

Thursday, October 3**Poster Session I**

1. **The effect of an acute bout of exercise on affective state as indexed by electroencephalogram (EEG)**
Park Lockwood¹, Amy J. Haufler², & Bradley D. Hatfield²
¹Washburn University, ²University of Maryland, College Park
2. **Attentional processes and psychomotor expertise: An ERP study**
Lisa D. McAllister & Bradley D. Hatfield
University of Maryland, College Park
3. **An ERP study of reality monitoring**
Alyssa Cairns, P. Andrew Leynes, Jarret Crawford, Tamika Francois, Melissa Croce, Valerie Maher, & Andrea Perger
The College of New Jersey
4. **Leave me alone! An ERP study of memory for performed vs. interrupted actions**
Jarret Crawford, P. Andrew Leynes, Alyssa Cairns, & Melissa Croce
The College of New Jersey
5. **What happens in the brain while trauma survivors recall traumatic memories?**
Michèle Wessa & Herta Flor
Central Institute of Mental Health, Mannheim
6. **Prefrontal asymmetry predicts startle eyeblink reactivity in an older sample**
Heather L. Urry¹, Melissa A. Rosenkranz¹, Marchell E. Thurow¹, Carol D. Ryff¹, Burton Singer², & Richard J. Davidson¹
¹University of Wisconsin-Madison, ²Princeton University

7. The role of the amygdala in specific phobia:**Magnitude or timing of activation?**

Christine L. Larson, Cory A. Burghy, Hillary S. Schaefer, Michael J. Anderle, Kelly L. McNamer, Sarah D. Navin, & Richard J. Davidson

University of Wisconsin-Madison

8. Cortisol and emotion: Which is the cause and which is the effect?

Heather C. Abercrombie¹, Marchell E. Thurow², Melissa A. Rosenkranz², Ned H. Kalin², & Richard J. Davidson²

¹Stanford University, ²University of Wisconsin-Madison

9. Emotion-modulated startle in young adolescents in response to reward and threat

Alexander J. Skolnick, Kristin A. Buss, Zachary C. Zugin, Jennifer A. Sontag, & Richard J. Davidson

University of Wisconsin-Madison

10. Spatio-temporal aspects of aversive Pavlovian conditioning: Brain electric tomography analyses of 128-channel ERP data

Diego A. Pizzagalli^{1,2}, Lawrence L. Greischar¹, & Richard J. Davidson¹

¹University of Wisconsin-Madison, ²Harvard University

11. Subgenual prefrontal and orbitofrontal cortex dysfunction in melancholia: Functional and structural correlates using concurrent EEG/PET measurements and voxel-based MRI morphometry analyses

Diego A. Pizzagalli^{1,2}, Moo Chung¹,

Terrence R. Oakes¹, & Richard J. Davidson¹

¹University of Wisconsin-Madison, ²Harvard University

- 12. Comparing the effects of visual and auditory stop signals on response inhibition in the stop signal paradigm**
Jennifer Ramautar, Albert Kok, & Richard Ridderinkhof
University of Amsterdam
- 13. The horse race model revisited: ERP reflections of correct and incorrect inhibition in the stopping task**
Albert Kok, Jennifer Ramautar, Michiel de Rooter, & Richard Ridderinkhof
University of Amsterdam
- 14. Who are bisexual men? Sexual arousal and sexual orientation in men**
Gerulf Rieger, Meredith L. Chivers, & J. Michael Bailey
Northwestern University
- 15. Arousal patterns of post-operative male-to-female transsexuals**
Elizabeth M. Latty & J. Michael Bailey
Northwestern University
- 16. Saccadic system functioning in schizophrenia and depression**
Johanna Kissler¹, Claudia Catani¹, Christian Wienbruch¹, Brett A. Clementz², Jennifer E. McDowell², & Brigitte Rockstroh¹
¹*University of Konstanz*, ²*University of California, San Diego*
- 17. Psychophysiological variables in childhood proactive and reactive aggression**
Elizabeth Van Voorhees & Angela Scarpa
Virginia Tech
- 18. Ambulatory psychophysiological monitoring in female patients with borderline personality disorder**
Ulrich W. Ebner¹, Thomas Reisch², Stacy Shaw-Welch³, Zsuzanna Csontos², Marsha Linehan³, & Martin Bohus¹
¹*University of Freiburg*, ²*University of Berne*, ³*University of Washington*

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- 19. Cortical responses to threatening pictures: A new approach to study selective attentional bias in patients with panic disorder**
Christiane Melzig, Harald T. Schupp, Almut I. Weike, Thomas Reiningger, & Alfons O. Hamm
University of Greifswald
- 20. Fear, anxiety, and panic: The effect of threatening contextual stimuli in panic disorder patients**
Almut I. Weike, Christiane A. Melzig, Harald T. Schupp, & Alfons O. Hamm
University of Greifswald
- 21. Modality-specific attentional effects on prepulse inhibition of startle**
Diane L. Filion, Albert B. Poje, Wade R. Elmore, & Jakob Nelson
University of Missouri at Kansas City
- 22. Personality dimensions of emotional inhibition and extraversion in predicting the emotional modulation of startle**
Suzanne Petren, Matthew A. Mumaw, Kristen Keune, & Diane L. Filion
University of Missouri at Kansas City
- 23. Sensation seeking and startle responsivity to positive and negative emotional stimuli**
Matthew A. Mumaw, Suzanne Petren, Rheanne L. Duzenberry, & Diane L. Filion
University of Missouri at Kansas City
- 24. The relationship between prepulse inhibition and backward masking: Is recovery from masking due to gating?**
Jonathan K. Wynn¹, Michael E. Dawson¹, & Anne M. Schell²
¹*University of Southern California*, ²*Occidental College*

- 25. The effects of lateralized prepulse and lateralized startle presentations on bilaterally recorded prepulse inhibition (PPI)**
Albert Poje¹, Tim Goble^{1,2}, Chris Smead¹, & Diane Filion¹
¹University of Missouri at Kansas City, ²University of Texas at Dallas
- 26. Reassurance-seeking and frontal EEG asymmetry as interactive diatheses for depressive symptoms in clinical and college student populations**
J.M. Minnix, John P. Kline, & Ginette C. Blackhart
Florida State University
- 27. Left hemispheric activity and decreased P200 in response to high-intensity auditory stimuli**
John P. Kline & Steven D. LaRowe
Florida State University
- 28. Alcohol and emotions: Potential dose effects**
Keith F. Donohue, Alan R. Lang, & John P. Kline
Florida State University
- 29. Frontal asymmetry, behavioral activation, and behavioral inhibition: A failure to replicate**
Foluso Williams & John P. Kline
Florida State University
- 30. Frontal asymmetry and defensiveness as interactive protective and risk factors in depressive symptoms**
John P. Kline, K.I. Mathis, & R. Vergeer
Florida State University
- 31. Rumination on the right, distraction on the left: Frontal EEG asymmetry and response styles**
Ginette C. Blackhart & John P. Kline
Florida State University

32. Reactivity and resiliency in older adults: A twelve year follow-up

Megan E. McCarthy, Arlene R. King, &
Robert W. Levenson
University of California, Berkeley

33. Does the orbital frontal cortex differentially impact responding to anticipated noxious stimuli?

Kelly H. Werner¹, Nicole A. Roberts¹,
Jennifer S. Beer¹, Robert W. Levenson¹,
Howard J. Rosen², & Bruce L. Miller²
¹*University of California, Berkeley*, ²*University
of California, San Francisco*

34. Emotional reactions to fundamental life problems: A comparison of two age groups

Ute Kunzmann
Max Planck Institute for Human Development

35. Cinema and psychopathology: The relationship between general psychiatric distress and responses to emotion-eliciting films

Nnamdi Pole¹, Nicole A. Roberts², Wendy
Taylor¹, Lilian Odera¹, & Robert W.
Levenson²
¹*University of Michigan*, ²*University of
California, Berkeley*

36. ERPs to transitions from rivalrous to non-rivalrous binocular stimulation

Urte Roeber, Andreas Widmann, & Erich
Schröger
Universität Leipzig

37. P300 as an index of spreading activation

A. Azizian, J. Pierre-Louis, & N.K. Squires
State University of New York, Stony Brook

- 38. The effects of physical activity on P300 for a Go-NoGo task in a healthy elderly population**
Sean Deeny¹, Wally Bixby¹, Jo Zimmerman¹, Holly Stover¹, Robert Price¹, Tamara Walden¹, Charles H. Hillman², Amy J. Haufler¹, & Bradley D. Hatfield¹
¹University of Maryland, College Park,
²University of Illinois at Urbana-Champaign
- 39. Cognitive deficit in HIV-infected adult women: An event related potentials (P300) study**
J.L. Simpkins, A.J. Nash, C. Starratt, & S. Widmayer
Florida Atlantic University
- 40. The association of P300 brain potential amplitude with substance use in female adolescents**
Henry H. Yoon, William G. Iacono, Stephen M. Malone, & Matthew McGue
University of Minnesota, Twin Cities
- 41. The effects of rhythmic physical activity on the EEG**
Ewout H. Meijer^{1,2}, Fren T. Y. Smulders¹, & Bradley D. Hatfield²
¹Universiteit Maastricht, ²University of Maryland, College Park
- 42. Characteristics of presaccade brain potentials to visual stimuli of different sizes**
Koichiro Miyaji¹, Kiyoshi Hujisawa¹, Toshiro Mizuta¹, & Kazuo Katagiri²
¹Jin-ai University, ²Kanzawa University
- 43. Alpha EEG and memory for analytic versus holistic passages: Evidence for cognitive processing styles**
Michael T. McKay¹, Ira Fischler¹, & Bruce R. Dunn²
¹University of Florida, ²University of West Florida

44. EEG measures under different levels of pressure prior to the execution of a motor task

J. Gualberto Cremades & Robert Castillo
Barry University

45. Response-related theta synchronization in sensory-motor tasks

Juliana Yordanova & Vasil Kolev
Institute of Physiology, Bulgarian Academy of Sciences

46. Effects of stimulus probability on cortical frequency EEG responses

Vasil Kolev & Juliana Yordanova
Institute of Physiology, Bulgarian Academy of Sciences

47. Psychophysiological (P300 latency and amplitude) and performance (reaction-time) indicators in a laboratory model of cataract-induced, perceptually-related deficits in cognitive functioning of the aged

Shinji Hira¹, Isato Furumitsu¹, Keiichi Saito², & John J. Furedy³
¹*University of East Asia*, ²*Tokyo Denki University*, ³*University of Toronto*

48. P300 and prestimulus EEG power: Relationship to externalizing psychopathology in adolescent males

Stephen M. Malone, Edward Bernat, Christopher J. Patrick, & William G. Iacono
University of Minnesota

49. Affective cue processing and family-based smoking vulnerability

David J. Drobles, Katie Whitlock, Sarra Hedden, & Michael E. Saladin
Medical University of South Carolina

- 50. Influence of negative emotion and method of hemispheric presentation on performance on the Affective Auditory Verbal Learning Test**
Keryl A. Cosenzo & Joseph J. Franchina
Virginia Polytechnic Institute & State University
- 51. Now I'm really angry, just look at my brain!**
Paul S. Foster & David W. Harrison
Virginia Polytechnic Institute & State University
- 52. Anxiety sensitivity and infrequent panic attacks as potential risk factors for panic disorder: Cognitive and psychophysiological reactions to emotional stimuli**
Christine Amrhein¹, Paul Pauli², & Georg Wiedemann¹
¹*University of Tuebingen*, ²*University of Wuerzburg*
- 53. Physiological and emotional concomitants of exercise dependence**
Aaron R. Duley¹, Christopher M. Janelle¹, & Charles H. Hillman²
¹*University of Florida*, ²*University of Illinois at Urbana-Champaign*
- 54. Gender differences in emotional responding: Spontaneous and relived emotions across cultural groups**
Yulia E. Chentsova-Dutton & Jeanne L. Tsai
Stanford University
- 55. Stages of evaluative processing of affective stimuli**
Catherine J. Norris¹, Erin S. Rogers¹, Tyler S. Lorig², & John T. Cacioppo¹
¹*University of Chicago*, ²*Washington & Lee University*
- 56. Physiological and self-report responses to anger evocation: Is there evidence for emotion specificity?**
Margaret D. Lineberger, Rebecca L. Stump, & Judith C. Conger
Purdue University

57. Physiological responses of individuals high and low in spider fear: A comparison of imagery and slides

Rebecca L. Stump¹, Margaret D. Lineberger¹,
Scott R. Vrana², & Judith C. Conger¹
¹Purdue University, ²Virginia Commonwealth
University

58. Habituation and recovery of cardiovascular responses to anger imagery

Margaret D. Lineberger¹, Rebecca L.
Stump¹, Judith C. Conger¹, & Scott R.
Vrana²
¹Purdue University, ²Virginia Commonwealth
University

59. Victims' heart rate and facial EMG responses to receiving an apology and restitution

Charlotte Witvliet¹, Everett L. Worthington,
Jr.², & Nathaniel G. Wade²
¹Hope College, ²Virginia Commonwealth
University

60. Emotional modulation of the startle reflex, facial EMG, and ANS responses in biological siblings

Scott R. Vrana¹, Scott McDonald¹, Carol A.
Prescott², & Kenneth S. Kendler²
¹Virginia Commonwealth University, ²Virginia
Institute for Psychiatric & Behavioral Genetics

61. The stability of internalizer-externalizer classification across emotional imagery and social interaction

Scott R. Vrana¹, Colleen Quinn¹, Rashelle
Brown¹, & David Rollock²
¹Virginia Commonwealth University, ²Purdue
University

62. Affective modulation of startle and PTSD symptomatology following the September 11th attack on the World Trade Center

Joseph S. Baschnagel, Kenneth P. Lane,
Dawn C. Exton, Jeany Oh, & Larry W.
Hawk, Jr.
The University at Buffalo, SUNY

- 63. Voluntary emotion regulation among individuals high and low in disgust sensitivity**
Andrew R. Yartz, Kenneth P. Lane, Andrew M. Baschnagel, & Larry W. Hawk, Jr.
The University at Buffalo, SUNY
- 64. The dilemma of the egg and the hen: Empirical evidence for appraisal theories of emotion**
N. Lanctôt, P. Bourgeois, & Ursula Hess
University of Quebec at Montreal
- 65. Counter-conditioning of prejudice and stereotyping**
Caroline Yabar Yanélia & Ursula Hess
University of Quebec at Montreal
- 66. Steeper diurnal cortisol rhythm associated with greater primary negative affect and greater positive affect within spoken narratives in cancer support groups**
Janine Giese-Davis, Caroline J. Perry, Heather C. Abercrombie, & David Spiegel
Stanford University
- 67. The element of the unexpected in prepulse inhibition**
Aake Elden & Magne Arve Flaten
University of Tromsø
- 68. Is emotional expression deficient in asthmatics?**
Bernhard Dahme¹, Thomas Ritz², Miriam Thoens¹, & Christian Quast¹
¹*University of Hamburg*, ²*Stanford University & VAPAHCs*
- 69. Incongruent emotional expression increases respiratory resistance in asthma**
Thomas Ritz¹, Miriam Thoens², Christian Quast², & Bernhard Dahme²
¹*Stanford University & VAPAHCs*, ²*University of Hamburg*

- 70. Automatic auditory processing of musical and phonemic sounds: Differences between musicians and nonmusicians**
Jennifer N. Alfaro, Dennis McClain-Furmanski, & Helen J. Crawford
Virginia Polytechnic Institute & State University
- 71. Auditory sensory gating in the transient 40-Hz response: Greater in smokers than never-smokers**
Dennis McClain-Furmanski, Helen J. Crawford, Neal Castagnoli, Jr., & Kay Castagnoli
Virginia Polytechnic Institute & State University
- 72. EEG oscillations and binaural beat as compared with electromagnetic headphones and air-conduction headphones**
Chandra Stone, Phyllis Thomas, Dennis McClain-Furmanski, & James E. Horton
The University of Virginia College at Wise
- 73. Effects of predictable and unpredictable shocks on fear-potentiated startle**
Kathryn Smith, Jean Milstein, Johanna M.P. Baas, & Christian Grillon
National Institute of Mental Health
- 74. Attentional selection of threat cues and targets**
Johanna M.P. Baas^{1,2}, Koen B.E. Böcker¹, J. Leon Kenemans¹, & Marinus N. Verbaten¹
¹*Utrecht University*, ²*National Institute of Mental Health*
- 75. A comparison of three methods for discriminating truthful from deceptive ERP activity**
Ray Johnson, Jr., Jack Barnhardt, & John Zhu
Queens College/CUNY

- 76. An ERP study of deception: Lying about personal facts**
Ray Johnson, Jr., Jack Barnhardt, Neil Adler, Elizabeth Simon, & John Zhu
Queens College/CUNY
- 77. Event-related gamma potentials demonstrate perceptual quanta in the visual modality**
Richard Brown & Mark W. Geisler
San Francisco State University
- 78. Frontal EEG activation in children and adults in a music-related learning task**
Mark W. Geisler, Kelli Mathews, & Melissa Hirt
San Francisco State University
- 79. Blinking, information processing, and morning nutrition in preadolescents**
R. T. Pivik^{1,2} & Roscoe A. Dykman¹
¹*Brain Function Laboratory, Arkansas Children's Nutrition Center,* ²*University of Arkansas at Little Rock*
- 80. Blinking, reaction time, and morning nutrition in preadolescents**
Roscoe A. Dykman¹ & R. T. Pivik^{1,2}
¹*Brain Function Laboratory, Arkansas Children's Nutrition Center,* ²*University of Arkansas at Little Rock*
- 81. Does a suitability of crime-relevant items bring error of judgments to innocent subjects with crime-relevant information in Guilty Knowledge Test by P3?**
Minori Sasaki¹, Shinji Hira², & Takashi Matsuda¹
¹*Hiroshima Shudo University,* ²*University of East Asia*

82. A year after the commission of a mock crime, the P300 amplitudes, but not reaction time, are sensitive Guilty Knowledge Test indicators

Shinji Hira¹, Minoru Sasaki², Takashi Matsuda²,
Isato Furumitsu¹, & John J. Furedy³
¹*University of East Asia*, ²*Hiroshima Shudo University*, ³*University of Toronto*

83. The effects of task difficulty on the mismatch negativity (MMN) during inter-modal selective attention

Alexandra Muller-Gass & Kenneth B. Campbell
University of Ottawa

84. The mismatch negativity during natural sleep: Rapid rate of stimulus presentation

Merav Sabri¹, Sophie Labelle², & Kenneth B. Campbell²
¹*Indiana University-School of Medicine*,
²*University of Ottawa*

85. Convergence between ERPs and performance on WISC-III and WAIS-R NI vocabulary subsets

Yannick Marchand & John F. Connolly
Dalhousie University

86. Delineating event-related-brain-potential (ERP) patterns for assessing working memory abilities

Celeste D. Lefebvre¹, Yannick Marchand¹,
& John F. Connolly^{1,2}
¹*Dalhousie University*, ²*IWK Grace Health Center, Halifax*

87. Emotional experience, expression, and physiology in aging

Lindsey D. Littrell, Brian T. David, Alfred W. Kaszniak, & Lisbeth Nielsen
University of Arizona

- 88. Emotion experience and heartbeat detection in long-term meditators**
Lisbeth Nielsen & Alfred W. Kaszniak
University of Arizona
- 89. The effects of nicotine on stress-induced hemoconcentration and cardiovascular reactivity**
Melissa M. VanderKaay & Stephen M. Patterson
Ohio University
- 90. Hydration status and cardiovascular psychophysiology**
Stephen M. Patterson, Christopher R. France, Lynne M. Prause, & Michelle Gill
Ohio University
- 91. Relationship between hydration enhancement and blood pressure: More is better**
Stephen M. Patterson & Deborah E. Spinks
Ohio University
- 92. Effects of dietary and fluid intake on fluid hydration status**
Birgit A. Shanholtzer & Stephen M. Patterson
Ohio University
- 93. Effects of chronic fluid loading on posture and stress-induced cardiovascular reactivity**
Lynne M. Prause, Stephen M. Patterson, Christopher R. France, & Deborah E. Spinks
Ohio University
- 94. Differences in fatigue are reflected by differences in heart rate (variance)**
Ingrid J.T. Veldhuizen
Tilburg University

- 95. The effects of two paced-breathing procedures on heart rate and skin resistance**
Julie C. Densmore & Theodore E. Steiner
San Francisco State University
- 96. Propranolol induces short-term reductions in clinical pain ratings in patients with fibromyalgia or temporomandibular disorder**
Mitchell Black, Edith Bragdon, Kathleen C. Light, Nancy Costello, Kimberly Brownley, Vanessa Miller, John Winfield, & William Maixner
University of North Carolina at Chapel Hill
- 97. Stability of pupillary response waveforms during the backward masking task across stimulus presentations, participant demographics, and psychopathology**
Steven P. Verney & Eric Granholm
VA San Diego Healthcare System & University of California, San Diego
- 98. The basal forebrain cholinergic system and epinephrine priming of the cerebral auditory evoked response**
Dayan Knox, Reema Shafi, & Gary G. Berntson
Ohio State University
- 99. Early and late event-related potential effects on visual motion comparing young and old subjects**
Yue-Jia Luo¹, Yang Jiang², & R. Parasuraman²
¹Institute of Psychology, Chinese Academy of Sciences, ²Catholic University of America
- 100. Development along an integration scale: Longitudinal transformation in brain dynamics with regular transcendental meditation practice**
Fred Travis
Maharishi University of Management