

**SOCIETY FOR PSYCHOPHYSIOLOGICAL
RESEARCH**
59th Annual Meeting

Hyatt Regency Hotel on Capitol Hill,
Washington, DC
September 25-29, 2019

Final Program

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SOCIETY FOR PSYCHOPHYSIOLOGICAL RESEARCH



Founded in 1960, the Society for Psychophysiological Research is an international scientific society with worldwide membership. The purpose of the Society is to foster research on the interrelationships between the physiological and psychological aspects of behavior. To promote this purpose, the Society publishes scientific literature, including the journal, *Psychophysiology*, and holds annual meetings for presentation and discussion of original theory and research, instrumentation and methodology, and new directions and standards in the field.

Program Committee (2018–2019)

Catherine Norris, Swarthmore College (2019 Program Chair)

Anna Weinberg, McGill University (2018 Program Chair)

Dan Foti, Purdue University (2020 Program Chair)

Tatjana Aue, University of Bern

Stephen Benning, University of Nevada, Las Vegas

Mary Burleson, Arizona State University

James Cavanaugh, University of New Mexico

Philip Gable, The University of Alabama

Markus Junghöfer, University of Muenster

Joanna Kissler, Bielefeld University

Echo Leaver, Salisbury University

Lisa McTeague, Medical University of South Carolina

Stephan Moratti, Complutense University of Madrid

Jason Moser, Michigan State University

Lauren Neal, University of Alabama (Student Member)

Sander Nieuwenhuis, Leiden University

Greg Norman, University of Chicago

Cristina Ottaviani, Sapienza University of Rome

Dean Sabatinelli, University of Georgia

Jeffrey Sable, Christian Brothers University

Stacey Schaefer, University of Wisconsin, Madison

Greg Siegle, University of Pittsburgh

Matthias Sperl, University of Marburg (Student Member)

Eric Vanman, University of Queensland

Edelyn Verona, University of South Florida

Eliane Volchan, Federal University of Rio de Janeiro

OFFICERS**President****Ursula Hess**

Humboldt University of Berlin, Berlin, Germany (2018–2019)

Past President**Kara D. Federmeier**

University of Illinois, Urbana-Champaign (2018–2019)

President-Elect**Bruce Bartholow**

University of Missouri, Columbia (2018-2019)

Secretary**Christine Larson**

University of Wisconsin, Milwaukee (2017-2020)

Treasurer**Greg Hajcak**

Florida State University (2016–2019)

Erin Hazlett

Icahn School of Medicine at Mount Sinai (2019-2022)

Board of Directors

Paul Corballis

University of Auckland (2016-2019)

Frini Karayanidis

University of Newcastle (2018-2021)

Sarah Laszlo

Google[X] (2016-2019)

Lisa McTeague

Medical University of South Carolina (2017-2020)

Jason Moser

Michigan State University (2017-2020)

Elizabeth Page-Gould

University of Toronto (2018-2021)

¹Cindy Yee-Bradbury

University of California, Los Angeles

(Publications Committee 2018-2021)

¹Sarah Sass

University of Texas, Tyler

(Committee to Promote Student Interests 2017-2020)

¹Non-voting member of the Board and Ex-Officio

Editor, *Psychophysiology*

Monica Fabiani

University of Illinois, Urbana-Champaign (2018–2020)

SPR Management Office

Susan Rees, Executive Director

Kaylee Walters, Innovations Manager

Robert Winters, Membership/Registration Manager

Jane Shepard, Meeting Planner

Erica Koconis, Finance

Committee Chairs**Archives Committee**

William Iacono

University of Minnesota (2018–2021)

Bylaws Committee

Rebecca Houston

Research Institute on Addictions (2017–2020)

Committee to Promote Student Interests

Sarah Sass

University of Texas, Tyler (2017–2020)

Convention Sites Committee

Erin Hazlett

Icahn School of Medicine at Mount Sinai (2016–2020)

Johannes Hewig

University of Würzburg (2017–2020)

Distinguished Contributions to Psychophysiology**Award Committee**

Ursula Hess

Humboldt University of Berlin (2018–2019)

Diversity and Outreach Committee

Lisa Gatzke-Kopp

Pennsylvania State University (2018–2021)

Frini Karayanidis

University of Newcastle (2018–2021)

Early Career Award Committee

Terry Blumenthal

Wake Forest University (2018–2021)

Education and Training Committee

Dan Foti
Purdue University (2017-2020)

Ethical Principles Committee

W. Keith Berg
University of Florida (2017–2020)

Finance Committee

Greg Hajcak
Florida State University (2016–2019)

Membership Committee

Sylvia Kreibig
Stanford University (2018-2021)

Nominating Committee

Kara D. Federmeier
University of Illinois, Urbana-Champaign (2018-2019)

Program Committee

Catherine Norris
Swarthmore College (2018-2019)

Public Relations Committee

Nicole Roberts
Arizona State University (2016–2019)

Publication Committee

Cindy Yee-Bradbury
University of California, Los Angeles (2018-2021)

Student Poster Award Committee

Kara D. Federmeier
University of Illinois, Urbana-Champaign (2018-2019)

Women in Science and Education (WISE) Committee

Rebecca Levin Siltan
Loyola University Chicago (2016–2019)

Ad Hoc Committees**Ad Hoc Website Committee**

Jens Foell, Florida State University (2018–2019)

Liaison to FABBS

Scott Vrana
Virginia Commonwealth University

Liaison to AAAS

Scott Vrana
Virginia Commonwealth University

PAST OFFICERS
Chair of the Organizing Board

R.C. Davis 1958–60

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 Öhman	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 Näätänen	1998–99
Richard J. Davidson	1999–00
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
Gabriele Gratton	2009–10
Gary Berntson	2010–11
Christopher J. Patrick	2011–12
Alfons O. Hamm	2012–13
Terry D. Blumenthal	2013–14
Karen S. Quigley	2014–15
Ottmar V. Lipp	2015–16
Cindy M. Yee-Bradbury	2016–17
Kara Federmeier	2017–18

Past Secretary-Treasurers

Albert F. Ax	1960–62
Martin Orne	1962–63
Lawrence A. Gustafson	1963–64
Betty A. Wieland	1965–68
David G. McDonald	1968–72
Kenneth M. Kleinman	1972–75
Stephen W. Porges	1975–78
Rafael Klorman	1978–81
Don C. Fowles	1981–84
Robert W. Levenson	1984–87
Robert J. Gatchel	1987–90
Gregory A. Miller	1990–93
Steven A. Hackley	1993–96
Connie C. Duncan	1996–99
Edwin W. Cook III	1999–02

In 2002, the post of Secretary-Treasurer was split into two separate positions (Secretary and Treasurer).

Past Secretaries

Robert F. Simons	2002–05
Gary G. Berntson	2005–08
Lou Tassinary	2008–11
Cindy M. Yee-Bradbury	2011–14
Bruce D. Bartholow	2014–17

Past Treasurers

Edwin W. Cook III	2002–03
Terry D. Blumenthal	2003–06
Karen S. Quigley	2006–10
Diane L. Filion	2010–13
Scott Vrana	2013–16

Past Psychophysiology Editors

Albert F. Ax	1964–73
William F. Prokasy	1974–77
David Shapiro	1978–86
Michael G.H. Coles	1987–93
John T. Cacioppo	1994–97
Gregory A. Miller	1998–02
Margaret M. Bradley	2003–05
Robert F. Simons	2006–14

**AWARDS FOR DISTINGUISHED
CONTRIBUTIONS TO PSYCHOPHYSIOLOGY**

Chester W. Darrow	1969
R.C. Davis	1969
Marion A. Wenger	1970
John I. Lacey	1970
Albert F. Ax	1973
Robert Edelberg	1974
William W. Grings	1978
Frances K. Graham	1981
Donald B. Lindsley	1984
Paul A. Obrist	1985
Peter H. VENABLES	1987
David Shapiro	1988
E.N. Sokolov	1988
Peter J. Lang	1990
John Stern	1993
Emanuel Donchin	1994
Risto Näätänen	1995
David T. Lykken	1998
Steven A. Hillyard	1999
John T. Cacioppo	2000
Arne Öhman	2001
Michael G.H. Coles	2002
Robert M. Stern	2004
Cornelius H.M. Brunia	2005
Marta Kutas	2007
William G. Iacono	2008
Niels Birbaumer	2009
Judith M. Ford	2010

Margaret M. Bradley	2011
Don C. Fowles	2012
Gregory A. Miller	2013
J. Richard Jennings	2014
Robert W. Levenson	2015
Brigitte S. Rockstroh	2016
Bruce N. Cuthbert	2017
Julian Thayer	2018

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

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

Ilse Van Diest	2013
Heleen A. Slagter	2014
Matthias Wieser	2015
Sharna Jamadar	2016
Jan R. Wessel	2016
Christina Ottaviani	2017
James Cavanagh	2018
Anja Riesel	2018
Lauren Bylsma	2019
Julian Koenig	2019

Registration

Registration will be held in Columbia C at the Hyatt Regency Hotel on Capitol Hill (see map on page 18) during the following hours:

Wednesday, September 25	2:30 p.m.–7:30 p.m.
Thursday, September 26	7:30 a.m.–6:30 p.m.
Friday, September 27	8:30 a.m.–6:30 p.m.
Saturday, September 28	8:30 a.m.–12:30 p.m.

Poster Sessions*

Poster sessions will be held in Columbia A. All posters must be removed during the designated dismantle time for each session. The schedule for poster presentation assembly and dismantling is as follows:

Wednesday, September 25

Poster Session I

6:00 p.m.–7:00 p.m.	Posters Assembled
7:00 p.m.–9:00 p.m.	Authors Present for Discussion and Questions
9:00 p.m.–9:30 p.m.	Dismantle Posters

Thursday, September 26

Poster Session II

8:00 a.m.–9:00 a.m.	Posters Assembled
9:00 a.m.–6:10 p.m.	Posters Available for Viewing
6:10 p.m.–8:10 p.m.	Authors Present for Discussion and Questions
8:10 p.m.–8:40 p.m.	Dismantle Posters

Friday, September 27**Poster Session III**

8:00 a.m.–9:00 a.m.	Posters Assembled
9:00 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.–8:30 p.m.	Dismantle Posters

*There are three poster sessions this year.

Announcements

You are invited to use the bulletin board located in Columbia C to post the following information:

- Employment Opportunities
- Announcements of Social Activities
- Special Interest Lunches and Dinners

Consider posting them on the SPR social media channels Facebook and Twitter.

Audible signals from cell phones are distracting to the speaker as well as the audience. Please program these accordingly, and take phone calls outside of the meeting rooms. Thank you.

Mobile App

Download the SPR mobile app from the iTunes Store or Google Play—search for SPR 2019. Access the program, abstracts, and more! Plan to download the app before you travel to the meeting site.

Please be aware of any additional data charges, especially if you are traveling internationally.

Publication of Abstracts

Abstracts of papers presented in the symposia and poster sessions are published online in the September 2019 supplement volume of *Psychophysiology*. Check the SPR website for the link (www.sprweb.org).

Committee Meetings

Confirm the time and place of each meeting with the chair of the committee.

Board of Directors**President:** Ursula Hess

(ursulakhess@gmail.com)

Wednesday, September 25, 12:00 noon–5:00 p.m.

Sunday, September 29, 9:00 a.m.–12:00 noon

Thornton Room, 11th Floor

Chairs of Membership Enhancement Committees**Chair:** Christine Larson

(larsoncl@uwm.edu)

Thursday, September 26, 8:00 a.m.–9:15 a.m. (Breakfast)

Olympic, Second Floor

Committee on Women in Psychophysiology**Chair:** Rebecca Silton

(rsilton@luc.edu)

Thursday, September 26, 12:00 noon–1:15 p.m. (Lunch)

Meet in the Hyatt Hotel's Lobby at 12:00 noon

Committee to Promote Student Interests**Chair:** Sarah Sass

(ssass@uttyler.edu)

Friday, September 27, 8:30 p.m.–9:30 p.m.

Capitol A, Lobby Level

Convention Sites Committee**Chair:** Erin Hazlett

(erin.hazlett@mssm.edu)

Friday, September 27, 2:30 p.m.–3:00 p.m.

Olympic, Second Floor

Diversity and Outreach Committee**Chair:** Frini Karayanidis

Friday, September 27, 8:00 a.m.–9:00 a.m.

Olympic, Second Floor

Education and Training Committee**Chair:** Dan Foti

(foti@purdue.edu)

Thursday, September 26, 8:15 p.m.–9:45 p.m.

Olympic, Second Floor

Past Presidents Dinner

Immediate Past-President: Kara Federmeier
(kfederme@illinois.edu)

Thursday, September 26, 8:30 p.m. (Dinner)

Meet in the Hyatt Hotel's Lobby at 8:15 p.m.

2019 Program Committee

Chair: Catherine Norris

(cnorris2@swarthmore.edu)

Friday, September 27, 11:30 a.m. –1:00 p.m. (Lunch)

Meet in the Hyatt Hotel's Lobby at 11:30 a.m.

2020 Program Committee

Chair: Dan Foti

(foti@purdue.edu)

Thursday, September 26, 12:00 noon–1:15 p.m. (Lunch)

Meet in the Hyatt Hotel's Lobby at 12:00 noon

The Psychophysiology Board of Associate Editors

Chair: Monica Fabiani

(mfabiani@illinois.edu)

Thursday, September 26, 12:00 noon–1:15 p.m.

Thornton A, 11th Floor

Publications Committee

Chair: Cindy Yee Bradbury

(yee@psych.ucla.edu)

Thursday, September 26, 12:00 noon–1:15 p.m.

Meet in the Hyatt Hotel's Lobby at 12:00 noon

**SPECIAL INTEREST BREAKFASTS,
LUNCHEONS, AND DINNERS**

As in previous years, small group breakfasts, lunches, and dinners may be held to provide an informal setting for people to meet and share common interests. If you are interested in organizing such a group, please send an email to meetings@sprweb.org with the details. It will be posted on the SPR website.

New to SPR?

If you are a student or a new member and this is your first time at an SPR Annual Meeting, please feel free to approach anyone with a dot on his or her nametag. Those individuals 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, including student opportunities (e.g., student awards and the student social). We hope you enjoy the meeting!

Early Career Luncheon

Thursday, September 26, 2019
12:00 noon–1:15 p.m.
Congressional A, Lobby Level
Fee: \$10 USD per person

Don't miss this opportunity to discuss early career issues with some of SPR's leading scientists! The focus of this year's discussion is: "How to Brand Yourself (and Your Research) in the World of Psychophysiology." The event will feature small-group, rotating discussions with senior members of SPR. A light lunch will be included. To register, please check the appropriate box on the SPR registration form. For questions about this event, please contact Dan Foti at foti@purdue.edu.

Diversity and Outreach Luncheon

11:30 a.m.–1:00 p.m.
Friday, September 27, 2019
Congressional A, Lobby Level
Fee: \$10 USD per person
RSVP: September 13, 2019

"Diversity in the Workplace: Recruitment, Retention, and Promotion"

In the context of an increasing motivation to expand the representative diversity in academia, it is important to examine the sometimes subtle barriers individuals from under-represented groups face. The Diversity and Outreach Committee is thrilled to have Dr. Adrienne R. Carter-Sowell, Associate Professor of Psychological & Brain Sciences at Texas A&M University join us for this year's luncheon to discuss how day-to-day experiences of exclusion impact women and racial minorities in the academic environment. This luncheon explores how every individual, regardless of race, gender, or career stage, has a role and responsibility in contributing to an environment of inclusion and equality. All SPR attendees are encouraged to attend.

To register, please check the appropriate box on the SPR registration form. Registration for this event is on a first come first-served basis.

General Business Meeting and Luncheon

12:45 p.m.–3:00 p.m.

Saturday, September 28, 2019

Regency Ballroom B, Ballroom Level

Join the SPR Board of Directors and fellow SPR attendees at the Annual Business Meeting and Luncheon. Preregistration and an additional fee of \$10 per person are required. If you have not already registered for the luncheon, contact the SPR Registrar via email at spr@sprweb.org. Students receive complimentary tickets to the luncheon if registered by September 13. Student poster award winners will be announced at the business luncheon. The winners of the Research Training Fellowship, Student Travel Awards, and President's Pick Psychophysiology Paper awards will also be recognized at the luncheon.

Speaker Ready Room

If you are speaking at the meeting, come to the Speaker Ready Room to download your slides. It is located in the Grand Canyon Room (Second Floor). There will be a technician in the Speaker Ready Room to assist you. This will give you the opportunity to review your slides before they are transferred to the laptop computer in your session room. Feel free to have all your symposium speakers meet in the speaker ready room to go over any last minute details prior to your session.

All speakers delivering computer-based presentations must check in at the Speaker Ready Room with their presentation.

Speaker Ready Room Open Hours

Grand Canyon (Second Floor)

Wednesday, September 25	5:00 p.m.–8:00 p.m.
Thursday, September 26	7:00 a.m.–6:00 p.m.
Friday, September 27	7:00 a.m.–6:00 p.m.
Saturday, September 28	7:00 a.m.–11:00 a.m.

If Your Presentation Date/Time is.....

Thursday, September 26, 2019
Between 8:30 a.m.-12:00 noon

Thursday, September 26, 2019
Between 1:30 p.m.-5:00 p.m.

Friday, September 27, 2019
Between 8:30 a.m.-12:00 noon

Friday, September 27, 2019
Between 1:30 p.m.-5:00 p.m.

Saturday, September 28, 2019
Between 8:30 a.m.-12:00 noon

Saturday, September 28, 2019
Between 1:30 p.m.-5:30 p.m.

Then Your Scheduled Check-In Time is.....

Report prior to 8:00 p.m. on
Wednesday, September 25, 2019

Report prior to 11:00 a.m. on
Thursday, September 26, 2019

Report prior to 6:00 p.m. on
Thursday, September 26, 2019

Report prior to 11:00 a.m. on
Friday, September 27, 2019

Report prior to 6:00 p.m. on
Friday, September 27, 2019

Report prior to 11:00 a.m. on
Saturday, September 28, 2019

Lactation Room

A lactation room will be available upon request. Please obtain a key from the SPR registration desk. The Lactation Room is located in the Grand Teton Room (second floor).

FUTURE ANNUAL MEETINGS

60th SPR Annual Meeting

October 7-11, 2020

Hyatt Regency Hotel, Vancouver, British Columbia, Canada

61st SPR Annual Meeting

October 13-17, 2021

Prague Congress Centre, Prague, Czech Republic

EXHIBITORS

Take time while you are at the SPR meeting to visit the exhibit area in the Regency Ballroom Foyer. Exhibitors contribute financial support to the SPR meeting and we ask that you take a few minutes to spend time in the exhibit area looking at the products, services, and equipment offered by the companies represented. Thank you!

Open Exhibit Hours

Wednesday, September 25

7:00 p.m.–9:00 p.m.

Thursday, September 26

10:00 a.m.–8:10 p.m.

Friday, September 27

10:00 a.m.–8:00 p.m.

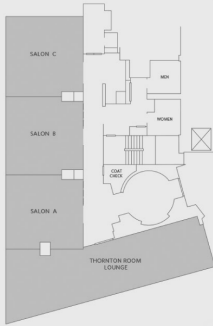
MEETING ROOM FLOOR PLAN

All sessions will be held at the Hyatt Regency Hotel on Capitol Hill unless specifically noted in the program.

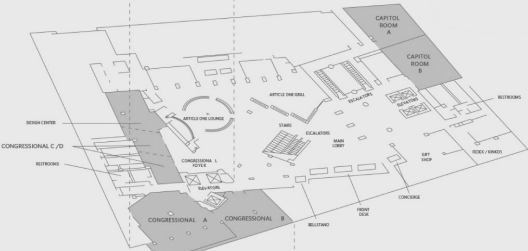
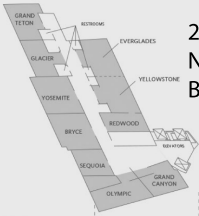
HYATT REGENCY WASHINGTON ON CAPITOL HILL

All Floors

11TH FLOOR THORNTON ROOM

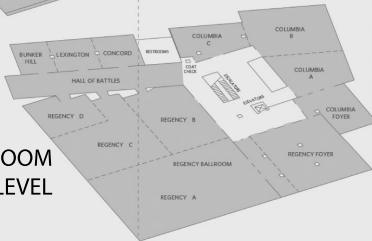


2ND FLOOR NATIONAL PARKS BOARDROOMS



LOBBY LEVEL

BALLROOM LEVEL



PROGRAM

Wednesday, September 25, 2019

Pre-Conference Workshop #2

OPEN SCIENCE IN PSYCHOPHYSIOLOGY

Organizers:

Eric Vanman, University of Queensland

Jenny Gutsell, Brandeis University

Andreas Keil, University of Florida

Peter Clayson, University of California, Los Angeles

9:00 a.m.-4:30 p.m.

Concord, Ballroom Level

Pre-Conference Workshop #3

**TIME-FREQUENCY PRINCIPAL COMPONENTS
ANALYSIS: A PRACTICAL INTRODUCTION
TO APPLICATIONS WITH EVENT-RELATED
POTENTIAL DATA**

Organizer:

Ed Bernat, University of Maryland, College Park

12:00 noon-5:00 p.m.

Thornton Room, 11th Floor

Board of Directors Meeting

2:30 p.m.-7:30 p.m.

Columbia C, Ballroom Level

Registration

5:00 p.m.–8:00 p.m.

Grand Canyon, Second Floor

Speaker Ready Room

5:30 p.m.–6:30 p.m.

Congressional B, Lobby Level

**MAXIMIZING THE IMPACT OF YOUR
PUBLISHED WORK**

Monica Fabiani, Editor-in-Chief, *Psychophysiology*
and Jenny Peng, Senior Editor at Wiley

5:30 p.m.–7:00 p.m.

Regency Ballroom A, Ballroom Level

Special Symposium**METHODOLOGICAL RIGOR AND MULTI-SITE
REPLICATIONS IN PSYCHOPHYSIOLOGY:
CHALLENGES AND RECOMMENDATIONS**

Session Chairs: Peter Clayson¹ & Michael Larson²
¹*Veterans Affairs Greater Los Angeles Healthcare
System*, ²*Brigham Young University*

Discussant: Andreas Keil
University of Florida

**SAMPLE SIZES, SAMPLE SIZE CALCULATIONS,
AND STATISTICAL POWER IN ERP RESEARCH:
CONCERNS AND BARRIERS FOR REPLICABILITY**

Kaylie Carbine¹, Peter Clayson², Scott Baldwin¹
& Michael Larson¹
¹*Brigham Young University*, ²*Veterans Affairs Greater
Los Angeles Healthcare System*

**METHODOLOGICAL REPORTING GUIDELINES
FOR ERP STUDIES: REPORTING RATES AND ROLE
IN REPRODUCIBILITY AND REPLICABILITY**

Peter Clayson¹, Kaylie Carbine², Scott Baldwin²
& Michael Larson²
¹*Veterans Affairs Greater Los Angeles Healthcare
System*, ²*Brigham Young University*

**COMPARING THE EFFECTS OF DIFFERENT
METHODOLOGICAL DECISIONS ON THE ERROR-
RELATED NEGATIVITY AND ITS ASSOCIATION
WITH BEHAVIOR AND GENDER**

Aislinn Sandre¹, Iulia Banica¹, Anja Riesel², Julia
Klawohn³ & Anna Weinberg¹

¹McGill University, ²Humboldt University, ³Florida
State University

**INTOLERANCE OF UNCERTAINTY AND
THREAT GENERALIZATION: A MULTIMETHOD,
COLLABORATIVE REPLICATION**

Elizabeth Bauer¹, Jayne Morriss², Aislinn Sandre³,
Tina Lonsdorf⁴, Carien van Reekum²,
Anna Weinberg³ & Annmarie MacNamara¹

¹Texas A&M University, ²University of Reading,
³McGill University, ⁴University Medical Center
Hamburg-Eppendorf

**A PRELIMINARY REPORT ON A MULTI-SITE
EFFORT TO REPLICATE THE ASSOCIATION
BETWEEN WORRY AND ENLARGED ACTION
MONITORING BRAIN POTENTIALS
(MOSER ET AL., 2012)**

Jason Moser¹, Peter Clayson², Alexandra Muir³,
Whitney Allen³, Erin Modersitzki³, Courtney Louis¹,
Akina Umemoto⁴, Michael Inzlicht⁴ & Michael
Larson³

¹Michigan State University, ²Veterans Affairs Greater
Los Angeles Healthcare System, ³Brigham Young
University, ⁴University of Toronto

7:00 p.m.-9:00 p.m.

Columbia A and Regency Ballroom Foyer, Ballroom Level

**Opening Reception, Exhibits Open, and Poster
Session I**

(Authors present for discussion and questions)

Thursday, September 26, 2019

7:00 a.m.–6:00 p.m.

Grand Canyon (Second Floor)

Speaker Ready Room

7:30 a.m.–6:30 p.m.

Columbia C, Ballroom Level

Registration

8:00 a.m.–9:15 a.m.

Olympic, Second Floor

***Chairs of Membership Enhancement
Committees***

8:30 a.m.–10:00 a.m.

Regency Ballroom A, Ballroom Level

Symposium 1.1
**BRAIN AND BODY IN DANGER: CENTRAL
AND PERIPHERAL ELECTROPHYSIOLOGY OF
STIMULUS PROCESSING UNDER THREAT**
Session Chairs: Yuri Pavlov¹ & Christian Panitz²¹*Ural Federal University*, ²*University of Marburg*
**MODULATION OF STEADY STATE VISUAL
EVOKED FIELDS BY FEAR LEARNING AND ITS
RELATION TO AUTONOMIC RESPONSES**
Stephan Moratti¹, Javier Echegaray¹,Melissa Yuan² & Tamara Giménez Fernández³¹*Complutense University of Madrid*, ²*Polytechnic
University of Madrid*, ³*Autonomous University of
Madrid*
**EFFECTS OF SLEEP AND WAKEFULNESS ON
PSYCHOPHYSIOLOGICAL INDICES OF FEAR
CONDITIONING**
Yuri Pavlov¹ & Boris Kotchoubey²¹*Ural Federal University*, ²*University of Tübingen*
**FACE IDENTITY LEARNING DURING INSTRUCTED
THREAT: ELECTROCORTICAL EVIDENCE FROM A
SOURCE MEMORY TASK**
Sabine Schellhaas¹, Nina Arnold²,Christian Schmahl¹ & Florian Bublitzky¹¹*University of Heidelberg*, ²*University of Mannheim*

**CORTICO-CARDIAC COUPLING IN RESPONSE
TO AVERSIVE UNCONDITIONED STIMULI IN
ANXIETY DISORDERS AND HEALTHY CONTROLS**

Christian Panitz, Sarah-Louise Unterschemmann
& Erik Mueller
University of Marburg

8:30 a.m.-10:00 a.m.

Regency Ballroom B, Ballroom Level

Symposium 1.2

**NOW YOU SEE IT, NOW YOU DON'T:
DELINEATING THE CAUSAL ROLE OF THE
AMYGDALAE IN AFFECTIVE PROCESSING**

Session Chair: Johanna Kissler
Bielefeld University

**EFFECTS OF LEFT OR RIGHT UNILATERAL
TEMPORAL LOBE RESECTIONS ON VISUAL
PROCESSING OF EMOTIONAL FACES AND
SCENES**

Lea-Marie Stieghorst¹, Alexandra Mehlmann¹,
Malena Mielke¹, Martin Wegrzyn¹, Friedrich
Woermann², Johanna Kissler¹ & Christian Bien²
¹Bielefeld University, ²Epilepsy Center Bethel

**PRESERVED BEHAVIORAL PERFORMANCE AND
GLOBAL NETWORK CHARACTERISTICS IN THE
EMOTION NETWORK FOLLOWING ANTERIOR
TEMPORAL LOBECTOMY**

Jan van den Stock, Yun-An Huang, Patrick Du-
pont, Laura Van de Vliet, Jan Jastorff, Tom Theys,
Johan van Loon & Wim Van Paesschen
KU Leuven

**GAZE BEHAVIOR AND EMOTION
DISCRIMINATION IN PATIENTS WITH AMYGDALA
DAMAGE DUE TO HERPES ENCEPHALITIS**

Marie-Louise Roth-Paysen, Insa Schlossmacher,
Maximilian Bruchmann, Nico Melzer & Thomas
Straube
University of Muenster

IMPAIRED EMOTIONAL PROCESSING IN LIMBIC ENCEPHALITIS: AUTONOMIC, BEHAVIORAL AND BRAIN RESPONSES

Insa Schlossmacher, Marie-Louise Roth-Paysen,
Maximilian Bruchmann, Nico Melzer & Thomas
Straube
University of Muenster

EFFECTS OF HUMAN AMYGDALA STIMULATION AND ABLATION ON EMOTIONAL PHYSIOLOGY, MEMORY, AND PTSD

Jon Willie & Cory Inman
Emory University

8:30 a.m.-10:00 a.m.

Regency Ballroom C, Ballroom Level

Structured Panel Presentation 1.3**ASK ME ANYTHING: RESEARCH DOMAIN CRITERIA (RDOC)**

Session Chair: Sarah Morris
National Institute of Mental Health

Speakers:

Sarah Morris

National Institute of Mental Health

Jennifer Pacheco

National Institute of Mental Health

Uma Vaidyanathan

National Institute of Mental Health

8:30 a.m.-10:00 a.m.

Concord, Ballroom Level

Symposium 1.4**INNOVATIONS IN DYNAMIC PHYSIOLOGICAL MEASUREMENT APPROACHES ACROSS THE LIFESPAN: IMPLICATIONS FOR RISK AND RESILIENCE**

Session Chairs: Tracy Dennis-Tiway & Sarah Myruski
Hunter College, The City University of New York

Discussant: Tracy Dennis-Tiway

Hunter College, The City University of New York

LOOKING UNDER THE HOOD OF THE ANXIETY-ERN LINK USING GENETIC AND DYNAMIC NEURAL MEASUREMENT APPROACHES

Samantha Denefrio¹, Sarah Myruski¹ & Tracy Dennis-Tiway^{1,2}

¹Hunter College, The City University of New York,

²The Graduate Center, The City University of New York

CALIBRATION OF BRAIN-AUTONOMIC COUPLING BY PRIOR THREAT EXPOSURE: IMPLICATIONS FOR INTERNALIZING PROBLEMS IN MEXICAN-ORIGIN ADOLESCENTS

David Weissman¹, Amanda Guyer², Emilio Ferrer², Richard Robins² & Paul Hastings²

¹Harvard University, ²University of California, Davis

CHILDREN'S DYNAMIC VAGAL FLEXIBILITY PROTECTS AGAINST ANXIETY SYMPTOMS BUT IS SENSITIVE TO MATERNAL PSYCHOLOGICAL CONTROL

Paul Hastings¹, Elisa Ugarte¹ & Jonas Miller²

¹University of California, Davis, ²Stanford University

THE ROLE OF DELTA-BETA SYNCHRONY IN EARLY DEVELOPMENT OF ANXIETY ACROSS INFANCY, CHILDHOOD, AND EARLY ADOLESCENCE

Berenice Anaya¹, Kristin Buss¹, Vanessa LoBue², Rebecca Brooker³ & Koraly Perez-Edgar¹

¹The Pennsylvania State University, ²Rutgers University, ³Texas A&M University

10:00 a.m.-10:30 a.m.

Regency Ballroom Foyer

Refreshment Break

10:00 a.m.-8:10 p.m.

Regency Ballroom Foyer

Exhibits Open

10:30 a.m.-12:00 noon

Regency Ballroom A, Ballroom Level

Big Question Session 2.1**GIVEN THAT AN UNDERLYING THEME FOR THIS YEAR'S CONFERENCE IS MULTI-METHOD INTEGRATION, HOW CAN WE BEST INTEGRATE DATA FROM MULTIPLE PHYSIOLOGICAL MEASURES (BROADLY CONSTRUED) TO ANSWER PSYCHOLOGICAL QUESTIONS OF INTEREST?**

Session Chair: James Cavanagh
University of New Mexico

Discussant: Julian Thayer
University of California, Irvine

THE UTILITY OF ASSESSING CENTRAL AND PERIPHERAL NERVOUS SYSTEMS AMONG WOMEN EXPERIENCING SOCIAL IDENTITY THREAT

Zachary Petzel¹, Melinda Kittleman², Christina Garasky² & Bettina Casad²
¹*Queen's University Belfast*, ²*University of Missouri, St. Louis*

THE LAME, THE BLIND, AND THE UGLY: INTEGRATING FINDINGS ON COGNITIVE CONTROL USING MULTIMODAL DATA FUSION FOR SIMULTANEOUS EEG-FMRI

Malte Gueth¹, Jose Garcia Alanis², Peer Herholz^{3,4} & Jens Sommer²
¹*Rutgers University*, ²*Philipps-Universität Marburg*, ³*Université de Montréal*, ⁴*McGill University*

CONTEXT-AWARE EXPERIENCE SAMPLING REVEALS THE SCALE OF VARIATION IN AFFECTIVE EXPERIENCE

Katie Hoemann¹, Zulqarnain Khan¹, Catie Nielson¹, Madeleine Devlin¹, Mallory Feldman¹, Jennifer Dy¹, Jolie Wormwood^{2,3}, Lisa Feldman Barrett^{1,4} & Karen Quigley^{1,3}
¹*Northeastern University*, ²*University of New Hampshire*, ³*Edith Nourse Rogers Memorial Veterans Hospital*, ⁴*Massachusetts General Hospital, Martinos Center for Biomedical Imaging*

EXTENDING MULTI-METHOD MEASUREMENT OF TRAIT DISINHIBITION TO THE NEUROIMAGING MODALITY

Keanan Joyner¹, Emily Perkins¹, Noah Venables² & Christopher Patrick¹

¹Florida State University, ²University of Minnesota

UNDERSTANDING NEURAL MECHANISMS OF ADOLESCENT DEPRESSION USING MULTIMODAL PSYCHOPHYSIOLOGICAL APPROACH

Jingwen Jin¹, Jared Van Snellenberg^{1,2,3}, Greg Perlman², Christine DeLorenzo², Brady Nelson¹, Daniel Klein^{1,2}, Aprajita Mohanty¹ & Roman Kotov^{1,2}
¹Stony Brook University, Department of Psychology, ²Stony Brook University, Department of Psychiatry and Behavioral Health, ³Stony Brook University, Department of Biomedical Engineering

10:30 a.m.-12:00 noon

Regency Ballroom B, Ballroom Level

Symposium 2.2

PERCEIVING OTHERS AS A FUNCTION OF THREAT OR SAFETY: THE ROLE OF ACQUISITION, GENERALIZATION, REVERSAL, AND EXTINCTION LEARNING

Session Chair: Florian Bublitzky
Central Institute of Mental Health

Discussant: Ottmar Lipp
Curtin University

NEUROCOGNITIVE MECHANISMS OF IMPLICIT BIASES: FEAR GENERALIZATION OF CONDITIONED FACIAL FEATURES IN ABSENCE OF CONTINGENCY AWARENESS

Markus Junghofer, Nele Wiens & Kati Roesmann
University Hospital Münster

RECOGNIZING FACIAL EMOTIONS DURING THREAT: BEHAVIORAL AND MAGNETO-ENCEPHALOGRAPHIC CORRELATES

Florian Bublitzky¹, Fatih Kavcioglu², Pedro Guerra³, Sarah Doll⁴ & Markus Junghofer⁴
¹Central Institute of Mental Health, ²University of Würzburg, ³University of Granada, ⁴University Hospital Münster

**ADAM WANTS TO SHOCK YOU: SHOCK
INTENTION INFORMATION MODERATES
DIFFERENTIAL FEAR CONDITIONING**

Camilla Luck², Tanya Pritchard¹, Ottmar Lipp² &
Gabrielle Weidemann¹

¹Western Sydney University, ²Curtin University

**THE INTERPLAY BETWEEN INSTRUCTED AND
FEEDBACK-DRIVEN REVERSAL LEARNING:
INFLUENCES ON SUBJECTIVE, AUTONOMIC,
AND NEURAL RESPONSES**

Lauren Atlas

National Institutes of Health

**FROM LOVED TO FEARED AND BACK: REVERSAL
LEARNING OF THREAT CONTINGENCIES IN A
THREAT OF SHOCK PARADIGM**

Pedro Guerra¹, Cristina Morato¹ & Florian
Bublitzky²

¹University of Granada, ²Central Institute of Mental
Health

10:30 a.m.–12:00 noon

Regency Ballroom C, Ballroom Level

Symposium 2.3

**BEYOND OBSERVATION: TRANSCUTANEOUS
VAGUS NERVE STIMULATION IN
PSYCHOPHYSIOLOGICAL RESEARCH**

Session Chairs: Julian Koenig¹ & Mathias Weymar²

¹Heidelberg University, ²University of Potsdam

Discussant: Bruce Friedman

Virginia Tech

**THE EFFECTS OF TRANSCUTANEOUS VAGUS
NERVE STIMULATION ON CONTEXT DEPENDENT
CUE CONDITIONING: DO THE CONTEXTS OR THE
CUES MATTER?**

Hannah Genheimer, Marta Andreatta & Paul Pauli

University of Würzburg

THE EFFECTS OF DAILY TRANSCUTANEOUS VAGUS NERVE STIMULATION (TVNS) ON AUTONOMIC TONE

Beatrice Bretherton, Lucy Atkinson, Susan Deuchars & Jim Deuchars
University of Leeds

EFFECTS OF TRANSCUTANEOUS VAGUS NERVE STIMULATION (TVNS) ON SELECTIVE ATTENTION AND EMOTIONAL EPISODIC MEMORY: FINDINGS FROM ERP RESEARCH

Mathias Weymar¹, Carlos Ventura-Bort¹, Janine Wirkner², Hannah Genheimer³, Julia Wendt² & Alfons Hamm²
¹*University of Potsdam*, ²*University of Greifswald*,
³*University of Würzburg*

EFFECTS OF TRANSCUTANEOUS VAGUS NERVE STIMULATION (TVNS) ON REVERSAL LEARNING, PUPIL SIZE, SALIVARY ALPHA-AMYLASE, AND CORTISOL

Martina D'Agostini¹, Andreas Burger¹, Nathalie Claes¹, Mathias Weymar² & Ilse Van Diest¹
¹*KU Leuven*, ²*University of Potsdam*

ACUTE TRANSCUTANEOUS VAGUS NERVE STIMULATION ALTERS EMOTION RECOGNITION IN ADOLESCENT MAJOR DEPRESSION

Julian Koenig¹, Peter Parzer¹, Niklas Haigis¹, Jasmin Liebemann¹, Tamara Jung¹, Franz Resch¹ & Michael Kaess²
¹*Heidelberg University*, ²*University of Bern*

10:30 a.m.-12:00 noon
Concord, Ballroom Level

Symposium 2.4

THE USE OF VIRTUAL-REALITY IN PSYCHOPHYSIOLOGY: A CASE FOR GOAL-DIRECTED NAVIGATION RESEARCH

Session Chair: Travis Baker
Center for Molecular and Behavioral Neuroscience, Rutgers University

WIRELESS SCALP EEG AND IMMERSIVE VIRTUAL INTERFACES PROVIDE NOVEL INSIGHT INTO THE NEURAL BASIS OF HUMAN SPATIAL NAVIGATION

Arne Ekstrom, Mingli Liang & Michael Starett
University of Arizona

MULTIPLE HIPPOCAMPAL THETA OSCILLATIONS SUPPORT HUMAN SPATIAL NAVIGATION AND MEMORY

Joshua Jacobs
Columbia University

DRIVING THE LOCUS COERULEUS USING A NATURALISTIC DRIVING TASK

Andrew Reid
University of Nottingham

STILL SOUNDS LIKE APPROACH: AN UPDATE ON TRANSCRANIAL ULTRASOUND OVER RIGHT INFERIOR FRONTAL CORTEX LEADING TO APPROACH BEHAVIOR IN AMBIGUOUS SITUATIONS IN A VIRTUAL T-MAZE

Johannes Rodrigues¹, Philipp Ziebell¹, John Allen²
& Johannes Hewig¹
¹*Universität Würzburg*, ²*University of Arizona*

A COMPREHENSIVE MAP OF GOAL-DIRECTED NAVIGATION IN THE HUMAN BRAIN

Travis Baker
Rutgers University

12:00 noon-1:15 p.m.

Lunch Break (on your own)

12:00 noon-1:15 p.m.

Congressional A, Lobby Level

SPR Early Career Luncheon
(pre-registration required)

12:00 noon-1:15 p.m.

Meet in the Hyatt Hotel's Lobby at 12:00 noon

Committee on Women in Psychophysiology

12:00 noon-1:15 p.m.

Meet in the Hyatt Hotel's Lobby at 12:00 noon

Publications Committee

12:00 noon-1:15 p.m.

Meet in the Hyatt Hotel's Lobby at 12:00 noon

2020 Program Committee

12:00 noon-1:15 p.m.

Thornton Room A, 11th Floor

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

1:15 p.m.-1:30 p.m.

Regency Ballroom A, Ballroom Level

Opening Remarks

Catherine Norris
2019 Program Chair

Ursula Hess
President

1:30 p.m.-2:30 p.m.

Regency Ballroom A, Ballroom Level

Invited Address

**CAN WE IMPROVE BRAIN MECHANISMS OF
EMOTION REGULATION BY INCREASING HEART
RATE VARIABILITY?**

Mara Mather, PhD
*Professor of Gerontology and Psychology at the
University of Southern California, Los Angeles*

Introduction: Eric Vanman, University of Queensland

2:30 p.m.–3:00 p.m.

Regency Ballroom Foyer

Refreshment Break

3:00 p.m.–4:30 p.m.

Regency Ballroom A, Ballroom Level

Presidential Symposium**IMITATION, SYNCHRONIZATION & EMPATHY:
EVIDENCE FROM BRAINS, BODIES & BOTS**Session Chairs: Catherine Norris¹ & Ursula Hess²¹*Swarthmore College*, ²*Humboldt-University of Berlin***IS PHYSIOLOGICAL LINKAGE BETWEEN PEOPLE
GOOD OR BAD? IT DEPENDS...**

Emily Butler

*University of Arizona***DYNAMIC EMERGENCE OF SOCIAL CONNECTION
THROUGH SYNCHRONOUS MOVEMENT**

Kerry Marsh

*University of Connecticut***HOW WE CONNECT: FROM SHARED ATTENTION
TO SOCIAL NETWORKS**

Thalia Wheatley

*Dartmouth College***SPONTANEOUS IMITATION IN SOCIAL
COGNITION: FACES, GESTURES, AND CONCEPTS**

Piotr Winkielman

University of California, San Diego

3:00 p.m.–4:30 p.m.

Regency Ballroom B, Ballroom Level

Symposium 3.2**METHODOLOGICAL AND STATISTICAL
CONSIDERATIONS FOR ASSESSING AND
INTERPRETING CHILDREN'S AUTONOMIC
STRESS PHYSIOLOGY**

Session Chair: Kristen Rudd

University of California, Riverside

Discussant: Elizabeth Davis

University of California, Riverside

**ASSESSING COMPETING APPROACHES
FOR UNDERSTANDING SYMPATHETIC
AND PARASYMPATHETIC REGULATORY
COORDINATION**

Kristen Rudd¹, Abbey Alkon² & Tuppett Yates¹
*¹University of California, Riverside, ²University of
California, San Francisco*

**A METHODOLOGICAL CONTRIBUTION TO
UNDERSTANDING PHYSIOLOGICAL SELF-
REGULATION**

Keira Leneman & Daniel Berry
University of Minnesota

**PARENT-CHILD CO-REGULATION AND YOUNG
CHILDREN'S PHYSIOLOGICAL RESPONSE TO
EMOTIONAL CHALLENGE**

Emma Armstrong-Carter, Jelena Obradović &
Michael Sulik
Stanford University

3:00 p.m.-4:30 p.m.

Regency Ballroom C, Ballroom Level

Symposium 3.3

**AN IMPROVED UNDERSTANDING OF THE
COGNITIVE CONTROL SYSTEM THROUGH THE
INTEGRATION OF COMPUTATIONAL MODELING
AND ELECTROPHYSIOLOGY**

Session Chair: George Buzzell
University of Maryland

**DECODING REINFORCEMENT-LEARNING SIGNALS
FROM FEEDBACK-LOCKED EEG DYNAMICS**

Markus Ullsperger
Otto-von-Guericke University Magdeburg

**MEMENTO MALUM: NEGATIVE PREDICTION
ERRORS BOOST EPISODIC ENCODING**

James Cavanagh¹, Brian Coffman² & Daniel Dillon³
*¹University of New Mexico, ²University of Pittsburgh
School of Medicine, ³Harvard Medical School*

MODELING ERROR DETECTION AND ERROR EVALUATION IN THE MEDIAL FRONTAL CORTEX

Marco Steinnhauser & Martin Maier
Catholic University of Eichstätt-Ingolstadt

CLARIFYING THE LINK BETWEEN PERFORMANCE MONITORING AND CONTROL IN ADOLESCENTS WITH A HISTORY OF BEHAVIORAL INHIBITION

George Buzzell¹, Alec Solway¹, Edward Bernat¹,
Santiago Morales¹, Tyson Barker², Sonya
Troller-Renfree³, Heather Henderson⁴,
Daniel Pinne⁵ & Nathan Fox¹

¹University of Maryland, ²University of Oregon,

³Columbia University, ⁴University of Waterloo,

⁵National Institute of Mental Health

3:00 p.m.–4:30 p.m.

Concord, Ballroom Level

Symposium 3.4**DEPRESSION AND BLUNTED NEURAL RESPONSE TO REWARD: INCREASING SPECIFICITY AND PROSPECTIVE ASSOCIATIONS**

Session Chairs: Greg Hajcak & Julia Klawohn
Florida State University

Discussant: Greg Hajcak
Florida State University

INSENSITIVITY TO REWARD AND PLEASANT PICTURES IN DEPRESSION: EVIDENCE FOR INDEPENDENT DEFICITS AND RELATION TO SYMPTOMS CROSS-SECTIONALLY AND PROSPECTIVELY

Julia Klawohn, Alec Bruchnak, Nicholas Santopetro &
Greg Hajcak
Florida State University

ERP INDICATORS OF ANHEDONIA: PREDICTORS AND MECHANISMS OF TREATMENT CHANGE IN A RANDOMIZED CLINICAL TRIAL IN EARLY CHILDHOOD DEPRESSION

Deanna Barch¹, Diana Whalen¹, Kirsten Gilbert¹,
Danielle Kelly¹, Emily Kappenman², Greg Hajcak³ &
Joan Luby¹

¹Washington University in St Louis, ²San Diego State
University, ³Florida State University

WITH FRIENDS LIKE THESE: NEURAL RESPONSES TO PEER FEEDBACK IN DEPRESSION AND RISK FOR DEPRESSION

Anna Weinberg¹, Paige Ethridge¹, Clara Freeman¹,
Samantha Pegg², Melanie Dirks¹ &
Autumn Kujawa²

¹McGill University, ²Vanderbilt University

INFLUENCE OF ENVIRONMENTAL STRESS AND TEMPERAMENT ON TRAJECTORIES OF REWARD SENSITIVITY

Emma Mumper¹, Sara Bufferd², Ellen Kessel¹,
Autumn Kujawa³ & Daniel Klein¹

¹Stony Brook University, ²California State University,
³Vanderbilt University

4:40 p.m.-6:10 p.m.

Regency Ballroom A, Ballroom Level

Big Question Session 4.1

(HOW) CAN PHYSIOLOGICAL MEASURES INFORM US ABOUT ETIOLOGY, DIAGNOSIS, AND/OR TREATMENT OF PSYCHOPATHOLOGY (AND VICE VERSA)?

Session Chair: Jason Moser
Michigan State University

Discussant: Peter Lang
University of Florida

RISING FROM THE ASHES? PARADIGM SHIFTS IN THE STUDY OF ANXIETY-RELATED ATTENTION BIASES USING NEUROPHYSIOLOGY

Tracy Dennis-Tiwarly
*Hunter College and the Graduate Center of The City
University of New York*

RESURRECTION OF GLUCOCORTICOID RESISTANCE AS A KEY INDICATOR IN DEPRESSION

Heather Abercrombie
University of Wisconsin, Madison

**TRAUMA SEVERITY ACROSS THE
INTERNALIZING DISORDERS SPECTRUM: BRAIN
FUNCTION AND STRUCTURE**

Nicola Sambuco, Margaret Bradley & Peter Lang
*Center for the Study of Emotion and Attention,
University of Florida*

**COMORBIDITY LOAD AND NEGATIVE PICTURE
PROCESSING IN THE ANXIETY DISORDERS: A
COMBINED FMRI, STARTLE EYEBLINK AND EEG
STUDY**

Anmarie MacNamara¹, Stewart Shankman²,
K. Luan Phan³
¹*Texas A&M University, College Station,*
²*Northwestern University,* ³*University of Illinois, Chicago*

**THE OSCILLATORY NATURE OF DEPRESSIVE
SYMPTOMS IN YOUTH DURING RESTING EEG**

Jia Wu, Linda Mayes & Michael Crowley
Yale University

**THE POSTAURICULAR REFLEX DIAGNOSES
ANHEDONIA (BUT NOT DEPRESSION)
COMPARABLY TO SELF-REPORTED
CONSUMMATORY PLEASURE**

Stephen Benning¹, Belel Ait Oumeziane²
& Stephany Molina¹
¹*University of Nevada, Las Vegas,* ²*Purdue University*

4:40 p.m.-6:10 p.m.

Regency Ballroom B, Ballroom Level

Symposium 4.2**PSYCHOPHYSIOLOGICAL INSIGHTS ON THE
EMOTIONAL EXPERIENCE OF INDIVIDUALS
WITH AUTISM**

Session Chair: Heather Nuske
University of Pennsylvania

Discussant: John Herrington
*Children's Hospital of Philadelphia/University of
Pennsylvania*

AMBULATORY CARDIORESPIRATORY REACTIVITY TO ENVIRONMENTAL STRESSORS IN SEVERELY AFFECTED YOUTH WITH AUTISM SPECTRUM DISORDER

Matthew Goodwin¹, Karen Mathewson² & David DeSteno¹

¹Northeastern University, ²McMaster University

EEG AND PUPILLARY RESPONSE IN CHILDREN WITH AUTISM: RESULTS FROM THE AUTISM BIOMARKERS CONSORTIUM FOR CLINICAL TRIALS INTERIM ANALYSIS

Adam Naples¹, Frederick Shic^{2,3}, April Levin^{4,5}, Raphael Bernier², Geraldine Dawson⁶, Michael Murias⁶, Shafali Jeste⁷, Charles Nelson^{4,5,8}, Susan Faja^{4,5}, Katarzyna Chawarska⁹, Catherine Sugar⁷, Damla Senturk⁷, Gerhard Hellemann⁷, James Dzuira¹⁰, Cynthia Brandt⁹, Sara Webb^{2,3} & James McPartland⁹

¹Yale University School of Medicine, ²University of Washington, ³Seattle Children's Research Institute Center for Child Behavior, ⁴Boston Children's Hospital, ⁵Harvard Medical School, ⁶Duke University Medical Center, ⁷University of California, Los Angeles, ⁸Harvard Graduate School of Education, ⁹Yale University School of Medicine, ¹⁰Yale University

REDUCED INTERNAL PHYSIOLOGICAL AND EXTERNAL COMMUNICATIVE CONCORDANCE IN CHILDREN WITH AUTISM

Heather Nuske¹, Emma Finkel¹, Liza Tomczuk², Daniel Forsyth³, Yelena Kushleyeva³, Darren Hedley⁴, Jeffrey Pennington³, Aaron Masino³, Cheryl Dissanayake⁴, Christopher Bonafide³ & John Herrington^{1,3}

¹University of Pennsylvania, ²Dickinson College, ³Children's Hospital of Philadelphia, ⁴La Trobe University

A PSYCHOPHYSIOLOGY-INFORMED APPROACH TO THE EVALUATION OF THE NEGATIVE VALENCE SYSTEM IN AUTISM

Valentina Parma¹ & John Herrington²

¹Istituto Superior de Psicologia Aplicada, ²Children's Hospital of Philadelphia/University of Pennsylvania

CHANGE IN RSA ACROSS A SOCIAL SKILLS INTERVENTION FOR AUTISTIC YOUNG ADULTS: THE ROLE OF EMOTIONAL CONTEXT

Hillary Schiltz¹, Alana McVey¹, Angela Haendel^{1,2},
Bridget Dolan³, Wendy Krueger¹, Nakia Gordon¹ &
Amy Van Hecke¹

¹Marquette University, ²Concordia University,

³Medical College of Wisconsin

4:40 p.m.–6:10 p.m.

Regency Ballroom C, Ballroom Level

Symposium 4.3**CARDIOVASCULAR STRESS REACTIVITY: FROM BASIC CONCEPTS TO MODERN APPROACHES**

Session Chairs: Annie Ginty¹ & Ryan Brindle²

¹Baylor University, ²Washington and Lee University

Discussant: J. Richard Jennings

University of Pittsburgh

THE IMPORTANCE OF UNDERSTANDING THE METABOLIC APPROPRIATENESS OF CARDIOVASCULAR RESPONSES TO STRESS IN THE CONTEXT OF DISEASE RISK

Annie Ginty¹ & Ryan Brindle²

¹Baylor University, ²Washington and Lee University

RESPONSE HABITUATION IS AN OVERLOOKED (AND UNDER-APPRECIATED) DIMENSION OF CARDIOVASCULAR STRESS REACTIVITY

Brian Hughes¹, Wei Lü² & Siobhán Howard³

¹National University of Ireland, Galway, ²Shaanxi

Normal University, ³University of Limerick

EXPLORING NEW SOURCES OF VARIABILITY IN CARDIOVASCULAR STRESS REACTIVITY USING GROUP-BASED ANALYTICS

Ryan Brindle¹, Katherine Duggan² & Annie Ginty³

¹Washington and Lee University, ²University of

Pittsburgh, ³Baylor University

HOW DOES THE BRAIN BREAK OUR HEARTS?

Peter Gianaros

University of Pittsburgh

4:40 p.m.-6:10 p.m.
Concord, Ballroom Level

Structured Panel Presentation 4.4

OUT OF THE LAB AND INTO THE DATA REVOLUTION: AUTONOMIC MULTIMODAL DATA COLLECTION, PROCESSING, AND ANALYSIS IN AMBULATORY SETTINGS

Session Chair: Jolie Wormwood
University of New Hampshire

Discussant: Karen Quigley
Edith Nourse Rogers Memorial VA Hospital

LESSONS FROM THE FIELD: USING MULTIMODAL AMBULATORY MEASURES TO STUDY POLICE DECISION MAKING AND USE-OF- FORCE BEHAVIOUR IN TRAINING AND ACTIVE DUTY CONTEXTS

Judith Andersen & Peter Collins
University of Toronto

USING CONTEXT-AWARE EXPERIENCE SAMPLING TO EXAMINE INDIVIDUAL DIFFERENCES IN AFFECTIVE REACTIVITY AND COGNITIVE PERFORMANCE

Jolie Wormwood¹, Zulqarnain Khan²,
Katie Hoemann², Catie Nielson², Madeleine
Devlin², Mallory Feldman², Jennifer Dy²,
Lisa Feldman Barrett² & Karen Quigley³

¹*University of New Hampshire*, ²*Northeastern
University*, ³*Edith Nourse Rogers Memorial VA
Hospital*

DEVELOPING NOVEL ANALYTICS TO OVERCOME CHALLENGES WITH AMBULATORY RECORDINGS OF ELECTRODERMAL ACTIVITY

Matthew Goodwin¹, Ian Kleckner²,
Murat Akcakaya³, Jolie Wormwood⁴,
Rebecca Jones⁵, Lisa Feldman Barrett¹ &
Karen Quigley⁶

¹*Northeastern University*, ²*University of Rochester
Medical Center*, ³*University of Pittsburgh*, ⁴*University
of New Hampshire*, ⁵*Weill Cornell Medicine, The
Center for Autism and the Developing Brain*, ⁶*Edith
Nourse Rogers Memorial VA Hospital*

**AUGMENTED COGNITION: TOWARDS
ENHANCING HUMAN INFORMATION
PROCESSING CAPABILITIES VIA MULTIMODAL
PHYSICAL, PHYSIOLOGICAL, AND COGNITIVE
STATE ESTIMATION**

Sarah Ostadabbas
Northeastern University

**BAYESIAN METHODS FOR MULTIMODAL
DATA FUSION, STATE ESTIMATION, AND
CLASSIFICATION**

Murat Akcakaya
University of Pittsburgh

6:10 p.m.-8:10 p.m.
Columbia A, Ballroom Level

Poster Session II
(Authors present for discussion and questions)

8:15 p.m.-9:45 p.m.
Olympic, Second Floor

Education and Training Committee

8:30 p.m. (off site)

Past Presidents Dinner

(Meet in the lobby of the Hyatt Regency
Hotel at 8:15 p.m.)

Friday, September 27, 2019

7:00 a.m.–6:00 p.m.

Grand Canyon, Second Floor

8:00 a.m.–9:00 p.m.

Olympic, Second Floor

Diversity and Outreach Committee

Speaker Ready Room

8:00 a.m.–9:00 a.m.

Regency Ballroom Foyer

Light Breakfast

8:30 a.m.–6:30 p.m.

Columbia C, Ballroom Level

Registration

8:30 a.m.–10:00 a.m.

Regency Ballroom A, Ballroom Level

Faces of The Future Flash Talks

Session Chair: Stephen Benning

University of Nevada, Las Vegas

AMYGDALA HABITUATION TO UNPLEASANT PICTURES IN BORDERLINE PERSONALITY DISORDER PATIENTS WITH AND WITHOUT A HISTORY OF SUICIDAL BEHAVIOR

Abby Feinberg^{1,2}, Daniel Vaccaro^{1,2},

Morgan Corniquel¹, Jake Szeszko²,

King-Wai Chu², Kim Goldstein² & Erin Hazlett^{1,2}

¹*Icahn School of Medicine at Mount Sinai*, ²*James J. Peters VA Medical Center*

ATTENDING TO AUDITORY WORKING MEMORY REPRESENTATIONS: TARGET FACILITATION OR DISTRACTOR SUPPRESSION?

Laura-Isabelle Klatt, Stephan Getzmann,

Alexandra Begau & Daniel Schneider

Leibniz Research Centre for Working Environment and Human Factors

THE ERROR-RELATED NEGATIVITY AND VIRTUAL REALITY

Jonathan Ryan, Julia Klawohn & Greg Hajcak

Florida State University

THE ERROR-RELATED NEGATIVITY PREDICTS REAL-WORLD DAILY DISTRESS DURING PERIODS OF ACADEMIC STRESS IN EMERGING ADULTS

Iulia Banica, Aislinn Sandre & Anna Weinberg
McGill University

THE EFFECT OF PROVOCATION ON GALVANIC SKIN CONDUCTANCE RESPONSE AND ITS ASSOCIATION WITH IN-VIVO PHYSICAL AGGRESSION

Alexander Puhalla, Kristen Sorgi, Joey Cheung, Martha Fahlgren, Zari Weaver, Sarah Taylor, Carla Capone & Michael McCloskey
Temple University

THE INTERACTION BETWEEN DISGUST AND VAGAL ACTIVITY INFORMS SUBSEQUENT RISK-TAKING BEHAVIOR

Christopher Mullin, Jared McGinley
Towson University

YOU DOWN WITH LPP? HIGHER PERCEIVED SOCIAL CONNECTEDNESS CORRESPONDS WITH HIGHER LPP AMPLITUDE DURING PERSPECTIVE-TAKING

Andrea Coppola¹, Erin Maresh¹, Finn Roberts² & James Coan²
¹University of Arizona, ²University of Virginia

STILL THINKING ABOUT IT: THE ROLE OF RUMINATION IN CARDIOVASCULAR RECOVERY OF AFRICAN AMERICANS AFTER DISCRIMINATION

Mona El-Hout, Kristen Salomon
University of South Florida

NEURONAL ORIENTATION TUNING UNDER CHANGING THREAT CONTINGENCIES: OSCILLATORY SPECIFICITY OF SAFETY LEARNING DURING FEAR GENERALIZATION

L. Forest Gruss¹, Nathan Petro² & Andreas Keil³
¹Vanderbilt University, ²University of Nebraska, Lincoln, ³University of Florida

10:00 a.m.-10:30 a.m.
Regency Ballroom Foyer

Refreshment Break

10:00 a.m.-8:00 p.m.
Regency Ballroom Foyer

Exhibits Open

10:30 a.m.-11:30 a.m.
Regency Ballroom A, Ballroom Level

Invited Address

**THE VISUAL PREFRONTAL CORTEX OF PRIMATES:
AVAILABILITY, DESIRABILITY AND AROUSAL**

Elisabeth A. Murray, PhD

*Chief, Section on the Neurobiology of Learning and
Memory and Chief, Laboratory of Neuropsychology,
National Institute of Mental Health*

Introduction: Vincent Costa, Oregon Health &
Science University

11:30 a.m.-1:00 p.m.

Lunch Break (on your own)

11:30 a.m.-1:00 p.m.
Meet in the Hyatt Hotel's Lobby at 11:30 a.m.

2019 Program Committee

11:30 a.m.-1:00 p.m.
Congressional A, Lobby Level

Diversity and Outreach Luncheon

1:00 p.m.-2:30 p.m.
Regency Ballroom A, Ballroom Level

Diversity Symposium 5.1

**ADDRESSING THE REPRESENTATIVE SAMPLES
PROBLEM IN PSYCHOPHYSIOLOGICAL
RESEARCH: PRACTICAL AND CONCEPTUAL
STRATEGIES FOR ADVANCING THE FIELD**

Session Chair: Lisa Gatzke-Kopp
Pennsylvania State University

**CHALLENGING THE NOTION OF A “HUMAN”
DEFINITION OF PROFILE OF BRAIN FUNCTION**

Lisa Gatzke-Kopp
Pennsylvania State University

**CULTURAL MODERATION OF THE EFFECTS
OF STRESS ON CARDIAC HEALTH:
IMPLICATIONS FOR THE CONCEPTUALIZATION,
MEASUREMENT, AND DESIGN OF RESEARCH
STUDIES**

John Ruiz
University of Arizona

**LOGISTICAL AND PRACTICAL CHALLENGES TO
MEETING THE NIH DIVERSITY EXPECTATIONS**

Ishmael Amarreh
*Office for Disparities Research & Workforce Diversity,
National Institute of Mental Health*

LEAVING THE IVORY TOWER

Wendy D’Andrea
The New School

1:00 p.m.-2:30 p.m.

Regency Ballroom B, Ballroom Level

Symposium 5.2**PHYSIOLOGY TO CHARACTERIZE ROMANTIC
AND NON-ROMANTIC DYAD REGULATION**

Session Chair: Nicole Prause
Liberos LLC

**A NEW R PACKAGE (RTIES) FOR MODELING
DYNAMIC INTERPERSONAL PHYSIOLOGY**

Emily Butler
University of Arizona

**CARDIOVASCULAR REACTIVITY DURING A COLD
PRESSOR TASK AND SPEAKING ALOUD ABOUT
A ROMANTIC RELATIONSHIP: THE ROLE OF
SUPPRESSION AND POSITIVE EMOTIONS**

Kyle Bourassa, John Ruiz & David Sbarra
University of Arizona

COUPLES INCREASE CLOSENESS BY A GENITAL STROKING PRACTICE

Nicole Prause¹, Greg Siegle² & James Coan³

¹Liberos LLC, ²University of Pittsburgh, ³University of Virginia

1:00 p.m.-2:30 p.m.

Regency Ballroom C, Ballroom Level

Symposium 5.3

THE COGNITIVE DYNAMICS OF SELECTION AND LIMITED CAPACITY: INTEGRATING METHODS, PARADIGMS, AND CONCEPTS

Session Chairs: Andreas Keil¹ & Pierre Jolicoeur²

¹University of Florida, ²University of Montreal

UPS AND DOWNS, LEFTS AND RIGHTS, NEAR AND FAR, FAST AND SLOW SPATIOTEMPORAL DYNAMICS OF ATTENTION

Pierre Jolicoeur, Anne Monier, Marie-Eve Picard, Brandi Lee Drisdelle & Martine Desjardins

University of Montreal

THE TIME COURSE OF ATTENTION TO THREATENING STIMULI: DISTINCT ELECTROPHYSIOLOGICAL MARKERS OF ENHANCEMENT AND SUPPRESSION OF ATTENTION TO THREAT

Emily Kappenman¹, Raphael Gedder¹, Jaclyn Farrens¹, Greg Hajcak³ & Steven Luck²

¹San Diego State University, ²University of California, Davis, ³Florida State University

PREDICTABLE DISTRACTIONS: EEG AND ERP CORRELATES OF DISTRACTOR PREDICTABILITY IN VISUAL SEARCH

Paul Corballis, Kane Pavlovich & Deborah Yi

The University of Auckland

OSCILLATORY SAMPLING IN TIME AND SPACE AS A MECHANISM FOR THE FLEXIBLE MANAGEMENT OF LIMITED CAPACITY

Andreas Keil, Maeve Boylan, W. Friedl & Kierstin Riels

University of Florida

1:00 p.m.–2:30 p.m.

Concord, Ballroom Level

Symposium 5.4

'CAUSE IT'S YOU, AND ME, AND MY AUTONOMIC ACTIVITY: A MULTI-METHOD EXAMINATION OF PUTATIVE INTERPERSONAL, COGNITIVE, AND BEHAVIORAL MECHANISMS OF DEPRESSION RISK ACROSS DEVELOPMENT

Session Chairs: Ilya Yaroslavsky¹ & Xiao Yang²

¹Cleveland State University, ²University of Pittsburgh

MIND OR BODY? THE ROLE OF COGNITIVE EFFORT AND AUTONOMIC FUNCTIONING IN EMOTION REGULATION AMONG INDIVIDUALS WITH HISTORIES OF DEPRESSION

Xiao Yang & Maria Kovacs

University of Pittsburgh

DOES SYMPATHETIC NERVOUS SYSTEM OUTPUT PREDICT EMOTION REGULATION OUTCOMES ACROSS LABORATORY AND DAILY LIFE SETTINGS?

Anna Olczyk & Ilya Yaroslavsky

Cleveland State University

POLYVAGAL THEORY CAN INFORM INTERPERSONAL MODELS OF DEPRESSION: RESPIRATORY SINUS ARRHYTHMIA REACTIVITY PREDICTS DEPRESSOGENIC INTERPERSONAL PROCESSES ACROSS LABORATORY AND DAILY LIFE SETTINGS

Ilya Yaroslavsky

Cleveland State University

VULNERABILITY-STRESS MODEL OF DEPRESSION: RESPIRATORY SINUS ARRHYTHMIA IN THE CONTEXT OF LIFE STRESSORS

Jessica Hamilton¹, Jonathan Stange² & Lauren Alloy³

¹University of Pittsburgh, ²University of Illinois, Chicago, ³Temple University

2:30 p.m.-3:00 p.m.
Regency Ballroom Foyer

Refreshment Break

2:30 p.m.-3:00 p.m.
Olympic (Second Floor)

Convention Sites Committee

3:00 p.m.-4:30 p.m.
Regency Ballroom A, Ballroom Level

Big Question Session 6.1

WHAT HAVE WE LEARNED FROM STUDYING AFFECTIVE CHRONOMETRY (I.E., THE TIME COURSE OF AN AFFECTIVE OR EMOTIONAL RESPONSE) USING PSYCHOPHYSIOLOGICAL MEASURES?

Session Chair: Catherine Norris
Swarthmore College

Discussant: Gregory A. Miller
University of California, Los Angeles

WHEN THE STAKES ARE HIGH: PARASYMPATHETIC CONTROL IN THE CONTEXT OF RISK VARIES BY CHILDHOOD TRAUMA

Sarah Herzog, Nicole Kouri, Lauren Krulis,
Noga Miron, Thomas Wilson, Scott McKernan,
C.J. Healy, Justine Rudy, Wendy D'Andrea
The New School

THE TEMPORAL DYNAMICS OF EMOTIONAL RESPONDING: IMPLICATIONS FOR HEALTH AND WELL-BEING

Stacey Schaefer¹, Carien van Reekum²,
Richard Davidson¹
¹*University of Wisconsin*, ²*University of Reading*

CONTRIBUTION OF UPDATING EMOTIONAL CONFLICT MONITORING TO EMOTION DYSREGULATION IN TRAUMA-EXPOSED INDIVIDUALS

Jacklynn Fitzgerald¹, Ashley Huggins¹,
Tara Miskovic² & Christine Larson¹
¹*University of Wisconsin, Milwaukee*, ²*VA Northern California Healthcare System*

3:00 p.m.–4:30 p.m.

Regency Ballroom B, Ballroom Level

Symposium 6.2

KICKING THE CAN (CENTRAL AUTONOMIC NETWORK) FROM PREDICTIVE CODING MODELS TO STRUCTURAL AND FUNCTIONAL CONNECTIVITY

Session Chair: Ben Allen

University of Tennessee

Discussant: John R. Jennings

University of Pittsburgh

THE HIERARCHICAL BASIS OF NEUROVISCERAL INTEGRATION

Richard Lane¹, Julian Thayer², Sahib Khalsa³ & Ryan Smith³

¹*University of Arizona*, ²*The Ohio State University*,

³*Laureate Institute for Brain Research*

RESTING STATE FUNCTIONAL CONNECTIVITY ASSOCIATED WITH HEART RATE REGULATION

Karl-Jürgen Bär, Feliberto De La Cruz, Andy Schumann & Gerd Wagner

Universitätsklinikum Jena

PARSING HETEROGENEITY IN THE EFFECTIVE CONNECTIVITY OF THE CENTRAL AUTONOMIC NETWORK DURING FEAR-CONDITIONING USING FMRI

Ben Allen & Shannon Ross-Sheehy

University of Tennessee

NETWORK ARCHITECTURE UNDERLYING BASAL AUTONOMIC OUTFLOW: IMPLICATIONS FOR EMOTION AND SOCIAL BEHAVIOR

Virginia Sturm¹, Jesse Brown¹, Alice Hua³, Sandy Lwi², Howard Rosen¹, Joel Kramer¹, Bruce Miller¹, Robert Levenson³ & William Seeley¹

¹*University of California, San Francisco*, ²*San Francisco VA Medical Center*, ³*University of California, Berkeley*

3:00 p.m.–4:30 p.m.

Regency Ballroom C, Ballroom Level

Symposium 6.3

FEAR AND LOATHING IN D.C.: THE PSYCHOPHYSIOLOGY OF VARIOUS REASONS OF MALADAPTIVE THREAT PROCESSING

Session Chair: Erik Müller¹ & Matthias Wieser²

¹University of Marburg, ²Erasmus University Rotterdam

FEAR CONDITIONING WITH AN IMAGINED UNCONDITIONED STIMULUS

Erik Müller, Christian Panitz & Matthias Sperl
University of Marburg

SPONTANEOUS RECOVERY OF CONDITIONED FEAR SEEMS FACILITATED BY DISTAL STRESS

Marta Andreatta¹, Christopher Klinke¹, Dominik Fiedler² & Maren Lange²

¹University of Würzburg, ²University of Münster

A DISSOCIATION BETWEEN SUBJECTIVE AND VISUOCORTICAL INDICES OF FEAR GENERALIZATION

Matthias Wieser¹, Lea Ahrens², Yannik Stegmann², Paul Pauli² & Andreas Keil³

¹Erasmus University Rotterdam, ²University of Würzburg, ³University of Florida

HIGH RESOLUTION IMAGING OF FEAR GENERALIZATION AND AVOIDANCE OF THREAT

Christine Larson¹, Ashley Huggins¹, Elizabeth Parisi¹, Greg Hajcak² & Vladimir Miskovic³

¹University of Wisconsin, Milwaukee, ²Florida State University, ³Binghamton University

NEUROGENETIC BASES OF DISPOSITIONAL NEGATIVITY AND EXTREME ANXIETY

Alexander Shackman
University of Maryland

3:00 p.m.–4:30 p.m.

Concord, Ballroom Level

Symposium 6.4**THE PSYCHOPHYSIOLOGY OF UNDERSTANDING OTHERS IN A SOCIAL CONTEXT: A MULTI-METHOD APPROACH**

Session Chair: Marissa DiGirolamo

*Brandeis University***COMPUTATIONS UNDERLYING SOCIAL GROUP STRUCTURE LEARNING: DISTINCT NEURAL MECHANISMS FOR UPDATING SIMILARITY VERSUS COALITION INFORMATION**

Mina Cikara, Tatiana Lau & Samuel Gershman

*Harvard University***IS SHARING REALLY CARING: CLARIFYING THE RELATIONSHIP BETWEEN SENSORIMOTOR RESONANCE AND EMPATHIC TRAITS**

Marissa DiGirolamo, Kristiana Hubley,

Alek Kopulsky & Jennifer Gutsell

*Brandeis University***A DYADIC APPROACH TO STUDY THE LINK BETWEEN SENSORIMOTOR RESONANCE AND FACE-TO-FACE EMPATHY**

Jennifer Gutsell, Jeremy Simon & Siyu Liang

*Brandeis University***CULTURAL INFLUENCES ON PHYSIOLOGICAL LINKAGE AMONG GROUP MEMBERS**

Katherine Thorson

New York University

4:45 p.m.–5:15 p.m.

Regency Ballroom A, Ballroom Level

Early Career Award Address**NEUROVISCERAL REGULATORY CIRCUITS OF AFFECTIVE RESILIENCE IN YOUTH**

Julian Koenig

*Universität Heidelberg**Introduction: Terry Blumenthal, Wake Forest University*

5:15 p.m.–5:45 p.m.

Regency Ballroom A, Ballroom Level

Early Career Award Address

**A MULTIMODAL APPROACH TO EMOTIONAL
PROCESSING AND REGULATION IN DEPRESSION**

Lauren M. Bylsma

University of Pittsburgh School of Medicine

*Introduction: Terry Blumenthal, Wake Forest
University*

6:00 p.m.–8:00 p.m.

Columbia A, Ballroom Level

Poster Session III

(Authors present for discussion and questions)

8:30 p.m.–9:30 p.m.

Capitol A, Lobby Level

Committee to Promote Student Interests

10:00 p.m.

Student Social

(The Alibi, 237 2nd Street, NW)

Saturday, September 28, 2019

7:00 a.m.–11:00 a.m.

Grand Canyon, Second Floor

Speaker Ready Room

8:30 a.m.–12:30 p.m.

Columbia C, Ballroom Level

Registration

8:30 a.m.–10:00 a.m.

Regency Ballroom A, Ballroom Level

Symposium 7.1**ELECTROCORTICAL RESPONSES IN EMOTION PROCESSING: INSIGHTS FROM HEALTHY PARTICIPANTS, AMYGDALA-RESECTION AND PSYCHOPATHOLOGICAL PATIENTS**

Session Chair: Sebastian Schindler
University of Muenster

EMOTION AND ATTENTION EFFECTS AS REVEALED BY BRAIN OSCILLATIONS

David Schubring & Harald Schupp
University of Konstanz

MODULATION OF STEADY STATE VISUAL EVOKED FIELDS BY EMOTIONAL AROUSAL AND ITS RELATION TO AUTONOMIC RESPONSES AND AMYGDALA VOLUME

Javier Echegaray & Stephan Moratti
Complutense University of Madrid

EFFECTS OF RIGHT TEMPORAL LOBE RESECTION ON EVENT RELATED POTENTIAL (ERP) CORRELATES OF AFFECTIVE PICTURE PROCESSING

Malena Mielke¹, Alexandra Mehlmann¹,
Lea Stieghorst², Christian Bien² & Johanna Kißler¹
¹Bielefeld University, ²Epilepsy Centre Bethel

INSIGHTS ON EXPLICIT AND IMPLICIT EMOTION REGULATION FROM ELECTROPHYSIOLOGY

Jason Moser¹, Ethan Kross² & Darwin Guevarra²
¹Michigan State University, ²University of Michigan

**A SELECTIVE EMOTIONAL MODULATION OF
THE LATE POSITIVE POTENTIAL DEPENDS
ON ANXIETY-SPECIFIC CONTENT ACROSS
DIFFERENT ANXIETY DISORDERS**

Sebastian Schindler & Thomas Straube
University of Münster

8:30 a.m.-10:00 a.m.
Capitol B, Lobby Level

Symposium 7.2

**PSYCHOPHYSIOLOGY OF PAIN PROCESSING:
MODULATION BY INDIVIDUAL-DIFFERENCE AND
SITUATIONAL FACTORS**

Session Chair: Jens Foell
Florida State University

**CALLOUSNESS AND STIMULUS INTENSITY
MODULATE ELECTROCORTICAL PAIN RESPONSE**

Emily Perkins¹, Keanan Joyner¹, Destiny Kruzel¹,
Carson Jordan¹, Sarah Brislin², Greg Hajcak¹,
Christopher Patrick¹ & Jens Foell¹
¹*Florida State University*, ²*University of Michigan*

**BRAIN REGULATION OF PAIN ENCODING IN
FACIAL EXPRESSION: EFFECTS OF SUGGESTIONS**

Pierre Rainville¹, Miriam Kunz² & Jen-I Chen¹
¹*University of Montreal*, ²*University of Bamberg*

**THE SOOTHING EFFECTS OF PETS DURING
CHALLENGING TIMES: THE PRESENCE OF PET
DOGS REDUCES PHYSICAL AND SOCIAL PAIN**

Heidi Mauersberger & Ursula Hess
Humboldt University of Berlin

**USING THE NOCICEPTIVE FLEXION INDEX (NFI)
TO ASSESS ENDOGENOUS FACILITATORY AND
INHIBITORY PROCESSES AT THE SPINAL LEVEL IN
HUMANS**

Jamie Rhudy
University of Tulsa

8:30 a.m.-10:00 a.m.

Concord, Ballroom Level

Symposium 7.3

TAME YOUR DESIRES - COGNITIVE CONTROL AND REWARD PROCESSING

Session Chairs: Barbara Schmidt¹ & Daniela Pfabigan²

¹University of Jena, ²University of Oslo

Discussant: James Cavanagh
University of New Mexico

UNDERSTANDING THE REWARD POSITIVITY: PARSING REWARD, AFFECT, AND CONTROL

Darin Brown & James Cavanagh
University of New Mexico

MODULATORY EFFECTS OF POSITIVE MOOD AND APPROACH MOTIVATION ON REWARD PROCESSING: TWO SIDES OF THE SAME COIN?

Katharina Paul¹, Gilles Pourtois¹ & Eddie Harmon-Jones²

¹Ghent University, ²University of New South Wales

SOCIAL COMPARISON FEEDBACK IS NOT ALWAYS THE MOST SALIENT ONE: AN MEG STUDY

Daniela Pfabigan¹, Yuqing Zhu² & Shihui Han²
¹University of Oslo, ²Peking University

WHEN MONEY DOES NOT MATTER ANY MORE: THE SUGGESTION OF SAFETY DURING HYPNOSIS LEADS TO LESS IMPULSIVITY, INDICATED BY ERP AMPLITUDES AND RATINGS

Barbara Schmidt
University of Jena

MODULATING COGNITIVE CONTROL FUNCTIONING IN HEALTH AND DISEASE USING COMBINED EEG-TMS METHODS

Travis Baker, Kathryn Biernacki, Mei-Heng Lin & Malte Güth
Rutgers University

10:00 a.m.-10:30 a.m.
Regency Ballroom Foyer

Refreshment Break

10:30 a.m.-11:30 a.m.
Regency Ballroom A, Ballroom Level

Invited Address

**FMRI-BASED MODELS OF AFFECTIVE
EXPERIENCE: COMPUTATION, REPRESENTATION,
AND BRAIN-BODY COMMUNICATION**

Tor Wager

*Diana L. Taylor Distinguished Professor, Department
of Psychological and Brain Sciences, Dartmouth College*

Introduction: Jason Moser

Michigan State University

11:30 a.m.-12:30 p.m.
Regency Ballroom A, Ballroom Level

Presidential Address

**WHO TO WHOM AND WHY: THE SOCIAL NATURE
OF FACIAL MIMICRY OF EMOTIONS**

Ursula Hess, PhD

Professor of Psychology, Humboldt University of Berlin

Introduction: Kara D. Federmeier

University of Illinois, Urbana-Champaign

12:45 p.m.-3:00 p.m.
Regency Ballroom B, Ballroom Level

General Business Meeting and Luncheon
(ticketed event)

3:30 p.m.–6:30 p.m.

Capitol B, Lobby Level

Symposium 8.1

“SO, WHAT’S NEW?” EMANUEL DONCHIN’S CONTRIBUTIONS TO THE COGNITIVE PSYCHOPHYSIOLOGY OF THE 21ST CENTURY

Session Chairs: Gabriele Gratton & Monica Fabiani
University of Illinois, Urbana-Champaign

“OUR FEARLESS LEADER”: MANNY’S ROLES AS A SCIENTIST, DEPARTMENT HEAD AND MENTOR

Michael Coles
University of Illinois, Urbana-Champaign

THINGS YOU MAY NOT KNOW ABOUT MANNY, AND WERE AFRAID TO ASK

Michael Coles
University of Illinois, Urbana-Champaign

MANNY DONCHIN AS A LEADER

Gregory A. Miller
University of California, Los Angeles

THE TRANSFORMATIVE IMPACT OF MANNY’S CARMEL CONFERENCES

Steven A. Hillyard
University of California, San Diego

A CHAMPAIGN TOAST TO MANNY DONCHIN

Skip Johnson
Queens College, CUNY

MEMES, MIRTH, AND MANNY

John Polich
Scripps Clinic (retired)

A TRANSFORMATIVE EXPERIENCE: MY YEARS AT THE CPL (1979–1982)

Ted Bashore
University of Northern Colorado

“ERPS AS A WINDOW INTO THE MIND”: THEORETICAL AND METHODOLOGICAL CONTRIBUTIONS

Gregory McCarthy
Yale University

ERPS, MENTAL CHRONOMETRY, AND STRATEGIC CONTROL

Gabriele Gratton

University of Illinois, Urbana-Champaign

THE IMPORTANCE OF INDIVIDUAL DIFFERENCES IN COGNITIVE PSYCHOPHYSIOLOGY

Monica Fabiani

University of Illinois, Urbana-Champaign

THE CONCEPT OF THE ERP COMPONENT IN COGNITIVE NEUROSCIENCE

Kevin Spencer

Harvard University

ERN!...ERN?

Bill Gehring

University of Michigan

HOW SWEET IT IS: A DOUBLE-BLIND PLACEBO-CONTROL ASSESSMENT OF THE ROLE GLUCOSE PLAYS IN THE REGULATION OF ERRANT BEHAVIOR

David Strayer

University of Utah

ERP CORRELATES OF FEEDBACK-BASED LEARNING IN CHILDREN WITH TYPICAL AND ATYPICAL LANGUAGE DEVELOPMENT

Yael Arbel

University of South Florida

INDIVIDUAL DIFFERENCES IN ERROR PROCESSING ARE REFLECTED IN EEG ACTIVITY DURING MOTOR ADAPTATION

Opher Donchin

Ben-Gurion University of the Negev, Israel

“THE TALKING BRAIN”: APPLICATIONS OF ERPS TO HUMAN FACTORS, THE GUILTY KNOWLEDGE PARADIGM AND BRAIN-COMPUTER INTERFACING (BCI)

Monica Fabiani

University of Illinois, Urbana-Champaign

**BEYOND HUMAN FACTORS: THE
PSYCHOPHYSIOLOGY OF LIFESTYLE**

Art Kramer
Northeastern University

**COGNITIVE ENHANCEMENT VIA EEG AND
EYE-TRACKING WHILE FREELY READING
PARAGRAPHS**

Joe Dien
University of Maryland, College Park

**FROM THE P300 EVENT-RELATED POTENTIAL TO
THE P300-BASED BRAIN-COMPUTER INTERFACE**

Eric Sellers
East Tennessee State University

Closing Remarks**EMANUEL DONCHIN: FINAL WORDS: PROSE AND
POETRY**

Marta Kutas
University of California, San Diego

9:00 p.m.

Regency Ballroom B, Ballroom Level

***Saturday Night Social featuring the
SPR Blues Band***

Sunday, September 29, 2019

9:00 a.m.–12:00 noon
Thornton Room (11th Floor)

Board of Directors

Poster Session I

Wednesday, September 25, 2019
Columbia A, Ballroom Level

6:00 p.m.–7:00 p.m.	Posters Assembled
7:00 p.m.–9:00 p.m.	Authors Present for Discussion and Questions
9:00 p.m.–9:30 p.m.	Dismantle Posters

POSTER 1-001

**WORKING MEMORY, SHORT TERM VISUAL
MEMORY AND THE N400**

*Amy Lowe¹, Juniper Hollis¹, Jessica Roy¹, Tori Okabe¹,
Cindy Bukach², Catherine Reed³ & Jane Couperus¹*
*¹Hampshire College, ²University of Richmond,
³Claremont McKenna College*

POSTER 1-002

**AGE-RELATED DIFFERENCES IN DEFAULT
COGNITIVE PROCESSING STRATEGIES**

*Daniel Bowie^{1,2}, Kathy Low^{1,2}, Monica Fabiani^{1,2}
& Gabriele Gratton^{1,2}*
*¹University of Illinois, Urbana-Champaign,
²Beckman Institute for Advanced Science and
Technology*

POSTER 1-003

**ERP CORRELATES OF AGE-RELATED CHANGES IN
INHIBITORY FUNCTION IN A COMBINED SIMON-
FLANKER TASK**

Olivia Stella, Rachel Scrivano & Paul Kieffaber
College of William & Mary

POSTER 1-004**CONNECTIVITY DYNAMICS BETWEEN THE RIGHT ANTERIOR INSULA AND THE ANTERIOR CINGULATE CORTEX DURING ANTICIPATION OF INTEROCEPTIVE RESPONSE**

Yoshimi Ohgami¹, Yasunori Kotani¹, Nobukiyo Yoshida², Akira Kunimatsu², Shigeru Kiryu³ & Yusuke Inoue⁴

¹Tokyo Institute of Technology, ²The University of Tokyo, ³International University of Health and Welfare, ⁴Kitasato University

POSTER 1-005**HYDROCORTISONE AFFECTS WM PERFORMANCE AND THREAT-INTERFERENCE DURING PERFORMANCE UNDER ACUTE STRESS IN HIGH ANXIOUS PARTICIPANTS**

Angelos Angelidis, Akrivi Kyrgiou & Peter Putman
Leiden University

POSTER 1-006**ACTIVATION OF THE VISUAL CORTEX BY A SALIENT SOUND MODULATES TEMPORAL ORDER JUDGMENTS**

Amour Simal, Agathe Augias & Pierre Jolicoeur
University of Montreal

POSTER 1-007**A PSYCHOPHYSIOLOGICAL INVESTIGATION OF THE INTERPLAY BETWEEN ORIENTING AND EXECUTIVE CONTROL DURING STIMULUS CONFLICT: A HEART RATE VARIABILITY STUDY**

Lin Sorensen¹, Sam Wass², Berge Osnes^{1,3}, Elisabeth Schanche¹, Steinunn Adolfsdottir¹, Julie Svendsen^{1,3}, Endre Visted^{1,3}, Thomas Eilertsen¹, Daniel Jensen¹, Helge Nordby¹, Ole Bernt Fasmer^{1,3}, Per-Einar Binder¹, Julian Koenig^{4,5} & Edmund Sonuga-Barke^{6,7}

¹University of Bergen, ²University of East London, ³Haukeland University Hospital, ⁴University of Heidelberg, ⁵University of Bern, ⁶King's College London, ⁷Gent University

POSTER 1-008

COMPARING REWARD AND INSTRUCTIONAL RELEVANCE IN TARGET DETECTION

Constanza de Dios, Steven Ford & Geoffrey Potts
University of South Florida

POSTER 1-009

INVESTIGATING THE EEG ERROR-RELATED NEGATIVITY IN COLLEGE STUDENTS WITH ADHD, ANXIETY, AND DEPRESSION

Mariacristina Canini, Marissa Jones, Benjamin Sawyer, Ethan Ashworth & Eric Sellers
East Tennessee State University

POSTER 1-010

HIGH APPROACH-MOTIVATED VERSUS LOW APPROACH-MOTIVATED POSITIVE AFFECT FOLLOWING SELF-CONTROL: THE RELATION BETWEEN ERPS AND ATTENTIONAL BREADTH

Brent Pitchford, Karen Arnell
Brock University

POSTER 1-011

ABNORMAL PRIMING IN EARLY-ONSET CANNABIS USERS: AN ERP STUDY

Frances Martin, Elena Mikulskaya
University of Newcastle

POSTER 1-012

REEXAMINING P300 AND SECONDARY TASK REACTION TIME ELICITED BY ELECTRICAL PROBES WHILE WATCHING EMOTIONALLY VARIED FILMS THROUGH INDIVIDUAL DIFFERENCES IN MOTIVATIONAL ACTIVATION

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POSTER 1-013

QUIET EYE DURATION EVALUATED BY ELECTROOCULOGRAM DURING ARCHERY PERFORMANCE

Naoki Yoshikawa, Takahiro Hirao & Hiroaki Masaki
Waseda University

POSTER 1-014**SELECTIVE STIMULATION OF EEG THETA, ALPHA, AND BETA ACTIVITY BY A FREQUENCY-BASED THERAPEUTICAL APPROACH**

Diana Henz
University of Mainz

POSTER 1-015**ACUTE EXERCISE, ADIPOSITY AND BRAIN FUNCTION IN PREADOLESCENT CHILDREN**

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Urbana-Champaign*

POSTER 1-016**NEURONAL CORRELATES OF ADAPTIVE CONTROL IN WORKING MEMORY**

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Marco Steinhauser¹
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School Berlin*

POSTER 1-018**ACUTE EXERCISE EFFECTS ON INHIBITORY CONTROL AND THE PUPILLARY RESPONSE**

Tatsuya Shigeta, Peter Bex & Charles Hillman
Northeastern University

POSTER 1-019**THE RELATIONSHIP BETWEEN EXPERIMENTALLY-INDUCED STRESS AND HIGH-CALORIE FOOD PROCESSING: A GO/NO-GO N2 ERP STUDY**

Whitney Allen, Rebekah Rodeback, Ariana Hedges, James LeCheminant & Michael Larson
Brigham Young University

POSTER 1-020**THE TIME COURSE OF COGNITIVE BENEFIT AND DEFICIT AFTER AN ACCESSORY STIMULUS SUPPORTS THE NOREPINEPHRINE THEORY OF THE ATTENTIONAL BLINK**

Christopher Warren¹, Allison Hancock¹,
Ariel Snowden¹ & Klodiana-Daphne Tona²
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POSTER 1-021

**TRANSCRANIAL ULTRASOUND INFLUENCES
BEHAVIOR AND ELECTROENCEPHALOGRAPHY
IN A GO/NO-GO TASK**

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& Johannes Hewig¹

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POSTER 1-022

**MENTAL WORKLOAD ASSESSMENT DURING THE
PERFORMANCE OF ECOLOGICALLY VALID TASKS
UNDER VARIOUS COGNITIVE-MOTOR DEMANDS**

Emma Shaw¹, Jeremy Rietschel², Steven Kahl¹,
Brad Hendershot³, Alison Pruziner³, Erik Wolf³,
Christopher Dearth³, Matthew Miller⁴,
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Amputation Center of Excellence, ⁴Auburn University

POSTER 1-023

**HYPER-FREQUENCY HYPER-BRAIN NETWORK
TOPOLOGY DYNAMICS WHEN PLAYING GUITAR
IN QUARTET**

Viktor Müller & Ulman Lindenberger

Max Planck Institute for Human Development

POSTER 1-024

**ROUTINE ACTIONS MAY REDUCE PERFORMANCE
MONITORING OF ATHLETES**

Hiroaki Masaki, Takuto Matsuhashi¹ &
Takahiro Hirao¹

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POSTER 1-025

**REDUCED N2 (AND ERN) IN A MODIFIED
GO/NOGO TASK AS AN INDICATOR OF
EXTERNALIZING PRONENESS: COHERENCE
ACROSS ALTERNATIVE SCORING APPROACHES**

Pablo Ribes Guardiola, Rosario Poy, Pilar Segarra,
Victoria Branchadell, Carlos Bayarri, Ángela Recio,
Manon Rousselle & Javier Moltó

Universitat Jaume I

POSTER 1-026**ESTRADIOL LEVELS MODIFY THE FUNCTIONAL ROLE OF THE ERN IN POST-ERROR ADAPTATION**

Courtney Louis & Jason Moser
Michigan State University

POSTER 1-027**EFFECTS OF E-CIGARETTE USE ON BRAIN POTENTIALS DURING A REINFORCEMENT-CUED FLANKER TASK**

Zachary Levy, Eric Rawls & Connie Lamm
University of Arkansas

POSTER 1-028**THE SERIAL ARCHITECTURE OF PROACTIVE CONTROL AS REVEALED BY TIME-GENERALISED MULTIVARIATE PATTERN ANALYSIS OF EVOKED EEG ACTIVITY**

José García Alanis & Martin Peper
Philipps-Universität Marburg

POSTER 1-029**CONTRASTING TIME AND FREQUENCY DOMAINS: TRANSIENT FRONTAL MIDLINE THETA PREDICTS ADAPTIVE POST-ERROR COMPENSATIONS**

Paul Beatty¹, George Buzzell², Daniel Roberts¹ & Craig McDonald¹
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POSTER 1-030**OSCILLATORY AND HEMODYNAMIC CORRELATES DURING GOAL-DIRECTED NAVIGATION: A COMBINED EEG-FMRI STUDY USING A VIRTUAL T-MAZE TASK**

Malte Gueth, Ravi Mill, Michael Cole & Travis Baker
Rutgers University

POSTER 1-031**THE EFFECTS OF ACUTE HIGH-INTENSITY INTERVAL TRAINING ON WORKING MEMORY AND CONTRALATERAL DELAY ACTIVITY**

Caroline Meadows, Eric Drollette
University of North Carolina, Greensboro

POSTER 1-034

THE ROLE OF PHYSIOLOGICAL AROUSAL IN APPETITIVE CUE EFFECTS ON INTERTEMPORAL CHOICE

Kilian Knauth, Jan Peters
University of Cologne

POSTER 1-035

THE NEURAL AND COMPUTATIONAL BASIS OF CREDIT ASSIGNMENT IN ENVIRONMENTS WITH MULTIPLE FEEDBACK

Franz Wurm, Benjamin Ernst & Marco Steinhauser
Catholic University of Eichstaett-Ingolstadt

POSTER 1-036

FROM ELECTRO-DERMAL ACTIVATION TO INTEROCEPTIVE AWARENESS: DOES METACOGNITIVE EVALUATION RELY ON BODY AROUSAL?

Mandy Rossignol^{1,2}, Khira El Bouragui^{1,2,3,4},
Erika Wauthia^{1,2,4}, Romane Besin¹, Coralie Rouge¹ &
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POSTER 1-037

THREAT OF SHOCK-INDUCED ANXIETY REDUCES WORKING MEMORY CAPACITY

Richard Ward, Hannah Sallmann, Carter Ginter,
Salahadin Lotfi, Han Joo Lee & Christine Larson
University of Wisconsin, Milwaukee

POSTER 1-038

ALTERED N170 RESPONSE IN A FACIAL ODDBALL TASK IN PERSONS WITH HIGH DEPRESSIVE SYMPTOMS

Korbinian Riepl^{1,2}, Patrick Mussel³, Johannes Hewig¹, Christopher Beevers² & David Schnyer²
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POSTER 1-039**THE SOCIAL INFLUENCE OF AFFECTIVE FACES AND EMOJIS ON DECISION MAKING AND ITS PSYCHOPHYSIOLOGICAL CORRELATES**

Martin Weiß¹, Patrick Mussel² & Johannes Hewig¹
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POSTER 1-040**ACTIVATION IN THE AMYGDALA IN A SIMPLE AND SHORT PICTURE VIEWING TASK FOR CLINICAL APPLICATION**

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POSTER 1-041**PHYSIOLOGICAL AND EMOTION REGULATION IN EARLY CHILDHOOD**

Alyssa Palmer, Daniel Berry, Rebecca Distefano & Ann Masten
University Of Minnesota

POSTER 1-042**ACUTE AEROBIC EXERCISE BOOSTS EMOTIONAL REACTIVITY TO PLEASANT IMAGES BUT DOES NOT IMPACT REWARD PROCESSING**

Christopher Brush¹, Dan Foti², Matthew Miller³, Anthony Bocchine⁴, Kristina Muniz⁴, Matthew Gooden⁴ & Brandon Alderman⁴
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POSTER 1-043**ASSESSING THE RELATIONSHIP BETWEEN ALPHA POWER AND HEMODYNAMIC ACTIVATION DURING MENTAL IMAGERY**

Maeve Boylan, Wendel Friedl & Harold Rocha, Andreas Keil
University of Florida

POSTER 1-044

RETURNING A SMILE: THE IMPACT OF SOCIAL INTERACTION ON THE PROCESSING OF FACIAL EMOTIONS

Leon Kroczek & Andreas Mühlberger
University of Regensburg

POSTER 1-045

FUNCTIONAL BRAIN ACTIVITY DURING EMOTIONAL IMAGERY AND PERCEPTION: A WITHIN- SUBJECT ASSESSMENT

Nicola Sambuco, Margaret Bradley,
Katja Hillbrandt & Peter Lang
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University of Florida*

POSTER 1-046

SPATIAL FILTERING ATTENUATES THE EARLY POSTERIOR NEGATIVITY IN RESPONSE TO SNAKE STIMULI

Jan Van Strien & Nikolaos Beligiannis
Erasmus University

POSTER 1-047

PATTERNS OF ACTIVATION OF THE AUTONOMOUS NERVOUS SYSTEM UNDER WATCHING TO THE EMOTIONALLY ACCENTED TV NEWS

Sergii Tukaiev, Yurii Havrylets, Volodymyr Rizun,
Igor Zyma & Mykola Makarchuk
National Taras Shevchenko University of Kyiv

POSTER 1-048

SEXUAL MINORITY STATUS AND MOOD INDUCED PHYSIOLOGICAL RESPONSE IN FEMALES WHO ENGAGE IN NONSUICIDAL SELF-INJURY

Allison Daurio, Chelsea Ennis & Jeanette Taylor
Florida State University

POSTER 1-049

PARENTAL COHERENCE AND DIVERGENCE IN ENACTED AND REPORTED REACTIONS TO CHILD DISAPPOINTMENT PREDICTS CHILD RSA REACTIVITY

Laura DeLoretta & Elizabeth Davis
University of California, Riverside

POSTER 1-050**PHOBIC FEAR DOES NOT PREDICT SENSITIZATION TO STARTLE STIMULI DURING HABITUATION**

J. Alex Faunce, Michael Lewis, Russell Jones & Bruce Friedman

Virginia Polytechnic Institute and State University

POSTER 1-051**ELECTROPHYSIOLOGICAL RESPONSE TO HIGH AND LOW AROUSING EMOTIONAL IMAGES IN COCAINE USERS**

Heather Soder¹, Francesco Versace², Margaret Wardle^{1,3}, Charles Green¹, Joy Schmitz¹ & Scott Lane¹

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POSTER 1-052**THE LATE POSITIVE POTENTIAL IS A MARKER OF HYPERVIGILANCE IN ANXIETY**

Danielle Smith, Eric Rawls & Connie Lamm

University of Arkansas

POSTER 1-053**EFFECTS OF LEFT VERSUS RIGHT TEMPORAL LOBE RESECTION ON EMOTIONAL STIMULUS PROCESSING: AN EEG STUDY**

Malena Mielke¹, Alexandra Mehlmann¹,

Lea-Marie Stieghorst², Christian Bien²

& Johanna Kissler¹

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POSTER 1-054**ATTENTION BIAS MODIFICATION TRAINING TOWARDS POSITIVE STIMULI POTENTIATE REWARD-RELATED POSITIVITY**

Rourke Sylvain, Hayley Gilbertson,

Jeremy Andrzejewski & Joshua Carlson

Northern Michigan University

POSTER 1-055

BI-DIRECTIONAL INFLUENCE OF MOTOR-ACTION PREPARATION: GREATER MOTOR BETA SUPPRESSION INCREASES N1 AMPLITUDES TO APPETITIVE STIMULI

Hunter Threadgill & Philip Gable
University of Alabama

POSTER 1-056

SEX DIFFERENCES IN THE RELATIONSHIP BETWEEN ERROR-RELATED ELECTROCORTICAL ACTIVITY AND ANXIETY

Natalie Strand, Ryan Watling, Jeremy Andrzejewski & Joshua Carlson
Northern Michigan University

POSTER 1-057

POSITIVE EMOTION REGULATION: THE NEURAL CORRELATES OF SAVORING

Ian Kahrilas, Fred Bryant, Kelly Polnaszek, Margaret Schroer, Adrianna Diviero, Afreen Hussaini & Rebecca Sifton
Loyola University Chicago

POSTER 1-058

APPLICATION OF A BLUETOOTH HEADSET, CABLE HEADSET, AND A SMARTPHONE CHIP ON THE SMARTPHONE: DO THESE DEVICES REDUCE EFFECTS ON EEG BRAIN ACTIVITY INDUCED BY SMARTPHONE-EMITTED ELECTROMAGNETIC FIELDS?

Diana Henz
University of Mainz

POSTER 1-059

POST MEDITATION CHANGES IN EEG SPECTRUM OF LONG-TERM BRAHMAKUMARIS RAJAYOGA MEDITATORS

Kanishka Sharma¹, Ronnie Daniel², Sushil Chandra² & Ramakrishnan AG¹
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POSTER 1-060**CYNICAL HOSTILITY AND THE RELATIONSHIP TO PHYSIOLOGICAL HABITUATION TO RECURRENT STRESS**

Alexandra Tyra¹, Ryan Brindle², Brian Hughes³ & Annie Ginty¹

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POSTER 1-061**INTOLERANCE OF UNCERTAINTY ASSOCIATED WITH REDUCED HEART RATE VARIABILITY IN ACUTE TRAUMA SURVIVORS**

Ashley Huggins¹, Terri deRoos-Cassini² & Christine Larson¹

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POSTER 1-062**SUBSTANCE MISUSE AND EEG/BEHAVIORAL CORRELATES OF RESPONSE INHIBITION: ETIOLOGICAL INSIGHTS FROM A COTWIN CONTROL DESIGN**

Jeremy Harper, Stephen Malone, Irene Elkins & William Iacono

University of Minnesota, Twin Cities

POSTER 1-063**FIREFIGHTERS WITH GASTRIC ULCER REACT STRONGER TO THE ACUTE STRESS EXPOSURE**

Olga Dorogina, Yuri Pavlov & Dauren Kassanov
Urals Federal University

POSTER 1-064**THE INFLUENCE OF PHYSICAL ACTIVITY AND PHYSICAL FITNESS ON THE P300 COMPONENT: RESULTS OF A SYSTEMATIC LITERATURE REVIEW**

Kelsey Piersol, Daniel Berkowitz, Abigail Shieh, Branden Wright & Brandon Alderman
Rutgers, The State University of New Jersey

POSTER 1-065

**THE ASSOCIATION BETWEEN PATHOLOGICAL
SMARTPHONE USE AND FEEDBACK
PROCESSING**

Robert West, Ashley Dapore, Carl Ash &
Kaitlyn Malley
DePauw University

POSTER 1-066

**GROWTH-CURVE ANALYSIS OF STARTLE
MAGNITUDE AND MODERATING ROLE OF
TRAIT-FEAR, EMOTIONAL VALENCE, AND
AROUSAL**

Keenan Roberts, Keanan Joyner, James Yancey,
Emily Perkins & Christopher Patrick
Florida State University

POSTER 1-067

**NEURAL OSCILLATORY DYNAMICS SERVING
ABSTRACT REASONING IN TYPICALLY-
DEVELOPING CHILDREN AND ADOLESCENTS**

Brittany Taylor¹, Christine Embury^{1,2},
Elizabeth Heinrichs-Graham¹, Alex Wiesman¹,
Yu-Ping Wang³, Vince Calhoun^{4,5}, Julia Stephen⁴ &
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of Nebraska, Omaha, ³Tulane University, ⁴The Mind
Research Network, ⁵University of New Mexico

POSTER 1-068

**ADJUSTING ADJUST: OPTIMIZING THE ADJUST
ALGORITHM FOR CHILD DATA USING GEODESIC
NETS**

Stephanie Leach¹, Santiago Morales¹,
Maureen Bowers¹, George Buzzell¹,
Ranjan Debnath¹, Amy Elliott², William Fifer³ &
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POSTER 1-069**INVOLVEMENT OF THE MIRROR NEURON SYSTEM IN AUTOMATIC IMITATION IN CHILDHOOD**

Santiago Morales, Gabriela Suarez, George Buzzell, Ranjan Debnath, Elizabeth Redcay & Nathan Fox

University of Maryland

POSTER 1-070**CHILDHOOD MUSIC TRAINING, VERBAL ABILITY, AND THE COHERENCE OF AXONAL FIBERS IN WHITE MATTER PATHWAYS**

Lauren Raine¹, Laura Chaddock-Heyman², Arthur Kramer^{1,2}, Charles Hillman¹ & Psyche Loui¹

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POSTER 1-071**CHILDREN'S PHYSIOLOGICAL REACTIVITY TO FRUSTRATION PREDICTS SOCIAL SUCCESS WITH PEERS**

Cassidy Fry, Jonathan Park & Lisa Gatzke-Kopp
The Pennsylvania State University

POSTER 1-072**EVENING ROUTINES EFFECTS ON OVERNIGHT CARDIAC VAGAL ACTIVITY AND SUBJECTIVE SLEEP QUALITY: SLOW PACED BREATHING VS. SOCIAL MEDIA USE**

Sylvain Laborde^{1,2}, Thomas Hosang³, Emma Mosley⁴ & Fabrice Dosseville²

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POSTER 1-073**MAPPING CAUSAL RELATIONSHIP OF BRAIN CONNECTIVITY PATTERNS FOLLOWING RELAXATION TRAINING**

Yi-Yuan Tang, Bahar Javadi & Winson Yang
Texas Tech University

POSTER 1-074

THE EFFECT OF SUSTAINED ANXIETY ON PHASIC FEAR RESPONSES IN A NEW ORTHOGONAL CUE AND CONTEXT CONDITIONING PARADIGM

Yannik Stegmann¹, Philipp Reicherts¹, Paul Pauli¹
& Matthias Wieser²

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POSTER 1-076

ASSOCIATION OF CONDITIONED FEAR GENERALIZATION WITH ANXIETY METRICS IN AN EPIDEMIOLOGIC SAMPLE OF ADOLESCENTS AND YOUNG ADULTS

Scott Vrana¹, Christina Sheerin¹, Ashlee Moore¹,
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McGuire VA Medical Center, ³University of Minnesota

POSTER 1-077

SINGLE-TRIAL EEG REGRESSION SUPPORTS SALIENCE CODING IN THE FEEDBACK-RELATED NEGATIVITY

Eric Rawls & Connie Lamm
University of Arkansas

POSTER 1-078

ERROR-RELATED NEGATIVITY AND FEEDBACK-RELATED NEGATIVITY ON A REINFORCEMENT LEARNING TASK

Elizabeth Ridley, Marissa Jones, Ethan Ashworth &
Eric Sellers

East Tennessee State University

POSTER 1-079**FEAR INHIBITION AS A LEARNING MEASURE OF GENERALIZED UNSAFETY**

Alisa Huskey & Bruce Friedman
Virginia Tech

POSTER 1-080**DOES REWARD PREDICTION ERROR (RPE) MODULATE PHASE CONNECTIVITY DURING A DECLARATIVE LEARNING TASK?**

Kate Ergo, Esther De Loof & Tom Verguts
Ghent University

POSTER 1-081**ACTIVATION OF V4 AND VO1 AREAS DURING RETRIEVING OF COLOR AND SHAPE INFORMATION FROM VISUAL WORKING MEMORY**

Anton Rogachev¹, Stanislav Kozlovskiy¹,
Alexander Vartanov¹, Julia Marakshina² &
Andrey Kisel'nikov¹

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POSTER 1-082**HIGH RUMINATORS USE DIFFERENT NEURAL PROCESSES DURING A RECOGNITION MEMORY TASK**

Nicole Forner & Robert Ross
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POSTER 1-083**ALPHA ACTIVITY IS NOT REQUIRED FOR MAINTANENCE OF INFORMATION IN WORKING MEMORY**

Yuri Pavlov^{1,2}

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POSTER 1-084**EXPOSURE TO ALCOHOL CUES AFTER EXERTING SELF-CONTROL INCREASES RELATIVE LEFT FRONTAL CORTICAL ACTIVATION AMONG INDIVIDUALS LOWER IN ALCOHOL SENSITIVITY**

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POSTER 1-085

MOTIVATIONAL CONTROL, BUT NOT WITHDRAWAL MOTIVATION, IS LINKED WITH GREATER RIGHT FRONTAL CORTICAL ACTIVITY

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POSTER 1-086

DEVELOPMENT OF A STRESS PARADIGM FOR RETT SYNDROME

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POSTER 1-087

A NONINVASIVE MEASURE OF THE P300 IN RATS SELECTIVELY BRED FOR DISPARATE ALCOHOL PREFERENCE DURING AN AUDITORY ODDBALL TASK

Logan Brewer¹, Zade Holloway¹, Timothy Freels¹, Hunter Nolan¹, Frank Andrasik¹, Jeffrey Sable² & Helen Sable¹

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POSTER 1-088

CHANGE OF NEURAL ACTIVITY TOWARD AWARENESS OF MIND WANDERING: AN ERP STUDY

Kazushi Shinagawa, Yuichi Ito, Koki Tsuji, Yuto Tanaka, Mana Odaka, Midori Shibata, Yuri Terasawa & Satoshi Umeda

Keio University

POSTER 1-089

AFFECTIVE MODULATION OF SPINAL, SUPRASPINAL, AND PERCEPTUAL MARKERS OF PAIN

Felicitas Huber, Tyler Toledo, Garrett Newsom & Jamie Rhudy

University of Tulsa

POSTER 1-090**THE PSYCHOPHYSIOLOGICAL REACTIVITY OF HYPERACTIVATED AND DEACTIVATED CAREGIVING SYSTEMS IN PARTNERS OF PATIENTS WITH CHRONIC PAIN**

Leah Clement, Marie-France Lafontaine,
Michelle Lonergan, Stephanie Azzi,
Marie-Pierre Daigle & Stephanie Jolin
University of Ottawa

POSTER 1-091**A STRATEGY FOR INTERFACING TRAIT DIMENSIONS OF THE DSM-5 ALTERNATIVE MODEL FOR PSYCHOPATHOLOGY (AMPD) WITH NEUROBIOLOGY**

Colin Bowyer¹, Jens Foell¹, Noah Venables²,
Casey Strickland¹ & Christopher Patrick¹
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POSTER 1-092**DIFFERENT FORMS OF ANXIETY IN RELATION TO THREAT AND COGNITIVE CONTROL**

Julia McDonald, Van Dang & Edelyn Verona
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POSTER 1-093**STRESS MODERATES THE RELATIONSHIP BETWEEN REWARD PROCESSING AND PROSPECTIVE INCREASES IN DEPRESSION**

Kreshnik Burani¹, Julia Klawohn¹, Brady Nelson² &
Greg Hajcak¹
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POSTER 1-094**IMPAIRED LTP-LIKE VISUAL CORTICAL PLASTICITY IN SCHIZOPHRENIA: AN EEG TIME-FREQUENCY ANALYSIS**

Holly Hamilton^{1,2}, Brian Roach^{1,2}, Idil Cavus³,
Robert Reinhart⁴, Timothy Teyler⁵, Wesley Clapp⁶,
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POSTER 1-095

INVESTIGATION OF THE APPLICABILITY OF THE ATTENTIONAL CONTROL THEORY TO THE UNDERSTANDING OF ATTENTION BIASES TO THREAT IN SOCIALLY ANXIOUS CHILDREN: EVIDENCES FROM ELECTROPHYSIOLOGICAL DATA

Erika Wauthia^{1,2,6}, Fabien D'Hondt^{3,4,5},
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POSTER 1-096

DECREASED FEEDBACK P300 AND THE DEVELOPMENT OF ADHD SYMPTOMS IN ADOLESCENT FEMALES

Alexander Kallen, Julia Klawohn,
Alexandria Meyer & Greg Hajcak
Florida State University

POSTER 1-097

CONCORDANCE OF FRONTAL EEG ALPHA ASYMMETRY BETWEEN REFERENCE MONTAGES

Jasmine Benjamin & John Allen
University of Arizona

POSTER 1-098

AN EXAMINATION OF THE RELATIONSHIP BETWEEN OVERPROTECTIVE PARENTING AND THE ERROR-RELATED NEGATIVITY (ERN)

Danielle Becker & Alexandria Meyer
Florida State University

POSTER 1-099

USING TWINS TO TEST FOR CONSEQUENCES OF ALCOHOL USE ON NARROWBAND OSCILLATORY AND BROADBAND POWER-SCALING BRAIN DYNAMICS

Scott Burwell, Stephen Malone & William Iacono
University of Minnesota

POSTER 1-100**THE ASSOCIATION BETWEEN PARENTING AND THE ERROR-RELATED NEGATIVITY ACROSS CHILDHOOD AND ADOLESCENCE**

Lyndsey Chong, Greg Hajcak & Alexandria Meyer
Florida State University

POSTER 1-101**PSYCHOPATHY SUBDIMENSIONS AND AUTONOMIC REACTIVITY TO AVERSIVE PICTURE STIMULI: EVIDENCE FROM AN INCARCERATED SAMPLE**

Bridget Bertoldi¹, James Yancey¹,
Noah Venables² & Christopher Patrick¹
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POSTER 1-102**WORKING MEMORY PROCESSING OF EMOTIONAL STIMULI IN YOUNG INDIVIDUALS WITH HIGH GENETIC RISK OF SCHIZOPHRENIA**

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POSTER 1-103**DOES AEROBIC FITNESS PROTECT AGAINST IMPAIRED COGNITION IN FIRST-EPIISODE PSYCHOSIS? EVIDENCE FROM THE P3 AND LATERALIZED READINESS POTENTIAL**

Gregory Pappas¹, Andrew Ude¹, Kelsey Piersol¹, Anthony Bocchine¹, Christopher Brush², Steven Silverstein³, Molly Erickson³ & Brandon Alderman¹
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POSTER 1-104**DEPRESSOGENIC SELF-REFERENTIAL PROCESSING BIASES IN REMITTED DEPRESSED ADULTS**

Erik Benau^{1,2}, Vivian Carrillo³, Hannah Allchurch^{1,2}, David Klemballa³, Stewart Shankman³ & Randy Auerbach^{1,2}
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POSTER 1-106

VISUAL PERCEPTION OF SELF- AND OTHERS-DESTRUCTIVE BEHAVIOR IMAGES

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POSTER 1-107

ELECTROPHYSIOLOGICAL EFFECTS OF TRAFFIC-LIGHT COLORS AS PRIMING CODES ON THE MOTIVATIONAL SALIENCE OF SALTY AND SWEET ULTRA-PROCESSED FOOD PICTURES

Rafaela R. Campagnoli¹, Thayane C.C. Lemos¹, Laura Krutman¹, André A.M. Coutinho^{1,2}, Rafael Delgado^{3,4}, María Carmen Fernández-Santaella⁴, Neha Khandpur⁵, Mirtes G. Pereira¹, Leticia Oliveira¹, Eliane Volchan⁶ & Isabel A. David¹

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POSTER 1-108

EFFECTS OF STIMULATED BODY PART AND SIDE OF DEVIANT PRESENTATION ON SOMATOSENSORY ODDBALL-RESPONSES: AN EVENT-RELATED-POTENTIAL STUDY

Laura Lindenbaum¹, Johanna Kissler¹, Jan Anlauff² & Sebastian Zehe²

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POSTER 1-109

BRAIN ACTIVATION DURING VECTION ILLUSION PERCEPTION

Artem Kovalev, Anton Gasimov & Oxana Klimova
Lomonosov Moscow State University

POSTER 1-110

THE RELATIONSHIP BETWEEN MID ALPHA (8.8 – 10.7HZ) POWER (MV2) AND SINGLE ITEMS ON THE PSQI

Taylor Zurlinden¹, Erik Everhart¹, Eric Watson², Alexandra Nicoletta¹, Andrea Winters¹, Amy Gencarelli¹ & Mandes Corbett¹

¹East Carolina University, ²Mount Sinai

POSTER 1-111**EFFECTS OF VIEWING TWO KINDS OF PLEASANT AFFECTIVE PICTURES ON SLEEP PARAMETERS IN SUBSEQUENT NIGHTTIME SLEEP: A RELATIONSHIP OF LATENCY TO EACH SLEEP STAGE WITH MOOD CHANGES AFTER PICTURE VIEWING**

Toshihiko Sato
Nagano University

POSTER 1-112**WHITWASHED EMOTION: THE CNV IN BOTH BLACK AND WHITE PARTICIPANTS IS MORE SENSITIVE TO EXPRESSION IN BLACK THAN WHITE FACES, BUT IN OPPOSITE DIRECTIONS**

Chelsea Joyner, Kennedy Simmons, Selena Wood,
Kyle Bellu, Alexandra Wakefield & Jeffrey Sable
Christian Brothers University

POSTER 1-113**THE ASSOCIATIONS BETWEEN INCIDENTS OF HOMELESSNESS, EXECUTIVE FUNCTIONING, AND RESPIRATORY SINUS ARRHYTHMIA IN PRESCHOOL AGED CHILDREN**

Cedric Williams, Alyssa Palmer, Rebecca Distefano,
Ann Masten & Daniel Berry
University of Minnesota, Twin Cities

POSTER 1-114**LONGITUDINAL EXAMINATION OF ASSOCIATIONS BETWEEN HEART RATE VARIABILITY AND TEAM PERFORMANCE: THE IMPORTANCE OF TEAM ROLE**

David Chhan¹, Sean Fitzhugh¹, Katherine Gamble¹,
Jean Vettel¹, Ryan Robucci², Nilanjan Banerjee²,
Justin Brooks & Derek Spangle¹
¹CCDC Army Research Laboratory, ²University of
Maryland, Baltimore County

POSTER 1-115

THE N400 INDEXES ACQUISITION OF NOVEL EMOTION CONCEPTS VIA CONCEPTUAL COMBINATION

Katie Hoemann¹, Ludger Hartley¹, Akira Watanabe¹, Estefania Leon², Karen Quigley^{1,3} & Lisa Feldman Barrett^{1,4}

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⁴Massachusetts General Hospital, Martinos Center for Biomedical Imaging

POSTER 1-116

SWEDISH VS. SPEEDISH: MUSICAL ABILITY RELATES TO EARLY ERP EFFECTS DURING SECOND LANGUAGE LEARNING

Natasha Tokowicz & Regina Calloway
University of Pittsburgh

POSTER 1-117

ERP PATTERNS IN MINIMALLY CONSCIOUS STATE: HIERARCHICAL APPROACH

Nadezhda Pavlova^{1,2}, Yuri Pavlov^{1,2}, Melanie Boltzmann³, Simone Schmidt³, Jens Rollnik³ & Boris Kotchoubey¹

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³BDH-Clinic Hessisch Oldendorf

POSTER 1-118

THE NEURAL CIRCUITRY OF SWEATY PALMS: A NEUROIMAGING META-ANALYSIS

Sydney Toler, Derek Wenger
University of Tennessee

POSTER SESSION II**Thursday, September 26, 2019****Columbia A, Ballroom Level**

8:00 a.m.–9:00 a.m.	Posters Assembled
9:00 a.m.–6:10 p.m.	Posters Available for Viewing
6:10 p.m.–8:10 p.m.	Authors Present for Discussion and Questions
8:10 p.m.–8:40 p.m.	Dismantle Posters

POSTER 2-001**COMPLEMENTARY ELECTROENCEPHALOGRAPHIC MEASURES: WHAT ALPHA OSCILLATIONS AND 1/F SLOPE REVEAL ABOUT COGNITIVE AGING**

Grace Clements, Daniel Bowie, Kathy Low,
Gabriele Gratton & Monica Fabiani
University of Illinois, Urbana-Champaign

POSTER 2-002**AGE-RELATED AND INDIVIDUAL DIFFERENCES IN ENTROPY-BASED COMPLEXITY OF HEALTHY AGING BRAIN**

Chih-Mao Huang^{1,2}, Ya-Wen Fang¹, Guan-Yen Chen³, Ovid J.L. Tzeng^{1,4,5,6}, Hsu-Wen Huang⁴
& Shun-Chi Wu³

¹*Academia Sinica*, ²*National Chiao Tung University*,
³*National Tsing Hua University*, ⁴*City University of Hong Kong*,
⁵*National Taiwan Normal University*,
⁶*Taipei Medical University*

POSTER 2-003**AUDITORY P3 INDICES OF ATTENTION IN ADOLESCENTS WITH ACUTE SUICIDAL BEHAVIOUR: AN EVENT-RELATED POTENTIAL STUDY**

Paniz Tavakoli¹, Addo Borafo¹, Emily Jerome² & Kenneth Campbell³

¹*Children's Hospital of Eastern Ontario*, ²*Carleton University*, ³*University of Ottawa*

POSTER 2-004

INTERMODAL INTERACTIONS IN THE AUDITORY AND VISUAL CORTICES DURING CONCURRENT EMOTION AND ATTENTION TASKS

Kierstin Riels, Harold Rocha & Andreas Keil
University of Florida

POSTER 2-005

SPATIAL FREQUENCY ADAPTATION IN THE VISUAL SYSTEM: EFFECTS OF EXPERIENCE ON ATTENTION AND CONTRAST SENSITIVITY

Wendel Friedl, Harold Rocha & Andreas Keil
University of Florida

POSTER 2-006

ELECTROPHYSIOLOGICAL DIFFERENCES DURING AN ATTENTION TASK BETWEEN CHILDREN WITH TYPE-1 DIABETES AND HEALTHY CONTROLS

Geisa Gallardo-Moreno, Andrés González-Garrido, Vanessa Ruiz-Stovel, Fabiola Gómez-Velázquez, Nayeli Contreras-Piña, Miriam Jiménez-Maldonado & Teresita Villaseñor-Cabrera
Universidad de Guadalajara

POSTER 2-007

DISSECTING COGNITIVE OPERATIONS IN DIFFICULT VISUAL SEARCH USING STIMULUS- AND RESPONSE-LOCKED POSTERIOR CONTRALATERAL NEGATIVITY

Brandi Lee Drisdelle & Pierre Jolicoeur
Université de Montréal

POSTER 2-008

ERP AND TIME-FREQUENCY MARKERS OF STIMULUS SELECTION AND RESPONSE CONFLICT IN THE FLANKER TASK

Dariusz Asanowicz & Bartłomiej Panek
Jagiellonian University

POSTER 2-009**THE EFFECT OF ATTENTION ON AUDITORY N100 IN FIRST EPISODE PSYCHOSIS**

Xi Ren, Sarah Fribance, Brian Coffman & Dean Salisbury

Clinical Neurophysiology Research Laboratory, Western Psychiatric Hospital, Department of Psychiatry, University of Pittsburgh School of Medicine

POSTER 2-010**RE-EXAMINING ANTICIPATORY CARDIAC DECELERATION AS AN INDICATOR OF ATTENTION USING RESPONSE TIME MODELING AND A REAL-WORLD SHOOTING TASK**

Derek Spangler¹, Xiao Yang², Ryan Robucci³, Nilanjan Banerjee³, Scott Kerick¹, Justin Brooks¹ & J. Jennings²

¹U.S. Army Research Laboratory, ²University of Pittsburgh, ³University of Maryland, Baltimore County

POSTER 2-011**TRAIT INATTENTION MODERATES THE EFFECTS OF A BRIEF MINDFUL BREATHING EXERCISE ON ATTENTION**

Xiaoqian Yu & Geoffrey Potts
University of South Florida

POSTER 2-012**ALPHA BAND-WAVE ACTIVITY IN RELATION TO MOOD AND EXECUTIVE FUNCTION**

Destiny Willis, Eliya Husid, Kylie Jupp & Laura Jelsone-Swain
University of South Carolina, Aiken

POSTER 2-013**PSYCHOPHYSIOLOGICAL CORRELATES OF NEUROFEEDBACK TRAINING IN CHILDREN WITH AUTISM SPECTRUM DISORDER**

Estate Sokhadze^{1,2}, Manuel Casanova^{1,2}, Meghan Doyle² & Desmond Kelly²

¹University of South Carolina School of Medicine, Greenville, ²Prisma Health

POSTER 2-014

NEUROPHYSIOLOGICAL CORRELATES OF COGNITIVE CONTROL DURING A MODIFIED STROOP TASK IN ADOLESCENTS WITH ACUTE SUICIDAL BEHAVIOUR

Addo Boafu¹, Paniz Tavakoli¹ & Kenneth Campbell²
¹Children's Hospital of Eastern Ontario, ²University of Ottawa

POSTER 2-015

SIGNALING REWARDS INCREASES THE REWARD POSITIVITY

Carson Jordan, Julia Klawohn,
Kreshnik Burani, Molly Kegley & Greg Hajcak
Florida State University

POSTER 2-016

MODULATING THE REWARD POSITIVITY IN OPIOID USE DISORDER USING ROBOT-ASSISTED TMS

Kathryn Biernacki & Travis Baker
Rutgers University, Newark

POSTER 2-017

EFFECTIVE CONNECTIVITY BETWEEN BROCA'S AREA AND AMYGDALA AS A MECHANISM OF TOP-DOWN CONTROL IN WORRY

Anika Guha¹, Jeffrey Spielberg², Jessica Lake¹,
Tzvetan Popov³, Wendy Heller⁴, Cindy Yee¹ &
Gregory Miller^{1,4}

¹University of California, Los Angeles, ²University of Delaware, ³University of Konstanz, ⁴University of Illinois, Urbana-Champaign

POSTER 2-018

SPEECH AS AN INDICATOR OF COGNITIVE WORKLOAD DURING AN UPPER LIMB TASK

Christopher Gaskins^{1,2}, Rodolphe Gentili² &
Kimberly Kontson¹

¹Food and Drug Administration, ²University of Maryland

POSTER 2-019**FITNESS MODULATES BEHAVIORAL NOT PUPILLOMETRIC INDICES OF ARITHMETIC PROCESSING IN COLLEGE-AGED ADULTS**

Amanda McGowan, Madison Chandler & Matthew Pontifex
Michigan State University

POSTER 2-020**THE EFFECT OF INTRANASAL INSULIN ON NEUROELECTRIC AND BEHAVIORAL INDICES OF INHIBITION: A DOSE-RESPONSE EXAMINATION**

Kathryn Gwizdala, David Ferguson & Matthew Pontifex
Michigan State University

POSTER 2-021**BRAIN SIGNATURE OF SUBJECTIVE PERFORMANCE DURING NUMERICAL STROOP TASKS**

Hsu-Wen Huang¹, Mauro Nascimben², Dong-Yang Fong³, Ovid J.L. Tzeng^{1,4,5,6} & Chih-Mao Huang^{2,4}
¹City University of Hong Kong, ²National Chiao Tung University, ³National Taipei University of Technology, ⁴Academia Sinica, ⁵Taipei Medical University, ⁶National Taiwan Normal University

POSTER 2-022**MULTIVARIATE EEG ANALYSES REVEAL EVOLVING SPATIOTEMPORAL THETA NETWORKS DURING SELF-REGULATION**

Kyo Jin Kwon, Hause Lin & Michael Inzlicht
University of Toronto

POSTER 2-023**DISSOCIATING BETWEEN TMS-INDUCED NEURAL AND NOISE EFFECTS IN EVENT-RELATED POTENTIALS (ERPS)**

Mei-Heng Lin¹, Seema Parikh², Neeta Bauer¹, Carrisa Cocuzza¹ & Travis Baker¹
¹Rutgers University, ²New Jersey Institute of Technology

POSTER 2-024

**BASELINE HEART RATE VARIABILITY (HRV),
AFFECT, AND BEHAVIORAL FLEXIBILITY DURING
THE VIRTUAL MORRIS WATER TASK (VMWT)**

Breannan Howell & Derek Hamilton
University of New Mexico

POSTER 2-025

**ACTIVATION BUT NOT INHIBITION:
PSYCHOPHYSIOLOGICAL EVIDENCE IN SUPPORT
OF THE COMMON EXECUTIVE FACTOR OF
COGNITIVE CONTROL**

Julia Marakshina¹, Alexander Vartanov², Natalia
Buldakova², Andrey Kiselnikov²,
Stanislav Kozlovskiy² & Vadim Ushakov³
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Education*, ²*Lomonosov Moscow State University*,
³*NRC Kurchatov Institute*

POSTER 2-026

**NEURAL ACTIVATION UNDERLYING PROACTIVE
CONTROL IS ASSOCIATED WITH AGGRESSIVE
BEHAVIOR: AN ERP STUDY**

Morgan Middlebrooks, Carroll Bentley, Eric Rawls
& Connie Lamm
University of Arkansas

POSTER 2-027

**INTRINSIC FUNCTIONAL CONNECTIVITY
BETWEEN THE DORSAL ANTERIOR
CINGULATE AND MOTOR CORTEX LINKED TO
ELECTROCORTICAL MEASURES OF
ERROR-MONITORING**

Hayley Gilbertson, Jeremy Andrzejewski, Lin Fang
& Joshua Carlson
Northern Michigan University

POSTER 2-028

**MODULATION OF INHIBITORY CONTROL
ACROSS HIGH AND LOW ENERGY FOOD IN
HEALTHY ADULTS**

Diana Rodriguez Moreno, Angela Rocchi, Surim
Kang & Yael Cykowicz
*Columbia University-New York State Psychiatric
Institute*

POSTER 2-029**RSA REACTIVITY RELATES TO PERFORMANCE ON A GO/NO-GO BEHAVIOR INHIBITION TASK**

Emma Condy¹, Bruce Friedman² & Amir Gandjbakhche³

¹National Institute of Mental Health, ²Virginia Tech,

³Eunice Kennedy Shriver National Institute of Child Health and Human Development

POSTER 2-030**EXTENDING THE CAPACITY THEORY TO APPLY TO TYPE II DIABETES: EXAMINING CHANGES IN SYSTOLIC BLOOD PRESSURE AND VERBAL FLUENCY TASK PERFORMANCE IN OVERWEIGHT DIABETIC AND NON-DIABETIC INDIVIDUALS**

Alissa Holland, Jessica Reynolds & Sara Newton
University of South Carolina

POSTER 2-031**EXAMINING PARENTS' EMPATHIC REWARD PROCESSING AND ITS RELATIONSHIP TO CHILD PSYCHOPATHOLOGY IN A RCT OF A PARENTING INTERVENTION**

Amanda Levinson¹, Aline Szency¹, Greg Hajcak²,
Brady Nelson¹ & Kristin Bernard¹

¹Stony Brook University, ²Florida State University

POSTER 2-032**BELIEF UPDATING IN DECISION MAKING: EEG, ECG AND EYETRACKING CORRELATES**

Roberto Guedes de Nonohay¹, Gustavo Gauer²,
Richard Gonzalez³ & Guilherme Lannig²

¹Faculdade Meridional, ²Universidade Federal do Rio Grande do Sul, ³University of Michigan, Ann Arbor

POSTER 2-033**NEURAL OSCILLATORY DYNAMICS OF SELF-REGULATION STRATEGIES IN DIETARY DECISION MAKING**

Azadeh HajiHosseini & Cendri Hutcherson
University of Toronto

POSTER 2-034

REWP OR NOT REWP? STIMULUS MODALITY ALTERS THE MORPHOLOGY OF THE REWARD POSITIVITY

Trevor Jackson, Darin Brown & James Cavanagh
University of New Mexico

POSTER 2-035

AFFECTIVE PROCESSING AND SELF/OTHER IN FUTURE THINKING: AN HEP STUDY

Yuichi Ito^{1,2}, Yuto Tanaka¹, Koki Tsuji^{1,2},
Kazushi Shinagawa¹, Midori Shibata¹,
Yuri Terasawa¹ & Satoshi Umeda¹

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POSTER 2-036

AMYGDALA AND HIPPOCAMPAL ACTIVATION TO CONDITIONED STIMULI DURING EXTINCTION FOLLOWING THREAT AVOIDANCE

Elizabeth Parisi¹, Carissa Weis¹, Ashley Huggins¹,
Kenneth Bennett¹, Greg Hajcak² & Christine
Larson¹

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POSTER 2-037

CHRONIC NON-MEDICAL PRESCRIPTION OPIOID USE AND EMPATHY FOR PAIN: DOES PAIN MAKE THE DIFFERENCE?

Sara Kroll^{1,2}, Julian Thayer³, DeWayne Williams³,
Markus Baumgartner¹, Daniela Pfabigan⁴,
Claus Lamm⁵ & Boris Quednow¹

¹*University of Zurich*, ²*Linköping University*, ³*Ohio State University*, ⁴*University of Oslo*, ⁵*University of Vienna*

POSTER 2-038

ANXIETY AND INITIAL VALUE DEPENDENCY IN STARTLE HABITUATION

J. Alex Faunce, Terry Blumenthal & Christian
Waugh

Wake Forest University

POSTER 2-039**SEX MATTERS?! AN EXPLORATION OF
SEX-SPECIFIC EFFECTS OF TRANSCRANIAL
ULTRASOUND ON SELF-REPORTED MOOD**

Philipp Ziebell¹, Johannes Rodrigues¹, John Allen²
& Johannes Hewig¹

¹University of Würzburg, ²University of Arizona

POSTER 2-040**INTERNAL RELIABILITY OF RT, P100 AMPLITUDE,
AND P300 AMPLITUDE WITHIN A DOT-PROBE
TASK**

Sarah Sass, Christopher Reed, Hajar Ismail,
Katherine Carver, David Engel & Bridget Kennedy
The University of Texas, Tyler

POSTER 2-041**ROMANTIC LOVE AND ATTENTION: EARLY AND
LATE EVENT-RELATED POTENTIALS**

Sandra Langeslag¹ & Jan Van Strien²

¹University of Missouri, St. Louis, ²Erasmus University
Rotterdam

POSTER 2-042**EVENT RELATED POTENTIALS OF EMOTIONALLY
VALENCED STIMULI DURING A WORKING
MEMORY TASK**

Lauren Dacorro^{1,2}, Ken Rauen¹, Alan Leggitt²,
Alexander Simon², Mark Geisler¹, Peter Wais² &
Adam Gazzaley²

¹San Francisco State University, ²University of
California, San Francisco

POSTER 2-044**SPONTANEOUS EMOTION REGULATION IN
CHILDREN: ASSOCIATIONS WITH SUBJECTIVE
AND PHYSIOLOGICAL RESPONSES**

Maria Panteli, Georgia Panayiotou,
Andry Vrachimi-Souroulla, Thekla Constantinou &
Androula Kepola
University of Cyprus

POSTER 2-045

ESTIMATING STATISTICAL POWER FOR EVENT-RELATED POTENTIAL STUDIES USING THE LATE POSITIVE POTENTIAL

Kyla Gibney^{1,2}, George Kypriotakis¹, Paul Cinciripini¹, Jason Robinson¹, Jennifer Minnix¹ & Francesco Versace^{1,2}

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POSTER 2-046

ENHANCED CORTICO-CARDIAC COUPLING UNDER THREAT OF ELECTRIC SHOCK

Sarah-Louise Unterschemmann, Christian Panitz & Erik Mueller

University of Marburg

POSTER 2-047

ACETAMINOPHEN DOES NOT REDUCE PSYCHOPHYSIOLOGICAL RESPONSES TO CONFLICT, ERROR PROCESSING, AND NEGATIVE FEEDBACK

Katie Garrison, Anna Finley, Cassandra Baldwin & Brandon Schmeichel

Texas A&M University

POSTER 2-048

AMBIGUOUS THREAT AND STRESS-RELATED HEART RATE VARIABILITY IN SOCIAL ANXIETY

Laura Egan

St. Francis College

POSTER 2-049

A COMPARISON OF EYEBLINK AND PUPILLARY RESPONSES TO ACOUSTIC STARTLE REFLEX ELICITATION DURING VIEWING OF EMOTIONAL PICTURES: EVIDENCE FOR CONVERGENT AND DIVERGENT PROCESSES

Johannes Finke, Sebastian Hahn & Hartmut Schächinger

University of Trier

POSTER 2-050**THE EMOTIONAL OBJECTS DATABASE: REGIONS OF INTEREST IN 1000 EMOTIONAL IMAGES**

Joanna Pilarczyk, Michał Kuniecki, Krzysztof Waniak & Radosław Sterna

Jagiellonian University, Institute of Psychology

POSTER 2-052**THE INFLUENCE OF EMOTIONAL CARDIAC DEFENSE RESPONSE IN COGNITIVE REAPPRAISAL: STARTLE REFLEX AND SKIN CONDUCTANCE IN ACCELERATORS AND DECELERATORS**

Nieves Fuentes-Sánchez, Miguel A Escrig, Carolina Cuadrado & M. Carmen Pastor

Universitat Jaume I

POSTER 2-053**DOES INCIDENTAL COGNITIVE PROCESSING INFLUENCE SUBSEQUENT EMOTIONAL RESPONDING AND THE LPP?**

Anna Finley, Cassandra Baldwin, Katie Garrsion & Brandon Schmeichel

Texas A&M University

POSTER 2-054**TIME COURSE OF AUTONOMIC CORRELATES DURING VOLUNTARY REGULATION OF POSITIVE EMOTIONS: THE HEART AND SKIN WHEN FACING EROTICA AND ADVENTURE SCENES**

Miguel A. Escrig, Carolina Cuadrado,

Nieves Fuentes-Sánchez & M. Carmen Pastor

Universitat Jaume I

POSTER 2-056**EMOTIONAL ANTICIPATION IN CHILDREN AND ADOLESCENTS: AFFECTIVE AND ATTENTIONAL PROCESSING**

Christopher Sege¹, Abigail Findley¹, Greg Hajcak², Lisa McTeague¹ & Carla Danielson¹

¹Medical University of South Carolina, ²Florida State University

POSTER 2-057

INTER-TRIAL ALPHA POWER: A CORRELATE OF MIND WANDERING

Stefan Arnau¹, Dirk Hagemann², Jan Rummel², Christoph Löffler², Edmund Wascher¹ & Anna-Lena Schubert²

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POSTER 2-058

UNDERSTANDING THE UNIQUE CONTRIBUTIONS OF STATE- AND TRAIT-BASED VARIANCE IN ERP MEASUREMENTS

Brittany Taylor¹, William Gavin², Mei-Heng Lin³ & Patricia Davies²

¹University of Nebraska Medical Center, ²Colorado State University, ³Rutgers University

POSTER 2-059

STABILITY AND INTERNAL CONSISTENCY OF ERPS ACROSS FOUR ASSESSMENTS I: THE REWARD POSITIVITY

Jessica Day, Magen Lowe, Elizabeth Mulligan & Greg Hajcak

Florida State University

POSTER 2-060

TRAUMA SEVERITY: BRAIN FUNCTIONAL AND STRUCTURAL CORRELATES IN PATIENTS WITH ANXIETY AND MOOD DISORDER

Nicola Sambuco, Margaret Bradley, Vanessa Dominguez & Peter Lang

Center for the Study of Emotion and Attention, University of Florida

POSTER 2-061

FEAR OF NEGATIVE EVALUATION LINKS SOCIAL EXCLUSION AND SOCIAL ANXIETY: EVIDENCE FROM SUBJECTIVE AND NEUROPHYSIOLOGICAL RESPONSE

Minghui Ni^{1,2}, Jia Wu¹ & Michael Crowley¹

¹Yale University, ²University College London

POSTER 2-062**FEEDBACK-RELATED NEGATIVITY MODERATES THE RELATIONSHIP BETWEEN NEGATIVE URGENCY AND HAZARDOUS ALCOHOL USE**

Noah Wolkowicz, Eric Rawls, Lindsay Ham & Connie Lamm
University of Arkansas

POSTER 2-063**THE INTERPLAY BETWEEN DISINHIBITION AND REWARD SENSITIVITY IN RELATION TO EXTERNALIZING BEHAVIORS**

Madison Raybuck¹, Keanan Joyner¹, Noah Venables² & Christopher Patrick¹
¹*Florida State University*, ²*University of Minnesota*

POSTER 2-064**DISPOSITIONAL THREAT SENSITIVITY & AVERSIVE STARTLE POTENTIATION MODERATE EFFECTS OF PHASIC THREAT CUEING IN A TASK SWITCHING PARADIGM**

James Yancey, Kara Hultstrand, Colin Bowyer, Jens Foell, Walter Boot & Christopher Patrick
Florida State University

POSTER 2-065**THE IMPACT OF PUNISHMENT ON THE ERROR-RELATED NEGATIVITY IN CHILDREN**

Isaac Mirzadegan, Alexandria Meyer
Florida State University

POSTER 2-066**EVALUATING THE RELATIONSHIP BETWEEN DEHYDROEPIANDROSTERONE (DHEA), WORRY, AND ERROR-RELATED BRAIN ACTIVITY**

Julia Gorday, Alexandria Meyer
Florida State University

POSTER 2-067**RISK STATUS INTERACTS WITH ANXIETY SYMPTOMS IN PREDICTING CORTICAL THICKNESS IN MIDDLE CHILDHOOD: A CROSS-SECTIONAL STUDY OF CPS-INVOLVED CHILDREN AND LOW RISK COMPARISONS**

Marta Korom¹, Emilio Valadez¹, Alexandra Tabachnick¹, Katie McLaughlin² & Mary Dozier¹
¹*University of Delaware*, ²*Harvard University*

POSTER 2-068

COHORT STUDY OF GAZE FOLLOWING FROM 5 TO 14 MONTHS IN PRETERM AND FULL-TERM INFANTS

Alexander Kotyusov & Ksenia Kunnikova
Ural Federal University

POSTER 2-069

LONGITUDINAL ASSOCIATIONS BETWEEN INTERNALIZING SYMPTOMS AND THE ERN IN MIDDLE CHILDHOOD

Alexandra Tabachnick, Emilio Valadez,
Erin Palmwood, Lindsay Zajac, Robert Simons &
Mary Dozier
University of Delaware

POSTER 2-070

RISK-TAKING AND NEURAL RESPONSE TO REWARD ACROSS ADOLESCENCE

Clara Freeman, Melanie Dirks & Anna Weinberg
McGill University

POSTER 2-071

EFFECTS OF UNILATERAL DYNAMIC HANDGRIP ON RESTING CORTICAL ACTIVITY

Arash Mirifar, Fernando Cross-Villasana, Jürgen Beckmann & Felix Ehrlenspiel
Technische Universität München

POSTER 2-072

ULTRASOUND STIMULATION ON THE SKIN STIMULATES EEG THETA ACTIVITY IN SPEECH-RELATED BRAIN AREAS

Diana Henz
University of Mainz

POSTER 2-073

MODULATION OF THREAT LEARNING AND EXTINCTION BY EMERGENCY CONTRACEPTION: AN ERP AND SCR INVESTIGATION

Elizabeth Bauer, Nancy Downing, Mary Meagher & Annmarie MacNamara
Texas A&M University

POSTER 2-074**INSTRUCTIONAL MANIPULATIONS INFLUENCE
BACKWARD EVALUATIVE CONDITIONING ON
EXPLICIT VALENCE RATINGS, BUT NOT STARTLE
MODULATION**

Luke Green, Camilla Luck & Ottmar Lipp
Curtin University

POSTER 2-075**WORKING MEMORY LOAD, THREAT EXTINCTION
AND TRAIT ANXIETY**

T. Bryan Jackson & Annmarie MacNamara
Texas A&M University

POSTER 2-076**COMPLEX PTSD SYMPTOM EFFECTS AND
CARDIAC RESPONSE TO STARTLE STIMULI
DURING FEAR CONDITIONING**

Janey Dike, J. Alex Faunce, Michael W. Lewis,
Bruce H. Friedman & Russell T. Jones
Virginia Polytechnic Institute and State University

POSTER 2-079**THE EFFECTS OF THETA TRANSCRANIAL
ALTERNATING CURRENT STIMULATION ON
VERBAL WORKING MEMORY**

Yuri Pavlov^{1,2}, Olga Dorogina² & Dauren Kassanov²
¹*University of Tübingen*, ²*Ural Federal University*

POSTER 2-080**FILTERING OF SAD AND FEARFUL FACES FROM
WORKING MEMORY IN DYSPHORIC AND
CONTROL PARTICIPANTS**

Chaoxiong Ye¹, Xueqiao Li¹, Elisa Ruohonen¹,
Qianru Xu¹, Jarmo Hämäläinen¹, Qiang Liu² & Piia
Astikainen¹
¹*University of Jyväskylä*, ²*Liaoning Normal University*

POSTER 2-082

OPPORTUNITIES TO SIT AND STAND ELICIT EQUIVALENT REWARD-RELATED BRAIN ACTIVITY

Matthew Miller¹, Boris Cheval², Matthieu Boisgontier³, Mariane Bacelar¹, Robyn Feiss¹ & Victoria Zona¹

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POSTER 2-083

RIGHT ALPHA ACTIVATION MODERATES THE STABILITY OF PUNISHMENT SENSITIVITY OVER TIME

Taylor Heffer & Teena Willoughby
Brock University

POSTER 2-084

GENDER, SEXUAL ORIENTATION, AND MODERN PREJUDICE PREDICT MFN AND LPP RESPONSES TO SEXUAL IMAGERY

Elizabeth Kiebel¹, Colleen O’Leary, Geoffrey Potts¹ & Jennifer Bosson¹

¹University of South Florida

POSTER 2-085

STABILITY OF FRONTAL EEG ALPHA ASYMMETRY IN A HOSTILE MRI ENVIRONMENT

James Lacey¹, David Schnyer, Jay Sanguinetti¹ & John Allen¹

¹University of Arizona, Psychophysiology Laboratory

POSTER 2-086

SURVIVORS OF SEXUAL TRAUMA: DO THEIR VOICES TELL THE STORY?

Noga Miron¹, Elisa Monti¹, Linda Carrol², Anne Maass³, Katherine Norton¹, Olivia Resto¹, Kayla Toscano¹, John Williams⁴ & Wendy D’Andrea¹

¹The New School for Social Research, ²Children’s Hospital of Philadelphia, ³University of Padova, ⁴Teachers College, Columbia University

POSTER 2-087**FOCAL TRANSCRANIAL ELECTRICAL STIMULATION ON A REALISTIC HEAD MODEL VIA TEMPORAL INTERFERENCE**

Kyle Curham & John Allen
University of Arizona

POSTER 2-088**DO PERSONALITY FACTORS PREDICT MODULATION OF THE NOCICEPTIVE FLEXION REFLEX AFTER BIOFEEDBACK TRAINING?**

Mara Demuth, Natalie Hellman,
Cassandra Sturycz, Tyler Toledo & Jamie Rhudy
University of Tulsa

POSTER 2-089**PERSONALITY TRAITS AND ERROR-RELATED BRAIN ACTIVITY IN ADOLESCENT GIRLS**

Alexander Grieshaber, Brady Nelson¹,
Greg Perlmann¹ & Roman Kotov¹
¹*Stony Brook University*

POSTER 2-090**PERFECTIONISM AND ERROR-RELATED BRAIN ACTIVITY**

Emily Stanley, Colleen Hope, Madeline Beasley,
Pary Aflaki, Lindsey Danby & Peyton Crickman
University of Mary Washington

POSTER 2-091**SUPPRESS OR ACCEPT? THE EFFECT OF COPING STRATEGIES ON ERN AMPLITUDE AMONG INDIVIDUALS WITH OBSESSIVE-COMPULSIVE TRAITS**

Laura Zambrano-Vazquez^{1,2,3,4}, Yvette Szabo^{1,3,4},
Craig Santerre⁵ & John Allen²
¹*VHA VISN 17 Center of Excellence for Research on Returning War Veterans*, ²*University of Arizona*,
³*Baylor University*, ⁴*Texas A&M College of Medicine*,
⁵*Veterans Affairs Puget Sound Health Care System, Seattle Division*

POSTER 2-092

NEUROSTRUCTURAL HETEROGENEITY IN YOUTH WITH INTERNALIZING SYMPTOMS

Antonia Kaczurkin¹, Aristeidis Sotiras^{1,2}, Erica Baller¹, Monica Calkins¹, Ganesh Chand¹, Zaixu Cui¹, Guray Erus¹, Yong Fan¹, Raquel Gur¹, Ruben Gur^{1,3}, Tyler Moore¹, David Roalf¹, Adon Rosen¹, Kosha Ruparel¹, Russell Shinohara¹, Erdem Varol¹, Daniel Wolf¹, Christos Davatzikos¹ & Theodore Satterthwaite¹

¹University of Pennsylvania, ²Washington University,

³Philadelphia Veterans Administration Medical Center

POSTER 2-093

COLD OFF THE PRESS: NEURAL RESPONSE TO REWARDS IS BLUNTED DURING AN ACUTE STRESSOR

Austin Gallyer, Kreshnik Burani, Jonathan Ryan, Carson Jordan, Thomas Joiner & Greg Hajcak
Florida State University

POSTER 2-094

DEPRESSIVE SYMPTOMS AND PHYSIOLOGICAL RESPONSE TO SOCIAL FEEDBACK

Samantha Birk, Rebekah Mennies & Thomas Olino
Temple University

POSTER 2-095

RESPONSE MONITORING ERPS IN CLINICAL DEPRESSION: THE IMPORTANCE OF THE STIMULUS-LOCKED P300

Nicholas Santopetro, Julia Klawohn & Greg Hajcak
Florida State University

POSTER 2-096

IMPAIRED RESPONSE INHIBITION IN PATIENTS WITH INTERNET GAMING DISORDER

Minkyung Park, Jiyeon Lee, A. Ruem Choi, Sun Ju Chung, Bomi Kim & Jung-Seok Choi
SMG-SNU Boramae Medical Center

POSTER 2-097**AEROBIC FITNESS DOES NOT MODERATE THE REWARD POSITIVITY ACROSS MAJOR DEPRESSIVE DISORDER AND FIRST-EPIISODE PSYCHOSIS**

Anthony Bocchine¹, Christopher Brush² & Brandon Alderman¹

¹Rutgers, The State University of New Jersey, ²Florida State University

POSTER 2-098**THETA AND DELTA POWER IN RELATION TO ERROR MONITORING: EVIDENCE FROM GENERALIZED ANXIETY DISORDER, MAJOR DEPRESSIVE DISORDER, AND COMORBID DISORDERS**

Alexandra Muir¹, Ann Clawson², Ariana Hedges-Muncy¹, Kaylie Carbine¹ & Michael Larson¹

¹Brigham Young University, ²Children's National Medical Center

POSTER 2-099**SEMANTIC PROCESSING DEFICITS IN SCHIZOPHRENIA: LINKS WITH SYMPTOM SEVERITY AND NEUROPSYCHOLOGICAL PERFORMANCE**

Keisha Novak¹, Dan Foti¹ & Roman Kotov²

¹Purdue University, ²Stony Brook University

POSTER 2-101**AUDITORY PARABELT GRAY MATTER DEFICITS ARE RELATED TO IMPAIRED SELECTIVE ATTENTION IN FIRST-EPIISODE PSYCHOSIS**

Mark Curtis, Xi Ren, Sarah Fribance, Brian Coffman & Dean Salisbury

Clinical Neurophysiology Research Laboratory, Western Psychiatric Hospital, University of Pittsburgh

POSTER 2-102**STRESS EFFECTS ON WORKING MEMORY IN SCHIZOPHRENIA**

Caroline Diehl¹, Jessica Lake¹, Alexandra Reed¹, Tyrone Cannon², Michael Green¹, Kenneth Subotnik¹, Joseph Ventura¹, Gregory Miller¹, Keith Nuechterlein¹ & Cindy Yee¹

¹University of California, ²Yale University

POSTER 2-103

**BETTER WITH AGE: AGE PREDICTS
PARASYMPATHETIC NERVOUS SYSTEM
PATTERNS REGARDING MOOD INDUCTION AND
REPAIR**

Pranav Bolla Bolla, Isabel Schweitzer¹, Jade Hawk¹
& Ilya Yaroslavsky¹
¹*Cleveland State University*

POSTER 2-104

**WHAT ELECTRODE SITES MAXIMIZE
STATISTICAL POWER FOR THE ERN, LRP, MMN,
N2PC, N170, N400, AND P300?**

Wendy Zhang & Emily Kappenman
*San Diego State University/University of California,
San Diego Joint Doctoral Program in Clinical
Psychology*

POSTER 2-105

**BINAURAL INTERACTION IN HUMAN AUDITORY
BRAINSTEM RESPONSE DETERMINED WITH
TASK MODALITY, LATERAL STIMULATION
VARIABILITY, AND SOUND FREQUENCY**

Kazunari Ikeda
Tokyo Gakugei University

POSTER 2-106

**EVENT-RELATED POTENTIALS TO SPEECH
SOUND CHANGES DURING NOCTURNAL SLEEP**

Piia Astikainen, Kaisa Pentikäinen, Jari Kurkela &
Jarmo Hämäläinen
University of Jyväskylä

POSTER 2-107

**ELECTROPHYSIOLOGICAL CORRELATES OF
SEMANTIC ASPECTS OF CORTICAL OBJECT
REPRESENTATIONS: A STEADY STATE VISUALLY
EVOKED POTENTIALS STUDY**

Elise Radtke¹, Ulla Martens², Benjamin Schöne¹ &
Thomas Gruber¹
¹*Osnabrück University*, ²*Norddeutsches
Epilepsiezentrum für Kinder und Jugendliche*

POSTER 2-109**CHARACTERISTICS OF BRAIN WAVES AND HEART RATE VARIABILITY WHEN HAVING SLEEP DIFFICULTIES: USING THE FIRST NIGHT EFFECT IN SLEEP EXPERIMENTS**

Toshiro Mizuta, Ibuki Takahashi, Fumihito Morimoto & Yasuko Omori
Jin-ai University

POSTER 2-110**RELATIONSHIP BETWEEN ALPHA (8-12 HZ) POWER (MV²) AND COMPONENT SCORES ON THE PSQI**

Taylor Zurlinden¹, Erik Everhart¹, Eric Watson², Alexandra Nicoletta¹, Andrea Winters¹, Amy Gencarelli¹ & Mandes Corbett¹
¹East Carolina University, ²Mount Sinai

POSTER 2-111**SOCIAL BONDING WITH AN ARTIFICIALLY INTELLIGENT SOCIAL ROBOT INFLUENCES OUTCOME VALUATION AS INDEXED BY A NEURAL MEASURE OF REWARD**

Abdulaziz Abubshait¹, Paul Beatty¹, Craig McDonald¹, Cameron Hassall², Olav Krigolson² & Eva Wiese¹
¹George Mason University, ²University of Victoria

POSTER 2-112**OUTCOME EVALUATION ON THREE-PERSON TIME-ESTIMATION TASK WITH SIMULTANEOUS EEG RECORDING**

Chikara Ishii & Jun'ichi Katayama
Kwansei Gakuin University

POSTER 2-113**NEURAL SENSITIVITY TO PEER PRESENCE AMONG CHILDREN AND ADOLESCENTS WHO DIFFER ON WHETHER THEY HAVE AN AFFINITY FOR SOLITUDE: AN ERP STUDY**

Teena Willoughby¹, Taylor Heffer¹ & Stefon van Noordt²
¹Brock University, ²McGill University

POSTER 2-114

LEFT-EYEDNESS AS A POSSIBLE CORRELATE OF READING DISORDER: BRAIN MECHANISMS OF LANGUAGE PROCESSING

Julia Marakshina¹, Alexander Vartanov², Natalia Buldakova², Andrey Kiselnikov², Stanislav Kozlovskiy² & Vadim Ushakov³

¹*Psychological Institute of Russian Academy of Education*, ²*Lomonosov Moscow State University*, ³*NRC Kurchatov Institute*

POSTER 2-115

HOW MOOD AFFECTS PROCESSING OF EMOTIONAL ADJECTIVES IN L1 AND L2 AN ERP STUDY

Johanna Kissler¹ & Katarzyna Bromberek-Dyzman²
¹*Bielefeld University*, ²*Adam Mickiewicz University*

POSTER 2-116

EFFECTS OF CONSCIOUSNESS AND TASK RELEVANCE IN FACE PROCESSING AS REVEALED BY ERPS AND FMRI

Torge Dellert^{1,2}, Miriam Müller-Bardorff¹, Michael Pitts³, Maximilian Bruchmann^{1,2} & Thomas Straube^{1,2}

¹*University of Muenster*, ²*Otto Creutzfeldt Center for Cognitive and Behavioral Neuroscience*, ³*Reed College*

POSTER SESSION III

Friday, September 27, 2019
Columbia A, Ballroom Level

8:00 a.m.–9:00 a.m.	Posters Assembled
9:00 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.–8:30 p.m.	Dismantle Posters

POSTER 3-001

**EVENT-RELATED POTENTIALS TO SOUND
 INTENSITY CHANGES AS MARKERS OF OLD AGE
 DEPRESSION**

Elisa Ruohonen, Saara Kattainen, Xueqiao Li,
 Anna-Elisa Taskila, Chaoxiong Ye & Piia Astikainen
University of Jyväskylä

POSTER 3-002

**ERP CORRELATES OF REDUCED SPATIAL
 WORKING MEMORY ENCODING CAPACITY IN
 HIGH-FUNCTIONING OLDER ADULTS**

Makenna McGill, Rachel Scrivano & Paul Kieffaber
College of William & Mary

POSTER 3-003

**CONSONANCE CAPTURES ATTENTION
 MORE STRONGLY THAN DISSONANCE WHEN
 ATTENTIONAL RESOURCE IS INSUFFICIENT: ERP
 AND THREE-TONE ODDBALL PARADIGM STUDY**

Motoyuki Sanada^{1,2}, Takayuki Kuwamoto¹ &
 Jun'ichi Katayama^{1,2}
¹*Kwansei Gakuin University*, ²*Center for Applied
 Psychological Science (CAPS)*

POSTER 3-004

**USING MATHEMATICAL MODELS
 FOR QUANTIFYING EVENT-RELATED
 ELECTROPHYSIOLOGICAL RESPONSES**

Anna-Lena Tebbe^{1,2}, Nathaly Czernin¹ & Andreas
 Keil¹
¹*University of Florida*, ²*Max Planck Institute for
 Human Cognitive and Brain Sciences*

POSTER 3-005

**PROACTIVE VERSUS REACTIVE DISTRACTION
FILTERING UNDER THREATENING CONDITIONS:
EVIDENCE FROM A COMBINED EEG AND
EYE-TRACKING STUDY**

Salahadin Lotfi, Madeline Rech, Richard Ward,
Maryam Ayazi, Christine Larson & Han-Joo Lee
University of Wisconsin, Milwaukee

POSTER 3-006

**RETROACTIVE ATTENTIONAL ORIENTING
AND CONCURRENT MOTOR SELECTION: HOW
COMPLEX STIMULUS-RESPONSE MAPPINGS
PROMOTE WORKING MEMORY GUIDED
ACTIONS**

Daniel Schneider, Marlene Rösner, Laura-Isabelle
Klatt & Edmund Wascher
*Leibniz Research Centre for Working Environment
and Human Factors*

POSTER 3-007

**MODULATION OF NEUROELECTRIC MARKERS
DEPENDENT ON TIME SPENT IN NATURAL
ENVIRONMENTS**

Rachel Hopman^{1,2}, Sara LoTempio¹, Emily Scott¹ &
David Strayer¹
¹University of Utah, ²Northeastern University

POSTER 3-008

**RETINOTOPIC MAPPING OF ATTENTION FIELD IN
THE HUMAN BRAIN**

Martine Desjardins¹, Jean-Marc Lina²,
Jean-Francois Gagnon¹ & Pierre Jolicoeur³
*¹Université du Québec à Montréal, ²École de
Technologie Supérieure, ³Université de Montréal*

POSTER 3-009

**THE EFFECTS OF EXPERTISE ON THE
RELATIONSHIP BETWEEN MENTAL WORKLOAD
AND ATTENTIONAL RESERVE**

Kyle Jaquess^{1,2}, Li-Chuan Lo^{2,3}, Hyuk Oh², Clayton
Domingues⁴, Jing Zhang² & Bradley Hatfield²
*¹War Related Illness and Injury Study Center,
²University of Maryland, ³University of Maryland
School of Medicine, ⁴Universidade Federal
Fluminense*

POSTER 3-010**NOVELTY P3 AMPLITUDE DIFFERENTIATION FOR FOOD AND NON-FOOD STIMULI**

Yael Cycowicz, Ida Jamshidy, Weiru Xu &
Diana Rodriguez Moreno
*Columbia University/New York State Psychiatric
Institute*

POSTER 3-011**USING ECOLOGICAL MOMENTARY ASSESSMENT AND WEARABLE PSYCHOPHYSIOLOGICAL MEASUREMENT TO EXAMINE THE EFFICACY OF COGNITIVE BEHAVIORAL THERAPY FOR PANIC DISORDER**

Amanda Baker^{1,2}, Mackenzie Brown², Olivia Losiewicz², Nicole LeBlanc^{1,2}, Shelley Kind^{2,3}, Donald Robinaugh^{1,2}, Samantha Hellberg⁴, Naomi Simon⁵ & Luana Marques^{1,2}
¹Harvard Medical School, ²Massachusetts General Hospital, ³Suffolk University, ⁴University of North Carolina, Chapel Hill, ⁵New York University School of Medicine

POSTER 3-012**EFFECTS OF INCREASED HEART RATE VARIABILITY ON BAROREFLEX SENSITIVITY AND CONTINGENT NEGATIVE VARIATION**

Masahito Sakakibara
Aichi Gakuin University

POSTER 3-013**COMPARING THE SALIENCE OF MONETARY VERSUS CANDY REWARDS: A REWARD POSITIVITY (REWP) STUDY**

Kaylie Carbine, Mika Honda, Jason Hoskin, James LeCheminant & Michael Larson
Brigham Young University

POSTER 3-014**EVENT-RELATED POTENTIAL INDICES OF TARGET DISCRIMINATION AND DISTRACTION DURING COGNITIVE CONTROL**

Thomas Covey, Xuedi Wang, Matthew Evans, Janet Shucard & David Shucard
University at Buffalo

POSTER 3-015

NEITHER WRONG NOR RIGHT: ENHANCED PERFORMANCE MONITORING UNDER CONDITIONS OF UNCERTAINTY

Aislinn Sandre, Anna Weinberg
McGill University

POSTER 3-016

MULTILEVEL PROCESSES OF ERROR MONITORING IN DUAL-TASKING

Robert Steinhauser, Stefanie Ochsenkühn & Marco Steinhauser
Catholic University of Eichstätt-Ingolstadt

POSTER 3-017

VALENCE AND TASK DIFFICULTY EFFECTS ACROSS FLANKER AND STROOP TASKS

Zachary Gemelli¹, Azia Tironati¹ & Aminda O'Hare^{1,2}
¹University of Massachusetts, Dartmouth, ²Weber State University

POSTER 3-018

CARBOHYDRATE MOUTH RINSE DOES NOT AFFECT NEUROELECTRIC AND BEHAVIORAL INDICES OF COGNITION

Madison Chandler, David Ferguson & Matthew Pontifex
Michigan State University

POSTER 3-019

DIFFERENCES IN THE DEFAULT MODE NETWORK AND COGNITION BETWEEN OBESE AND NORMAL WEIGHT PREADOLESCENT CHILDREN

Daniel Westfall¹, Sheeba Anteraper¹, Lauren Raine¹, Eric Drollette², Laura Chaddock-Heyman³, Susan Whitfield-Gabrieli¹, Arthur Kramer^{1,3} & Charles Hillman¹
¹Northeastern University, ²University of North Carolina, ³University of Illinois

POSTER 3-020

EVALUATION OF ERROR TYPES AND ERROR SOURCES IN THE MEDIAL FRONTAL CORTEX

Martin Maier & Marco Steinhauser
Catholic University Eichstätt-Ingolstadt

POSTER 3-021**CONCURRENT ASSESSMENT OF PERFORMANCE, ATTENTIONAL RESERVE AND COGNITIVE-MOTOR EFFORT DYNAMICS THROUGHOUT PRACTICE OF REACHING MOVEMENTS**

Isabelle Shuggi, Hyuk Oh, Emma Shaw, William Galway, Christopher Gaskins & Rodolphe Gentili
University of Maryland

POSTER 3-022**MODELING NEURAL PROCESSES OF EVENT-RELATED POTENTIAL (ERP) COMPONENTS FROM STIMULUS TO RESPONSE ON A FLANKER TASK IN TYPICALLY-DEVELOPING CHILDREN**

Mei-Heng Lin¹, Patricia Davies², Brittany Taylor³ & William Gavin²
¹*Rutgers University*, ²*Colorado State University*,
³*University of Nebraska Medical Center*

POSTER 3-023**CONFLICT MONITORING MODERATES THE RELATIONSHIP BETWEEN ATTENTIONAL FOCUS AND CONFLICT RESOLUTION IN THE FLANKER TASK**

Christopher Webster, Jason Moser
Michigan State University

POSTER 3-024**THE INFLUENCE OF ACTION HISTORY AND ATTRACTIVENESS OF STIMULUS UPON RESPONSE INHIBITION: AN ERP STUDY OF GO/NOGO TASK**

Koki Tsuji^{1,2}, Midori Shibata¹, Yuri Terasawa¹ & Satoshi Umeda¹
¹*Keio University*, ²*Japan Society for the Promotion of Science*

POSTER 3-025**BLOCK VERSUS RANDOM DESIGN: THE BEHAVIORAL AND ELECTROPHYSIOLOGICAL EFFECTS OF EMOTIONAL STIMULI ORDER**

Arooj Abid, Morgan Middlebrooks, Eric Rawls & Connie Lamm
University of Arkansas

POSTER 3-026

GREATER BLOOD PRESSURE REACTIVITY DURING AN EFFORTFUL TASK IS ASSOCIATED WITH ENHANCED PERFORMANCE MONITORING

Cassandra Baldwin¹, Anna Finley¹, Katie Garrison¹, David Tang² & Brandon Schmeichel¹

¹Texas A&M University, ²Fors Marsh Group

POSTER 3-027

PERCEPTUAL DEMAND MODULATES EVENT RELATED POTENTIALS DURING A DEGRADED STIMULI AX-CONTINUOUS PERFORMANCE TASK

Xuedi Wang, Janet Shucard, Thomas Covey, Melissa Meynadasy, John Violanti & David Shucard

University at Buffalo

POSTER 3-028

ELECTROPHYSIOLOGICAL INDICES OF REWARD VALUATION AND COGNITIVE CONTROL INVOLVED IN DECISION MAKING FOR PHYSICAL EFFORT

Akina Umemoto^{1,2}, Hause Lin¹ & Clay Holroyd²

¹University of Toronto, ²University of Victoria

POSTER 3-029

LIKE MOTHER, LIKE DAUGHTER? ASSOCIATIONS BETWEEN MOTHERS' AND DAUGHTERS' NEURAL RESPONSES TO REWARDS ARE MODERATED BY DAUGHTERS' DEVELOPMENTAL STATUS

Paige Ethridge & Anna Weinberg

McGill University

POSTER 3-030

EXAMINING SYMPATHETIC NERVOUS SYSTEM SYNCHRONY AND OUTCOMES IN COUPLES PSYCHOTHERAPY

Julia Bernards, Angela Bradford & Lee Johnson
Brigham Young University

POSTER 3-031

A VIRTUAL REALITY SETUP FOR THE COMBINED ASSESSMENT OF SUBJECTIVE, BEHAVIORAL AND PSYCHOPHYSIOLOGICAL CUE-REACTIVITY IN GAMBLING DISORDER

Luca Bruder & Jan Peters

University of Cologne

POSTER 3-032**SIMULTANEOUS EEG-PUPILLOMETRY REVEALS COUPLING BETWEEN ELECTROPHYSIOLOGICAL AND PUPILLARY RESPONSES IN A VISUAL ODDBALL TASK**

Sara LoTempio¹, Jack Silcox¹, Kara Federmeier² & Brennan Payne¹

¹University of Utah, ²University of Illinois, Urbana Champaign

POSTER 3-033**DELAY EFFECTS ON NEURAL EVALUATION OF MONETARY GAINS AND LOSSES: AN EVENT-RELATED BRAIN POTENTIAL (ERP) STUDY**

Toyoki Yamagata¹, Takuji Kinjo¹, Jun'ichi Katayama² & Asuka Murata¹

¹Graduate School of Letters, Hokkaido University, ²Department of Psychological Science and Center for Applied Psychological Science, Kwansei Gakuin University

POSTER 3-034**RELAXATION EFFECTS OF A CANDLE FLAME: DIFFERENCES BETWEEN A REAL FLAME AND A LED LIGHT**

Yasuko Omori, Saori Ito & Toshiro Mizuta
Jin-ai University

POSTER 3-035**THE DEVELOPMENTAL TRAJECTORY OF THE LATE POSITIVE POTENTIAL: TEMPOROSPATIAL PCA AS A TOOL FOR EXAMINING WITHIN-SUBJECT DEVELOPMENTAL CHANGES IN ERPS**

Elizabeth Mulligan¹, Zachary Infantolino², Daniel Klein² & Greg Hajcak¹

¹Florida State University, ²Stony Brook University

POSTER 3-036**WE FOUND THIS HUMERUS: FMRI META-ANALYSIS OF PICTORIAL AND LANGUAGE EVOKED MIRTH**

Andrew Farkas, Elizabeth Edge, Ling-Yu Huang, Aviva Kasowski, Olivia Thomas, Rebekah Trotti, Tucker Bond, Eli Chlan, Maria Granros, Justin Guld, Benjamin Park, Kajol Park & Dean Sabatinelli
University of Georgia

POSTER 3-037

EARLY FACE-SPECIFIC EMOTION EFFECTS ARE DETECTED FOR THE N170 COMPONENT BUT NOT FOR THE P1 COMPONENT: ERP STUDIES ON FACE PERCEPTION UNDER LINEARLY INCREASING PERCEPTUAL LOAD

Sebastian Schindler, Maximilian Bruchmann,
Bettina Gathmann & Thomas Straube
*Institute of Medical Psychology and Systems
Neuroscience, University of Münster*

POSTER 3-038

MESSAGE VALENCE AND AROUSAL INFLUENCE SKIN CONDUCTANCE SYNCHRONY IN DYADS OF FRIENDS AND STRANGERS: A COMPARISON OF LINEAR AND NONLINEAR ANALYSES

Jingjing Han¹, Yang Shi², Yaojun Yan¹, George Roberson¹, Liang Zou³, Seung Woo Chae¹
& Annie Lang¹
¹Indiana University, ²Zhejiang University,
³New York University

POSTER 3-039

THE THRILL OF VICTORY: SAVORING POSITIVE AFFECT, THE REWARD POSITIVITY, AND SYMPTOMS OF DEPRESSION

Kelsey Irvin, Bruce Bartholow & Debora Bell
University of Missouri, Columbia

POSTER 3-040

STARTLE REFLEX AND EVENT-RELATED POTENTIALS IN ANTICIPATION OF DIFFERENT TYPES OF UNPREDICTABLE THREAT

Rachel Ferry & Brady Nelson
Stony Brook University

POSTER 3-041

THE EFFECT OF SAD MOOD ON CHANGE DETECTION OF FACIAL EXPRESSIONS

Xueqiao Li, Piia Astikainen
University of Jyväskylä

POSTER 3-042**EFFECTS OF BITTER TASTE ON COGNITIVE REAPPRAISAL OF FOOD PROCESSING: AN ERP STUDY**

Matteo Giraldo¹, Marta Ghisi¹, Nicola Cellini¹, Gioia Bottesi¹, Anne Schienle² & Michela Sarlo¹
¹University of Padova, ²University of Graz

POSTER 3-043**EMOTION REGULATION AND EMOTIONAL MODULATION OF SPINAL NOCICEPTION AND PAIN**

Tyler Toledo, Garrett Newsom, Felicitas Huber, Joanna Shadlow & Jamie Rhudy
University of Tulsa

POSTER 3-044**COMPARING EMOTIONAL MODULATION OF PICTURE-, FACE-, AND WORD-ELICITED HEMODYNAMIC ACTIVITY**

Lea Stieghorst^{1,2}, Martin Wegrzyn^{2,3}, Friedrich Woermann¹, Johanna Kissler^{2,3} & Christian Bien¹
¹Epilepsy Centre Bethel, ²University of Bielefeld, ³Center of Excellence Cognitive Interaction Technology (CITEC)

POSTER 3-045**DOES MY HEART ALWAYS FEEL GOOD WHEN I OFFER CONTACT COMFORT TO MY PARTNER WITH CHRONIC PAIN?**

Leah Clement, Marie-France Lafontaine, Michelle Lonergan, Stephanie Azzi, Marie-Pierre Daigle & Stephanie Jolin
University of Ottawa

POSTER 3-046**EVALUATIVE CONDITIONING AFFECTS SUBSEQUENT FEAR LEARNING**

Ottmar Lipp, Camilla Luck & Alana Muir
Curtin University

POSTER 3-047

SYSTEMATIC TESTING OF MACHINE LEARNING ALGORITHMS PREDICTING SUBJECTIVE AROUSAL AND VALENCE RATINGS FROM PSYCHOPHYSIOLOGICAL ACTIVITY

Hedwig Eisenbarth, Caitlin Heesterman, Tim Gastrell & Bing Xue

Victoria University of Wellington

POSTER 3-048

PHYSIOLOGY, EMOTIONS AND SENSITIVITY TO PUNISHMENT AND REWARD TRAITS IN CHILDREN: EVALUATING RISK FACTORS FOR EXTERNALIZING BEHAVIORS

Thekla Constantinou, Andry Vrachimi-Souroula, Maria Panteli, Androula Kepola & Georgia Panayiotou

University of Cyprus

POSTER 3-049

PUPIL DIAMETER AND THE LATE POSITIVE POTENTIAL DURING PICTURE VIEWING

Samuel Torres, Margaret Bradley & Peter Lang

Center for the Study of Emotion and Attention, University of Florida

POSTER 3-050

HRV DURING AN EMOTION REGULATION TASK PROVIDES UNIQUE MEASURES OF ANS ACTIVITY, RELATIVE TO RESTING HRV

Aniruddh Ajith, Shruti Patel, Melanie Arenson, Spencer Fix & Edward Bernat

University of Maryland

POSTER 3-051

AMYGDALA AND ANTERIOR INSULA FUNCTIONAL CONNECTIVITY ARE ASSOCIATED WITH ANXIETY-RELATED ATTENTIONAL BIAS TO THREAT

Taylor Susa, Lin Fang & Joshua Carlson

Northern Michigan University

POSTER 3-052**ESTIMATING PATTERNS OF PHYSIOLOGICAL LINKAGE UTILIZING THE NEW R PACKAGE, RTIES**

Savannah Boyd¹, Claire Yee², Ashley Kuelz¹,
Michelle Shiota³ & Emily Butler¹

¹University of Arizona, ²Northwestern University,

³Arizona State University

POSTER 3-053**THE DUALITY OF VIOLENCE: OCCIPITAL N1 ACTIVITY MAY DIFFERENTIATE AGGRESSION AND INJURY DURING PICTURE PROCESSING**

Rosemaree Miller & Frances Martin

University of Newcastle

POSTER 3-054**THE NEUROBIOLOGY OF ANTICIPATING UNCERTAIN AND CERTAIN THREAT**

Juyoen Hur¹, Jason Smith¹, Kathryn DeYoung¹,
Jinyi Kuang², Allegra Anderson³, Rachael Tillman¹,
Hyung Cho Kim¹ & Alexander Shackman¹

¹University of Maryland, College Park, ²University of Pennsylvania, ³Vanderbilt University

POSTER 3-055**HOW DO OTHERS SEE ME? NEURAL OSCILLATIONS IN SOCIAL ANXIETY AND SELF-REFERENTIAL PERSPECTIVE-TAKING**

Erin Maresh¹, Andrea Coppola¹, Finn Roberts² &
James Coan²

¹University of Arizona, ²University of Virginia

POSTER 3-056**NETWORK TOPOLOGY DYNAMICS OF CIRCULATING BIOMARKERS AND COGNITIVE PERFORMANCE IN OLDER CYTOMEGALOVIRUS (CMV) SEROPOSITIVE AND -NEGATIVE MEN AND WOMEN**

Svetlana Di Benedetto^{1,2}, Ludmila Müller¹, Sandra Düzeli¹, Graham Pawelec² & Viktor Müller¹

¹Max Planck Institute for Human Development,

²University of Tübingen

POSTER 3-057

PHYSIOLOGICAL RESPONSES TO AUDIOVISUAL MEDIA MESSAGES BY PEOPLE WITH DIFFERENT POLITICAL ATTITUDES AND MORAL MOTIVES

Xia Zheng & Jingjing Han

The Media School, Indiana University, Bloomington

POSTER 3-058

STABILITY AND INTERNAL CONSISTENCY OF ERPS ACROSS FOUR ASSESSMENTS II: THE ERROR-RELATED NEGATIVITY

Magen Lowe, Jessica Day, Elizabeth Mulligan & Greg Hajcak

Florida State University

POSTER 3-059

THE PSYCHOPHYSIOLOGY OF ANXIETY AND MOOD DISORDERS: TRANSDIAGNOSTIC PATTERNS

Sherry Zhou, Margaret Bradley, Vanessa Dominguez & Peter Lang

Center for the Study of Emotion and Attention, University of Florida

POSTER 3-060

A COMPARISON OF NOMOTHETIC AND INDIVIDUALIZED ALPHA FREQUENCY APPROACHES TO MEASURING FRONTAL EEG ALPHA ASYMMETRY

Diheng Zhang & John Allen

University of Arizona

POSTER 3-061

PERSONALITY AND CHRONOTYPE TRAITS ARE ASSOCIATED WITH TASK-SPECIFIC BRAIN NETWORK DYNAMICS

Heather Roy¹, Nina Lauharatanahirun^{1,2}, Matthew Cieslak², Nick Wasylshyn¹, Steven Tompson¹, Scott Grafton³, Javier Garcia^{1,2} & Jean Vettel^{1,2,3}

¹CCDC Army Research Laboratory, ²University of Pennsylvania, ³University of California, Santa Barbara

POSTER 3-062**THE STUDY OF PUBLIC SPEAKING ANXIETY IN VIRTUAL REALITY USING PSYCHOPHYSIOLOGICAL PARAMETERS**

Stepan Strelnikov & Artem Kovalev
Lomonosov Moscow State University

POSTER 3-064**FRONTO-THALAMIC EEG PATTERNS IN ADOLESCENTS WITH PROBLEM AND RISK-TAKING BEHAVIOR**

Dmitry Lomakin¹, Alexei Korneev² & Regina Machinskaya¹
¹Institute of Developmental Physiology of Russian Academy of Education, ²Lomonosov Moscow State University

POSTER 3-065**DYNAMICS OF EEG ALPHA-ACTIVITY IN MODERATELY PRETERM CHILDREN**

Nadezhda Pavlova¹, Polina Pavlova¹, Dmitrii Chegodaev¹ & Olga Lvova^{1,2}
¹Ural Federal University, ²Ural State Medical University

POSTER 3-066**INFANT FRONTAL EEG ASYMMETRY PREDICTS TODDLER PHYSIOLOGICAL AND BEHAVIORAL SYNCHRONY WITH MOTHER DURING PUZZLE INTERACTION TASK**

Martha Ann Bell¹, Richard Ashley¹, Yu Zhou², Eunkyung Shin¹, Erika Hernandez¹, Madeline Slough¹, Katherine Vlahcevic¹, Angela Scarpa¹, Julie Dunsmore¹ & Cynthia Smith¹
¹Virginia Tech, ²Jinan-Birmingham Joint Institute

POSTER 3-067**THE EVIL OR THE GOOD? EEG DELTA POWER IN RECOVERY PERIOD OF PERINATAL ISCHEMIC STROKE**

Alexander Kotyusov¹, Polina Pavlova¹, Dmitrii Chegodaev¹, Nadezhda Pavlova¹ & Olga Lvova^{1,2}
¹Ural Federal University, ²The Ural State Medical University

POSTER 3-068

**EXAMINING THE WITHIN-FAMILY
CONCORDANCE OF FRONTAL ALPHA
ASYMMETRY AS A NEURAL MEASURE OF TRAIT
MOTIVATION**

Kaylin Hill, Alexis Hernandez, Wei Siong Neo,
Bridgette Tonnsen & Dan Foti
Purdue University

POSTER 3-069

**COMPARING THE OSCILLATORY DYNAMIC IN
THE TRIER SOCIAL STRESS TEST AND CONTROL
IN YOUTH**

Jia Wu, Linda Mayes & Michael Crowley
Yale University

POSTER 3-070

**THE EFFECTS OF TRANSCUTANEOUS VAGUS
NERVE STIMULATION ON NORADRENERGIC
ACTIVITY**

Andreas Burger¹, Martina d'Agostini¹,
Bart Verkuil² & Ilse Van Diest¹
¹KU Leuven, ²Leiden University

POSTER 3-071

**VALIDATION OF A NEW SEQUENTIAL-SET FEAR
ACQUISITION PARADIGM: CONDITIONED FEAR
MODULATES EARLY AND LATE EVENT-RELATED
POTENTIAL COMPONENTS**

Matthias Sperl^{1,2}, Adrian Wroblewski¹, Madeleine
Mueller¹, Benjamin Straube¹ & Erik Mueller¹
¹University of Marburg, ²University of Giessen

POSTER 3-072

**DEFINING THE LOCUS OF ASSOCIATIVE
LEARNING EFFECTS IN VISUAL CORTEX**

Maeve Boylan, Harold Rocha, Anika Hossain &
Andreas Keil
University of Florida

POSTER 3-073

**DISTAL STRESS INDUCTION FACILITATES FEAR
MEMORY CONSOLIDATION**

Christopher Klinke¹, Dominik Fiedler², Maren
Lange² & Marta Andreatta¹
¹University of Würzburg, ²University of Muenster

POSTER 3-074**THE HEART CAN BE UNPREDICTABLE:
EXAMINING EMG AND CARDIAC STARTLE
RESPONSES DURING FEAR CONDITIONING**

Heather Kissel, Alex Faunce, Michael Lewis &
Bruce Friedman
Virginia Tech

POSTER 3-075**CHANGES IN FUNCTIONAL BRAIN
CONNECTIVITY AFTER A VIBROTACTILE WORD-
DISCRIMINATION TRAINING PROGRAM IN
PROFOUNDLY DEAF INDIVIDUALS**

Andrés González-Garrido, Vanessa Ruiz-Stovel,
Adolfo Flores-Saiffe, Fabiola Gómez-Velázquez &
Geisa Gallardo-Moreno
Universidad de Guadalajara

POSTER 3-076**SINGLE-TRIAL P300 DEFLECTIONS ARE LINKED
TO COMPUTATIONALLY DERIVED PREDICTION
ERRORS AND SUBSEQUENT BEHAVIORAL
ADJUSTMENT IN PUNISHMENT-RELATED AND
REWARD-RELATED REINFORCEMENT LEARNING**

Christopher Stolz & Erik M. Mueller
University of Marburg

POSTER 3-078**THE SELF-REFERENCE EFFECT: NEURAL
CORRELATES OF ENCODING AND RETRIEVAL**

Anna Nowicka, Maria Nowicka, Michał Wójcik &
Michał Bola
*Nencki Institute of Experimental Biology of Polish
Academy of Sciences*

POSTER 3-079**INTERFERENCE AND WORKING MEMORY
FOR ACTION: INTERRUPTIONS DISRUPT THE
REACTIVATION OF ACTION PLANS**

Bianca Zickerick¹, Daniel Schneider¹, S. Oliver
Kobald¹, Sven Thönes², Kristina Küper¹ & Edmund
Wascher¹
¹*Leibniz Research Centre for Working Environment
and Human Factors, ²Johannes Gutenberg-
University*

POSTER 3-080

DISCONNECTION BETWEEN PRE-STIMULUS ALPHA POWER AND CONTRALATERAL DELAY ACTIVITY IN FIRST EPISODE SCHIZOPHRENIA

Brian Coffman¹, Tim Murphy¹, Gretchen Haas¹, Raymond Cho^{1,2}, Carl Olson³, Avniel Ghuman¹ & Dean Salisbury¹

¹University of Pittsburgh School of Medicine, ²Baylor College of Medicine, ³Carnegie Mellon University

POSTER 3-082

FEEDBACK-RELATED NEGATIVITY REFLECTS UNEXPECTED PRESENCE OR ABSENCE OF EMOTIONAL IMAGES

Heather Soder^{1,2}, Constanza de Dios¹, Vamshi Akula¹, Rebecca McDonald¹ & Geoffrey Potts¹

¹University of South Florida, ²University of Texas Health Science Center, Houston

POSTER 3-083

RIGHT FRONTAL ASYMMETRY RELATES TO BETTER PERFORMANCE IN RISK TAKING CARD GAME

Lauren Neal¹ & Philip Gable²

¹University of Texas of the Permian Basin, ²University of Alabama

POSTER 3-084

MISMATCH NEGATIVITY (MMN)-INDEXED AUDITORY CHANGE DETECTION IN RELAPSING-REMITTING MULTIPLE SCLEROSIS

Derek Fisher^{1,2}, Laura Pimer¹, Jenna Bissonnette¹, Ashley Francis³, Krista Hull¹, Jennifer Leckey¹ & Lindsay Berrigan³

¹Mount Saint Vincent University, ²Nova Scotia Health Authority, ³Saint Francis Xavier University

POSTER 3-085

DELETERIOUS EFFECTS OF FAMILIAR TARGET ON P300 AND RT-CIT

Joseph Olson, Ella Perrault & Peter Rosenfeld
Northwestern University

POSTER 3-086**ALPHA-BAND OSCILLATORY BRAIN ACTIVITY AS AN INDEX OF CHRONIC KNEE PAIN INTENSITY IN OLDER ADULTS**

Harold Rocha, John Marks, Adam Woods,
Roland Staud, Roger Fillingim, Kimberly Sibille &
Andreas Keil
University of Florida

POSTER 3-087**ATTENTIONAL MODULATION OF THE NOCICEPTIVE FLEXION REFLEX AND ANXIETY SENSITIVITY**

Erin Ross¹, Felicitas Huber¹, Natalie Hellman¹,
Bethany Kuhn¹, Edward Lannon¹,
Cassandra Sturycz¹, Michael Payne², Tyler Toledo¹,
Yvette Guereca¹, Shreela Palit³, Mara Demuth¹,
Joanna Shadlow¹ & Jamie Rhudy¹
¹*University of Tulsa*, ²*Cincinnati Children's Hospital
Medical Center*, ³*University of Florida*

POSTER 3-088**AVOIDANT AND APPROACH NEGATIVE TRAITS AND RIGID CARDIOVASCULAR RESPONSES TO STRESS WITH DISTINCT DEMANDS**

Wei Lü
Shaanxi Normal University

POSTER 3-089**SEX-SPECIFIC MODERATION OF ALCOHOL'S EFFECTS ON HEART RATE BY ALCOHOL USE-RELATED ENVIRONMENTAL CUES**

Roberto Cofresi¹, Bruce Bartholow¹ & Kim Fromme²
¹*University of Missouri*, ²*University of Texas*

POSTER 3-090**A CRITICAL EXAMINATION OF THE CONVERGENT AND DISCRIMINANT VALIDITY OF RESTING EEG FRONTAL THETA AND POSTERIOR ALPHA**

Ezra Smith¹, Craig Tenke^{1,2}, Patricia Deldin³,
Madhukar Trivedi⁴, Myrna Weissman^{1,2}, Randy
Auerbach^{1,2}, Gerard Bruder², Diego Pizzagalli⁵ &
Jurgen Kayser^{1,2}
¹*New York State Psychiatric Institute*, ²*Columbia
University Vagelos College of Physicians and
Surgeons*, ³*University of Michigan*, ⁴*University of
Texas, Southwestern*, ⁵*McLean Hospital, Harvard
Medical School*

POSTER 3-091

DESPERATELY SEEKING: PRECENTRAL GYRUS LINKED TO A CUNEUS/PRECUNEUS RESTING STATE NETWORK IN COMPLICATED GRIEF

Saren Seeley¹, Brian Arizmendi² & Mary-Frances O'Connor¹

¹University of Arizona, ²Phoenix VA Health Care System

POSTER 3-092

OCD CHECKING SYMPTOMS AND THE ERN ACROSS THE MENSTRUAL CYCLE: A REPLICATION & EXPLORATION OF METHODOLOGICAL CHALLENGES AND POTENTIAL SOLUTIONS

Lilianne Gloe, Stefanie Russman Block & Jason Moser

Michigan State University

POSTER 3-093

INTEROCEPTION IN BULIMIA NERVOSA: EVIDENCE AT CORTICAL AND SELF-REPORT LEVELS

Annika Lutz, Zoé van Dyck, André Schulz & Claus Vögele

University of Luxembourg

POSTER 3-094

REDUCED NEURAL RESPONSE TO PLEASANT IMAGES IN MAJOR DEPRESSIVE DISORDER

Alec Bruchnak, Julia Klawohn & Greg Hajcak
Florida State University

POSTER 3-095

POSTERIOR EEG ALPHA AND PERSONAL IMPORTANCE OF RELIGION/SPIRITUALITY AS PREDICTORS OF DEPRESSION SEVERITY IN FAMILIES AT RISK FOR DEPRESSION

Lidia Wong¹, Craig Tenke^{1,2}, Connie Svob^{1,2}, Priya Wickramaratne^{1,2}, Marc Gameroff^{1,2}, Myrna Weissman^{1,2}, Gerard Bruder² & Jürgen Kayser^{1,2}

¹New York State Psychiatric Institute, ²Columbia University Vagelos College of Physicians and Surgeons

POSTER 3-096**IDENTIFYING OPTIMAL TASK LENGTH TO ELICIT THE LARGEST BETWEEN GROUP EFFECTS IN REWARD PROCESSING DURING A SIMPLE GAMBLING TASK**

Christopher Brush¹, Brandon Alderman² & Greg Hajcak¹

¹Florida State University, ²Rutgers, The State University of New Jersey

POSTER 3-097**REDUCED BETA AND GAMMA BAND ACTIVITY TO AUDITORY STIMULI IN CHILDREN WITH AUTISM SPECTRUM DISORDERS**

Jewel Crasta^{1,2}, William Gavin¹ & Patricia Davies¹

¹Colorado State University, ²Kennedy Krieger Institute

POSTER 3-098**SHUT DOWN AND SHUT OUT: DISSOCIATIVE SYMPTOMATOLOGY AND UNUSABLE PSYCHOPHYSIOLOGICAL DATA**

C.J. Healy, Vivian Khedari & Wendy D'Andrea
The New School for Social Research

POSTER 3-099**WHAT'S BLOOD GOT TO DO WITH IT? CARDIAC RESPONSE TO STARTLE AND FEAR CONDITIONING IN BLOOD PHOBIA**

Brittany Nackley, Michael Lewis, J. Alex Faunce, Alisa Huskey & Bruce Friedman

Virginia Polytechnic Institute and State University

POSTER 3-100**NEUROPHYSIOLOGICAL CORRELATES OF REWARD ANTICIPATION AND ANHEDONIA IN VETERANS WITH ALCOHOL USE DISORDER**

Andrew Rauch^{1,2}, Leanne Williams^{1,2}, Candice Dwyer^{1,2}, Linh-Chi Nguyen^{1,2} & Claudia Padula^{1,2}

¹VA Palo Alto Health Care System, ²Stanford University

POSTER 3-101

**OBSESSIVE-COMPULSIVE SYMPTOMS
ASSOCIATED WITH ABNORMAL FEEDBACK
PROCESSING**

Emilio Valadez¹ & Robert Simons²

¹University of Maryland, ²University of Delaware

POSTER 3-102

**EEG THETA/BETA RATIOS AS BIOMARKERS:
EVIDENCE OF VALIDITY**

Sherona Garrett-Ruffin

Bowling Green State University

POSTER 3-103

**RESTING ALPHA FREQUENCY COMPONENTS AS
INDICES OF AROUSAL**

Frances De Blasio^{1,2}, Robert Barry^{1,2},

Jack Fogarty^{1,2} & Adam Clarke^{1,2}

¹University of Wollongong, ²Brain & Behaviour
Research Institute

POSTER 3-104

**PERCEPTUAL AND NEUROPHYSIOLOGICAL
COMMONALITIES OF DIFFERENT AVERSIVE
BODILY SENSATIONS**

Valentina Jelincic, Diana Torta, Ilse Van Diest &
Andreas von Leupoldt

KU Leuven

POSTER 3-105

**MOTOR-PARAMETER MATCHED ESTIMATION OF
ACTION-RELATED AUDITORY ATTENUATION**

János Horváth^{1,2}, Dávid Nevelő³ & Bence Neszmeélyi^{1,3}

¹Research Centre for Natural Sciences, Hungarian
Academy of Sciences, ²Károli Gáspár University
of the Reformed Church in Hungary, ³Budapest
University of Technology and Economics

POSTER 3-106

**ELECTROMYOGRAPHIC ACTIVITY MEDIATES
ACCESSORY STIMULUS EFFECT BUT NOT
CARDIAC TIMING EFFECT**

Xiao Yang¹, J. Jennings¹ & Bruce Friedman²

¹University of Pittsburgh, ²Virginia Polytechnic
Institute and State University

POSTER 3-107**EFFECTS OF SPATIALLY INDICATIVE SOUND STIMULI ON THE HUMAN STARTLE RESPONSE: PERCEPTION AND REACTION TO SPATIALLY INDICATIVE “3D” SOUND BURSTS**

Andreas Behrje¹, Finke Johannes¹,
Terry Blumenthal² & Hartmut Schächinger¹
¹University of Trier, ²Wake Forest University

POSTER 3-108**RESTING ANTERIOR FRONTAL ALPHA ASYMMETRY IS RELATED TO STAGE 2 SLEEP AND APNEIC EVENTS DURING OVERNIGHT POLYSOMNOGRAPHY**

Daniel Everhart¹, Alex Nicoletta¹, Andrea Winters¹,
Taylor Zurlinden¹, Amy Gencarelli¹, Quinn Corbett¹,
Eric Watson², Katie Lehockey³, Jonathan Highsmith⁴ & James Loveless⁵
¹East Carolina University, ²Mt. Sinai Rehabilitation Hospital,
³MedStar National Rehabilitation Hospital, ⁴South Texas Veterans Health Care System,
⁵University of Virginia

POSTER 3-109**THE P2 AS AN INDEX OF SOCIAL CATEGORIZATION: EXAMINING WITHIN-SUBJECT VARIATION**

Hannah Volpert-Esmond & Bruce Bartholow
University of Missouri

POSTER 3-110**ERP CORRELATES OF IMPLICIT BIASES TOWARD PEOPLE SUFFERING FROM SCHIZOPHRENIA**

Jill Grose-Fifer^{1,2}, Denice Vidals¹, Esther Kim¹,
Lorraine Singh¹ & Jayden Zeng¹
¹John Jay College, CUNY, ²The Graduate Center, CUNY

POSTER 3-111**WHY TV COMMERCIALS INSIDE THE ADVERTISING UNIT ATTRACT LESS ATTENTION: DFA EXPLANATION**

Sergii Tukaiev¹, Ivan Seleznov² & Anton Popov²
¹National Taras Shevchenko University of Kyiv,
²National Technical University of Ukraine

POSTER 3-112

THE EFFECT OF ACETAMINOPHEN ON MU RHYTHM SUPPRESSION AND PAIN EMPATHY DURING AN ACTION-BASED PAIN-OBSERVATION TASK

Brooke Turk, Sara McCommon &
Laura Jelsone-Swain
University of South Carolina, Aiken

POSTER 3-113

NEURAL CORRELATES OF GRAPHOPHONEMIC REPRESENTATION IN ADULTS WITH APHASIA: A PILOT STUDY

Amanda Nagler, Emily Salerno,
Tihomara Todorova & Melissa Randazzo
Adelphi University

POSTER 3-114

AN ERP STUDY: INTERPLAY OF PHONOLOGICAL AND ORTHOGRAPHIC PROCESSING DURING READING IN SPANISH

Fabiola Gómez-Velázquez, Juan Quiñones-Beltrán,
Vanessa Ruiz-Stovel & Andrés González-Garrido
Universidad de Guadalajara

POSTER 3-115

COMPUTATIONAL MODELLING OF SINGLE-TRIAL VISUAL MISMATCH NEGATIVITY UNDER DIFFERENT TASK CONDITIONS: ADAPTATION OR PREDICTION?

Insa Schlossmacher^{1,2}, Maximilian Bruchmann^{1,2}
& Thomas Straube^{1,2}
¹University of Muenster, ²Otto Creutzfeldt Center for
Cognitive and Behavioral Neuroscience

POSTER 3-116

CORTICAL THICKNESS AND RESTING STATE CARDIAC FUNCTION ACROSS THE LIFESPAN: A CROSSECTIONAL POOLED MEGA ANALYSIS

Julian Koenig
University of Heidelberg

**LATE-BREAKING UNDERGRADUATE
POSTER ABSTRACTS**

Please note that this section includes abstracts for all of the late-breaking undergraduate posters. As withdrawn posters were replaced with late-breaking undergraduate posters to utilize all space available, please refer to this section to view these additions and note that late-breaking posters are interspersed throughout all three poster sessions.

Wednesday, September 25, 2019
Poster Session I

POSTER 1-017**FURTHER UNDERSTANDING THE RELATIONSHIP
BETWEEN RESTING HEART RATE VARIABILITY
AND EMOTIONAL CLARITY**

Catalin Dragomirescu¹, DeWayne Williams²,
Julian Koenig³ & Julian Thayer²
¹The Ohio State University, ²University of
California Irvine, ³Heidelberg University

POSTER 1-032**NEUROTICISM AND THE PHYSIOLOGICAL
AND SELF-REPORTED RESPONSES TO STRESS**

Rebekka Anderson, Annie Ginty & Danielle Young
Baylor University

POSTER 1-033**WITH FRIENDS LIKE THESE, WHO NEEDS
ENEMIES? DIFFERENTIAL EFFECTS OF SO-
CIAL INTERACTION ON THE ERROR-RELATED
NEGATIVITY**

Philipp Lange, Luisa Lühn, Björn Albrecht,
Marcel Wilhelm, Winfried Rief, Martin Peper &
José García Alanis
University of Marburg

POSTER 1-105**RESTING HEART RATE VARIABILITY PREDICTS
EXECUTIVE ATTENTION IN COLLEGE STUDENTS**

Gunnar Budzyn, Alisa Huskey, Catherine Van
Orden & Bruce Friedman
Virginia Tech

POSTER 1-119

NEURAL RESPONSES TO REWARD MODERATE THE ASSOCIATION BETWEEN NEGATIVE EXPERIENCES AND DAILY NEGATIVE AFFECT

Helena Renault, Paige Ethridge, Aislinn Sandre,
Iulia Banica & Anna Weinberg
McGill University

POSTER 1-120

THE MODERATING ROLE OF SELF-ESTEEM ON POST-DISCRIMINATION CARDIOVASCULAR RECOVERY AMONG AFRICAN AMERICANS

Saurabh Divakaran, Nasha Rios-Guzman,
Mona El-Hout & Kristen Salomon
University of South Florida

Thursday, September 26, 2019
Poster Session II

POSTER 2-043

WORRY YOUR HEART OUT: WORRY AFFECTS CARDIAC SAFETY LEARNING

Abigail Greenway, Alex Faunce,
Alisa Huskey & Bruce Friedman
Virginia Tech

POSTER 2-051

EXAMINING THE RELATIONSHIP BETWEEN THE STABILITY AND FLUCTUATION OF HORMONES AND MOOD ACROSS THE MENSTRUAL CYCLE

Paula Guzman, Madison Marras,
Courtney Louis & Jason Moser
Michigan State University

POSTER 2-055

THE EFFECT OF ALCOHOL INTOXICATION ON NEURAL RESPONDING TO AFFECTIVE-ODDBALL STIMULI

Chloe Johnson, Keanan Joyner &
Christopher Patrick
Florida State University

POSTER 2-077**THE RELATIONSHIP BETWEEN THE MOTHER-DAUGHTER BOND AND A NEW MOTHER'S PHYSIOLOGICAL RESPONSE TO HER BABY**

Allison Keil, Deirdre Katz, Sabrina Legaspi,
Rachel Mehlman, Valerie Truong,
Brienne Pfeifer & Sarina Saturn
University of Portland

POSTER 2-078**VIEWING FOOD IMAGES GENERATES AROUSAL IN HIGH EATING RESTRAINT INDIVIDUALS: EVIDENCE FROM SELF-REPORTS AND SKIN CONDUCTANCE**

Maria Isabel Barros Guinle, Mikhal Yudien &
Catherine Norris
Swarthmore College

POSTER 2-100**HEART ACTIVITY AND ANTISACCADE PERFORMANCE IN WOMEN WITH THE BROAD AUTISM PHENOTYPE**

Azalfa Lateef & Jessica Klusek
University of South Carolina

POSTER 2-108**CARDIAC VAGAL ACTIVITY AND RESPIRATORY SINUS ARRHYTHMIA (RSA) IN RELATION TO RESILIENCE AND NOTIONS OF LOVE AND AFFECTION IN MOTHER-DAUGHTER DYADS.**

Sabrina Legaspi, Rachel Mehlman, Deirdre Katz,
Allison Keil, Valerie Truong, Brienne Pfeifer &
Sarina Saturn
University of Portland

POSTER 2-117**HISTORY OF CHILDHOOD EMOTIONAL ABUSE PREDICTS BLUNTED RESPIRATORY SINUS ARRHYTHMIA AMONG YOUNG WOMEN**

Caitlyn McCormack¹, Lauren Bylsma²
& Lindsey Stone¹
¹*Christopher Newport University,*
²*University of Pittsburgh, School of Medicine*

POSTER 2-118

A CHINESE LANGUAGE ERP/FMRI STUDY OF THE N450 RHYMING EFFECT

Tianyin Ouyang¹, Dan Xiang², Joseph Dien¹ & Donald Bolger¹

¹University of Maryland, ²Northwestern Polytechnical University

POSTER 2-119

CHANGES IN THE STIMULUS PRECEDING NEGATIVITY DURING MOTOR LEARNING

Sabrina Bhangal¹, Shreya Sharma¹, Xi Ren¹, Fernando Valle-Inclán² & Steven Hackley¹

¹University of Missouri, Columbia, ²University of La Coruña

POSTER 2-120

MECHANISMS OF N2PC, N2PB, P2PC/PD, REVEALED FROM TARGET-DISTRACTOR INTERACTIONS IN UPPER VS. LOWER HEMIFIELDS

Marie-Eve Picard, Brandi Lee Drisdelle & Pierre Jolicoeur

Université de Montréal

Friday, September 27, 2019

Poster Session III

POSTER 3-063

NEURAL RESPONSES TO PEER ACCEPTANCE MODERATE ASSOCIATIONS BETWEEN PEER-NOMINATED PEER VICTIMIZATION AND DEPRESSIVE SYMPTOMS IN EARLY ADOLESCENCE

Claire Punturieri, Paige Ethridge, Alison Farrell-Reeves, Melanie Dirks & Anna Weinberg
McGill University

POSTER 3-077

IT'S NOT JUST THE AGE IT'S THE EMOTION: OWN AGE BIAS IS MEDIATED BY EMOTION

Morgan Berlin¹, Emily Diamond², Hannah Potter², Adrienne Jo³, Jessica Kim³, Abraham Saikley³, Cindy Bukach⁴, Jane Couperus⁵ & Catherine Reed³
¹Pomona College, ²Scripps College, ³Claremont McKenna College, ⁴University of Richmond, ⁵Hampshire College

POSTER 3-081**CAN YOU FEEL THEIR PAIN? AN ERP INVESTIGATION OF THE INFLUENCE OF STIGMA ON PAIN EMPATHY**

Elise Cummings & Catherine Norris
Swarthmore College

POSTER 3-117**SHOOTING YOUR ACCURACY IN THE FOOT: THE EFFECT OF ACTION VIDEO GAMES ON COGNITIVE CONTROL**

Michaela Rice, Lexi Lease, MaLia Walker & Kira Bailey
Ohio Wesleyan University

POSTER 3-118**FIND THE SILVER LINING OR IGNORE THE CLOUD? DIFFERENCES BETWEEN EMOTION REGULATION STRATEGIES IN DEPRESSION**

Heather Robinson, Rachel Sliwinski,
Elisa Sheen & Rebecca Compton
Haverford College

POSTER 3-119**ELECTROPHYSIOLOGICAL CORRELATES OF ASSOCIATIVE AND SEMANTIC SIMILARITY RELATIONS**

D.J. Bolger, Joseph Dien & Katie Shrout
University of Maryland, College Park

POSTER 3-120**THE DYNAMIC THREAT PROCESSING GAME: AN ERP-BASED INVESTIGATION OF ATTENTIONAL BIASES IN CHILDHOOD ANXIETY**

Diego Sialer, Michael Crowley & Jia Wu
Yale University

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SCHEDULE-AT-A-GLANCE

Wednesday, September 25, 2019

9:00 a.m.–4:30 p.m., Congressional A (Lobby Level), Pre-Conference Workshop 2: Open Science Workshop (available at an additional fee)
9:00 a.m.–4:30 p.m., Concord (Ballroom Level), Pre-Conference Workshop 3: Time Frequency Analysis (available at an additional fee)
12:00 noon–5:00 p.m., Thornton Room (11th Floor), Board of Directors Meeting
2:30 p.m.–7:30 p.m., Columbia C (Ballroom Level), Registration
5:00 p.m.–8:00 p.m., Grand Canyon Room (Second Floor), Speaker Ready Room
5:30 p.m.–6:30 p.m., Congressional B (Lobby Level), Maximizing the Impact of Your Published Work
5:30 p.m.–7:00 p.m., Regency Ballroom A, Special Symposium: SPR Replication Initiative: Methodological Rigor and Multi-Site Replications in Psychophysiology: Challenges and Recommendations
7:00 p.m.–9:00 p.m., Columbia A and Regency Ballroom Foyer, Opening Reception, Poster Session I and Exhibits (Authors present for discussion and questions)

Thursday, September 26, 2019

7:00 a.m.–6:00 p.m., Grand Canyon Room (Second Floor), Speaker Ready Room
7:30 a.m.–6:30 p.m., Columbia C (Ballroom Level), Registration
8:00 a.m.–9:15 a.m., Olympic (Second Floor), Chairs of Membership Enhancement Committees
8:30 a.m.–10:00 a.m., Regency Ballroom A, Symposium 1.1: Brain and Body in Danger: Central and Peripheral Electrophysiology of Stimulus Processing Under Threat
8:30 a.m.–10:00 a.m., Regency Ballroom B, Symposium 1.2: Now You See it, Now You Don't: Delineating the Causal Role of the Amygdalae in Affective Processing
8:30 a.m.–10:00 a.m., Regency Ballroom C, Structured Panel Presentation 1.3: Ask Me Anything: Research Domain Criteria (RDOC)
8:30 a.m.–10:00 a.m., Concord, Symposium 1.4: Innovations in Dynamic Physiological Measurement Approaches Across the Lifespan: Implications for Risk and Resilience
10:00 a.m.–8:10 p.m., Regency Ballroom Foyer, Exhibits Open
10:00 a.m.–10:30 a.m., Regency Ballroom Foyer, Refreshment Break
10:30 a.m.–12:00 noon, Regency Ballroom A, Big Question Session 2.1: Given that an Underlying Theme for this Year's Conference is Multi-Method Integration, How can We Best Integrate Data From Multiple Physiological Measures (Broadly Construed) to Answer Psychological Questions of Interest?
10:30 a.m.–12:00 noon, Regency Ballroom B, Symposium 2.2: Perceiving Others as a Function of Threat or Safety: The Role of Acquisition, Generalization, Reversal, and Extinction Learning
10:30 a.m.–12:00 noon, Regency Ballroom C, Symposium 2.3: Beyond Observation: Transcutaneous Vagus Nerve Stimulation in Psychophysiological Research
10:30 a.m.–12:00 noon, Concord, Symposium 2.4: The Use of Virtual-Reality in Psychophysiology: A Case for Goal-Directed Navigation Research
12:00 noon–1:15 p.m., Lunch Break (on your own)
12:00 noon–1:15 p.m., Congressional A (Lobby Level), SPR Early Career Luncheon (pre-registration required)
12:00 noon–1:15 p.m., Thornton A, 11th Floor, *Psychophysiology* Board of Associate Editors Meeting

12:00 noon–1:15 p.m., Meet in the Lobby, Publications Committee
 12:00 noon–1:15 p.m., Meet in the Lobby, Committee on Women in Psychophysiology
 12:00 noon–1:15 p.m., Meet in the Lobby, 2020 Program Committee
 1:15 p.m.–1:30 p.m., Regency Ballroom A, Opening Remarks, Ursula Hess and Catherine Norris
 1:30 p.m.–2:30 p.m., Regency Ballroom A, Invited Address, Can We Improve Brain Mechanisms of Emotion Regulation By Increasing Heart Rate Variability? Mara Mather
 2:30 p.m.–3:00 p.m., Regency Ballroom Foyer, Refreshment Break
 3:00 p.m.–4:30 p.m., Regency Ballroom A, Presidential Symposium: Imitation, Synchronization & Empathy: Evidence From Brains, Bodies and Bots
 3:00 p.m.–4:30 p.m., Regency Ballroom B, Symposium 3.2, Methodological and Statistical Considerations for Assessing and Interpreting Children’s Autonomic Stress Physiology
 3:00 p.m.–4:30 p.m., Regency Ballroom C, Symposium 3.3, An Improved Understanding of the Cognitive Control System Through the Integration of Computational Modeling and Electrophysiology
 3:00 p.m.–4:30 p.m., Concord, Symposium 3.4, Depression and Blunted Neural Response to Reward: Increasing Specificity and Prospective Associations
 4:30 p.m.–4:40 p.m., Break
 4:40 p.m.–6:10 p.m., Regency Ballroom A, Big Question Session 4.1: (How) Can Physiological Measures Inform Us About Etiology, Diagnosis, and/or Treatment of Psychopathology (and Vice Versa)?
 4:40 p.m.–6:10 p.m., Regency Ballroom B, Symposium 4.2, Psychophysiological Insights on the Emotional Experience of Individuals with Autism
 4:40 p.m.–6:10 p.m., Regency Ballroom C, Symposium 4.3, Cardiovascular Stress Reactivity: From Basic Concepts to Modern Approaches
 4:40 p.m.–6:10 p.m., Concord, Structured Panel Presentation 4.4, Out of the Lab and Into the Data Revolution: Autonomic Multimodal Data Collection, Processing, and Analysis in Ambulatory Settings
 6:10 p.m.–8:10 p.m., Columbia A, Poster Session II (Authors present for questions and discussion)
 8:15 p.m.–9:45 p.m., Olympic (Second Floor), Education and Training Committee Meeting
 8:30 p.m., Meet in the Lobby of the Hyatt Hotel at 8:15 p.m., Past Presidents Dinner

Friday, September 27, 2019

7:00 a.m.–6:00 p.m., Grand Canyon Room (Second Floor), Speaker Ready Room
 8:00 a.m.–9:00 a.m., Olympic (Second Floor), Diversity and Outreach Committee Meeting
 8:00 a.m.–9:00 a.m., Regency Ballroom Foyer, Light Breakfast
 8:30 a.m.–6:30 p.m., Columbia C, Registration
 8:30 a.m.–10:00 a.m., Regency Ballroom A, Faces of the Future Flash Talks
 10:00 a.m.–8:00 p.m., Regency Ballroom Foyer, Exhibits Open
 10:00 a.m.–10:30 a.m., Regency Ballroom Foyer, Refreshment Break
 10:30 a.m.–11:30 a.m., Regency Ballroom A, Invited Address, The Visual Prefrontal Cortex of Primates: Availability, Desirability and Arousal, Elisabeth A. Murray
 11:30 a.m.–1:00 p.m., Lunch Break (on your own)
 11:30 a.m.–1:00 p.m., Congressional A, Lobby Level, Diversity and

Outreach Luncheon (preregistration required)

11:30 a.m.–1:00 p.m., Meet in the Lobby, 2019 Program Committee

1:00 p.m.–2:30 p.m., Regency Ballroom A, Diversity Symposium 5.1.

Addressing the Representative Samples Problem in Psychophysiological Research: Practical and Conceptual Strategies for Advancing the Field
1:00 p.m.–2:30 p.m., Regency Ballroom B, Symposium 5.2: Physiology to Characterize Romantic and Non-Romantic Dyad Regulation

1:00 p.m.–2:30 p.m., Regency Ballroom C, Symposium 5.3, The

Cognitive Dynamics of Selection and Limited Capacity: Integrating Methods, Paradigms, and Concepts

1:00 p.m.–2:30 p.m., Concord, Symposium 5.4: Cause It's You, and Me, and My Autonomic Activity: A Multi-Method Examination of Putative Interpersonal, Cognitive, and Behavioral Mechanisms of Depression Risk Across Development

2:30 p.m.–3:00 p.m., Regency Ballroom Foyer, Refreshment Break

2:30 p.m.–3:00 p.m., Olympic (Second Floor), Convention Sites Committee

3:00 p.m.–4:30 p.m., Regency Ballroom A, Big Question Session 6.1:

What Have We Learned From Studying Affective Chronometry (i.e., the Time Course of an Affective or Emotional Response) Using Psychophysiological Measures?

3:00 p.m.–4:30 p.m., Regency Ballroom B, Symposium 6.2, Kicking the Can (Central Autonomic Network) From Predictive Coding Models to Structural and Functional Connectivity

3:00 p.m.–4:30 p.m., Regency Ballroom C, Symposium 6.3: Fear and Loathing in D.C.: The Psychophysiology of Various Reasons of Maladaptive Threat Processing

3:00 p.m.–4:30 p.m., Concord, Symposium 6.4: The Psychophysiology of Understanding Others in a Social Context: A Multi-Method Approach

4:45 p.m.–5:15 p.m., Regency Ballroom A, Early Career Award Address, Neurovisceral Regulatory Circuits of Affective Resilience in Youth, Julian Koenig

5:15 p.m.–5:45 p.m., Regency Ballroom A: Early Career Award Address, Lauren M. Bylsma

6:00 p.m.–8:00 p.m., Columbia A, Poster Session III (Authors present for questions and discussion)

8:30 p.m.–9:30 p.m., Capitol A, Lobby Level, Committee to Promote Student Interests

10:00 p.m., Student Social, The Alibi (237 2nd Street, NW)

Saturday, September 28, 2019

7:00 a.m.–11:00 a.m., Grand Canyon Room, (Second Floor), Speaker Ready Room

8:30 a.m.–12:30 p.m., Columbia C (Ballroom Level), Registration

8:30 a.m.–10:00 a.m., Regency Ballroom A, Symposium 7.1: Electrocortical Responses in Emotion Processing: Insights From Healthy Participants, Amygdala-Resection and Psychopathological Patients

8:30 a.m.–10:00 a.m., Capitol B, Lobby Level, Symposium 7.2: Psychophysiology of Pain Processing: Modulation By Individual-Difference and Situational Factors

8:30 a.m.–10:00 a.m., Concord, Symposium 7.3: Tame Your Desires: Cognitive Control and Reward Processing

10:00 a.m.–10:30 a.m., Regency Ballroom Foyer, Refreshment Break

10:30 a.m.–11:30 a.m., Invited Address, fMRI-based Models of Affective Experience: Computation, Representation, and Brain-Body Communication, Tor D. Wager

11:30 a.m.–12:30 p.m., Regency Ballroom A, Presidential Address:
Who to Whom and Why: The Social Nature of Facial Mimicry of
Emotions, Ursula Hess

12:45 p.m.–3:00 p.m., Regency Ballroom B, General Business Meeting
and Luncheon (ticketed event)

3:30 p.m.–6:30 p.m., Regency Ballroom A, Symposium 8.1: “So, What’s
New?” Emanuel Donchin’s Contributions to the Cognitive
Psychophysiology of the 21st Century

9:00 p.m.–12:00 midnight, Regency Ballroom B, Saturday Night Social
with the SPR Blues Band

Sunday, September 29, 2019

9:00 a.m.–12:00 noon, Thornton Room, 11th Floor, Board of Directors
Meeting

Poster Presentation Schedule

Wednesday, September 25

Poster Session I

6:00 p.m.–7:00 p.m.

Posters Assembled

7:00 p.m.–9:00 p.m.

Authors Present for Discussion and
Questions

9:00 p.m.–9:30 p.m.

Dismantle Posters

Thursday, September 26

Poster Session II

8:00 a.m.–9:00 a.m.

Posters Assembled

9:00 a.m.–6:10 p.m.

Posters Available for Viewing

6:10 p.m.–8:10 p.m.

Authors Present for Discussion and
Questions

8:10 p.m.–8:40 p.m.

Dismantle Posters

Friday, September 27

Poster Session III

8:00 a.m.–9:00 a.m.

Posters Assembled

9:00 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.–8:30 p.m.

Dismantle Posters

*There are three poster sessions this year.