NEURAL HYPERACTIVITY**  
Choong-Wan Woo & Seok-Man Kwon  
*Seoul National University*
- 54. FRONTAL EEG ALPHA ACTIVITY AND SHYNESS IN ADULTS WITH AUTISM SPECTRUM DISORDER (ASD)**  
Karen J. Mathewson<sup>1</sup>, Irene E. Drmic<sup>2</sup>, Michelle K. Jetha<sup>1</sup>, Susan E. Bryson<sup>3</sup>, Joel O. Goldberg<sup>2</sup>, & Louis A. Schmidt<sup>1</sup>  
<sup>1</sup>McMaster University, <sup>2</sup>York University, <sup>3</sup>Dalhousie University
- 55. EVENT-RELATED POTENTIALS IN COVERT AND OVERT PROCESSING OF EMOTIONAL STIMULI**  
Fern E. Jaspers-Fayer, Jennifer N. Barrie, & Mario Liotti  
*Simon Fraser University*

- 56. THE NEURAL CORRELATES OF CHOCOLATE CRAVING**  
Deyar Asmaro, Fern Jaspers-Fayer, Valery Sramko, & Mario Liotti  
*Simon Fraser University*
- 57. THETA TO GAMMA RATIO CORRELATES WITH SHORT TERM MEMORY CAPACITY IN HUMANS**  
Jan Kamiński<sup>1</sup>, Aneta Brzezicka<sup>2</sup>, & Andrzej Wróbel<sup>1</sup>  
<sup>1</sup>*Nencki Institute of Experimental Biology*, <sup>2</sup>*Warsaw School of Social Sciences and Humanities*
- 58. OVERT VERSUS COVERT NEURAL PROCESSING OF EMOTIONAL FACES**  
Valery Sramko, Deyar Asmaro, & Mario Liotti  
*Simon Fraser University*
- 59. PLACEBOS REDUCE STRESS: REDUCED STARTLE REFLEXES AFTER ADMINISTRATION OF A PLACEBO**  
Peter S. Lyby, June T. Forsberg, Ole Åsli, & Magne A. Flaten  
*University of Tromsø*
- 60. DIFFERENTIAL STARTLE CUE REACTIVITY IN LIGHT AND HEAVY SMOKERS**  
Yong Cui<sup>1</sup>, Jason D. Robinson<sup>1</sup>, Francesco Versace<sup>1</sup>, Cho Y. Lam<sup>1</sup>, Jennifer A. Minnix<sup>1</sup>, John A. Dani<sup>2</sup>, & Paul M. Cinciripini<sup>1</sup>  
<sup>1</sup>*University of Texas M.D. Anderson Cancer Center*,  
<sup>2</sup>*Baylor College of Medicine*
- 61. THE IMPACT OF NICOTINE DEPENDENCE AND WITHDRAWAL ON SOMATIC AND AUTONOMIC NERVOUS SYSTEM MEASURES OF AFFECTIVE RESPONSE TO EMOTIONAL AND CIGARETTE-RELATED IMAGES IN SMOKERS**  
Jason D. Robinson, Cho Y. Lam, Brian L. Carter, Jennifer A. Minnix, Francesco Versace, David W. Wetter, & Paul M. Cinciripini  
*University of Texas M.D. Anderson Cancer Center*
- 62. INDIVIDUAL DIFFERENCES IN NOCEBO RESPONDING—FEAR OF PAIN AND HEART RATE VARIABILITY**  
Espen Bjørkedal, Peter S. Lyby, & Magne A. Flaten  
*University for Tromsø*

- 63. MODULATION OF THE LATE POSITIVE POTENTIAL (LPP) IN RESPONSE TO EMOTIONAL IMAGES: DO REPEATED PRESENTATIONS MATTER?**  
Tara L. Noecker & Michael A. Kisley  
*University of Colorado at Colorado Springs*
- 64. NEURAL RESOURCE ALLOCATION IN PROBABILISTIC CATEGORY LEARNING: AN ERP ANALYSIS OF THE WEATHER PREDICTION TASK**  
Matthew K. Williams<sup>1</sup>, Dev Ashish<sup>2</sup>, Hasker P. Davis<sup>1</sup>, & Michael A. Kisley<sup>1</sup>  
<sup>1</sup>*University of Colorado at Colorado Springs*, <sup>2</sup>*University of Arizona*
- 65. EMOTIONAL FRAMING: CAN YOUNGER ADULTS RESIST A NEGATIVITY BIAS IN THE LATE POSITIVE POTENTIAL (LPP)?**  
Andrea E. Naftz, Mindy James, & Michael A. Kisley  
*University of Colorado at Colorado Springs*
- 66. DIFFERENTIAL FRONTAL NEURAL ACTIVATION OF MALES AND FEMALES FOR DEDUCTIVE LOGIC USED IN SUDOKU PUZZLES WITH DIFFERENT STIMULI**  
Ashley L. Strong, Elizabeth L. Grubbs, Lori B. Mullins, & James E. Horton  
*The University of Virginia's College at Wise*
- 67. EFFECTS OF RECALL FACILITATION ON MEMORY INTERFERENCE BETWEEN TWO MOCK CRIMES**  
Yuki Hamamoto<sup>1</sup>, Shinji Hira<sup>2</sup>, & Hideki Ohira<sup>1</sup>  
<sup>1</sup>*Nagoya University*, <sup>2</sup>*Fukuyama University*
- 68. AROUSAL MODULATION BY EMOTIONAL PICTURES IN CHILDREN WITH ADHD AND THE INFLUENCE OF METHYLPHENIDATE**  
Annette Conzelmann, Ron F. Mucha, Peter Weyers, Marcel Romanos, Antje B. M. Gerdes, Christina G. Baehne, Georg W. Alpers, Andreas Warnke, & Paul Pauli  
*University of Würzburg*

- 69. IDIOSYNCRATIC FACIAL MOVEMENT MODULATES FACE RECOGNITION—AN ERP STUDY**  
Christina Anderson, Paul Pauli, Andreas Mühlberger, & Peter Weyers  
*University of Würzburg*
- 70. ADAPTIVE RESPONDING TO MONETARY REWARD AND NON-REWARD IN A DISCRIMINATIVE CONDITIONING PARADIGM**  
Markus H. Winkler<sup>1</sup>, Ronald F. Mucha<sup>1</sup>, Bastian Stippekohl<sup>2</sup>, Rudolf Stark<sup>2</sup>, & Paul Pauli<sup>1</sup>  
<sup>1</sup>*University of Würzburg*, <sup>2</sup>*University of Giessen*
- 71. PAIN IN YOUR FACE—IS THE PROCESSING OF DYNAMIC EXPRESSIONS OF PAIN SPECIAL?**  
Philipp Reicherts, Antje B. M. Gerdes, Matthias J. Wieser, Katja Likowski, Peter Weyers, & Paul Pauli  
*University of Würzburg*
- 72. MODULATION OF FACIAL MIMICRY IS CONNECTED TO CHANGES IN EARLY FACE PERCEPTION**  
Peter Weyers<sup>1</sup>, Katja U. Likowski<sup>1</sup>, Beate Seibt<sup>2</sup>, Paul Pauli<sup>1</sup>, & Andreas Mühlberger<sup>1</sup>  
<sup>1</sup>*University of Würzburg*, <sup>2</sup>*ISCTE—Instituto Universitário de Lisboa, Portugal*
- 73. NEURAL CORRELATES OF FACIAL MIMICRY**  
Katja U. Likowski, Andreas Mühlberger, Paul Pauli, & Peter Weyers  
*University of Würzburg*
- 74. SEEING EYE TO EYE: CONCURRENT PUPILLARY REACTIVITY DURING MOTHER-CHILD INTERACTIONS**  
Greg J. Siegle, Jennifer Silk, Katie Burkhouse, Erika Joyce, & Ronald S. Dahl  
*University of Pittsburgh School of Medicine*
- 75. AFFECTIVE RECOGNITION MEMORY PROCESSING AND EVENT-RELATED BRAIN POTENTIALS**  
Erik Kaestner<sup>1</sup> & John Polich<sup>2</sup>  
<sup>1</sup>*University of California, San Diego*, <sup>2</sup>*The Scripps Research Institute*

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- 76. NEUROELECTRIC ASSESSMENT OF BINGE DRINKING DURING ALCOHOL CHALLENGE**  
Kelly E. Courtney, Joanna C. Ho, & John Polich  
*The Scripps Research Institute*
- 77. DEVELOPMENT OF P1 ATTENTION MODULATION FROM CHILDHOOD TO EARLY ADOLESCENCE**  
Kristina H. Racer  
*University of Oregon*
- 78. INDIVIDUAL DIFFERENCES IN SENSITIVITY TO ERRORS DURING RULE LEARNING**  
Killian Kleffner-Canucci, Mora Reinka, Maxwell Morris, & Kristina H. Racer  
*University of Oregon*
- 79. REACTION TIME AND P300 IN CONDUCTING 4 OR 6 LUMPING COUNTERMEASURES TO 8 IRRELEVANT IN THE COMPLEX TRIAL PROTOCOL**  
Xiaoqing Hu, Daniel Hegeman, Elizabeth Landry, J. Peter Rosenfeld, Michael Winograd, Alexander Sokolovsky, & Elena Labkovsky  
*Northwestern University*
- 80. ECOLOGICAL VALIDITY CONCERNS OF SUBJECT INSTRUCTIONS IN P300-BASED CONCEALED INFORMATION TESTS**  
Michael R. Winograd & J. Peter Rosenfeld  
*Northwestern University*
- 81. INVESTIGATING THE P900 COMPONENT WITH 5-BUTTON CTP PROTOCOL FOR DETECTION OF DECEPTION**  
Elena B. Labkovsky, J. Peter Rosenfeld, & Hu Xiaoqing  
*Northwestern University*
- 82. HEMISPHERIC DIFFERENCES AND THE LPP**  
Keith M. Young, Aminda J. O'Hare, & Ruth Ann Atchley  
*University of Kansas*
- 83. HOW INTUITIVE IS RISK PERCEPTION? COMPARING IMPLICIT AND EXPLICIT PROCESSING MODES VIA ERP**  
Ralf Schmäzle, Alexander Barth, Harald T. Schupp, & Britta Renner  
*University of Konstanz*

- 84. THE PERCEPTION OF HIV RISK: AN FMRI ANALYSIS OF INTUITIVE PROCESSES**  
Frank E. K. Häcker, Ralf Schmäzle, Tobias Fleisch, Harald T. Schupp, & Britta Renner  
*University of Konstanz*
- 85. THE DYNAMICAL MODULATION OF EMOTIONAL STATE DURING WORD LEARNING**  
Jingjing Guo<sup>1</sup>, Jingjing Zhao<sup>2</sup>, & Danling Peng<sup>1</sup>  
<sup>1</sup>*State Key Laboratory for Cognitive Neuroscience and Learning, Beijing Normal University,* <sup>2</sup>*University of Connecticut and Haskins Laboratories*
- 86. QUANTIFICATION OF RSA: WHAT CRITERIA DEFINE THE BEST MEASURE?**  
Gregory F. Lewis, Senta A. Furman, & Stephen W. Porges  
*University of Illinois at Chicago*
- 87. ELECTROPHYSIOLOGICAL MEASURES REVEAL TIMING OF MEMORY SELECTION PROCESSES AND PROACTIVE INTERFERENCE RESOLUTION IN WORKING MEMORY**  
Yuji Yi, Timothy Martin, Julianna Kulik, & David Friedman  
*New York State Psychiatric Institute*
- 88. THE EFFECTS OF MEDITATIVE PRACTICE ON AUTONOMIC ACTIVITY IN A DUAL TASK PARADIGM**  
Thomas J. Pardikes, Bruce H. Friedman, Maggie Mooney, Hesham Mabrouk, Ben Allen, & Jared McGinley  
*Virginia Tech*
- 89. CHILD EXUBERANCE MODERATES THE IMPACT OF EEG ASYMMETRY ON ATTENTION PERFORMANCE**  
Beylul Solomon, Melanie Hong, Alina Klimova, Alisa Powers, & Tracy A. Dennis  
*Hunter College—City University of New York*

- 90. AN EXPLORATORY STUDY ON THE IMPACT OF NON-PHARMACOLOGICAL INTERVENTIONS ON SUBJECTIVE SLEEP IN INSOMNIA**  
Aisha Cortoos<sup>1</sup>, Sonia De Weerd<sup>1</sup>, Nathalie Pattyn<sup>2</sup>, Elke De Valck<sup>2</sup>, Raymond Cluydts<sup>2</sup>, & Walter Vincken<sup>1</sup>  
<sup>1</sup>*Universitair Ziekenhuis Brussel*, <sup>2</sup>*Vrije Universiteit Brussel*
- 91. EFFECTS OF SHORT-TERM FOOD DEPRIVATION ON INTEROCEPTIVE AWARENESS, FEELINGS AND AUTONOMIC CARDIAC ACTIVITY: IMPLICATIONS FOR EATING DISORDERS**  
Beate M. Herbert<sup>1</sup>, Cornelia Herbert<sup>2</sup>, Olga Pollatos<sup>3</sup>, Katja Weimer<sup>1</sup>, Helene Sauer<sup>1</sup>, Paul Enck<sup>1</sup>, & Stephan Zipfel<sup>1</sup>  
<sup>1</sup>*University Clinic Tübingen, Eberhard-Karls-University*, <sup>2</sup>*University of Würzburg*, <sup>3</sup>*University of Potsdam*
- 92. AGE DIFFERENCES AND SIMILARITIES IN EMPATHY FOR PAIN: AN ERP STUDY**  
Joseph Studer, Nathalie Mella, & Gisela Labouvie-Vief  
*University of Geneva*
- 93. POTENTIAL AUTONOMIC MECHANISMS OF SOCIAL ATTENTION IMPROVEMENTS IN CHILDREN WITH AUTISM SPECTRUM DISORDERS**  
Michelle A. Patriquin & Angela Scarpa  
*Virginia Tech*
- 94. SEXUAL VICTIMIZATION IN WOMEN: DIFFERENTIAL PSYCHOPHYSIOLOGICAL RESPONDING TO SEXUAL THREAT**  
Michelle A. Patriquin, Laura C. Wilson, Sarah A. Kelleher, & Angela Scarpa  
*Virginia Tech*
- 95. EFFECTS OF VIDEO GAME PLAY ON PAIN DISTRACTION**  
Jonathan Kolks, Lexa Hamilton-Cotter, Kristin McCombs, & Bryan Raudenbush  
*Wheeling Jesuit University*

- 96. EFFECTS OF PEPPERMINT SCENT ADMINISTRATION ON COGNITIVE VIDEO GAME PERFORMANCE: A PHYSIOLOGICAL EXPLANATION**  
Kristin McCombs, Andrea Bova, Bryan Raudenbush, & Mark Sappington  
*Wheeling Jesuit University*
- 97. PHYSIOLOGICAL RESPONSES OF FOOD NEOPHOBICS AND FOOD NEOPHILICS TO FOOD AND NON-FOOD STIMULI**  
August Capiola & Bryan Raudenbush  
*Wheeling Jesuit University*
- 98. ELECTROPHYSIOLOGICAL CORRELATES OF VERBAL WORKING MEMORY: PRELIMINARY RESULTS**  
Liesel-Ann C. Meusel<sup>1</sup>, Margaret C. McKinnon<sup>1</sup>, Marta Kutas<sup>2</sup>, & Michael Kiang<sup>1</sup>  
<sup>1</sup>*McMaster University*, <sup>2</sup>*University of California, San Diego*
- 99. CO-VARIATION OF EEG SYNCHRONIZATION AND SELF-ESTIMATION OF SPONTANEOUS EMOTIONAL STATES**  
Miroslaw Wyczesany & Jan Kaiser  
*Jagiellonian University*
- 100. THE OFT-NEGLECTED ROLE OF PARIETAL EEG ASYMMETRY AND RISK FOR MAJOR DEPRESSIVE DISORDER**  
Jennifer L. Stewart<sup>1,2</sup>, David N. Towers<sup>1</sup>, James A. Coan<sup>3</sup>, & John J.B. Allen<sup>1</sup>  
<sup>1</sup>*University of Arizona*, <sup>2</sup>*University of California San Diego*, <sup>3</sup>*University of Virginia*
- 101. WORKING MEMORY CAPACITY PREDICTS EFFORT TO REGULATE EMOTIONS AND AUTONOMIC RESPONSE**  
Rachael N. Volokhov & Heath A. Demaree  
*Case Western Reserve University*
- 102. CARDIAC RESPONSES PREDICTING DECISION-MAKING IN SOCIALLY THREATENING SITUATIONS**  
Takahiro Osumi & Hideki Ohira  
*Nagoya University*

- 103. ANTISOCIAL TRAITS PREDICT REDUCED RATES OF HABITUATION TO AN ACOUSTIC STARTLE PROBE**  
Nathaniel E. Anderson<sup>1</sup>, Matthew S. Stanford<sup>1</sup>, Li Wan<sup>1,2</sup>, & Keith M. Young<sup>2</sup>  
*<sup>1</sup>Baylor University, <sup>2</sup>Texas A&M Health Science Center*
- 104. TASK DIFFICULTY IN THE GO/NOGO TASK: THE ROLES OF INHIBITION, AROUSAL AND ACTIVATION**  
Nicholas Benikos, Stuart J. Johnstone, & Steven Roodenrys  
*University of Wollongong*
- 105. THE EFFECTS OF FACE GENDER AND EXPRESSION ON ATTENTION AND EMOTION**  
Elizabeth R. Duval, Christopher T. Lovelace, Justin Aarant, & Diane L. Filion  
*University of Missouri–Kansas City*
- 106. OLD WINE IN NEW BOTTLES: NEW INSIGHTS INTO THE ERN VIA THE RESPONSE-SIGNAL METHOD**  
Tyler M. Miller<sup>1</sup>, Luis M. Carcoba<sup>2</sup>, Shivani Mittal<sup>1</sup>, Bhuvana D. Mallikarjunaiah<sup>1</sup>, & Louis G. Tassinari<sup>1</sup>  
*<sup>1</sup>Texas A&M University, <sup>2</sup>Texas Tech University Health Science Center*
- 107. POSITIVE MOOD STATES AFFECT EARLY VISUAL PROCESSING OF TASK-IRRELEVANT INFORMATION**  
Hiroki Moriya & Hiroshi Nittono  
*Hiroshima University*
- 108. NURSING MONKEYS: EVOLUTIONARY PERSPECTIVES ON THE POST-AURICULAR REFLEX**  
Gabriella M. Johnson, David C. Geary, & Steven A. Hackley  
*University of Missouri*
- 109. SMOKING ABSTINENCE INCREASES THE BOLD FMRI RESPONSE TO SMOKING-RELATED AND UNPLEASANT PICTURES**  
Jeffrey M. Engelmann & Bruce N. Cuthbert  
*University of Minnesota*

- 110. ASYMMETRIC EYE MOVEMENTS DURING FACIAL EMOTION RECOGNITION IN INDIVIDUALS WITH ELEVATED LEVELS OF DEPRESSIVE SYMPTOMS**  
Lingdan Wu<sup>1</sup>, Jie Pu<sup>2</sup>, Andreatta Marta<sup>1</sup>, Paul Pauli<sup>1</sup>, & John J.B. Allen<sup>2</sup>  
<sup>1</sup>*University of Würzburg*, <sup>2</sup>*University of Arizona*
- 111. THE RELATIONSHIP BETWEEN RESPONSE DISINHIBITION AND RVL PFC DEACTIVATION IN PSYCHOPATHIC PARTICIPANTS: A NEAR-INFRARED SPECTROSCOPY STUDY**  
Keita Masui & Michio Nomura  
*Hiroshima University*
- 112. AUDITORY WORKING MEMORY TRAINING LEADS TO SPECIFIC DECREASES IN LEFT PREFRONTAL CORTEX WHEN LEARNING THE PHONOLOGY OF CHINESE WORDS**  
Julia A. Schneiders<sup>1</sup>, Bertram Opitz<sup>1</sup>, Xuchu Weng<sup>2</sup>, & Axel Mecklinger<sup>1</sup>  
<sup>1</sup>*Saarland University*, <sup>2</sup>*Chinese Academy of Sciences*
- 113. THE RELATION BETWEEN THE CORTISOL AWAKENING RESPONSE, EMPATHY, AND AGGRESSION**  
Megan M. O’Leary, Amy J. Mikolajewski, & Jeanette E. Taylor  
*Florida State University*
- 114. THE LPP IS SENSITIVE TO INCONGRUITY IN AN AFFECTIVE PRIMING PARADIGM**  
David R. Herring, Nicholas W. Jackson, Stephen L. Crites, Jennifer H. Taylor, Katherine R. White, & Jennifer Gonzalez  
*University of Texas at El Paso*
- 115. FEAR-POTENTIATED STARTLE DIFFERENTIATES EMOTION PROCESSING IN PSYCHOPATHIC AND EXTERNALIZING INCARCERATED MALE OFFENDERS**  
Arielle R. Baskin-Sommers, John J. Curtin, & Joseph P. Newman  
*University of Wisconsin, Madison*

**116. THE EFFECT OF VISUAL AND MOTOR EXPERIENCE DURING EARLY STAGES OF IMITATIVE LEARNING**

Lorna C. Quandt<sup>1</sup>, Peter J. Marshall<sup>1</sup>, Cedric A. Bouquet<sup>2</sup>, Thomas Young<sup>1</sup>, & Thomas F. Shipley<sup>1</sup>  
<sup>1</sup>Temple University, <sup>2</sup>University of Poitiers

**117. INVESTIGATING EMOTIONAL RESPONSIVITY IN PEOPLE HIGH AND LOW IN TRAIT HAPPINESS**

Stacia N. Gessner & Diane L. Filion  
*University of Missouri—Kansas City*

**118. EMOTIONAL REACTIVITY AND DIVALPROEX: INDEPENDENCE OF AUTONOMIC AND SOMATIC SYSTEMS**

Jason A. Oliver<sup>1,2</sup>, Joseph W. Ditre<sup>1,2</sup>, Natasha E. Garcia<sup>2</sup>, Hugh Myrick<sup>3</sup>, Michael E. Saladin<sup>3</sup>, & David J. Drobes<sup>1,2</sup>  
<sup>1</sup>University of South Florida, <sup>2</sup>Moffitt Cancer Center, <sup>3</sup>Medical University of South Carolina

**119. DIFFERENTIAL EFFECTS OF LONG-TERM ECSTASY USE ON SHORT-TERM AND WORKING MEMORY**

Claire Nulsen, Allison Fox, & Geoff Hammond  
*The University of Western Australia*

**120. THE MODERATING EFFECT OF PHYSICAL ACTIVITY ON CARDIOVASCULAR REACTIVITY FOLLOWING SINGLE FAT FEEDINGS**

Kathryn E. Faulk & John B. Bartholomew  
*The University of Texas at Austin*

**121. ALTERATIONS IN MONOAMINERGIC SYSTEMS LEAD TO WORKING MEMORY LOSS IN HYPOBARIC HYPOXIA EXPOSED RATS**

Solanki Preeti, Dipti N. Prasad, & G. Ilavazhagan  
*Defence Institute of Physiology and Allied Sciences*

**122. HIGH SELF-ESTEEM LEADS ATTENTION TO POSITIVE INFORMATION**

Fumie Sugimoto<sup>1</sup>, Keiko Ishii<sup>2</sup>, Jun'ichi Katayama<sup>1</sup>, & Akihiro Yagi<sup>1</sup>  
<sup>1</sup>Kwansei Gakuin University, <sup>2</sup>Kobe University

- 123. BEHAVIORAL ADJUSTMENTS GUIDED BY INFORMATION CONTENT OF ACTION OUTCOMES**  
Theo O. J. Gründler<sup>1</sup>, Gerhard Jocham<sup>2</sup>, Ines Wolz<sup>1</sup>, Markus Ullsperger<sup>1</sup>, & Tilmann Klein<sup>3</sup>  
<sup>1</sup>*Max Planck Institute for Neurological Research*,  
<sup>2</sup>*University of Oxford*, <sup>3</sup>*Max Planck Institute for Human Cognitive and Brain Sciences*
- 124. MOTION PERCEPTION OF EXPLICIT AND IMPLICIT HAND ACTION ASSOCIATED WITH WRITING LETTERS**  
Kiyomi Yatabe<sup>1,2</sup>, Masumi Inagaki<sup>1</sup>, Kota Suzuki<sup>1,3</sup>, Katsumi Watanabe<sup>2,4</sup>, & Makiko Kaga<sup>1</sup>  
<sup>1</sup>*National Center of Neurology and Psychiatry*,  
<sup>2</sup>*University of Tokyo*, <sup>3</sup>*Rissho University*, <sup>4</sup>*National Institute of Advanced Industrial Science and Technology*
- 125. THE EFFECTS OF ATTENTION TRAINING ON SELF-REPORTED, IMPLICIT, PHYSIOLOGICAL AND BEHAVIOURAL MEASURES OF SPIDER FEAR**  
Bram Van Bockstaele, Bruno Verschuere, Ernst H. W. Koster, Jan De Houwer, & Geert Crombez  
*Ghent University*
- 126. CEREBRAL RECALIBRATION AND MOTIVATED ATTENTION: A TRANSCRANIAL DIRECT CURRENT STIMULATION STUDY**  
Ruud Hortensius<sup>1</sup>, Eddie Harmon-Jones<sup>2</sup>, & Dennis J. L. G. Schutter<sup>1</sup>  
<sup>1</sup>*Utrecht University*, <sup>2</sup>*Texas A&M University*
- 127. EFFECTS OF SELF-RELEVANT FAILURE ON PERFORMANCE MONITORING: AN ELECTROPHYSIOLOGICAL INVESTIGATION**  
Kerstin Unger, Jutta Kray, & Axel Mecklinger  
*Saarland University*
- 128. AN EVENT-RELATED POTENTIAL INVESTIGATION OF A MODIFIED STROOP PARADIGM**  
Bart Larsen, Daniel Bae, & Todd D. Watson  
*Lewis and Clark College*

**129. ASSOCIATIONS BETWEEN HEART RATE VARIABILITY AND CLINICAL STATE IN SCHIZOPHRENIA**

Holly K. Hamilton, Jane C. Sun, Gretchen L. Sholty, Michael F. Green, Keith H. Nuechterlein, Kenneth L. Subotnik, Joseph Ventura, & Cindy M. Yee  
*University of California, Los Angeles*

**130. N170 IN PRESURGICAL EVALUATION OF SURGERY FOR EPILEPSY**

Ricardo J. Lopes<sup>1</sup> & Alberto J. R. Leal<sup>2</sup>  
<sup>1</sup>*Faculty of Psychology and Educational Sciences, University of Coimbra,* <sup>2</sup>*Centro de Investigação e Intervenção Social, ISCTE—Instituto Universitário de Lisboa*

**131. TESTING THE INTERACTION BETWEEN ALERTING AND EXECUTIVE ATTENTION NETWORKS IN CHILDREN**

Fengji Geng, Yuzheng Hu, Yunqi Wang, & Feiyan Chen  
*Zhejiang University*

**132. AFFECTIVE STARTLE MODULATION IN ADULTS WITH ASPERGER'S**

Danielle Mathersul, Skye McDonald, & Jacqueline A. Rushby  
*University of New South Wales*

**133. BRAIN COORDINATION DYNAMICS: CONTINUOUS EEG TRACKING OF THE NEURAL FUNCTIONAL ORGANIZATION IN A SOCIAL TASK**

Daniela Benites<sup>1</sup>, Emmanuelle Tognoli<sup>2</sup>, Gonzalo C. DeGuzman<sup>2</sup>, & J. A. Scott Kelso<sup>2</sup>  
<sup>1</sup>*Federal University of Rio Grande do Sul,* <sup>2</sup>*Florida Atlantic University*

**134. SOUND REPRESENTATIONS ARE TIME-COMPRESSED IN SENSORY MEMORY: EVIDENCE FROM MMN**

Nanako Minoura, Seiji Tamakoshi, Jun'ichi Katayama, & Akihiro Yagi  
*Kwansei Gakuin University*

- 135. MECHANISMS OF SUPPRESSION OF NEUTRAL AND NEGATIVE PICTURES INVESTIGATED VIA THE THINK/NO-THINK PARADIGM—AN FMRI STUDY**  
Alica C. Dieler<sup>1</sup>, Michael M. Plichta<sup>2</sup>, & Andreas J. Fallgatter<sup>3</sup>  
<sup>1</sup>University Clinic Würzburg, <sup>2</sup>ZI Mannheim, <sup>3</sup>University Clinic Tübingen
- 136. EEG STUDY DIRECTED FORGETTING IN YOUNG AND OLDER ADULTS**  
Brigitta Tóth, Roland Boha, Máté Benyovszky, Zsófia Anna Gaál, & Márk Molnár  
*Institute of Psychology, Hungarian Academy of Sciences, Budapest*
- 137. ARE STIMULUS RESPONSE COMPATIBILITY EFFECTS FACILITATED BY EMOTION SPECIFIC STIMULUS-RESPONSE FIT OR MAPPING OF STIMULUS VALENCE?**  
Stefan M. Schulz<sup>1</sup>, Roland Neumann<sup>2</sup>, & Georg W. Alpers<sup>3</sup>  
<sup>1</sup>University of Würzburg, <sup>2</sup>University of Trier, <sup>3</sup>University of Mannheim
- 138. THREE INDEPENDENT COMPONENT CLUSTERS OF THE FEEDBACK RELATED NEGATIVITY**  
Yu Bai<sup>1,2</sup> & Hideki Ohira<sup>1</sup>  
<sup>1</sup>Nagoya University, <sup>2</sup>Japan Society for the Promotion of Science
- 139. PICTURES CUEING DANGER: ELECTROCORTICAL BRAIN DYNAMICS IN VIEWING INSTRUCTED THREAT CUES**  
Florian Bublitzky & Harald T. Schupp  
*University of Konstanz*
- 140. COGNITIVE AND NEURAL BASES OF SUBJECTIVE AND OBJECTIVE RELATIONAL JUDGMENTS: AN ERP STUDY**  
Heather Henkell<sup>1</sup>, Lauren Bercharich<sup>2</sup>, Claudia Rodriguez<sup>2</sup>, John Zhu<sup>2</sup>, & Ray Johnson Jr.<sup>2</sup>  
<sup>1</sup>The Graduate Center—City University of New York, <sup>2</sup>Queens College—City University of New York

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- 141. THE IMPACT OF RACE ON FACE PROCESSING: AN ELECTROPHYSIOLOGICAL STUDY**  
Keith B. Senholzi & Tiffany A. Ito  
*University of Colorado*
- 142. EMOTION REGULATION THROUGH DISTRACTION AND REAPPRAISAL: EFFECTS ON EMOTIONAL EXPERIENCE, FACIAL EXPRESSION AND ELECTROPHYSIOLOGY**  
Sandra Schönfelder, Philipp Kanske, Janine Heissler, & Michèle Wessa  
*Central Institute of Mental Health Mannheim*
- 143. ACQUISITION OF SIMULTANEOUS CORRUGATOR EMG AND BOLD FMRI**  
Aaron S. Heller, Lawrence L. Greischar, Ann Honor, & Richard J. Davidson  
*University of Wisconsin, Madison*
- 144. ELECTROPHYSIOLOGICAL EVIDENCE FOR INHIBITORY CROSS-EDGE COMPETITION DURING FIGURE-GROUND PERCEPTION**  
Joseph L. Sanguinetti, Mary A. Peterson, & John J.B. Allen  
*University of Arizona*
- 145. SEX DIFFERENCES IN INHIBITORY CONTROL ON A PREPOTENT RESPONSE TO FACIAL EMOTIONAL STIMULI**  
María E. Vázquez-González, Andrés A. González-Garrido, & Julieta Ramos-Loyo  
*Universidad de Guadalajara*
- 146. SIMILAR EMOTIONAL RESPONSES TO AUDITORY AND VISUAL STIMULI: BUT THE HEART KNOWS THE DIFFERENCE**  
Amy M. Pitchforth, David Rosenblatt, Natasha Armpriester, & Paul Haerich  
*Loma Linda University*

**147. FRONTAL CORTICAL ACTIVITY RELATED TO VISUAL SHORT-TERM MEMORY: EVIDENCE FROM THE SUSTAINED ANTERIOR CONTRALATERAL NEGATIVITY**

Ulysse Fortier-Gauthier<sup>1</sup>, Christine Lefebvre<sup>1</sup>, Vincent Pomerleau<sup>1</sup>, Isabelle Corriveau<sup>1</sup>, Stephan Grimault<sup>1</sup>, Roberto Dell'Acqua<sup>2</sup>, John McDonald<sup>3</sup>, & Pierre Jolicœur<sup>1</sup>

<sup>1</sup>University of Montreal, <sup>2</sup>University of Padova, <sup>3</sup>Simon Fraser University

**148. TO WORRY OR TO TREMBLE: THE ERROR-RELATED NEGATIVITY PROVIDES AN ANSWER**

Timothy P. Moran & Jason S. Moser

Michigan State University

**149. THE PROCESSING OF THREATS TO SELF-SUFFICIENCY IN AVOIDANTLY ATTACHED INDIVIDUALS: A NEUROPHYSIOLOGICAL INVESTIGATION**

Sohye Kim, John K. Williams, Keith J. Edwards, & Todd W. Hall

Rosemead School of Psychology

**150. PHYSIOLOGICAL RESPONSES TO IMAGES OF THE DAMAGING EFFECTS OF THE SUN**

Stephanie E. Moser, Michelle N. Shiota, & Leona S. Aiken

Arizona State University

**151. THE EFFECT OF MANIPULATING TASK DIFFICULTY ON ERROR-RELATED NEGATIVITY: DIVERGENCE BETWEEN REINFORCEMENT LEARNING AND ERROR OF COMMISSION TASKS**

Antonia Kaczurkin & William G. Iacono

University of Minnesota

**152. EFFECTS OF PERCEIVED DISCRIMINATION ON ENDOCRINE AND IMMUNE SYSTEM ACTIVITY**

Kyle G. Ratner, May Ling Halim, & David M. Amodio

New York University

**153. PROPOSERS WITH DIFFERENT NATIONS  
ELICIT DIFFERENT ERP COMPONENTS IN  
THE ULTIMATUM GAME**

Nai-Shing Yen, Pei-Ling Chen, Yin-Fang Chang, &  
Jia-Yuan Lin

*National Chengchi University*

**154. THE LEFT HEMISPHERE KNOWS MORE  
ABOUT VERBS THAN THE RIGHT  
HEMISPHERE DOES**

Zhenghan Qi<sup>1</sup>, Scott R. Jackson<sup>2</sup>, & Susan M.  
Garnsey<sup>1</sup>

<sup>1</sup>*University of Illinois at Urbana-Champaign*, <sup>2</sup>*University  
of Maryland*

**155. CROSS-MODAL CONTEXT AFFECTS  
UNATTENDED SOUND CATEGORIZATION**

Siwei Liu, Lonce Wyse, Annett Schirmer, & Trevor B.  
Penney

*National University of Singapore*

**156. DISSOCIATING PERCEPTUAL AND  
SEMANTIC PRIMING OF SOUNDS**

Yong Hao Soh, Annett Schirmer, Trevor B. Penney, &  
Lonce Wyse

*National University of Singapore*

**157. INTERNAL BEHAVIORAL MONITORING  
INTERACTS WITH EXTERNAL  
EMOTIONAL INFORMATION**

Shun Itagaki & Kazuo Hiraki

*The University of Tokyo*

**158. SOCIAL SUPPORT AS A MODERATOR OF  
CORTISOL REACTIVITY IN RESPONSE TO  
SOCIAL-EVALUATIVE THREAT**

Lisa M. Jaremka, Heidi S. Kane, & Nancy L. Collins

*University of California, Santa Barbara*

**159. LIE TO ME: USING ERPS TO DETECT  
CONCEALED ATTITUDES**

Yvette M. Güereca<sup>1</sup>, Stephen L. Crites<sup>1</sup>, Laura  
Zambrano-Vazquez<sup>2</sup>, Jennifer H. Taylor<sup>1</sup>, Guadalupe  
Corral<sup>1</sup>, Ivan D. Torres<sup>1</sup>, & David R. Herring<sup>1</sup>

<sup>1</sup>*University of Texas at El Paso*, <sup>2</sup>*University of Arizona*

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**160. INVESTIGATING THE EMOTIONS BEHIND INVESTMENT DECISIONS: FMRI EVIDENCE THAT SUBLIMINAL AFFECTIVE CUES CAN EMPTY YOUR WALLET**

Julie L. Hall<sup>1</sup>, Richard Gonzalez<sup>1</sup>, Chandra Sripada<sup>1</sup>, & Oliver C. Schultheiss<sup>2</sup>

<sup>1</sup>*University of Michigan*, <sup>2</sup>*Friedrich-Alexander University*

**161. MODELING THE PARASYMPATHETIC NERVOUS SYSTEM RESPONSE TO AN EMOTIONAL TASK: THE INTERACTION OF HEART RATE VARIABILITY, PERSONALITY, AND EMOTION REGULATION**

Lindsey M. Root Luna

*Ferris State University*

**Poster Session III**  
**Saturday, October 2, 2010**

***Poster Session Schedule***

8:00 A.M.—10:00 A.M.	Posters Assembled
10:00 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. ATTENUATED CARDIOVASCULAR RESPONSES TO STRESS DURING SMOKING WITHDRAWAL**  
 Motohiro Nakajima, Elizabeth Ford, Koji Fujiwara, & Mustafa al'Absi  
*University of Minnesota Medical School, Duluth*
- 2. THE LIMITS OF FEAR IN FEARLESS DOMINANCE: EVIDENCE FROM THE EMOTIONAL DOT PROBE**  
 Stephen D. Benning & Melville M. Malone  
*Vanderbilt University*
- 3. REDUCED PUPILLARY OSCILLATIONS IN SCHIZOPHRENIA AND DEPRESSION SUGGEST CENTRAL PARASYMPATHETIC DEFICIT**  
 Stuart R. Steinhauer<sup>1,2</sup>, Adam L. Clarke<sup>1</sup>, Greg J. Siegle<sup>1</sup>, Ruth Condray<sup>1</sup>, & Beatrice H. Chakraborty<sup>1,2</sup>  
*<sup>1</sup>University of Pittsburgh, <sup>2</sup>VA Pittsburgh HCS*
- 4. PUPILLARY RESPONSES DURING DIGIT SPAN UNDER LIGHT AND DARKNESS IN PSYCHIATRIC PATIENTS**  
 Beatrice H. Chakraborty<sup>1,2</sup>, Greg J. Siegle<sup>1</sup>, Ruth Condray<sup>1</sup>, Adam L. Clarke<sup>1</sup>, Jaimee C. Sheppard<sup>1</sup>, & Stuart R. Steinhauer<sup>1,2</sup>  
*<sup>1</sup>University of Pittsburgh School of Medicine, <sup>2</sup>VA Pittsburgh HCS*
- 5. AUTONOMIC CORRELATES OF CONSUMER DECISION-MAKING**  
 Nicole A. Roberts<sup>1</sup>, Elias Robles<sup>1</sup>, Christina L. Bonney<sup>1</sup>, Christopher A. Pratt<sup>1</sup>, Tara M. Vincelette<sup>1</sup>, & Elvin Chun<sup>2</sup>  
*<sup>1</sup>Arizona State University, <sup>2</sup>Henkel Consumer Goods, Inc.*

- 6. SPOUSAL LOVE AND AFFECTION, CHRONIC STRESS, AND REGULATION OF THE INFLAMMATORY RESPONSE IN RHEUMATOID ARTHRITIS**  
Mary H. Burleson<sup>1</sup>, Mary C. Davis<sup>1</sup>, Alex J. Zautra<sup>1</sup>, & Michael R. Irwin<sup>2</sup>  
<sup>1</sup>Arizona State University, <sup>2</sup>University of California, Los Angeles
- 7. DOES BRACHIAL ARTERY BLOOD PRESSURE CUFF INFLATION INFLUENCE CARDIOVASCULAR AND SKIN CONDUCTANCE MEASUREMENTS?**  
Michael J. Devine, Tara Vincelette, Rebecca A. Swain, Larissa Harrison, Dhannia Torres, Dana J. Weber, Nicole A. Roberts, & Mary H. Burleson  
*Arizona State University*
- 8. EEG SPECTRAL CHANGES WITH COMPLEX DECISION MAKING AND CORRELATIONS WITH DECISION MAKING BEHAVIORAL PERFORMANCE AND EXECUTIVE FUNCTIONING**  
C. Ervin Davis, D. Erik Everhart, Jessica D. Hauf, Qiang Wu, Katie A. LeHockey, & Jonathan Highsmith  
*East Carolina University*
- 9. WORRY-RELATED EEG SPECTRA AND ERP DIFFERENCES IN EMOTION PROCESSING**  
C. Ervin Davis, Dory R. Simonsen, Jonathan Highsmith, Katie A. LeHockey, Jessica D. Hauf, & D. Erik Everhart  
*East Carolina University*
- 10. THE INFLUENCE OF ANXIETY ON THE NEURAL PROCESSING OF RESPIRATORY SENSATIONS**  
Andreas von Leupoldt<sup>1</sup>, Pei-Ying S. Chan<sup>2</sup>, Margaret M. Bradley<sup>3</sup>, Peter J. Lang<sup>3</sup>, & Paul W. Davenport<sup>3</sup>  
<sup>1</sup>University of Hamburg, <sup>2</sup>Chang Gung University, <sup>3</sup>University of Florida
- 11. SITUATIONAL AVOIDANCE, INTEROCEPTIVE SENSITIVITY & THE PSYCHOPHYSIOLOGY OF PANIC DISORDER**  
Joshua R. Shumen, Lisa M. McTeague, Peter J. Lang, Marie-Claude Laplante, & Margaret M. Bradley  
*University of Florida*

- 12. EMOTIONAL IMAGERY IN SPECIFIC PHOBIA: FEAR FOCUS, INTENSITY & COMORBIDITY**  
Lisa M. McTeague, Peter J. Lang, Marie-Claude Laplante, Joshua R. Shumen, & Margaret M. Bradley  
*University of Florida*
- 13. A NEURAL PRECURSOR TO INDIVIDUATION: N200S PREDICT USE OF INDIVIDUATING INFORMATION**  
Jennifer T. Kubota<sup>1</sup> & Tiffany A. Ito<sup>2</sup>  
<sup>1</sup>*New York University*, <sup>2</sup>*University of Colorado at Boulder*
- 14. TASK-SET INHIBITION AT THE MOTOR LEVEL IN A TASK SWITCHING PARADIGM: A LAPLACIAN ERP STUDY**  
Clémence Roger<sup>1</sup>, Davide Rigoni<sup>2</sup>, Marsel Brass<sup>1</sup>, & Wim Fias<sup>1</sup>  
<sup>1</sup>*Department of Experimental Psychology, Ghent University, Belgium*, <sup>2</sup>*Department of Developmental Psychology and Socialization, Università degli Studi di Padova, Italy*
- 15. FRONTAL P3 AMPLITUDES ARE SPECIFICALLY ENHANCED FOR INFREQUENT INCONGRUENT STROOP TRIALS AND ARE LOCALIZED IN THE DORSAL ANTERIOR CINGULATE CORTEX**  
Marie-Anne Vanderhasselt<sup>1</sup>, Rudi De Raedt<sup>1</sup>, Simone Kuhn<sup>1</sup>, Dan D. Dillon<sup>2</sup>, & Jan R. Wiersema<sup>1</sup>  
<sup>1</sup>*Ghent University*, <sup>2</sup>*Harvard University*
- 16. STROOP TASK AND THE N2 COMPONENT: CONFLICT MONITORING OR CONTROL IMPLEMENTATION?**  
Isabel A. David<sup>1</sup>, Eliane Volchan<sup>2</sup>, Jaime Vila<sup>3</sup>, Aydamari Faria-Júnior<sup>4</sup>, Pandelis Perakakis<sup>3</sup>, Leticia Oliveira<sup>1</sup>, Mirtes G. Pereira<sup>1</sup>, & Walter Machado-Pinheiro<sup>1</sup>  
<sup>1</sup>*Universidade Federal Fluminense*, <sup>2</sup>*Universidade Federal do Rio de Janeiro*, <sup>3</sup>*Universidad de Granada*, <sup>4</sup>*Universidade Federal do Amapá*
- 17. INDIVIDUAL DIFFERENCES IN SENSITIVITY TO REWARD ARE ASSOCIATED WITH ELECTRO-PHYSIOLOGICAL RESPONSES TO MONETARY GAINS AND LOSSES**  
Ivo van den Berg, Ingmar H. A. Franken, & Peter Muris  
*Erasmus University Rotterdam*

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- 18. ELECTROPHYSIOLOGY OF APPETITIVE TASTE AND APPETITIVE CONDITIONING IN HUMANS**  
Ingmar H. A. Franken, Jorg Huijding, & Jan W. van Strien  
*Erasmus University Rotterdam*
- 19. CHANGES IN BRAIN ELECTRICAL ACTIVITY DURING EXTENDED CONTINUOUS FACE RECOGNITION**  
Jan W. van Strien, Ivo van den Berg, & Ingmar H. A. Franken  
*Erasmus University Rotterdam*
- 20. THE PROCESS OF DESENSITIZATION? EXAMINING HABITUATION AND ATTENTION DURING VIOLENT AND NON-VIOLENT VIDEO GAMES**  
Satoko Kurita<sup>1</sup> & Annie Lang<sup>2</sup>  
<sup>1</sup>*Hokkaido University, Japan,* <sup>2</sup>*Indiana University, Bloomington*
- 21. THE EFFECT OF FINANCIAL INCENTIVES AND WORKING MEMORY DEMAND ON SYSTOLIC BLOOD PRESSURE AND EEG OSCILLATORY MEASURES OF COGNITIVE EFFORT AND MOTIVATIONAL DISPOSITION**  
Katie C. Ewing & Stephen H. Fairclough  
*Liverpool John Moores University*
- 22. APPROACHING MEN AND WITHDRAWING WOMEN: SEX-SPECIFIC RELATIONSHIPS OF COPING STYLES TO FRONTAL EEG ASYMMETRY**  
Jennifer L. Stewart<sup>1,2</sup>, James A. Coan<sup>3</sup>, & John J.B. Allen<sup>1</sup>  
<sup>1</sup>*University of Arizona,* <sup>2</sup>*University of California San Diego,* <sup>3</sup>*University of Virginia*
- 23. IMPLICIT WORD DIFFERENTIATION DURING SILENT READING: HIGH-DENSITY ERP STUDY**  
Olga Sysoeva, Kirill Smirnov, & Alexey Ivanitsky  
*Institute of HNA & Nph, Russian Academy of Sciences*

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- 24. ASSOCIATION OF EVENT-RELATED POTENTIAL (ERP) COMPONENTS WITH SEROTONIN TRANSPORTER (5-HTT) GENE**  
Olga Sysoeva<sup>1</sup>, Kirill Smirnov<sup>1</sup>, Alexey Ivanitsky<sup>1</sup>, & Alexander Tonevitsky<sup>2</sup>  
<sup>1</sup>*Institute of HNA & Nph, Russian Academy of Sciences,*  
<sup>2</sup>*VNIIFK*
- 25. GRASPING MOVEMENT KINEMATICS IS AFFECTED BY THE OBJECT'S EMOTIONAL VALUE**  
Maitê M. Russo, Laura A. S. Oliveira, Paula Esteves, Eliane Volchan, & Claudia D. Vargas  
*Federal University of Rio de Janeiro*
- 26. PREPARING TO GRASP AN EMOTIONAL-LADEN OBJECT: A TMS STUDY**  
Anaelli A. Nogueira-Campos, Laura A. S. Oliveira, Paula Esteves, Ericka C. Rodrigues, & Claudia D. Vargas  
*Federal University of Rio de Janeiro*
- 27. HEMISPHERIC DIFFERENCES OF PARIETAL HYPOACTIVATION DURING PROCESSING OF EMOTIONAL PICTURES IN MAJOR DEPRESSION**  
Markus Junghöfer, Katharina Domschke, Peter Zwanzger, Kathrin Knoke, & Christian Putsche  
*University of Münster*
- 28. FREELY AVAILABLE MATLAB SOFTWARE FOR MASSIVELY UNIVARIATE ANALYSIS AND VISUALIZATION OF ERPS**  
David M. Groppe & Marta Kutas  
*University of California, San Diego*
- 29. CHILDREN'S SLEEP, SKIN CONDUCTANCE LEVEL, AND MENTAL HEALTH**  
Mona El-Sheikh, Dilbur D. Arsiwalla, & Joseph A. Buckhalt  
*Auburn University*
- 30. THE PROCESSING OF EMOTIONAL EYES IS INFLUENCED BY SPATIAL ATTENTION: NEURAL AND BEHAVIORAL DATA**  
Xiyao Xie & Yuejia Luo  
*National Key Laboratory of Cognitive Neuroscience and Learning, Beijing Normal University*

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- 31. INFLUENCE OF TRAIT-ANXIETY ON OCULOMOTOR SUPPRESSION—EVIDENCE FROM ERPS STUDY**  
Gong Xu & Yuejia Luo  
*National Key Laboratory of Cognitive Neuroscience and Learning, Beijing Normal University*
- 32. REDUCED CONFIGURAL PROCESSING OF OLD FACES IN YOUNG OBSERVERS: EVIDENCE FROM THE N170 FACE INVERSION EFFECT**  
Holger Wiese & Stefan R. Schweinberger  
*Friedrich Schiller University of Jena*
- 33. SENSITIVITY OF SOMATOVISCERAL RESPONSES TO PHOBIC FEAR INTENSITY**  
Tatjana Aue, Marie-Eve Hoeppli, & Camille Piguet  
*University of Geneva*
- 34. CARDIOVASCULAR RESPONSES TO EXPERIMENTAL PAIN STIMULATION AND ITS ASSOCIATION TO PAIN INDICES IN FIBROMYALGIA SYNDROME**  
Sergio Garrido<sup>1</sup>, Angeles Pulgar<sup>1</sup>, Stefan Duschek<sup>2</sup>, Maria Martin-Vazquez<sup>1</sup>, & Gustavo A. Reyes del Paso<sup>1</sup>  
<sup>1</sup>*University of Jaén*, <sup>2</sup>*University of Munich*
- 35. BARORECEPTOR CARDIAC REFLEX SENSITIVITY NEGATIVELY PREDICTS NUMERICAL APTITUDE IN FEMALES**  
Maria Martin-Vazquez, Angeles Pulgar, Sergio Garrido, & Gustavo A. Reyes del Paso  
*University of Jaén*
- 36. THE YERKES-DODSON LAW AND THE RELATIONSHIPS BETWEEN BARORECEPTOR CARDIAC REFLEX SENSITIVITY AND COGNITIVE PERFORMANCE**  
Maria Martin-Vazquez, Angeles Pulgar, Sergio Garrido, & Gustavo A. Reyes del Paso  
*University of Jaén*
- 37. MAGNITUDE AND MODULATION OF THE STARTLE REFLEX IN DISPOSITIONAL OPTIMISM AND PESSIMISM**  
Juan Antonio Becerra-García, Gustavo Reyes del Paso, & Ana García León  
*University of Jaén*

- 38. AN EMPIRICAL COMPARISON OF EMOTION THEORIES ON PHYSIOLOGICAL ACTIVATION AND DYNAMICS USING A STATE SPACE APPROACH**  
Tom Lodewyckx<sup>1</sup>, Francis Tuerlinckx<sup>1</sup>, Peter Kuppens<sup>1</sup>, Nicholas B. Allen<sup>2</sup>, & Lisa Sheeber<sup>3</sup>  
<sup>1</sup>University of Leuven, <sup>2</sup>University of Melbourne, <sup>3</sup>Oregon Research Institute
- 39. INVESTIGATION OF THE P3 RESPONSE OVER A 12-YEAR SPAN IN SUBJECTS WITH A LIFETIME HISTORY OF EXTERNALIZING PSYCHOPATHOLOGY**  
Henry H. Yoon<sup>1</sup>, Stephen M. Malone<sup>2</sup>, & William G. Iacono<sup>2</sup>  
<sup>1</sup>Augsburg College, <sup>2</sup>University of Minnesota
- 40. CHILDREN'S ABILITY TO IMPLEMENT DIFFERENT PROCESSING GOALS IN THE CONTEXT OF EMOTIONAL STIMULI**  
Amanda Kesek, Jacob E. Anderson, & Philip D. Zelazo  
*Institute of Child Development, University of Minnesota*
- 41. HOW WORDS BECOME EMOTIONAL: PROSODY MODULATES AFFECTIVE REPRESENTATIONS OF WORDS IN SEMANTIC MEMORY**  
Annett Schirmer<sup>1</sup>, April Ching<sup>1</sup>, Yng Loke<sup>1</sup>, Karen Chan<sup>1</sup>, & Shuo Wang<sup>2</sup>  
<sup>1</sup>National University of Singapore, <sup>2</sup>California Institute of Technology
- 42. OPERANT REGULATION OF BOLD-RESPONSE: EFFECTS ON BEHAVIOR**  
Niels Birbaumer<sup>1</sup>, Ranganatha Sitaram<sup>1</sup>, Ralf Veit<sup>1</sup>, Sangkyun Lee<sup>1</sup>, Steve Hackley<sup>2</sup>, & Sergio Ruiz<sup>1</sup>  
<sup>1</sup>University of Tübingen, <sup>2</sup>University of Missouri
- 43. THE STUDY AND DATA ANALYSIS OF INTERICTAL EEG IN EPILEPTIC PATIENTS**  
Irma Khachidze & Manana Gugushvili  
*Beritashvili Institute of Physiology*

- 44. NEUROPHYSIOLOGICAL MECHANISMS OF SENSORY- AND MOTOR-RELATED COMPONENTS INTERACTION IN CONDITIONS OF SENSORIMOTOR INTEGRATION**  
Ekaterina Aydarkina  
*Southern Federal University*
- 45. COMT VAL158MET GENOTYPE AND ELECTROPHYSIOLOGICAL MARKERS OF PERFORMANCE MONITORING**  
Roman Osinsky, Nina Alexander, & Jürgen Hennig  
*Justus Liebig University Giessen*
- 46. FUNCTIONAL BRAIN ORGANIZATION OF GLOBAL AND LOCAL VISUAL RECOGNITION: AN ERP STUDY**  
Regina I. Machinskaya, Ekaterina V. Krupskaya, & Andrey V. Kurgansky  
*Institute of Developmental Physiology*
- 47. TASK-DEPENDENT INVOLVEMENT OF COGNITIVE PROCESSING IN VISUOMOTOR TASKS EXAMINED BY CORTICAL CONNECTIVITY**  
Hiromu Katsumata<sup>1</sup> & Kuniyasu Imanaka<sup>2</sup>  
<sup>1</sup>*Daito-Bunka University*, <sup>2</sup>*Tokyo Metropolitan University*
- 48. INFORMATIONAL STRUCTURE OF THE WISCONSIN CARD SORTING TEST: A PROBABILISTIC APPROACH TO PREFRONTAL LOBE FUNCTION USING ELECTROPHYSIOLOGICAL MEASURES**  
Francisco Barceló, Isabel R. Caldentey, Xavier Porte, & Laura Prada  
*University of the Balearic Islands*
- 49. TRAIT-BIS DIFFERENCES OF THE N2 COMPONENT OF EVENT-RELATED POTENTIAL: DOES REINFORCEMENT MODULATE THE INTENSITY OF RESPONSE CONFLICT?**  
Sebastian Lange, Anja Leue, & André Beauducel  
*Universität Hamburg*
- 50. NEURAL CORRELATES OF EMOTION REGULATION IN BIPOLAR DISORDER**  
Philipp Kanske, Janine Heissler, Sandra Schönfelder, & Michèle Wessa  
*Central Institute of Mental Health, Mannheim*

- 51. EYE MOVEMENTS OF PSYCHOPATHS WATCHING EMOTIONAL FACES**  
Hedwig Eisenbarth, Sarah Spanner, & Bernd Körber  
*University of Regensburg*
- 52. EXAMINING THE RELATIONSHIP BETWEEN SELF-EFFICACY AND STIMULUS PROCESSING**  
Jason R. Themanson, & Peter J. Rosen  
*Illinois Wesleyan University*
- 53. POSSIBILITY OF NEW MULTIPLE PROBE PROTOCOL OF P300-BASED CONCEALED INFORMATION TESTS**  
Shinji Hira<sup>1</sup>, Risa Misaka<sup>1</sup>, & Isato Furumitsu<sup>2</sup>  
<sup>1</sup>*Fukuyama University*, <sup>2</sup>*University of East Asia*
- 54. CAN THE HEART REVEAL WHAT WE ARE THINKING?**  
Marc C. Obonsawin & Michelle Burke  
*University of Strathclyde*
- 55. THE PLACE OF LEVODOPA/CARBIDOPA IN PERSISTENT VEGETATIVE STATE**  
Solomon O. Ugoya<sup>1</sup>, & Rufus O. Akinyemi<sup>2</sup>  
<sup>1</sup>*Department of Medicine, Jos University Teaching Hospital, Nigeria*, <sup>2</sup>*Institute for Ageing & Health, Newcastle University, United Kingdom*
- 56. SPATIAL ATTENTION DYNAMICS IN GAZE CUEING: AN N2PC STUDY**  
Giovanni Galfano<sup>1</sup>, Michela Sarlo<sup>1</sup>, Federica Sassi<sup>2</sup>, Marianna Munafò<sup>1</sup>, Luis J. Fuentes<sup>2</sup>, & Carlo Umiltà<sup>1</sup>  
<sup>1</sup>*University of Padua*, <sup>2</sup>*University of Murcia*
- 57. EEG ABNORMALITIES IN PROACTIVE VIOLENT OFFENDERS**  
Ana Calzada-Reyes<sup>1</sup> & Alfredo Alvarez-Amador<sup>2</sup>  
<sup>1</sup>*Legal Medicine Institute, Havana, Cuba*, <sup>2</sup>*Cuban Neuroscience Center*
- 58. LEARNING OF A NON-ADJACENT DEPENDENCY RULE IN THE PASSIVE ODDBALL DESIGN**  
Jutta L. Mueller, Anna S. Hasting, Angela D. Friederici, & Burkhard Maess  
*Max Planck Institute for Human Cognitive and Brain Sciences*

- 59. EXPLORING THE RELATIONSHIPS BETWEEN ERN, CRN, AND NEUROPSYCHOLOGICAL PERFORMANCE IN SCHIZOPHRENIA**  
Monica C. Mann-Wrobel & Sarah E. Morris  
*Baltimore VA/Mental Illness Research, Education & Clinical Center (MIRECC)*
- 60. PRESERVED ENCODING UNDER HIGH ATTENTIONAL LOAD IS SPECIFIC TO FACES: ERP EVIDENCE**  
Markus F. Neumann, Tarik N. Mohamed, & Stefan R. Schweinberger  
*Friedrich-Schiller-University of Jena*
- 61. THE EXPRESSION OF SURROUND SUPPRESSION IN PRIMARY VISUAL CORTEX REVEALED WITH FMRI**  
Branka Milivojevic<sup>1</sup>, Margareta L. Calabrese<sup>2</sup>, & Chantal Kemner<sup>1</sup>  
<sup>1</sup>*Utrecht University*, <sup>2</sup>*University of Amsterdam*
- 62. META-ANALYTIC CONNECTIVITY MODELING (MACM) OF THE HUMAN CAUDATE: EVIDENCE FOR BEHAVIORAL SPECIFICITY**  
Jennifer L. Robinson<sup>1</sup>, Angela R. Laird<sup>2</sup>, Manjit K. Sanghera<sup>1</sup>, David C. Glahn<sup>3</sup>, Brandon Bohannon<sup>1</sup>, & Peter T. Fox<sup>2</sup>  
<sup>1</sup>*Scott & White Memorial Hospital*, <sup>2</sup>*University of Texas Health Science Center at San Antonio Research Imaging Institute*, <sup>3</sup>*Yale University*
- 63. AUDITORY EVENT-RELATED POTENTIALS IN THE SUPRATEMPORAL AUDITORY AREAS IN SCHOOL-AGE CHILDREN WITH AND WITHOUT DYSLEXIA**  
Azizuddin Khan<sup>1</sup> & Jarmo Hamalainen<sup>2</sup>  
<sup>1</sup>*Indian Institute of Technology Bombay, India*,  
<sup>2</sup>*University of Jyväskylä, Finland*
- 64. ASSESSING BRAIN DEVELOPMENT BY EEG PHOTIC DRIVING IN NORMAL CHILDREN AND NEUROPSYCHIATRIC PATIENTS**  
Vladimir V. Lazarev, Maria Alice Genofre, Adailton Pontes, & Leonardo C. deAzevedo  
*Oswaldo Cruz Foundation*

- 65. CONTIGUITY, NOT CONTINGENCY: N1-SUPPRESSION FOR SELF-INITIATED SOUNDS**  
János Horváth<sup>1</sup>, Pamela Baess<sup>2</sup>, Burkhard Maess<sup>2</sup>, & Annamária Tóth<sup>1</sup>  
<sup>1</sup>*Institute for Psychology, Hungarian Academy of Sciences,*  
<sup>2</sup>*Max-Planck-Institute for Human Cognitive and Brain Sciences*
- 66. EFFECTS OF TARGET-TO-TARGET INTERVAL AND TARGET PROBABILITY ON N200 AND P300**  
Sukru B. Demiral, Fernanda Ferreira, & John M. Henderson  
*The University of Edinburgh*
- 67. HEART RATE VARIABILITY CHANGES UNDER SIMULATED PSYCHO-EMOTIONAL STRAIN DEPENDING ON SELF-APPRAISAL LEVEL**  
Anna Stepanyan, Lusine Stepanyan, & Vilena Grigoryan  
*Yerevan State University*
- 68. EFFECTS OF FAIRNESS AND OFFER SIZE ON THE MEDIAL FRONTAL NEGATIVITY AND CARDIAC DECELERATION IN THE ULTIMATUM GAME**  
Frederik M. van der Veen & Priya P. Sahibdin  
*Erasmus MC Rotterdam, The Netherlands*
- 69. LOOK AWAY: THE RELATIONSHIP BETWEEN VALENCE, TASK DIFFICULTY AND PRESENTATION DURATION IN DISENGAGEMENT**  
Kathrin Mareike Gschwendtner<sup>1</sup>, Andreas Mühlberger<sup>2</sup>, Andrea Kübler<sup>2</sup>, Claudia Sommer<sup>1</sup>, & Martin Josef Herrmann<sup>1</sup>  
<sup>1</sup>*University Hospital of Würzburg,* <sup>2</sup>*University of Würzburg*
- 70. THE TEMPORAL CHANGE IN ATTENTION TO DEVIANT EVENTS: EVIDENCE FROM ERP P3S**  
Fumihito Morimoto<sup>1,2</sup>, Masashi Goto<sup>2</sup>, Jun'ichi Katayama<sup>2</sup>, Sumaru Niida<sup>3</sup>, & Akihiro Yagi<sup>2</sup>  
<sup>1</sup>*Jin-ai University,* <sup>2</sup>*Kwansei Gakuin University,* <sup>3</sup>*KDDI R&D Laboratories Inc.*

**72. GOAL ENGAGEMENT AND DISENGAGEMENT IN DYSPHORIA: EVIDENCE FOR A MALADAPTIVE PHYSIOLOGICAL RESPONSE TO PERFORMANCE FEEDBACK**

Kerstin Brinkmann<sup>1</sup> & Sylvia D. Kreibig<sup>2</sup>

<sup>1</sup>University of Geneva, <sup>2</sup>Stanford University

**73. IS THE ACOUSTIC BLINK REFLEX A VALID MEASURE OF STARTLE?**

Terry D. Blumenthal

Wake Forest University

**74. PRELIMINARY VALIDATION OF PORTABLE SINGLE-CHANNEL EEG RECORDING DEVICE**

Stuart J. Johnstone

University of Wollongong

**75. THE ROLE OF FEEDBACK PROCESSING IN RELATION TO CHILDREN'S INFORMATION DISCOVERY AND UTILIZATION**

Jennifer McDermott, Sonya Troller-Renfree, Courtney Heim, & Seth Pollak

University of Wisconsin

**76. ELECTROPHYSIOLOGY OF ERROR AWARENESS IN A DIGIT ENTERING TASK**

Johannes Hewig<sup>1</sup>, Michael G. H. Coles<sup>2</sup>, & Wolfgang H. R. Miltner<sup>3</sup>

<sup>1</sup>University of Würzburg, <sup>2</sup>Donders Centre for Cognitive Neuroimaging, <sup>3</sup>University of Jena

**77. EMOTIONAL MODULATION OF PAIN IN MASOCHISTS**

Herta Flor, Isabelle C. Bomba, Eugen Diesch, & Sandra Kamping

Central Institute of Mental Health, University of Heidelberg

**78. THE ROLE OF INCIDENTAL EMOTIONS ON RISKY DECISION MAKING**

Juan P. Sanchez-Navarro<sup>1</sup>, Joshua Weller<sup>2</sup>, Eduvigis Carrillo-Verdejo<sup>1</sup>, Jose M. Martinez-Selva<sup>1</sup>, Ginesa Torrente<sup>1</sup>, & Antoine Bechara<sup>3</sup>

<sup>1</sup>University of Murcia, Spain, <sup>2</sup>Decision Research,

<sup>3</sup>University of Southern California

- 79. ALPHA-AMYLASE, HEART RATE AND SKIN CONDUCTANCE CHANGES PROMOTED BY AFFECTIVE PICTURES**  
Juan P. Sanchez-Navarro<sup>1</sup>, Enrique Maldonado<sup>2</sup>, Jose M. Martinez-Selva<sup>1</sup>, Carmen Ortiz<sup>3</sup>, & Alfredo Enguix<sup>3</sup>  
<sup>1</sup>University of Murcia, Spain, <sup>2</sup>University of Malaga, Spain, <sup>3</sup>Hospital Virgen de la Victoria, Malaga, Spain
- 80. ARE ALL PREDICTION ERRORS “WORSE THAN EXPECTED”? EVIDENCE FROM EVENT-RELATED POTENTIALS**  
Nicola K. Ferdinand<sup>1</sup>, Axel Mecklinger<sup>1</sup>, Jutta Kray<sup>1</sup>, & William J. Gehring<sup>2</sup>  
<sup>1</sup>Saarland University, <sup>2</sup>University of Michigan
- 81. INVESTIGATING JOINT ACTION PLANNING WITH ELECTROENCEPHALOGRAPHY**  
Dimitrios Kourtis, Natalie Sebanz, & Günther Knoblich  
*Donders Institute for Brain, Cognition and Behaviour*
- 82. CONCERN OVER MISTAKES PREDICTS THE AMPLITUDE OF THE ERROR-RELATED NEGATIVITY, ERROR POSITIVITY AND FRONTAL ALPHA POWER ASYMMETRY**  
Mattie Tops<sup>1</sup> & Maarten A. S. Boksem<sup>2</sup>  
<sup>1</sup>University of Groningen, <sup>2</sup>Erasmus University Rotterdam
- 83. LOW PLASMA TESTOSTERONE, HIGH CORTISOL AND LEFT FRONTAL ASYMMETRICAL ACTIVITY IN TRAIT DEPENDENT WOMEN**  
Mattie Tops<sup>1</sup> & Hiroko Matsumoto<sup>2</sup>  
<sup>1</sup>University of Groningen, <sup>2</sup>University of Oregon
- 84. INCREASE IN NUMBER OF SPONTANEOUS EYE-BLINKS AND SHIFT IN FRONTAL EEG ASYMMETRY INDUCED BY CORTISOL ADMINISTRATION**  
Mattie Tops<sup>1</sup> & Hiroko Matsumoto<sup>2</sup>  
<sup>1</sup>University of Groningen, <sup>2</sup>University of Oregon
- 85. THE INDEPENDENT AND COMBINED EFFECTS OF TAURINE AND ALCOHOL ON ATTENTIONAL PROCESSES**  
Frances H. Martin & Bethany Lusk  
*University of Tasmania*

- 86. DIFFERENT PROCESSING STYLE OF WORKING MEMORY INFORMATION IN ADULTS WITH AUTISM SPECTRUM DISORDERS**  
M. Amanda Earl Colby<sup>1</sup>, Michael A. Motes<sup>1</sup>, Alicia A. Coleman<sup>1</sup>, & Bart Rypma<sup>1,2</sup>  
<sup>1</sup>University of Texas at Dallas, <sup>2</sup>University of Texas Southwestern Medical Center
- 87. ERP CORRELATES OF A MOTIVATIONAL PARADIGM OF DRUG ADDICTION: EFFECTS OF SUBSTITUTION TREATMENT**  
Nuno F. Costa<sup>1</sup>, Isabel B. Fonseca<sup>2</sup>, Rita Palhoco<sup>2</sup>, Tiago Fonseca<sup>2</sup>, Ana Correia<sup>2</sup>, & Armando M. Oliveira<sup>3</sup>  
<sup>1</sup>Faculty of Medicine, Lisbon University, <sup>2</sup>Faculty of Psychology, Lisbon University, <sup>3</sup>Faculty of Psychology, Coimbra University
- 88. THE POWER OF THREE EEG ALPHA SUB-BANDS IN VERBAL CREATIVITY TASKS: CHARACTERISTICS OF RESPONSES EVALUATED AS “ORIGINAL”**  
Toshihiko Sato & Tomohiro Sai  
Tohoku Bunka Gakuen University
- 89. AN ERP INDEX OF ATTENTIONAL BIAS TO NEGATIVE AFFECT WORDS AMONG SMOKERS**  
David E. Evans<sup>1</sup>, Nathan Maxfield<sup>2</sup>, Renee Ornduff<sup>1</sup>, Natasha Garcia<sup>1</sup>, & David J. Drobos<sup>1</sup>  
<sup>1</sup>Moffitt Cancer Center, <sup>2</sup>University of South Florida
- 90. CORTISOL AND PTSD: SOME INSIGHT INTO THE DIVERGENT FINDINGS IN THE LITERATURE**  
Suzanne L. Pineles<sup>1</sup>, Ann M. Rasmusson<sup>1</sup>, Rachel Yehuda<sup>2</sup>, Natasha B. Lasko<sup>3</sup>, Michael L. Macklin<sup>3</sup>, & Scott P. Orr<sup>3</sup>  
<sup>1</sup>VA Boston Healthcare System, Boston University School of Medicine, <sup>2</sup>Mount Sinai School of Medicine, Bronx VA Medical Center, <sup>3</sup>Harvard Medical School, VA Manchester
- 91. RELATIONS BETWEEN FRONTAL EEG ASYMMETRY AND EMOTIONAL WORD PROCESSING**  
Gina M. Grimshaw, Amy Walsh, & John McDowall  
Victoria University of Wellington

- 92. FRONTAL ALPHA ASYMMETRY CHANGES AFTER EXPOSURE TO UNCONTROLLABILITY**  
Aneta Brzezicka & Katarzyna Klimas  
*Warsaw School of Social Sciences and Humanities*
- 93. EARLY STAGE CORTICAL PROCESSING OF LANGUAGE SOUNDS IS MODULATED BY DIET AND GENDER INFLUENCES IN FOUR MONTH OLD INFANTS: VARIATIONS IN THE ERP P1 COMPONENT**  
R. T. Pivik, A. Andres, & T. M. Badger  
*Arkansas Children's Nutrition Center and University of Arkansas for Medical Sciences*
- 94. SOUNDS OF SARCASM: ERP INDICES OF INDIVIDUAL DIFFERENCES FOR SARCASTIC PROSODY**  
Victoria A. Kazmerski & Dawn G. Blasko  
*Penn State Erie*
- 95. DEVELOPMENTAL TRAJECTORIES OF RESPIRATORY SINUS ARRHYTHMIA AND PRE-EJECTION PERIOD IN MIDDLE CHILDHOOD**  
Benjamin Hinnant, Lori Elmore-Staton, & Mona El-Sheikh  
*Auburn University*
- 96. RELATIONS OF WORKING MEMORY, EEG AND HEART RATE VARIABILITY**  
Sergii A. Kryzhanovskyi, Andrii O. Cherninskyi, Igor G. Zyma, & Mykola J. Makarchuk  
*National Taras Shevchenko University of Kyiv*
- 97. THE INFLUENCE OF REWARD-MOTIVATED LEARNING ON MEMORY RETRIEVAL: AN ERP STUDY**  
Teresa M. Halsband, Nicola K. Ferdinand, & Axel Mecklinger  
*Saarland University*
- 98. SPECIFICITY OF PHYSIOLOGICAL AND SELF-REPORT RESPONSES OF ANXIOUS SUBJECTS TO OWN VS. OTHER PHOBIC SCENES**  
Georgia Panayiotou, Margarita Kapsou, Maria Karekla, Elena Constantinou, & Giorgos Metaxas  
*University of Cyprus*

**99. AUDITORY HALLUCINATIONS AND EARLY VISUAL PROCESSING DEFICITS IN SCHIZOPHRENIA: REFERENCE-FREE ERPS DURING THE RECOGNITION OF WORDS AND FACES**

Jürgen Kayser<sup>1,2</sup>, Craig E. Tenke<sup>1,2</sup>, Daniel M. Alschuler<sup>1</sup>, Christopher J. Kroppmann<sup>1</sup>, Shiva Fekri<sup>1</sup>, Roberto Gil<sup>1,2</sup>, Lars F. Jarskog<sup>1,2</sup>, Jill M. Harkavy-Friedman<sup>1,2</sup>, & Gerard E. Bruder<sup>1,2</sup>

<sup>1</sup>*New York State Psychiatric Institute*, <sup>2</sup>*Columbia University College of Physicians & Surgeons*

**100. AUTONOMIC IMBALANCE IS ASSOCIATED WITH REDUCED FACIAL RECOGNITION IN SOMATOFORM DISORDERS**

Olga Pollatos<sup>1</sup>, Beate M. Herbert<sup>2</sup>, Sarah Wankner<sup>3</sup>, Anja Dietel<sup>4</sup>, Cornelia Wachsmuth<sup>5</sup>, Peter Henningsen<sup>5</sup>, & Martin Sack<sup>5</sup>

<sup>1</sup>*University of Potsdam*, <sup>2</sup>*Eberhard-Karls-University of Tübingen*, <sup>3</sup>*Ludwig-Maximilians-University of Munich*, <sup>4</sup>*Danuvius Clinic Ingolstadt*, <sup>5</sup>*Klinikum Rechts der Isar, Technical University of Munich*

**101. FOOD DEPRIVATION SENSITIZES PAIN PERCEPTION**

Olga Pollatos<sup>1</sup>, Beate M. Herbert<sup>2</sup>, Katja Weimer<sup>2</sup>, Paul Enck<sup>2</sup>, & Stephan Zipfel<sup>2</sup>

<sup>1</sup>*University of Potsdam*, <sup>2</sup>*Eberhard-Karls-University of Tübingen*

**102. INFERENCEAL LEARNING OF NEW VERBAL MEANINGS: AN EVENT RELATED SYNCHRONIZATION STUDY**

Angel Tabullo, Pamela Lopes Da Cunha, Sergio Vernis, Enrique Segura, Silvano Zanutto, & Alejandro Wainselboim

*Instituto de Biología y Medicina Experimental—Consejo Nacional de Investigaciones Científicas y Técnicas (IBYME-CONICET)*

**103. INDIVIDUAL DIFFERENCES IN SIMULTANEOUS SKIN CONDUCTANCE RECORDINGS ON PALMAR AND PLANTAR SITES**

Cindy H. Liu<sup>1,2</sup>, Nancy Snidman<sup>1,2</sup>, Emily Mott<sup>1,2</sup>, Erin Driscoll<sup>1,2</sup>, Nikki Meribela<sup>1,2</sup>, & Ed Tronick<sup>1,2,3</sup>

<sup>1</sup>*Harvard Medical School*, <sup>2</sup>*Children's Hospital Boston*, <sup>3</sup>*University of Massachusetts Boston*

- 104. EMOTIONAL PICTURE PROCESSING IN INDIVIDUALS WITH ALCOHOL DEPENDENCE: EFFECTS OF PICTURE TYPE AND FAMILY HISTORY**  
Sukhbir Dhillon, Wynnelena Canio, Ann Manzardo, Jan Campbell, Elizabeth Penick, & Albert B. Poje  
*University of Kansas Medical Center*
- 105. PUPILLARY RESPONSE TO FAMILIAR VERSUS NOVEL FACES**  
Frank M. Marchak, Tanner L. Keil, & Pamela S. Westphal  
*Veridical Research and Design Corporation*
- 106. SKIN CONDUCTANCE LEVEL HABITUATION DIFFERENTIATES FIBROMYALGIA FROM CHRONIC FATIGUE SYNDROME PATIENTS AND WELL CONTROLS IN AN ORIENTING RESPONSE PARADIGM**  
James W. Morrison  
*Alberta Hospital Edmonton*
- 107. ATTENTION AND PHYSIOLOGICAL RESPONSES TO BIOLOGICALLY RELEVANT STIMULI: AN EYE-TRACKING STUDY USING SUBLIMINAL PROCEDURES**  
Pedro J. Rosa<sup>1,2</sup>, Francisco Esteves<sup>2</sup>, & Patrícia Arriaga<sup>2</sup>  
<sup>1</sup>*Universidade Lusófona de Humanidades e Tecnologias,*  
<sup>2</sup>*ISCTE—Instituto Universitário de Lisboa, Centro de Intervenção Social*
- 109. THE NEURAL GENERATORS OF FLANKER TASK INCONGRUENCE IN PARKINSON'S DISEASE (PD)**  
Vanessa Pérez Bocourt<sup>1</sup>, Maria Luisa Bringas<sup>2</sup>, & Valia Rodriguez<sup>3</sup>  
<sup>1</sup>*Faculty of Psychology, University of Havana,*  
<sup>2</sup>*International Center for Neurological Restoration CIREN,* <sup>3</sup>*Cuban Neuroscience Center, Havana, Cuba*
- 110. AUTONOMIC REGULATION AND THE ATTENTIONAL NETWORK TASK IN EUROPEAN AND AMERICAN COLLEGE STUDENTS**  
John J. Sollers III<sup>1</sup>, Ewald Naumann<sup>2</sup>, Anne Siebenbrock<sup>2</sup>, LaBarron K. Hill<sup>3</sup>, & Julian F. Thayer<sup>3</sup>  
<sup>1</sup>*The University of Auckland,* <sup>2</sup>*University of Trier,* <sup>3</sup>*The Ohio State University*

**111. THE MENTAL CHRONOMETRY OF MEMORY RETRIEVAL: APPLICATION OF THE LATERALIZED READINESS POTENTIAL**

Cyma Van Petten<sup>1</sup>, Trudy Y. Kuo<sup>2</sup>, & Ava J. Senkfor<sup>3</sup>

<sup>1</sup>*Binghamton University*, <sup>2</sup>*School of Osteopathic Medicine in Arizona, A. T. Still University*, <sup>3</sup>*Wayne State University*

**112. ATTENTIONAL CAPTURE EFFECT CAN BE INDUCED BY PERCEPTUAL LEARNING: AN EVENT-RELATED POTENTIAL STUDY**

Zhe Qu, Yunpeng Lai, & Yulong Ding

*Sun Yat-Sen University*

**113. EMOTIONAL PROCESSING IN MIGRAINE**

Marta Andreatta<sup>1</sup>, Anne-Katrin Puschmann<sup>2</sup>, Peter Weyers<sup>1</sup>, Claudia Sommer<sup>2</sup>, Paul Pauli<sup>1</sup>, & Andreas Mühlberger<sup>1</sup>

<sup>1</sup>*Department of Psychology, University of Würzburg*,

<sup>2</sup>*Department of Neurology, University of Würzburg*

**114. ACTION-OUTCOME CONTINGENCY AND FEEDBACK-RELATED NEGATIVITY**

Hiroaki Masaki<sup>1</sup>, Yusuke Shibahara<sup>1</sup>, Keiko Ogawa<sup>1</sup>, Katuo Yamazaki<sup>1</sup>, & Steven A. Hackley<sup>2</sup>

<sup>1</sup>*Waseda University*, <sup>2</sup>*University of Missouri—Columbia*

**115. IMAGES OF TERRORISM: THE EMOTIONAL IMPACT OF VIEWING SCENES OF THE AFTERMATH**

Eric J. Vanman, Aarti Iyer, Martin Henrion, Philip Witowski, Sara L. Berndt, Katharine H. Greenaway, & Matthew J. Hornsey

*The University of Queensland*

**116. BEHAVIORAL AND ERP OUTCOMES OF SHORT TERM TRAINING**

Sylvain Moreno<sup>1</sup>, Raluca Barac<sup>1</sup>, Nicholas Cepeda<sup>1</sup>, E. Glenn Schellenberg<sup>2</sup>, Tom Chau<sup>3</sup>, & Ellen Bialystok<sup>4</sup>

<sup>1</sup>*York University*, <sup>2</sup>*University of Toronto Mississauga*,

<sup>3</sup>*Bloorview Research Institute*, <sup>4</sup>*York University, Rotman Research Institute*

**117. CYBEREMOTIONS: SUBJECTIVE AND PHYSIOLOGICAL RESPONSES TO READING ONLINE DISCUSSION FORUMS**

Arvid Kappas, Dennis Kuester, Mathias Theunis, & Elena Tsankova

*Jacobs University Bremen*

- 118. THE SPATIAL REFERENCE FRAMES EMPLOYED DURING HAND AND EYE MOVEMENT PREPARATION: EVIDENCE FROM LATERALIZED ERP COMPONENTS**  
Elena Gherri & Bettina Forster  
*City University London*
- 119. DO CARDIAC ACCELERATIONS ANTICIPATE ALL MICROAROUSALS FROM SLEEP?**  
Steven H. Woodward & Ned J. Arsenault  
*National Center for PTSD and VA Palo Alto Health Care System*
- 120. ATTENTION DEPLOYMENT CRASHES AMYGDALA AUTOMATICITY EVEN TO HIGHLY AVERSIVE MUTILATED PICTURES: NEUROIMAGING EVIDENCE**  
Tiago A. Sanchez<sup>1</sup>, Izabela Mocaiber<sup>1</sup>, Fatima S. Erthal<sup>2</sup>, Mateus Joffily<sup>1</sup>, Eliane Volchan<sup>1</sup>, Leticia Oliveira<sup>2</sup>, Draulio B. de Araujo<sup>3</sup>, & Mirtes G. Pereira<sup>2</sup>  
<sup>1</sup>Federal University of Rio de Janeiro, <sup>2</sup>Fluminense Federal University, <sup>3</sup>Federal University of Rio Grande do Norte
- 121. DYNAMIC CORTICAL INTERACTIONS DURING AUDITORY-VISUAL INTEGRATION**  
Phillip M. Gilley  
*The University of Colorado at Boulder*
- 122. WAVELET-BASED EOG ARTIFACT CORRECTION OF EEG**  
Benoit Decarie<sup>1</sup>, Jean-Marc Lina<sup>2</sup>, & Philippe Robaey<sup>1</sup>  
<sup>1</sup>Children's Hospital of Eastern Ontario, <sup>2</sup>École de Technologie Supérieure
- 123. ERP CORRELATES OF ORDER AND TARGET EFFECTS IN THE IMPLICIT ASSOCIATION TEST**  
John K. Williams<sup>1</sup> & Jason R. Themanson<sup>2</sup>  
<sup>1</sup>Biola University, <sup>2</sup>Illinois Wesleyan University
- 124. ITEM-WISE DIRECTED FORGETTING OF ANGRY AND NEUTRAL FACES—AN ERP STUDY**  
Johanna M. Kissler & Anne Hauswald  
*University of Konstanz*

- 125. ELECTROPHYSIOLOGICAL INDICES OF LANGUAGE PROCESSING IN VEGETATIVE STATE (VS) AND MINIMALLY CONSCIOUS STATE (MCS)—PREVALENCE AND PROGNOSTIC VALUE**  
Inga Steppacher<sup>1</sup>, Simon Eickhoff<sup>1</sup>, Michael Kaps<sup>2</sup>, Wolfgang Witzke<sup>2</sup>, & Johanna Kissler<sup>1</sup>  
<sup>1</sup>*University of Konstanz*, <sup>2</sup>*Schmieder Clinics Allensbach*
- 126. SCREAM OR PRAISE? HOW PERSONALITY DIFFERENCES RELATE TO THE EFFECTIVENESS OF PUNISHMENTS AND REWARDS FOR EFFICIENT LEARNING**  
Maarten A. S. Boksem<sup>1</sup> & Jurjen Van der Helden<sup>2</sup>  
<sup>1</sup>*Erasmus University*, <sup>2</sup>*University of Twente*
- 127. PALMAR VS. FOREARM EDA DURING NATURAL SLEEP AT HOME**  
Rosalind W. Picard<sup>1</sup> & Jocelyn C. Scheirer<sup>2</sup>  
<sup>1</sup>*Massachusetts Institute of Technology*, <sup>2</sup>*Affectiva, Inc.*
- 128. NEUROBIOLOGICAL AND PSYCHOPHYSIOLOGICAL CORRELATES OF FOSTER MOTHER-INFANT BONDING**  
Johanna R. Bick, Mary Dozier, Robert F. Simons, & Damion Grasso  
*University of Delaware*
- 129. GIRLS ARE MORE ANXIOUS BUT NOT FEARFUL COMPARED TO BOYS**  
Anja Schmitz, Kathleen R. Merikangas, Haruka C. Swendsen, & Christian Grillon  
*National Institutes of Health/National Institute of Mental Health*
- 130. PSYCHOPHYSIOLOGICAL EFFECTS OF A PUTATIVE HUMAN PHEROMONE**  
Francisco Esteves<sup>1</sup>, Patricia Arriaga<sup>1</sup>, Mats Olsson<sup>2</sup>, & Johan Lundström<sup>3</sup>  
<sup>1</sup>*Lisbon University Institute*, <sup>2</sup>*Karolinska Institute*, <sup>3</sup>*Monell Center*
- 131. CONTRIBUTIONS OF THE SEROTONIN TRANSPORTER GENE TO INDIVIDUAL DIFFERENCES IN EXTINCTION RETENTION**  
Catherine A. Hartley<sup>1</sup>, Elizabeth A. Phelps<sup>1</sup>, B. J. Casey<sup>2</sup>, & Charles E. Glatt<sup>2</sup>  
<sup>1</sup>*New York University*, <sup>2</sup>*Weill Cornell Medical College*

**132. RIGHT HEMISPHERE REGULATION OF CARDIOVASCULAR REACTIVITY AS A FUNCTION OF AUDITORY AFFECTIVE STRESS: CHANGES IN HEART RATE AND ESTIMATION OF HALF-HAND GRIP STRENGTH IN COLLEGE-AGED MEN AND WOMEN**

Alissa K. Holland<sup>1</sup>, John F. Hardin<sup>1</sup>, John E. Rutledge<sup>1</sup>, Joseph E. Carmona<sup>2</sup>, David W. Harrison<sup>2</sup>, & Mark Coe<sup>1</sup>

<sup>1</sup>University of South Carolina Lancaster, <sup>2</sup>Virginia Tech

**133. NEURAL CORRELATES OF APPETITIVE POTENTIATION OF THE POSTAURICULAR REFLEX**

Stephen D. Benning, Rebecca D. Ray, Thomas R. Armstrong, & David H. Zald  
*Vanderbilt University*

**134. PROCESSING INTERACTIVITY: IS IT AUTOMATIC OR CONTROLLED?**

S. Shyam Sundar<sup>1,2</sup>, Saraswathi Bellur<sup>1</sup>, & Corina Constantin<sup>3</sup>

<sup>1</sup>The Pennsylvania State University, <sup>2</sup>Sungkyunkwan University, <sup>3</sup>Media Analytics, PHD Network

**135. SENSORY SENSITIVITY TO ORDINARY SENSORY INPUTS IN CHILDREN WITH AUTISM: A PILOT STUDY**

Megan Chang<sup>1</sup>, Diane Parham<sup>2</sup>, Erna Blanche<sup>1</sup>, Ann Schell<sup>3</sup>, Chih-Ping Chou<sup>1</sup>, Michael Dawson<sup>1</sup>, & Florence Clark<sup>1</sup>

<sup>1</sup>University of Southern California, <sup>2</sup>University of New Mexico, <sup>3</sup>Occidental College

**136. DOES RULE-BASED EXPECTATION MODULATE ELECTROPHYSIOLOGICAL RESPONSE TO UNPLEASANT PICTURES?**

Kenta Kimura<sup>1</sup> & Toshikazu Hasegawa<sup>2</sup>

<sup>1</sup>Nagoya University, <sup>2</sup>The University of Tokyo

**137. MEASUREMENT OF VASCULAR TONE BAROREFLEX GAIN**

Evgeny G. Vaschillo, Bronya Vaschillo, Jennifer F. Buckman, Robert J. Pandina, & Marsha E. Bates  
*Rutgers, The State University of New Jersey*

**138. COROLLARY DISCHARGE DYSFUNCTION IN INDIVIDUALS AT-RISK FOR SCHIZOPHRENIA**

Veronica B. Perez, Daniel H. Mathalon, Sophia Vinogradov, Rachel L. Loewy, Brian J. Roach, Barbara Stuart, & Judith M. Ford

*University of California, San Francisco*

**139. P900: A PUTATIVE NOVEL ERP COMPONENT RESULTING WHEN PARTICIPANT IS SIGNALLED, “NO SPECIFIC RESPONSES REQUIRED ON CURRENT TRIAL”**

Jeff Weishaar, Tim Uhlman, Elena Labkovsky, Alexander Sokolovsky, John Meixner, & J. Peter Rosenfeld

*Northwestern University*

**140. INTEGRATIVE PROCESSING OF MULTIPLE FEATURES IN THE HUMAN BRAIN**

E. Menton McGinnis & Andreas Keil

*University of Florida*

## INDEX

## A

- Aarant, Justin.....91  
 Aarts, Kristien .....28  
 Ablow, Jennifer C. ....47  
 Adam, Emma K. ....38  
 Ahs, Fredrik .....29  
 Aiken, Leona S. ....98  
 Akinyemi, Rufus O. .... 109  
 al'Absi, Mustafa ..... 101  
 Albino, Nicholas F. ....63  
 Alexander, Nina ..... 108  
 Alhabash, Saleem .....59  
 Alhadad, Sakinah S. J. ....68  
 Allen, Ben ..... 64, 65, 88  
 Allen, John J.B. .... 15, 26,  
     ..... 34, 61, 62, 78, 90, 92,  
     ..... 97, 104  
 Allen, Nicholas B. ....47,  
     ..... 107  
 Alpers, Georg W. .... 85, 96  
 Alschuler, Daniel M. ....33,  
     ..... 116  
 Alvarez-Amador, Alfredo .....  
     ..... 109  
 Alyssa, Morey .....60  
 Amen, Alexandra M. ....50  
 Amodio, David M. .... 35, 98  
 Anand, Sneha.....51  
 Anderson, Christina.....86  
 Anderson, Jacob E. .... 107  
 Anderson, Nathaniel E. ....91  
 Andreatta, Marta ..... 118  
 Andres, A. .... 115  
 Angrilli, Alessandro.... 63, 64  
 Anllo-Vento, Lourdes .....49  
 Ansari, Tahereh .....28  
 Antonenko, Daria .....72  
 Antony, Martin M. ....51  
 Anzures, Gizelle .....71  
 Apitz, Thore .....53  
 Arbel, Yael ..... 69, 70  
 Armitage, Roseanne .....78  
 Armpriester, Natasha .....97  
 Armstrong, Thomas R. .. 121  
 Arriaga, Patrícia .... 117, 120  
 Arsenaault, Ned J. .... 119  
 Arsiwalla, Dilbur D. .... 105  
 Ashare, Rebecca L. ....63  
 Ashish, Dev.....85  
 Åsli, Ole.....84  
 Asmaro, Deyar .....84  
 Atchley, Ruth Ann.....87  
 Aue, Tatjana .....106  
 Avedon, Jennifer .....74  
 Avison, Malcolm J. ....68  
 Aviyente, Selin .... 65, 77, 79  
 Avram, Julia.....79  
 Aydarkina, Ekaterina .....108

## B

- Baayen, Harald .....40  
 Badger, T. M. ....115  
 Bae, Daniel .....94  
 Baehne, Christina G. ....85  
 Baess, Pamela.....111  
 Bai, Yu.....96  
 Bailey, Rachel L. ....59  
 Baker, Travis E. ....50  
 Balakrishnan, Bimal.....59  
 Barac, Raluca .....118  
 Barceló, Francisco .....108  
 Barnes, Gordon .....50  
 Barrie, Jennifer N. ....83  
 Barth, Alexander .....87  
 Bartholomew, John B. ....93  
 Bartholow, Bruce D. ....32,  
     ..... 50, 69  
 Baruth, Joshua M. ....71  
 Basak, Chandramallika ....55  
 Baskin-Sommers, Arielle R.  
     ..... 39, 92  
 Bates, Marsha E. ....121  
 Beauducel, André.....108  
 Becerra-García,  
     Juan Antonio.....106  
 Bechara, Antoine .....112  
 Beck, Diane M. ... 27, 55, 56  
 Bedford, Daniel W. ....65  
 Belleau, Emily L. .... 49, 50  
 Bellur, Saraswathi .....121  
 Benikos, Nicholas .....91  
 Benites, Daniela.....95  
 Bennett, Ilana J. ....80

- Benning, Stephen D. .... 101,  
..... 121
- Benyovszky, Máté ..... 96
- Bercarich, Lauren ..... 96
- Bernat, Edward M. ... 15, 26,  
..... 39, 55, 65, 77, 79
- Berndt, Sara L. .... 118
- Berona, Johnny ..... 75, 76
- Bhat, Raghavendra R. .... 61
- Bhattacharjee, Kalpa ..... 58
- Bialystok, Ellen ..... 118
- Bianchin, Marta ..... 63
- Bick, Johanna R. .... 120
- Birbaumer, Niels ..... 35, 107
- Birk, Jeffrey L. .... 58, 59
- Bismark, Andrew W. .... 62
- Bjørkedal, Espen ..... 84
- Blair, James R. .... 39
- Blanche, Erna ..... 121
- Blasko, Dawn G. .... 115
- Block, Jeremy ..... 79
- Blumenthal, Terry D. .... 112
- Bobrow, Laurel ..... 34
- Boha, Roland ..... 96
- Bohannon, Brandon ..... 110
- Boksem, Maarten A. S. ....  
..... 113, 120
- Bomba, Isabelle C. .... 112
- Bonanno, George ..... 79
- Bonney, Christina L. .... 101
- Borracci, Joe ..... 81
- Bouquet, Cedric A. .... 93
- Bova, Andrea ..... 90
- Bowers, Dawn ..... 56
- Boyd, Jeremy K. .... 62
- Bradley, Margaret M. .... 23,  
..... 35, 56, 74, 102, 103
- Bradley, Rebekah ..... 43
- Bradley, Samuel D. .... 60
- Brass, Marsel ..... 103
- Brenner, Colleen A. .... 75
- Brett-Green, Barbara ..... 57
- Brewer, Judson ..... 36
- Brian, Eric ..... 25
- Bringas, Maria Luisa ..... 117
- Brinkmann, Kerstin ..... 112
- Britton, Willoughby B. .... 36
- Broadway, James M. .... 68
- Brodish, Amanda B. .... 38
- Brody, Amanda E. .... 61
- Bromet, Evelyn J. .... 53
- Bronheim, Rachel ..... 54
- Brooker, Rebecca J. .... 57
- Brown, Kirk W. .... 63
- Brown, Michael L. .... 67
- Brown, Victoria L. .... 24
- Bruder, Gerard E. .... 33, 116
- Brumback, Ty ..... 70
- Bryson, Susan E. .... 83
- Brzezicka, Aneta ..... 70, 84,  
..... 115
- Bublitzky, Florian ..... 96
- Buckhalt, Joseph A. .... 105
- Buckman, Jennifer F. .... 121
- Buodo, Giulia ..... 63
- Burden, Matthew J. .... 68
- Burgess, Kaleena ..... 82
- Burgio-Murphy, Andrea .. 63
- Burke, Michelle ..... 109
- Burkhouse, Katie ..... 86
- Burleson, Mary H. .... 102
- Burns, Amy ..... 75
- Burwell, Scott J. .... 65
- Buss, Kristin A. .... 57, 62
- C**
- Cacioppo, John T. .... 25, 34
- Cahn, B. Rael ..... 37
- Calabrese, Margareta L. ....  
..... 110
- Caldentey, Isabel R. .... 108
- Calzada-Reyes, Ana ..... 109
- Campagnoli, Rafaela R. ... 73
- Campbell, Jan ..... 117
- Canio, Wynnelena ..... 117
- Capiola, August ..... 90
- Capuana, Lesley J. .... 52
- Carcoba, Luis M. .... 91
- Carlson, Joshua ..... 82
- Carlson, Scott R. .... 44, 80,  
..... 81
- Carmona, Joseph E. .... 50,  
..... 121
- Carr, Andrea R. .... 80
- Carrillo-Verdejo, Eduvigis  
..... 112
- Carter, Brian L. .... 84
- Carter, Cameron S. .... 72
- Casanova, Manuel F. .... 71

- Casement, Melynda .....78
- Casey, B. J. .... 120
- Castelli, Darla M. ....67
- Cavanagh, James F..... 61, 78
- Cavanagh, Sarah R.....58
- Cavett, Courtney .....55
- Cepeda, Nicholas..... 118
- Chakraborty, Beatrice H.....  
..... 101
- Chan, Karen ..... 107
- Chan, Pei-Ying S. .... 102
- Chang, Megan ..... 121
- Chang, Wen-Pin..... 56, 57
- Chang, Yin-Fang .....99
- Chase-Lansdale, P. L.....38
- Chau, Tom ..... 118
- Chee, Lucinda .....55
- Chen, Di.....59
- Chen, Eunice Y..... 75, 76
- Chen, Feiyan .....95
- Chen, Pei-Ling .....99
- Cheng, Philip.....78
- Cherninskyi, Andrii O.. 115
- Chernow, Kate.....69
- Ching, April..... 107
- Choma, Becky L. ....51
- Chou, Chih-Ping..... 121
- Choueiry, Joelle .....81
- Christensen, Kara ..... 75, 76
- Christie, Israel C.....29
- Chun, Elvin ..... 101
- Cinciripini, Paul M. .. 24, 84
- Clark, Florence ..... 121
- Clarke, Adam L. .... 101
- Clay, Summer.....69
- Clough, Erin.....81
- Cluydts, Raymond.....89
- Coan, James A. ... 45, 62, 90,  
..... 104
- Coe, Mark ..... 50, 121
- Coelho, Carlos M. ....64
- Cohen, Neal .....40
- Colby, M. Amanda Earl.....  
..... 80, 114
- Coleman, Alicia A..... 114
- Coles, Michael G. H..... 112
- Collins, Nancy L.....99
- Comer, Clinton S. ....50
- Condray, Ruth..... 34, 101
- Coney, Kelly A. ....82
- Conradt, Elisabeth.....47
- Constantin, Corina.....121
- Constantinou, Elena.....115
- Conzelmann, Annette.....85
- Corballis, Paul M..... 27, 68
- Cornwell, Brian .....28
- Corral, Guadalupe .....99
- Correia, Ana .....114
- Corriveau, Isabelle .....98
- Cortoos, Aisha .....89
- Costa, Nuno F.....114
- Costa, Vincent D..... 23, 56,  
.....74
- Courtney, Kelly E. .... 31, 87
- Covassin, Naima.....64
- Critchley, Hugo D.....30
- Crites, Stephen L. .... 92, 99
- Crocker, Laura D.....71
- Crombez, Geert .....94
- Cui, Yong .....84
- Curtin, John J. .... 15, 26, 39,  
..... 61, 92
- Cuthbert, Bruce N.....91
- D**
- Dahl, Ronald S. ....86
- Dani, John A. ....84
- Davenport, Paul W.....102
- David, Isabel A. .... 73, 103
- Davidson, Richard J.....97
- Davies, Patricia L..... 56, 57
- Davis, Alexandra.....57
- Davis, C. Ervin .....102
- Davis, Claude E. .... 78, 79
- Davis, Elizabeth L.....62
- Davis, F. Caroline.....46
- Davis, Hasker P. ....85
- Davis, Mary C. ....102
- Dawson, Michael.....121
- de Araujo, Draulio B. ....119
- De Houwer, Jan.....94
- De Min Tona, Giuliano ..64
- De Raedt, Rudi.....103
- De Valck, Elke.....89
- De Weerd, Sonia .....89
- de Zambotti, Massimiliano  
.....64
- deAzevedo, Leonardo C.....  
.....110

Decarie, Benoit ..... 119  
 DeCicco, Jennifer M..... 79  
 DeGuzman, Gonzalo C. .. 95  
 Del Re Elizabetta ..... 77  
 Deldin, Patricia J. .... 78  
 Delgado, Mauricio R. .... 23  
 Dell'Acqua, Roberto ..... 98  
 Delorme, Arnaud..... 21, 28,  
 ..... 37  
 Demaree, Heath A. .... 78, 90  
 Demiral, Sukru B..... 111  
 Dempsey, Jared P..... 55  
 Dennis, Tracy A..... 37, 59,  
 ..... 79, 80, 88  
 Derakshan, Nazanin .. 27, 28  
 Descallar, Edward A..... 77  
 Desjardins, James..... 51  
 Devigili, Andrea..... 64  
 Devine, Michael J. .... 102  
 Devine, Patricia G. .... 38  
 DeVyllder, Jordan E. .... 68  
 Dhillon, Sukhbir..... 117  
 Díaz, Sandra ..... 70  
 Dieler, Alica C. .... 96  
 Dien, Joseph ..... 15, 24, 25,  
 ..... 26, 54  
 Diesch, Eugen..... 112  
 Dietel, Anja..... 116  
 Dietz, Jenna B..... 56  
 Diggs, Herman A..... 82  
 Dillon, Dan D. .... 103  
 Ding, Yulong ..... 118  
 Ditre, Joseph W..... 93  
 Dobel, Christian ..... 52, 53,  
 ..... 54  
 Dobrich, Oliver M..... 79  
 Domschke, Katharina .... 105  
 Donchin, Emanuel ... 25, 69,  
 ..... 70  
 Douglas, Haley A. C..... 36  
 Dozier, Mary ..... 43, 120  
 Driscoll, Erin ..... 116  
 Drislane, Laura E. .... 77  
 Drmic, Irene E..... 83  
 Drobos, David J. .... 93, 114  
 Duberstein, Paul..... 63  
 Duke, Michael W. .... 49, 50  
 Duncan, Erica..... 43  
 Dunning, Jonathan P..... 43,  
 ..... 54

Duschek, Stefan ..... 106  
 Duval, Elizabeth R..... 91  
 Dywan, Jane ..... 51, 52  
 Dzyundzyak, Angela ..... 51

## E

Eddinger, Rebecca L. .... 57  
 Eden, Annuschka S..... 52  
 Edgar, J. Christopher ..... 71  
 Edwards, Keith J..... 98  
 Eickhoff, Simon ..... 120  
 Eisenbarth, Hedwig ..... 109  
 Elbert, Thomas ..... 72  
 Eldridge, E. Devon ..... 55  
 Eldridge, Sarah..... 82  
 Ellingson, Roger M..... 50  
 Elmers, Jamie L..... 52  
 Elmore-Staton, Lori ..... 115  
 El-Sheikh, Mona.... 105, 115  
 Emonts, Patrick ..... 29  
 Enck, Paul..... 89, 116  
 Engelhardt, Christopher R..  
 ..... 50  
 Engelmann, Jeffrey M..... 91  
 Enguix, Alfredo..... 113  
 Erickson, Molly A. .... 73  
 Ernst, Monique... 23, 27, 28,  
 ..... 42, 43  
 Erthal, Fatima S. .... 119  
 Esteller, Àngels.... 65, 66, 67  
 Esteves, Francisco .. 117, 120  
 Esteves, Paula..... 105  
 Evans, David E. .... 114  
 Everhart, Daniel Erik..... 78,  
 ..... 79, 102  
 Ewing, Katie C. .... 104

## F

Fabiani, Monica... 54, 55, 56  
 Fairclough, Stephen H... 104  
 Fales, Christina ..... 28  
 Fallgatter, Andreas J..... 96  
 Faria-Júnior, Aydamari .. 103  
 Faulk, Kathryn E. .... 93  
 Federmeier, Kara D. .... 55,  
 ..... 56, 62, 63  
 Fekri, Shiva..... 33, 116

- Ferdinand, Nicola K. .... 113,  
..... 115
- Fernández, M. Carmen.....70
- Ferreira, Fernanda..... 111
- Ferri, Jamie M. .... 43, 53
- Fettich, Karla ..... 75, 76
- Fias, Wim ..... 103
- Figuroa-Varela, Marlen ...61
- Filion, Diane L. ... 57, 91, 93
- Fincher, Danielle E.....82
- Fisher, Derek J..... 81, 83
- Fisher, Joscelyn E.....71
- Flaisch, Tobias .....88
- Flanary, Kristin W. ....46
- Flaten, Magne A. ....84
- Flor, Herta..... 112
- Flynn, Zachary A. ....67
- Fonareva, Irina G.....50
- Fonfría, Alicia ..... 65, 66, 67
- Fonseca, Isabel B..... 114
- Fonseca, Tiago ..... 114
- Ford, Elizabeth ..... 101
- Ford, Judith M. .... 31, 33,  
..... 122
- Forsberg, June T. ....84
- Forster, Bettina ..... 77, 119
- Fortier-Gauthier, Ulysse ...98
- Foti, Dan ..... 43, 53, 54
- Fowler, Katherine A.....39
- Fowles, Don .....44
- Fox, Allison.....93
- Fox, Julia R.....59
- Fox, Nathan A. .... 37, 42
- Fox, Peter T..... 110
- França, Aniela Improta ....75
- Franken, Ingmar H. A. ....58,  
..... 103, 104
- Fredrikson, Mats.....29
- Freydefont, Laure .....80
- Friederici, Angela D..... 109
- Friedman, Bruce H... 64, 65,  
.....88
- Friedman, David..... 76, 88
- Frishkoff, Gwen A. ....24
- Fuentes, Luis J. .... 109
- Fujiwara, Koji ..... 101
- Furman, Daniella J. ....58
- Furman, Senta A.....88
- Furumitsu, Isato ..... 109
- G**
- Gaál, Zsófia Anna .....96
- Gable, Philip A. .... 32, 33,  
..... 57, 58
- Galfano, Giovanni ... 64, 109
- Gallicchio, Germano .....64
- Gandhi, Tapan K.....51
- Gao, Xuefei.....62
- Garcia, Natasha E. ... 93, 114
- Garnsey, Susan M..... 55, 99
- Garrido, Sergio .....106
- Gaskell, Gareth .....52
- Gatzke-Kopp, Lisa .....37
- Gavin, William J..... 56, 57
- Geary, David C.....91
- Gehring, William J. ....113
- Gekker, Anna .....68
- Gendolla, Guido H. E. ....80
- Geng, Fengji .....95
- Genofre, Maria Alice .....110
- Gerdes, Antje B. M.... 85, 86
- Gessner, Stacia N.....93
- Geukes, Sebastian .....52
- Gherri, Elena .....119
- Gianaros, Peter J.....29
- Gift, Thomas E.....63
- Gil, Roberto..... 33, 116
- Gilbert, David G. .... 78, 82
- Gilbert, Timothy R. ....67
- Gilley, Phillip M.....119
- Gilmore, Casey S. ....65
- Giritharan, Andrew.....82
- Glahn, David C. ....110
- Glatt, Charles E. ....120
- Glöckner, Franka.....72
- Goforth, Kristen .....69
- Gola, Mateusz K.....70
- Gold, Brian T. ....25
- Goldberg, Joel O. ....83
- Goldman, Mark S.....70
- Goldschmied, Jennifer R. ....  
.....78
- Goldstein, Kim E.....74
- Gollan, Jackie K.....46
- Gomes, Juliana Novo .....75
- Goncalves, Oscar .....77
- González, Isis.....49
- Gonzalez, Jennifer .....92
- Gonzalez, Richard.....100

- González-Garrido, Andrés A. .... 97
- Goodman, Marianne ..... 74
- Goodwin, Matthew S. .... 75
- Gotlib, Ian H. .... 58
- Goto, Masashi ..... 111
- Graf, Megan ..... 80
- Grant, Bryan ..... 81
- Grant-Weaver, Sara ..... 75
- Grasso, Damion ..... 120
- Gratton, Gabriele ..... 45, 54,  
..... 55, 56
- Gravens, Laura C. .... 69
- Gray, Marcus A. .... 30
- Green, Michael F. .... 95
- Greenaway, Katharine H. ....  
..... 118
- Greenstein, Joshua ..... 79
- Greischar, Lawrence L. .... 97
- Grigoryan, Vilena ..... 111
- Grillon, Christian .... 28, 120
- Grimault, Stephan ..... 98
- Grimshaw, Gina M. .... 114
- Groppe, David M. ... 40, 105
- Gross, James J. .... 43, 58
- Grubbs, Elizabeth L. .... 85
- Gründler, Theo O. J. .... 94
- Gschwendtner,  
Kathrin Mareike ..... 111
- Güereca, Yvette M. .... 99
- Guerra, Pedro ..... 49
- Gugushvili, Manana ..... 107
- Güllmar, Daniel ..... 69
- Guo, Jingjing ..... 88
- H**
- Habib, Reza ..... 82
- Häcker, Frank E. K. .... 88
- Hackley, Steven A. . 91, 107,  
..... 118
- Haerich, Paul ..... 97
- Haesevoets, Roderick ..... 50
- Hajcak, Greg. .... 15, 26, 32,  
..... 43, 50, 53, 54, 79
- Halim, May Ling ..... 98
- Hall, Jason R. .... 39, 55
- Hall, Julie L. .... 100
- Hall, Todd W. .... 98
- Halsband, Teresa M. .... 115
- Hamalainen, Jarmo ..... 110
- Hamamoto, Yuki ..... 85
- Hamilton, Brian K. .... 60
- Hamilton, Holly K. .... 95
- Hamilton, Jessica L. .... 57
- Hamilton-Cotter, Lexa .... 89
- Hamm, Alfons O. .... 49
- Hammer, Micah A. .... 65
- Hammond, Geoff ..... 93
- Hardin, John F. .... 50, 121
- Hardin, Michael G. .... 43
- Hariri, Ahmad R. .... 46
- Harkavy-Friedman, Jill M.  
..... 33, 116
- Harmon-Jones, Eddie .... 32,  
..... 33, 38, 57, 58, 69, 94
- Harper, Jeremy B. .... 55, 77
- Harrison, David W. .... 50,  
..... 121
- Harrison, Larissa ..... 102
- Hartley, Catherine A. .... 120
- Harvison, Kyle W. .... 42
- Hasegawa, Toshikazu ..... 121
- Hasting, Anna S. .... 109
- Hauf, Jessica D. .... 78, 79,  
..... 102
- Hauk, Olaf O. .... 24
- Hauswald, Anne ..... 119
- Hawk, Larry W. .... 15, 26, 63
- Hawkins, Kimberly E. .... 57
- Hazlett, Erin A. .... 74
- Hedman, Elliott B. .... 75
- Heenan, Adam ..... 81
- Hefner, Kathryn R. .... 61
- Hegd , Jay ..... 30
- Hegeman, Daniel ..... 87
- Hehman, Eric ..... 74
- Heim, Courtney ..... 112
- Heissler, Janine ..... 97, 108
- Heller, Aaron S. .... 97
- Heller, Wendy ..... 71
- Henderson, John M. .... 111
- Henderson, Robert ..... 69
- Hendrix, Peter ..... 40
- Hengeveld, Michiel W. .... 58
- Henkell, Heather ..... 74, 96
- Hennig, J rgen ..... 71, 108
- Henningsen, Peter ..... 116
- Henrion, Martin ..... 73, 118
- Henry, Erika A. .... 69

- Herbert, Beate M. .... 89, 116  
 Herbert, Cornelia .....89  
 Hermes, Michael .....72  
 Herring, David R. .... 92, 99  
 Herrmann, Martin Josef .....  
 ..... 111  
 Hershaw, Jamie N. ....73  
 Hetrick, William P. ....73  
 Hewig, Johannes..... 112  
 Highsmith, Jonathan .....78,  
 ..... 102  
 Hilgard, Joseph B. .... 32, 50  
 Hilimire, Matthew R. ....68  
 Hill, LaBarron K. .... 73, 117  
 Hillman, Charles H. ....67  
 Hinnant, Benjamin..... 115  
 Hira, Shinji ..... 85, 109  
 Hiraki, Kazuo .....99  
 Ho, Joanna C. ....87  
 Hoeppli, Marie-Eve ..... 106  
 Hoffmann, Robert F. ....78  
 Hofman, Dennis.....32  
 Hohman, Kelsey .....77  
 Holland, Alissa K. .... 50, 121  
 Holroyd, Clay B. .... 15, 26,  
 ..... 50, 76  
 Holtzheimer, Paul E. ....68  
 Homan, Dirk B. H. ....52  
 Hong, Melanie..... 79, 88  
 Honor, Ann .....97  
 Hoppenbrouwers, Sylco S....  
 .....32  
 Horn, Ed .....81  
 Hornsey, Matthew J. .... 118  
 Hortensius, Ruud .....94  
 Horton, James E. ....85  
 Horváth, János..... 111  
 Houston, Rebecca J. ....72  
 Hu, Xiaoqing.....87  
 Hu, Yuzheng.....95  
 Huang, Hsu-Wen .....62  
 Huijding, Jorg ..... 104  
 Huster, René J. ....52
- I**
- Iacono, William G. .... 25, 45,  
 ..... 65, 98, 107  
 Ilavazhagan, G. ....93  
 Ilivitsky, Vadim ..... 81, 83
- Imanaka, Kuniyasu .....108  
 Inagaki, Masumi .....94  
 Inoue, Yusuke .....83  
 Irwin, Michael R. ....102  
 Ishii, Keiko .....93  
 Itagaki, Shun .....99  
 Ito, Tiffany A. .... 71, 97, 103  
 Ivanitsky, Alexey .... 104, 105  
 Iyer, Aarti.....118
- J**
- Jackson, Edward F. ....24  
 Jackson, Nicholas W. ....92  
 Jackson, Scott R. ....99  
 Jacobson, Joseph L. ....68  
 Jacobson, Sandra W. ....68  
 Jahng, Mi.....59  
 James, Mindy.....85  
 Janes, Julia .....69  
 Jaremka, Lisa M. ....99  
 Jarskog, Lars F. .... 33, 116  
 Jaspers-Fayer, Fern E. ....83,  
 .....84  
 Jatin, Srivastava.....60  
 Jaworska, Natalia ..... 81, 83  
 Jennings, Dick ..... 15, 26  
 Jennings, Richard J. ....29  
 Jetha, Michelle K. .... 37, 83  
 Jin, Alvin .....82  
 Jocham, Gerhard .....94  
 Joffily, Mateus .....119  
 Johnson, Christopher R. ....67  
 Johnson, Clarissa .....57  
 Johnson, Gabriella M. ....91  
 Johnson, Ray Jr. .... 74, 96  
 Johnson, Raymond .....76  
 Johnstone, Stuart J. .... 91, 112  
 Jolicoeur, Pierre .....98  
 Jones, Alexander .....77  
 Jordan, Lee A. ....80  
 Jovanovic, Tanja .....43  
 Joyce, Erika.....86  
 Junghöfer, Markus.... 52, 53,  
 ..... 54, 105
- K**
- Kaad, Lindsay M. ....50  
 Kaczurkin, Antonia.....98

- Kaestner, Erik ..... 86  
 Kaga, Makiko ..... 94  
 Kaiser, Jan..... 90  
 Kam, Julia..... 80  
 Kamijo, Keita..... 67  
 Kamiński, Jan K..... 70, 84  
 Kamp, Siri-Maria..... 70  
 Kamping, Sandra ..... 112  
 Kane, Heidi S. .... 99  
 Kanske, Philipp..... 97, 108  
 Kappas, Arvid ..... 43, 118  
 Kappenman, Emily S. .... 72  
 Kaps, Michael ..... 120  
 Kapsou, Margarita ..... 115  
 Karekla, Maria ..... 115  
 Karlsdóttir, Mardís S..... 82  
 Karnik-Henry, Meghana.....  
 ..... 80  
 Katayama, Jun'ichi.... 93, 95,  
 ..... 111  
 Katsumata, Hiromu ..... 108  
 Kaye, Jesse T..... 71  
 Kayser, Jürgen..... 15, 26, 33,  
 ..... 116  
 Kazmerski, Victoria A. ... 115  
 Keil, Andreas..... 30, 122  
 Keil, Tanner L. .... 117  
 Kelleher, Sarah A. .... 89  
 Kelso, J. A. Scott ..... 95  
 Kemner, Chantal ..... 110  
 Kesek, Amanda ..... 107  
 Kessel, Ellen..... 79  
 Keuper, Kati ..... 52  
 Khachidze, Irma..... 107  
 Khan, Azizuddin ..... 110  
 Kiang, Michael ..... 90  
 Kieffaber, Paul D. .... 73  
 Kim, Hyang Sook ..... 78  
 Kim, Jiyon ..... 53  
 Kim, M. Justin..... 46  
 Kim, Sohye ..... 98  
 Kimura, Kenta ..... 121  
 Kisley, Michael A. .... 85  
 Kissler, Johanna M. .. 24, 54,  
 ..... 119, 120  
 Klaphake, Jonathan A. .... 65  
 Kleffner-Canucci, Killian.....  
 ..... 87  
 Klein, Daniel N. .... 53  
 Klein, Tilmann ..... 94  
 Klimas, Katarzyna ..... 115  
 Klimova, Alina..... 80, 88  
 Kline, Stephanie..... 55  
 Klorman, Rafael..... 63, 68  
 Kloth, Nadine..... 69  
 Knoblich, Günther ..... 113  
 Knoke, Kathrin..... 105  
 Knott, Verner J. .... 81, 83  
 Koenigsberg, Harold..... 74  
 Kolassa, Iris-Tatjana..... 72  
 Kolks, Jonathan ..... 89  
 Körber, Bernd..... 109  
 Korelitz, Katherine..... 43  
 Koruth, K. Jacob..... 60  
 Koslov, Katrina ..... 38  
 Koster, Ernst H. W..... 94  
 Kotani, Yasunori..... 83  
 Kothe, Christian ..... 21, 29  
 Kotov, Roman ..... 53  
 Kourtis, Dimitrios ..... 113  
 Kramer, Arthur F. .... 55  
 Krasner, Michael..... 63  
 Kray, Jutta ..... 94, 113  
 Kreibig, Sylvia D..... 34, 112  
 Kring, Ann..... 72  
 Krompinger, Jason W. .... 69  
 Kroppmann, Christopher J.  
 ..... 33, 116  
 Krupskaya, Ekaterina V. ....  
 ..... 108  
 Kryzhanovskiy, Sergii A. 115  
 Kubicki, Marek..... 34  
 Kübler, Andrea ..... 111  
 Kubota Jennifer T..... 103  
 Kuester, Dennis ..... 118  
 Kuhn, Simone..... 103  
 Kujawa, Autumn J. .... 53  
 Kulik, Julianna..... 76, 88  
 Kuo, Trudy Y. .... 118  
 Kuppens, Peter ..... 47, 107  
 Kurgansky, Andrey V..... 108  
 Kurita, Satoko..... 104  
 Kutas, Marta..... 25, 34, 40,  
 ..... 90, 105  
 Kwon, Seok-Man..... 83

**L**

- Labelle, Alain .....81  
 Labkovsky, Elena B.....87,  
     ..... 122  
 Labouvie-Vief, Gisela.....89  
 Lackner, Christine L. ....51  
 Lai, Yunpeng ..... 118  
 Laird, Angela R..... 110  
 Lam, Cho Y. .... 24, 84  
 Lamm, Connie .....37  
 Landry, Elizabeth.....87  
 Lang, Annie ..... 59, 60, 104  
 Lang, Peter J. .... 23, 25, 56,  
     ..... 74, 102, 103  
 Lange, Sebastian ..... 108  
 Laplante, Marie-Claude.....  
     ..... 102, 103  
 Larsen, Bart .....94  
 Larson, Christine L. . 15, 26,  
     ..... 49, 50, 76  
 Lasauskaite, Ruta .....80  
 Lasko, Natasha B. .... 114  
 Laszlo, Sarah .....55  
 Lauren B. Raine.....67  
 Lazarev, Vladimir V..... 110  
 Leal, Alberto J. R. ....95  
 Lee, Chia-lin.....62  
 Lee, Kang.....71  
 Lee, Sangkyun ..... 107  
 Lee, Sungkyoung .....59  
 Lefebvre, Christine .....98  
 LeHockey, Katie A.. 78, 102  
 Leibenluft, Ellen .....43  
 León, Ana García..... 106  
 Leue, Anja..... 108  
 Lewis, Gregory F.....88  
 Libben, Maya.....78  
 Liefoghe, Baptist.....73  
 Likowski, Katja U.....86  
 Lin, Jia-Yuan .....99  
 Lina, Jean-Marc..... 119  
 Liotti, Mario ..... 83, 84  
 Lipp, Ottmar V. . 64, 67, 68  
 Liu, Cindy H. .... 116  
 Liu, Siwei.....99  
 Lleras, Alejandro ..... 20, 21,  
     .....55  
 Llopis, Juan José ..... 66, 67  
 Lobo, Isabela V. P.....73  
 Lodewyckx, Tom.....107  
 Loewy, Rachel L. .... 33, 122  
 Loke, Yng .....107  
 Lopes, Ricardo J.....95  
 Lopes Da Cunha, Pamela .....  
     .....116  
 López, Raúl..... 65, 66, 67  
 Lotto, Lorella.....64  
 Lovelace, Christopher T. ....  
     .....91  
 Löw, Andreas .....49  
 Low, Kathy A..... 54, 55  
 Low, Sabina .....47  
 Lowe, Cassandra J.....52  
 Lowry, Kent N. ....60  
 Luck, Steve J.....72  
 Lucy, Megan D.....77  
 Luhmann, Christian .....54  
 Lundström, Johan.....120  
 Luo, Yuejia ..... 105, 106  
 Lusk, Bethany.....113  
 Lust, Sarah A. ....69  
 Lustyk, M. Kathleen B.....36  
 Luu, Phan..... 15, 26  
 Ly, David.....37  
 Lyby, Peter S.....84  
 Lyons, Kelli R. ....60

**M**

- Ma, Fengling .....71  
 Mabrouk, Hesham.....88  
 Machado-Pinheiro, Walter  
     .....103  
 Machinskaya, Regina I....108  
 Macklin, Michael L. ....114  
 Macleod, Patrick.....50  
 Maclin, Edward L. .... 54, 55,  
     .....56  
 MacNamara, Annmarie ...43,  
     .....54  
 Maddalena, Yuri .....64  
 Maess, Burkhard.... 109, 111  
 Maheu, Francoise S. ....43  
 Makarchuk, Mykola J. ....115  
 Makeig, Scott..... 21, 28  
 Maldonado, Enrique.....113  
 Mallan, Kimberley M. ....67  
 Mallikarjunaiah, Bhuvana D.  
     .....91

- Malone, Melville M. .... 101  
 Malone, Stephen M. .... 65,  
 ..... 107  
 Manfrinati, Andrea ..... 64  
 Mann-Wrobel, Monica C.  
 ..... 110  
 Manzardo, Ann ..... 117  
 Marchak, Frank M. .... 117  
 Marinovic, Welber ..... 64  
 Markin, Abe ..... 65  
 Marqué, M. José ..... 66, 67  
 Marshall, Peter J. .... 93  
 Marta, Andreatta ..... 92  
 Martin, Frances H. .. 80, 113  
 Martin, Jack ..... 59  
 Martin, Laura N. .... 23  
 Martin, Timothy ..... 76, 88  
 Martinez-Selva, Jose M. ....  
 ..... 112, 113  
 Martin-Vazquez, Maria .....  
 ..... 106  
 Masaki, Hiroaki ..... 118  
 Masui, Keita ..... 92  
 Mata-Martin, Jose Luis .... 61  
 Mathalon, Daniel H. .... 31,  
 ..... 33, 122  
 Mathersul, Danielle ..... 95  
 Mathewson, Karen J. .... 83  
 Mathewson, Kyle E. .... 55  
 Matsumoto, Hiroko ..... 113  
 Matthews, Curtis B. .... 60  
 Matzen, Laura E. .... 63  
 Mauss, Iris B. .... 72  
 Maxfield, Nathan ..... 114  
 Maxian, Wendy ..... 60  
 Mayberg, Helen S. .... 68  
 McCabe, Randi E. .... 51  
 McCombs, Kristin .... 89, 90  
 McDermott, Jennifer ..... 42,  
 ..... 112  
 McDonald, John ..... 98  
 McDonald, Skye ..... 95  
 McDowall, John ..... 114  
 McGinley, Jared ..... 88  
 McGinnis, E. Menton ... 122  
 McIntosh, Judy ..... 81  
 McKee, Jackson ..... 81  
 McKinnon, Margaret C. .. 90  
 McLaughlin, Ian B. .... 65  
 McTeague, Lisa M. ... 56, 74,  
 ..... 102, 103  
 Measelle, Jeffrey ..... 47  
 Mecklinger, Axel ..... 92, 94,  
 ..... 113, 115  
 Meixner, John ..... 122  
 Mella, Nathalie ..... 89  
 Mendes, Wendy B. .... 38  
 Meribela, Nikki ..... 116  
 Merikangas, Kathleen R. ....  
 ..... 120  
 Metaxas, Giorgos ..... 115  
 Meusel, Liesel-Ann C. .... 90  
 Meyer, Aaron M. .... 62  
 Mezin, Jenna ..... 77  
 Mies, Gabry W. .... 58  
 Mikolajewski, Amy J. .... 92  
 Milivojevic, Branka ..... 110  
 Millar, Anne ..... 81  
 Miller, Gregory A. .... 71  
 Miller, Lucy J. .... 75  
 Miller, Tyler M. .... 91  
 Miltner, Wolfgang H. R. ....  
 ..... 112  
 Minnix, Jennifer A. .... 24, 84  
 Minoura, Nanako ..... 95  
 Misaka, Risa ..... 109  
 Miskovic, Vladimir .... 51, 76  
 Mittal, Shivani ..... 91  
 Miu, Andrei C. .... 79  
 Mocaiber, Izabela .... 73, 119  
 Mohamed, Sofia ..... 49, 61  
 Mohamed, Tarik N. .... 110  
 Molés, M. Mar. .... 66  
 Molfese, Dennis L. .... 25, 42  
 Molnár, Márk ..... 96  
 Moltó, Javier ..... 65, 66, 67  
 Monteleone, George ..... 46  
 Mooney, Maggie ..... 88  
 Moran, Alicia M. .... 78  
 Moran, Timothy P. .... 98  
 Moreno, Sylvain ..... 118  
 Morimoto, Fumihito .... 111  
 Moriya, Hiroki ..... 91  
 Morris, Maxwell ..... 87  
 Morris, Sarah E. .... 110  
 Morrison, James W. .... 117  
 Moscovitch, David A. .... 51  
 Moser, Jason S. .... 98  
 Moser, Stephanie E. .... 98

- Motes, Michael A. ... 80, 114  
 Motl, Robert W. .... 67  
 Mott, Emily ..... 116  
 Motz, Benjamin A. .... 73  
 Moulson, Margaret ..... 42  
 Mounts, Jeffrey R. W. .... 68  
 Moya, Leslie ..... 60  
 Moynihan, Jan ..... 63  
 Mucha, Ronald F. .... 85, 86  
 Mueller, Erik M. .... 71  
 Mueller, Jutta L. .... 109  
 Mueller, Sven C. .... 28, 42,  
 ..... 43  
 Mühlberger, Andreas ..... 63,  
 ..... 86, 111, 118  
 Mullen, Tim ..... 21, 28  
 Mullins, Lori B. .... 85  
 Munafô, Marianna .. 64, 109  
 Murdock, Tamera B. .... 57  
 Muris, Peter ..... 103  
 Murphy, Claire ..... 31  
 Murphy, Timothy I. .... 52  
 Myrick, Hugh ..... 93
- N**
- Nadorff, Gayle ..... 59  
 Naftz, Andrea E. .... 85  
 Nakajima, Motohiro ..... 101  
 Naumann, Ewald ..... 72, 117  
 Nelso, Megan ..... 76  
 Nelson, Charles A. .... 42  
 Nelson, Lindsay D. .... 77  
 Nelson, Megan ..... 75  
 Nestor, Paul G. .... 34  
 Neta, Maital ..... 46  
 Neumann, Markus F. .... 110  
 Neumann, Roland ..... 96  
 New, Antonia S. .... 74  
 Newman, Joseph P. ... 39, 92  
 Neyt, Xavier ..... 29  
 Niendam, Tara ..... 72  
 Niida, Sumaru ..... 111  
 Nittono, Hiroshi ..... 91  
 Niznikiewicz, Margaret A. ....  
 ..... 34, 77  
 Noecker, Tara L. .... 85  
 Nogueira-Campos, Anaelli A.  
 ..... 105  
 Nomura, Michio ..... 92  
 Norrholm, Seth D. .... 43  
 Norris, Catherine J. .... 46  
 Novak, Michael A. .... 55  
 Nuechterlein, Keith H. .... 95  
 Nulsen, Claire ..... 93  
 Nutting, Brandon H. .... 60
- O**
- Obonsawin, Marc C. .... 109  
 O'Brien-Simpson, Laurie .....  
 ..... 47  
 Ochsner, Kevin N. .... 54  
 O'Donnell, Brian F. .... 75  
 O'Donnell, Róisín ..... 61  
 Ogawa, Keiko ..... 118  
 O'Hare, Aminda J. .... 87  
 Ohgami, Yoshimi ..... 83  
 Ohira, Hideki ..... 85, 90, 96  
 Oitzl, Melly S. .... 72  
 Oken, Barry S. .... 50  
 Okun, Michael S. .... 56  
 O'Leary, Kevin C. .... 67  
 O'Leary, Megan M. .... 92  
 Oliveira, Armando M. .... 114  
 Oliveira, Laura A. S. .... 105  
 Oliveira, Letícia ..... 73, 103,  
 ..... 119  
 Oliver, Jason A. .... 93  
 Olson, Lacy A. .... 79  
 Olsson, Mats ..... 120  
 Onton, Julie A. .... 21, 28  
 Onyewuenyi, Ikechukwu C.  
 ..... 29  
 Opitz, Bertram ..... 92  
 Opitz, Philipp C. .... 58  
 Ornduff, Renee ..... 114  
 Orr, Scott P. .... 114  
 Ortega-Roldán, Blanca ..... 70  
 Ortiz, Carmen ..... 113  
 Ortman, Magdalene ..... 54  
 Osinsky, Roman ..... 108  
 Osumi, Takahiro ..... 90  
 O'Toole, Laura J. .... 80
- P**
- Page-Gould, Elizabeth ..... 38  
 Palhoco, Rita ..... 114  
 Palomba, Daniela ..... 63, 64

- Pana, Simona E..... 79  
Panayiotou, Georgia ..... 115  
Panczakiewicz, Amy L..... 72  
Pandina, Robert J. .... 121  
Pardikes, Thomas J. ... 64, 88  
Parham, Diane..... 121  
Park, Seonhye ..... 74  
Parks, Nathan A..... 56, 68  
Pastor, M. Carmen ..... 66  
Patrick, Christopher J. .... 39,  
..... 44, 55, 77, 79  
Patrick, Sarah K. .... 77  
Patriquin, Michelle A..... 89  
Pattyn, Nathalie..... 29, 89  
Pauli, Paul..... 63, 85, 86, 92,  
..... 118  
Paulson, Ryan ..... 69  
Peigneux, Philippe ..... 29  
Peloso, Elizabeth ..... 43  
Peng, Danling..... 88  
Penick, Elizabeth ..... 117  
Penney, Trevor B. .... 99  
Perakakis, Pandelis.... 49, 61,  
..... 103  
Pereira, Mirtes G. ... 73, 103,  
..... 119  
Perez, Veronica B.... 33, 122  
Pérez Bocourt, Vanessa .. 117  
Perfetti, Charles A..... 24  
Perlman, Greg..... 65  
Perschler, Pamela ..... 82  
Person, Perry L. .... 82  
Pescosolido, Bernice..... 59  
Peterson, Carly K..... 69  
Peterson, Mary A. .... 97  
Phelps, Elizabeth A. .... 120  
Picard, Rosalind W..... 75,  
..... 120  
Picchiatti, Matthew A. .... 78  
Piguet, Camille ..... 106  
Pine, Daniel S. .... 43  
Pineles, Suzanne L. .... 114  
Pinheiro, Ana..... 77  
Pitchforth, Amy M. .... 97  
Pivik, R. T. .... 115  
Plichta, Michael M. .... 96  
Poje, Albert B. .... 117  
Polich, John ..... 31, 35, 37,  
..... 67, 86, 87  
Polivanaya, Veronica..... 59  
Pollak, Seth..... 112  
Pollatos, Olga ..... 89, 116  
Pomerleau, Vincent ..... 98  
Pontes, Adailton ..... 110  
Pontifex, Matthew B..... 67  
Porges, Stephen W..... 88  
Porte, Xavier ..... 108  
Potts, Geoffrey F..... 70  
Pourtois, Gilles ..... 28, 30  
Povzner, Anna..... 61  
Powers, Alisa..... 79, 88  
Poy, Rosario..... 65, 66, 67  
Prada, Laura..... 108  
Prasad, Dipti N..... 93  
Pratt, Christopher A. .... 101  
Preeti, Solanki..... 93  
Price, Tom F..... 58, 69  
Prudhomme, Christopher ...  
..... 55  
Pu, Jie ..... 92  
Pulgar, Angeles ..... 106  
Puschmann, Anne-Katrin ...  
..... 118  
Putsche, Christian.... 52, 105
- Q**
- Qi, Zhenghan ..... 99  
Qu, Zhe ..... 118  
Quandt, Lorna C. .... 93
- R**
- Rabini, Serena..... 64  
Racer, Kristina H. .... 87  
Rafael, Shaun..... 72  
Ragland, J. Daniel..... 72  
Raine, Lauren B. .... 67  
Ramírez, Isabel..... 49  
Ramos-Loyo, Julieta ..... 97  
Ranganath, Charan ..... 72  
Rasmusson, Ann M..... 114  
Ratner, Kyle G..... 98  
Rauber, Adrianna..... 77  
Raudenbush, Bryan.... 89, 90  
Ray, Rebecca D..... 121  
Reckert, Erika K. .... 82  
Rehbein, Maimu..... 52  
Reichenbach, Jürgen R. ... 69  
Reichert, Philipp..... 86

- Reinka, Mora.....87  
 Renner, Britta ..... 87, 88  
 Ressler, Kerry.....43  
 Reyes del Paso, Gustavo A.  
 ..... 106  
 Richeson, Jennifer A. ....38  
 Richter, Michael .....80  
 Riek, Stephan .....64  
 Rigoni, Davide..... 103  
 Roach, Brian J. ....33  
 Robaey, Philippe..... 119  
 Robert W. McCarley .....77  
 Roberts, Nicole A. .... 101,  
 ..... 102  
 Robinson, Jason D..... 24, 84  
 Robinson, Jennifer L..... 110  
 Robinson, Jordan S.....76  
 Robles, Elias..... 101  
 Rodrigues, Ericka C..... 105  
 Rodriguez, Claudia .....96  
 Rodriguez, Valia ..... 117  
 Rodríguez-Fornells,  
 Antoni.....52  
 Rodríguez-Ruiz, Sonia .....70  
 Roger, Clémence ..... 103  
 Romanos, Marcel.....85  
 Roodenrys, Steven .....91  
 Root Luna, Lindsey M... 100  
 Rosa, Pedro J. .... 117  
 Rose, Suzanne.....53  
 Rosen, Peter J. .... 109  
 Rosenblatt, David.....97  
 Rosenfeld, J. Peter ... 87, 122  
 Rossi, Valentina .....30  
 Row, Kathleen L.....79  
 Rubenking, Bridget .....59  
 Ruiz, Sergio ..... 107  
 Rumak, Samuel P. ....75  
 Rumiati, Rino.....64  
 Rushby, Jacqueline A.....95  
 Russo, Maitê M. .... 105  
 Rutledge, John E. .... 50, 121  
 Rypma, Bart ..... 80, 114
- S**
- Sabatinelli, Dean ..... 23, 30  
 Sack, Martin ..... 116  
 Sadeh, Naomi ..... 39, 70  
 Sahibdin, Priya P. .... 111  
 Sai, Tomohiro .....114  
 Saladin, Michael E.....93  
 Salisbury, Dean F. ....78  
 Salomon, Kristen .....82  
 Sánchez, Alicia.....49  
 Sanchez, Tiago A. ....119  
 Sanchez-Navarro, Juan P.  
 ..... 112, 113  
 Sandoval, Traci I.....80  
 Sanghera, Manjit K.....110  
 Sanguinetti, Joseph L.....97  
 Santesso, Diane L. ....51  
 Sappington, Mark.....90  
 Sarlo, Michela.... 63, 64, 109  
 Sass, Sarah M.....71  
 Sassi, Federica .....109  
 Sato, Toshihiko .....114  
 Sauer, Helene.....89  
 Saults, J. Scott..... 50, 69  
 Saunders, Lauren V. ....79  
 Scarpa, Angela .....89  
 Schächinger, Hartmut .....72  
 Scheirer, Jocelyn C. ....120  
 Schell, Ann .....121  
 Schellenberg, E. Glenn ...118  
 Schiller, Niels O. ....24  
 Schirmer, Annett .... 99, 107  
 Schmäzle, Ralf ..... 87, 88  
 Schmidt, Louis A. .... 51, 76,  
 .....83  
 Schmitz, Anja .....120  
 Schneider-Garces, Nils.....54  
 Schneiders, Julia A. ....92  
 Schönfelder, Sandra .....97,  
 .....108  
 Schultheiss, Oliver C. ....100  
 Schulz, Stefan M.....96  
 Schupp, Harald T. .... 87, 88,  
 .....96  
 Schutter, Dennis J. L. G. ....  
 ..... 32, 94  
 Schwabe, Lars .....49  
 Schweinberger, Stefan R. ....  
 ..... 69, 106, 110  
 Scott, Madeline R.....82  
 Scudder, Mark R. ....67  
 Sears, Lonnie .....71  
 Sebanz, Natalie .....113  
 Segalowitz, Sidney J.....37,  
 ..... 51, 52

- Segarra, Pilar ..... 65, 66, 67  
 Segura, Enrique..... 116  
 Seibt, Beate ..... 86  
 Senholzi, Keith B. .... 97  
 Senkfor, Ava J. .... 118  
 Senn, Jessica M. .... 51  
 Serences, John..... 27  
 Shah, Dhraasti K. .... 81, 83  
 Sharma, Amit..... 74  
 Sheeber, Lisa B..... 47, 107  
 Shenton, Martha E. .... 34  
 Sheppard, Jaimee C. .... 101  
 Sheppes, Gal ..... 43  
 Sheu, Lei K. .... 29  
 Shibahara, Yusuke..... 118  
 Shiels, Keri..... 63  
 Shin, Lisa M. .... 59  
 Shiota, Michelle N..... 98  
 Shipley, Thomas F. .... 93  
 Sholty, Gretchen L..... 95  
 Shortt, Joann Wu ..... 47  
 Shumen, Joshua R. .... 102,  
 ..... 103  
 Siebenbrock, Anne..... 117  
 Siegle, Greg J. .... 15, 26, 34,  
 ..... 86, 101  
 Siever, Larry J. .... 74  
 Silk, Jennifer ..... 86  
 Silton, Rebecca ..... 71  
 Silver, Michael ..... 27  
 Silvestrini, Nicolas ..... 80  
 Simmons, Julian G. .... 47  
 Simons, Robert F..... 69, 74,  
 ..... 120  
 Simonsen, Dory R. .... 102  
 Sinha, Pawan ..... 51  
 Sitaram, Ranganatha..... 107  
 Smirnov, Kirill..... 104, 105  
 Smith, Dylan M..... 81  
 Smith, Nathaniel J. .... 40  
 Smith, Rachelle..... 80  
 Smits, Marion ..... 58  
 Snidman, Nancy ..... 116  
 Soh, Yong Hao ..... 99  
 Sokhadze, Estate ..... 71  
 Sokolovsky, Alexander .... 87,  
 ..... 122  
 Sollers, John J. III .... 29, 73,  
 ..... 117  
 Solomon, Beylul ..... 88  
 Solomon, Marjorie..... 72  
 Sommer, Claudia ... 111, 118  
 Southward, Matthew ..... 75,  
 ..... 76  
 Spanner, Sarah ..... 109  
 Sparks, Johnny V. .... 60  
 Spear, Linda..... 35  
 Spironelli, Chiara..... 64  
 Sprague, Jenessa ..... 70  
 Sramko, Valery ..... 84  
 Sripada, Chandra ..... 100  
 Stahl, Johanna..... 69  
 Stanculescu, Maria..... 80  
 Stanford, Matthew S..... 91  
 Stanley, Emily M. .... 74  
 Stanley, Tanya ..... 55  
 Stark, Rudolf ..... 86  
 Stegagno, Luciano..... 64  
 Steinhauer, Stuart R..... 34,  
 ..... 101  
 Stemmler, Gerhard ..... 71  
 Stepanyan, Anna..... 111  
 Stepanyan, Lusine..... 111  
 Steppacher, Inga ..... 120  
 Steuer, Elizabeth L.... 49, 50  
 Stewart, Jennifer L. ... 62, 71,  
 ..... 90, 104  
 Stewart, Julia K. .... 82  
 Stieben, Jim ..... 37  
 Stine-Morrow, Elizabeth A.  
 ..... 62  
 Stippe Kohl, Bastian ..... 86  
 Stites, Mallory C..... 55, 62  
 Stockwell, Tim..... 50  
 Strelzyk, Florian..... 72  
 Strong, Ashley L..... 85  
 Stuart, Barbara K. .... 33, 122  
 Studer, Joseph..... 89  
 Subotnik, Kenneth L. .... 95  
 Sugai, Chihiro..... 82  
 Sugimoto, Fumie ..... 93  
 Sun, Jane C..... 95  
 Sundar, S. Shyam..... 121  
 Suomi, Steve ..... 26  
 Suzuki, Kota ..... 94  
 Swaab, Tamara ..... 72  
 Swain, Rebecca A..... 102  
 Swendsen, Haruka C. .... 120  
 Sysoeva, Olga..... 104, 105  
 Szmalec, Arnaud ..... 73

**T**

- Tabullo, Angel ..... 116  
 Talbot, Nancy.....63  
 Tamakoshi, Seiji .....95  
 Tanaka, James W.....76  
 Tang, Yi-Yuan .....36  
 Taromino, Caroline... 75, 76  
 Tassinary, Louis G.....91  
 Taubitz, Lauren E..... 49, 76  
 Taylor, Jeanette E. .... 44, 92  
 Taylor, Jennifer H. .... 92, 99  
 Tays, William J.....52  
 Telles, Shirley A.....61  
 Tenke, Craig E. .... 33, 116  
 Tennenbaum, Rachel.....77  
 Thatcher, Joan E.....63  
 Thayer, Julian F..... 15, 26,  
 ..... 29, 73, 117  
 Themanson, Jason R..... 109,  
 ..... 119  
 Theunis, Mathias..... 118  
 Thiruchselvam, Ravi.....43  
 Thompson, Andrea.....83  
 Thompson, Renee J.....58  
 Timmer, Kalinka .....24  
 Tisdale, Erin K. ....80  
 Tognoli, Emmanuelle .....95  
 Tonevitsky, Alexander ... 105  
 Tops, Mattie..... 113  
 Torpey, Dana .....53  
 Torrente, Ginesa..... 112  
 Torres, Dhannia ..... 102  
 Torres, Ivan D. ....99  
 Tóth, Annamária ..... 111  
 Tóth, Brigitta.....96  
 Towers, David N. ....90  
 Trawalter, Sophie.....38  
 Tremblay, Antoine.....40  
 Troller-Renfree, Sonya... 112  
 Tronick, Ed ..... 116  
 Tsankova, Elena..... 118  
 Tse, Chun-Yu .....55  
 Tsukamoto, Tetsuji .....83  
 Tucker, Don M. .... 30, 31  
 Tuerlinckx, Francis..... 107

**U**

- Ugoya, Solomon O..... 109

- Uhlman, Tim .....122  
 Ullsperger, Markus .....94  
 Umiltà, Carlo ..... 64, 109  
 Unger, Kerstin .....94  
 Urry, Heather L..... 43, 58,  
 .....59

**V**

- Vaidyanathan, Uma.. 39, 55,  
 .....77  
 Van Bockstaele, Bram.....94  
 van den Berg, Ivo.... 58, 103,  
 .....104  
 Van den Nest, Annick .....29  
 Van der Helden, Jurjen...120  
 Van der Molen, Maurits W.  
 .....58  
 Van der Veen, Frederik M.  
 ..... 58, 111  
 van Noordt, Stefon J. R...51  
 Van Petten, Cyma .....118  
 van Reekum, Carien M.....  
 ..... 15, 26, 43, 44  
 van Steenberg, Henk.....71  
 van Strien, Jan W. ....104  
 Vandamme, Kimberley.....73  
 Vanderhasselt, Marie-Anne  
 .....103  
 Vandierendonck, André...73  
 Vanman, Eric J. .... 73, 118  
 Vargas, Claudia D. ....105  
 Vaschillo, Bronya.....121  
 Vaschillo, Evgeny G.....121  
 Vázquez-González, María E.  
 .....97  
 Veit, Ralf .....107  
 Venables, Noah C.....77  
 Ventura, Joseph .....95  
 Vernis, Sergio .....116  
 Verona, Edelyn .... 39, 61, 70  
 Versace, Francesco .... 24, 84  
 Verschuere, Bruno .....94  
 Vicente, Victoria..... 66, 67  
 Vidovic, Dragana.....65  
 Vila, Jaime ... 49, 61, 70, 103  
 Villeneuve, Crystal.....81  
 Vincelette, Tara M.....101,  
 .....102  
 Vinchurkar, Suhas A.....61

- Vincken, Walter..... 89  
 Vinogradov, Sophia ..... 33,  
 ..... 122  
 Visweswaraiah, Naveen K. ...  
 ..... 61  
 Volchan, Eliane..... 73, 103,  
 ..... 105, 119  
 Volokhov, Rachael N..... 90  
 von Leupoldt, Andreas... 102
- W**
- Wachsmuth, Cornelia.... 116  
 Wacker, Jan ..... 71  
 Wade, Terrance J..... 51  
 Wadsworth, Martha E. .... 72  
 Wager, Tor D. .... 29  
 Wainselboim, Alejandro .....  
 ..... 116  
 Walentowska, Wioleta.... 82  
 Walsh, Amy ..... 114  
 Wan, Li..... 91  
 Wang, Shuo ..... 107  
 Wang, Yunqi ..... 95  
 Wang, Zheng..... 60  
 Wangelin, Bethany C..... 56  
 Wankner, Sarah ..... 116  
 Warnke, Andreas ..... 85  
 Warren, Christopher M.. 76  
 Watanabe, Katsumi ..... 94  
 Waters, Allison C..... 31  
 Watson, Todd D. .... 94  
 Waugh, Christian E. .... 58  
 Weber, Dana J. .... 102  
 Weigel, Rebecca..... 42  
 Weihs, Karen L..... 61  
 Weimer, Katja..... 89, 116  
 Weinberg, Anna..... 32, 50,  
 ..... 53, 54  
 Weishaar, Jeff..... 122  
 Weissflog, Meghan J. .... 51  
 Weissman, Jessica ..... 75, 76  
 Weller, Joshua..... 112  
 Wells, Krista C..... 60  
 Weng, Xuchu..... 92  
 Wessa, Michèle ..... 97, 108  
 Westerlund, Alissa ..... 42  
 Westphal, Pamela S. .... 117  
 Wetter, David W. .... 84  
 Weyers, Peter..... 85, 86, 118  
 Weymar, Mathias ..... 49  
 Whalen, Paul J..... 46  
 Wheaton, Kelly..... 63  
 White, Katherine R..... 92  
 White, Lauren K..... 37  
 Whitman-Gabrieli, Susan ...  
 ..... 34  
 Whittle, Sarah..... 47  
 Wible, Cynthia ..... 34  
 Wiersema, Jan R. .... 103  
 Wiese, Holger ..... 69, 106  
 Wieser, Matthias J. .... 32, 86  
 Wilhelm, Frank H. .... 72  
 William, Hetrick P. .... 75  
 Williams, John K. .... 98, 119  
 Williams, Matthew K. .... 85  
 Wilson, Laura C. .... 89  
 Winkler, Markus H. .... 86  
 Winograd, Michael R. .... 87  
 Wirkner, Janine ..... 49  
 Wise, Kevin R..... 59  
 Wise, Wesley T..... 60  
 Witherspoon, Richelle L.....  
 ..... 52  
 Witowski, Philip ..... 118  
 Witzke, Wolfgang..... 120  
 Wlotko, Edward W. .. 56, 62  
 Wolff, Brian C..... 72  
 Wollbrink, Andreas..... 52  
 Wolz, Ines..... 94  
 Woo, Choong-Wan ..... 83  
 Woodruff-Borden, Janet.. 42  
 Woodward, Steven H. ... 119  
 Wright, Jordan..... 82  
 Wróbel, Andrzej ..... 70, 84  
 Wronka, Eligiusz ..... 82  
 Wu, Changxu ..... 72  
 Wu, Chien-Ting..... 67  
 Wu, Dingcheng ..... 71  
 Wu, Lingdan..... 92  
 Wu, Qiang..... 102  
 Wyczesany, Miroslaw..... 90  
 Wyse, Lonce ..... 99
- X**
- Xiaoqing, Hu..... 87  
 Xie, Xiyao ..... 105  
 Xu, Fen ..... 71  
 Xu, Gong..... 106

**Y**

Yadon, Carly A. ....57  
Yagi, Akihiro..... 93, 95, 111  
Yakub, Krista G. ....70  
Yamazaki, Katuo..... 118  
Yancey, James .....55  
Yap, Marie .....47  
Yatabe, Kiyomi .....94  
Yee, Cindy M. ....95  
Yehuda, Rachel ..... 114  
Yen, Nai-Shing .....99  
Yi, Yuji..... 76, 88  
Yoon, Henry H..... 65, 107  
Yoon, So-Yeon.....59  
Yoshihiro, Tatsuya .....83  
Young, Keith M..... 87, 91  
Young, Thomas .....93

**Z**

Zajdel, Daniel P.....50  
Zald, David H. .... 23, 121  
Zambrano-Vazquez, Laura ...  
..... 61, 78, 99  
Zanutto, Silvano .....116  
Zautra, Alex J.....102  
Zeanah, Charles H.....42  
Zelazo, Philip D. ....107  
Zhang, Han .....53  
Zhao, Jingjing.....88  
Zhou, Haotian..... 75, 76  
Zhu, Chao-Zhe.....53  
Zhu, John ..... 74, 96  
Zinner, Leah R. ....38  
Zipfel, Stephan ..... 89, 116  
Zwanzger, Peter .....105  
Zwitserslood, Pienie.... 52, 53  
Zyma, Igor G.....115

## *NOTES*

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# **PROGRAM SCHEDULE AT-A-GLANCE**

## **Tuesday, September 28, 2010**

8:30 A.M.–4:30 P.M., Salon GH, *Pre-Conference Workshop #1 (day one), Fundamentals of MATLAB*

## **Wednesday, September 29, 2010**

8:30 A.M.–4:30 P.M., Salon GH, *Pre-Conference Workshop #1 (day two), Fundamentals of MATLAB*

8:30 A.M.–4:30 P.M., Salon AB, *Pre-Conference Workshop #2, EEGLAB: Basic and Advanced Tools for Electrophysiological Data Analysis*

12:00 noon–5:00 P.M., Columbia Room, *SPR Board of Directors' Meeting*

3:00 P.M.–7:00 P.M., Oregon Ballroom Foyer, *Registration Opens*

4:00 P.M.–7:00 P.M., Exhibit Hall Foyer, *Internet Station*

6:00 P.M.–9:00 P.M., Oregon Museum of Science and Industry, *50th Anniversary Reception* (Registration at hotel required prior to departing for the event.)

## **Thursday, September 30, 2010**

7:30 A.M.–6:30 P.M., Oregon Ballroom Foyer, *Registration*

8:00 A.M.–8:00 P.M., Exhibit Hall Foyer, *Internet Station*

8:15 A.M.–10:00 A.M., Salon AB, Symposium 1.1, *B.O.L.D. Statements on Human Reward Processing*

8:15 A.M.–10:00 A.M., Salon GH, Symposium 1.2, *Early Latency Event-Related Reading Potentials: At the Intersection of Lexical and Semantic Processing*

8:15 A.M.–10:00 A.M., Salon EF, Symposium 1.3, SPR 50th Anniversary Symposium #1, *The Present as the Past's Future*

10:00 A.M.–8:15 P.M., Exhibit Hall, *Exhibits Open*

10:00 A.M.–10:30 A.M., Exhibit Hall, *Refreshment Break*

10:30 A.M.–11:30 A.M., Salon EF, Invited Address, *Risk, Resilience, and Gene-Environment Interplay in Primates*, Steve Suomi, PhD

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

11:30 A.M.–1:00 P.M., Mount Hood Room, *Education and Training Committee Roundtable Discussions* (Pre-registration required)

1:00 P.M.–2:30 P.M., Salon EF, Presidential Symposium, *Competing for Attention: Cortical Mechanisms of Selection*

2:30 P.M.–3:00 P.M., Exhibit Hall, *Refreshment Break*

3:00 P.M.–4:30 P.M., Salon EF, Symposium 2.1, *From Perception to Action: When, Where, and How Does Anxiety Break the Chain?*

3:00 P.M.–4:30 P.M., Salon AB, Symposium 2.2, *Methodology Symposium #1, New Dimensions of EEG Research*

3:00 P.M.–4:30 P.M., Salon GH, Symposium 2.3, *Looking Up and Down the Brain: Is the Heart Forever Making the Head Its Fool?*

4:30 P.M.–4:45 P.M., *Break*

4:45 P.M.–6:15 P.M., Salon AB, Symposium 3.1, *Speed Channels: Fast Dynamics of Visual Discrimination and Attention*

4:45 P.M.–6:15 P.M., Salon EF, Symposium 3.2, *Brain Disorder Pastiche: View from the Left Coast*

6:15 P.M.–8:15 P.M., Exhibit Hall, *Poster Session I; Exhibits Open*

8:15 P.M.–10:15 P.M., Salon I, *Early Careers Conversation Hour* (Pre-registration requested)

## **Friday, October 1, 2010**

8:00 A.M.–5:00 P.M., Oregon Ballroom Foyer, *Registration*

8:00 A.M.–8:00 P.M., Exhibit Hall Foyer, *Internet Station*

8:30 A.M.–10:00 A.M., Salon AB, Symposium 4.1, *Attention Motivates and Motivation Attends: Exploring the Interaction Between Emotive and Attentional Processes*

8:30 A.M.–10:00 A.M., Salon GH, Symposium 4.2, *Beyond the Oddball in Schizophrenia Research: Neurophysiologic Studies of Memory and Language Processing*

8:30 A.M.–10:00 A.M., Salon EF, Symposium 4.3, SPR 50th Anniversary Symposium #2, *Psychophysiology in the Next Fifty Years*

- 10:00 A.M.–8:00 P.M., Exhibit Hall, *Exhibits Open*
- 10:00 A.M.–10:30 A.M., Exhibit Hall, *Refreshment Break*
- 10:30 A.M.–11:30 A.M., Salon EF, Invited Address, *Neurobehavioral Function in Adolescence: Developmental and Evolutionary Perspectives on Risk for Alcohol/Substance Use Disorders*, Linda Spear, PhD
- 11:30 A.M.–1:00 P.M., *Break for Lunch* (on your own)
- 11:30 A.M.–1:00 P.M., Mount Hood Room, *Women in Science and Education (W.I.S.E.) Lunch Box Discussion* (Pre-registration required)
- 1:00 P.M.–2:30 P.M., Salon AB, Symposium 5.1, *Psychophysiological and Neurobiological Concomitants of Mindfulness: Evidence from Laboratory Research*
- 1:00 P.M.–2:30 P.M., Salon EF, Symposium 5.2, *Behavioral and Emotional Self-Regulation in Children: Relations with the NOGO N2*
- 1:00 P.M.–2:30 P.M., Salon GH, Symposium 5.3, *Embodiment of the Social Context: Psychophysiological Advances in Intergroup Interaction Research*
- 2:30 P.M.–3:00 P.M., Exhibit Hall, *Refreshment Break*
- 3:00 P.M.–4:30 P.M., Salon EF, Symposium 6.1, *Integrating Emotion and Cognition in Etiological Understandings of Psychopathy*
- 3:00 P.M.–4:30 P.M., Salon AB, Symposium 6.2, *Methodology Symposium #2, Enhancing the Richness and Resolution of ERP Analyses with Savvy Correction for Multiple Comparisons, Multiple Regression, and Generalized Additive Models*
- 4:30 P.M.–4:45 P.M., *Break*
- 4:45 P.M.–5:45 P.M., Salon EF, Invited Address, *Extending the Reach of the Hippocampal System and Relational Memory*, Neal Cohen, PhD
- 6:00 P.M.–8:00 P.M., Exhibit Hall, *Poster Session II; Exhibits Open*
- 10:00 P.M., *Student Social. All students are invited!*

### **Saturday, October 2, 2010**

- 8:30 A.M.–2:30 P.M., Oregon Ballroom Foyer, *Registration*
- 8:00 A.M.–9:00 P.M., Exhibit Hall Foyer, *Internet Station*
- 8:30 A.M.–10:00 A.M., Salon AB, Symposium 7.1, *Psychophysiological and Neurobiological Markers of Early Life Stress Throughout the Life Span*
- 8:30 A.M.–10:00 A.M., Salon EF, Symposium 7.2, *The “Where” and “When” of Emotion Regulation Processes in the Brain*
- 8:30 A.M.–10:00 A.M., Salon CD, Symposium 7.3, *SPR 50th Anniversary Symposium #3, Lykken Was Right! Remembering David Lykken’s Legacy to Psychophysiology on SPR’s 50th Anniversary*
- 10:00 A.M.–10:15 A.M., *Break*
- 10:15 A.M.–10:45 A.M., Salon EF, Award for Distinguished Early Career Contribution to Psychophysiology, *The Social Regulation of Emotion*, James Coan, PhD
- 10:45 A.M.–11:45 A.M., Salon EF, Presidential Address, *Brain Reflections*, Gabriele Gratton, MD, PhD
- 11:45 A.M.–12:15 P.M., *Break*
- 12:15 P.M.–2:15 P.M., Salon EF, *Business Meeting & Luncheon* (Pre-registration required; present your ticket when requested.)
- 2:15 P.M.–2:30 P.M., *Break*
- 2:30 P.M.–4:00 P.M., Salon AB, Symposium 8.1, *Better (or Worse) for Some Than Others: Individual Differences in Emotional Biases*
- 2:30 P.M.–4:00 P.M., Salon CD, Symposium 8.2, *The Psychophysiology of Family Interactions: Exploring the Interaction Between Biological and Interpersonal Processes During Development*
- 4:00 P.M.–7:00 P.M., *Extended Dinner and City Seeing* (on your own)
- 7:00 P.M.–9:00 P.M., Exhibit Hall, *Poster Session III*
- 9:00 P.M.–12:00 midnight, Salon F, *Saturday Night Social—All attendees are welcome!*

### **Sunday, October 3, 2010**

- 8:30 A.M.–12:00 noon, Columbia Room, *SPR Board of Directors’ Meeting*
- 8:30 A.M.–10:00 A.M., Salon AB, *Farewell Breakfast—All are welcome!*