



Society for Psychophysiological Research

47th Annual Meeting • October 17-21, 2007
Hyatt Regency Hotel • Savannah, Georgia USA

PROGRAM ADDENDUM

Student Social Location

All students are invited to attend the Student Social scheduled on Friday, October 19 starting at 10:00 p.m. It will be located within walking distance of the Hyatt Regency Hotel at:

The Chart House
202 West Bay Street
Savannah, Georgia

Business Meeting and Luncheon

If you registered for the Business Meeting and Luncheon, there will be a separate ticket in your badge envelope. You will be asked to present this ticket at the Business Meeting Luncheon.

If you are a vegetarian, please alert your waiter or waitress so that they can bring you an appropriate meal.

Refreshment Breaks

The refreshment breaks each day will be held in the tabletop exhibit area on the Mezzanine Level of the Hyatt Regency Hotel.

Poster Session Changes

Poster Session I

RELOCATED

The following poster presentation has been changed to Poster Session I on Thursday, October 18:

Poster #1

DO HIGH IMPEDANCE ERP RECORDING SYSTEMS REALLY SAVE TIME?

Emily S. Kappenman & Steven J. Luck
University of California-Davis

Poster Session I

REVISED AUTHOR ORDER

Poster #24

TRAIT FEAR AND FEARLESSNESS: UTILIZING ERP TO INVESTIGATE INDIVIDUAL DIFFERENCES IN AFFECTIVE PROCESSING

Nathalie Vizueta¹, Edward M. Bernat¹, An T. Dao¹, Cho Kin Cheng², Siri A. Scott¹, Jana C. Christensen¹, Bethany A. Dicks¹, Michael L. Meldahl¹, Brandon W. Thorne¹, Christopher J. Patrick¹

¹University of Minnesota, ²University of Toronto

Poster Session I

RELOCATED

The following poster presentation has been changed to Poster Session I on Thursday, October 18:

Poster #42

FUNCTIONAL BRAIN RESPONSES DURING FEAR CONDITIONING ARE CORRELATED WITH THE EXTENT OF DISSOCIATIVE SYMPTOMS: A RISK FACTOR FOR POSTTRAUMATIC STRESS DISORDER?

Simone Lang, Beate Herbert, Stephanie Ridder, Slawomira Lipinski, & Herta Flor
University of Heidelberg

Poster Session I

WITHDRAWN

Poster #42

RESPIRATORY SINUS ARRHYTHMIA PREDICTS MOOD IN THIRD TRIMESTER IN ANXIOUS PREGNANT WOMEN

Andrea S. Chambers & John J.B. Allen
University of Arizona

Poster Session I

WITHDRAWN

Poster #86

EFFECTS OF TRAIT AGGRESSION ON EMOTIONAL RESPONDING AND AGGRESSIVE BEHAVIOR UNDER INTERPERSONAL STRESS

Ashley Kilmer¹, Naomi Sadeh², & Edelyn Verona¹

¹University of Illinois, Urbana-Champaign, ²University of Illinois, Chicago

Poster Session I

WITHDRAWN

Poster #113

COMPARING EFFECTS OF PHYSIOLOGICAL STRESS AND PSYCHOLOGICAL STRESS ON WOUND HEALING IN RATS

Mir Ali Khatibi Tabatabaei¹, Elham Dianati Ajibishe², & Abbas Haghparast²

¹Tehran-Oxford Neurodevelopmental Center, ²Arkansas Children's Nutrition Center, ³Iran Neuroscience Research Center

Poster Session II

WITHDRAWN

Poster #33

LATENCY OF CONDITIONED FEAR IN HUMANS AFTER DELAY AND TRACE AVERSIVE CONDITIONING

*Ole Asli & Magne A. Flaten
University of Tromsø*

Poster Session II

WITHDRAWN

Poster #100

ORIENTING OF ATTENTION INFLUENCES VISUAL MEMORY STORAGE

*Marcin Biernacki & Adam Tarnowski
Polish Air Force Institute of Aviation Medicine,
Warsaw University*

Poster Session II

RELOCATED

The following poster presentation has been changed to Poster Session II on Friday, October 19:

Poster #115

EMOTIONAL STARTLE MODULATION DURING SCRIPT DRIVEN IMAGERY IN PATIENTS WITH BORDERLINE PERSONALITY DISORDER

*Anke Limberg, Sven Barnow, Harald J. Freyberger,
& Alfons O. Hamm
University of Greifswald*

Poster Session II

WITHDRAWN

Poster #120

RESPIRATORY PACING AND EXPERIMENTAL CONTEXT: INTERACTIVE INFLUENCES ON THE QUANTIFICATION OF HEART RATE VARIABILITY

Martha F. McCool¹, Senta Furman¹, Keri Heilman¹, Jocelyn Leobow², Emily Harden¹, Mika Handelman¹, Alexis Kramer², & Stephen W Porges¹

¹University of Illinois, Chicago, ²Illinois Institute of Technology

Poster Session II

NEW PRESENTATION

The following abstract will be presented in Poster Session II:

Poster #163

THE SPATIO-TEMPORAL DYNAMICS OF ERROR RELATED PROCESSING IN MAJOR DEPRESSIVE DISORDER

*Avram J. Holmes & Diego A. Pizzagalli
Harvard University*

Major Depressive Disorder (MDD) is associated with impairments in action monitoring. The role of the anterior cingulate cortex (ACC) and prefrontal cortex (PFC) in both depression and post-error behavioral adjustments has been repeatedly emphasized. This study examines the relationship between the neural correlates of action monitoring and MDD.

During high density ERP recordings a Stroop task was presented to MDD (n=20) and control participants (n=20). The error-related negativity (ERN) and error-positivity components (Pe) were analyzed. Functional connectivity analyses were conducted between group differences at the point of the ERN and the early and late Pe. Participants with MDD displayed increased ERN amplitude and increased current density in the rostral ACC (rACC)/medial PFC (BA 10/32; 80ms post-error). Functional connectivity analyses revealed group differences within this rACC/medial PFC cluster; and a left dorsal lateral PFC (DLPFC) cluster (BA 8/9) at the late Pe (472ms post-error). This effect was driven by a positive correlation between the current density in the rACC/medial PFC and in the left DLPFC post-error for the comparison group, while MDD participants showed a negative correlational trend. These data provide support for the role of the rACC/medial PFC in the recruitment of the DLPFC following error commission. Further, MDD is associated with decreased post-error accuracy, increased ERN amplitude, and disrupted rACC/medial PFC and DLPFC connectivity following errors, providing evidence of a dysregulated action monitoring system in this population.

This research was supported by a Sackler Scholar in Psychobiology Research Grant, a Sigma Xi Grants-in-Aid Research Grant, and a McMasters Fund Harvard University Research Grant awarded to AJH, and by NIMH Research Grant R01MH68376 awarded to DAP.

Poster Session III

If you have a poster presentation in Poster Session III on Saturday evening, please check the final program for your correct poster number. *Thank you!*

Poster Session III

WITHDRAWN

Poster #65

A MEASUREMENT OF EEG RESPONSE DIFFERENCES BETWEEN MEDIA USED FOR STIMULI PRESENTATION

*Joel C. Geske
Iowa State University*