

Poster Session III: Saturday, October 21**1.- 3. Tursky Award Winners**

- 4. Loss of consciousness during general anesthesia with propofol: An ERP study**
Ralf H. Trippe, Thomas Weiss, & Wolfgang H.R. Miltner
Friedrich Schiller University, Jena
- 5. Selective attention modulates early somatosensory-evoked magnetic fields in the primary somatosensory cortex**
Thomas Weiss, Ralph Huonker, Christiane Karlowsky, Daniela Fließbach & Wolfgang H.R. Miltner
Friedrich Schiller University, Jena
- 6. P300 - a signature for threat processing in phobic subjects**
Wolfgang H.R. Miltner, Silke Krieschel, & Ingmar Gutberlet
Friedrich Schiller University, Jena
- 7. Affective responses in agenesis of the corpus callosum with normal intelligence**
Archibald D. Hart, Aaron Lautzenhiser, Kyla McBurney-Rebol, Lynn K. Paul, & Warren S. Brown
Fuller Theological Seminary
- 8. The psychophysiological measurement of hedonia in children using the affective response to pictures, with a view to the assessment of childhood depression**
Archibald D. Hart, Maggie Gainey, & Lauren McGuinness
Fuller Theological Seminary
- 9. Evoked potential interhemispheric transfer in dyslexia: Latency variability and signal-to-noise ratio**
Chad Grills¹, Taryn Markee¹, Mark Bjerke¹, Gary Galbraith², & Warren Brown^{1,2}
¹*Fuller Theological Seminary* ²*University of California, Los Angeles*
- 10. Emotion-modulated startle response in individuals at putative risk for schizophrenia-spectrum disorders**
Diane C. Gooding, Katherine Putnam, Meghan Miller, Hyejeen Lee, & Richard J. Davidson
University of Wisconsin, Madison

11. **Level of expectation of reward modulates the eyeblink startle response**
Alexander J. Skolnick & Richard J. Davidson
University of Wisconsin, Madison
12. **Degree of treatment response in major depression is predicted by anterior cingulate activity: A low resolution electromagnetic tomography (LORETA) analysis**
Diego Pizzagalli¹, Jack B. Nitschke¹, Roberto D. Pascual-Marqui², Christine L. Larson¹, Terrence R. Oakes¹, Heather C. Abercrombie¹, Stacey M. Schaefer¹, John V. Koger¹, Ruth M. Benca¹, & Richard J. Davidson¹
¹*University of Wisconsin, Madison*, ²*The KEY Institute for Brain-Mind Research*
13. **Emotion-modulated startle in anticipation of and response to affective stimuli in anxiety and depression**
Jack B. Nitschke, Christine L. Larson, Sarah D. Navin, Shannon Gray, Dante Ruffalo, Marian Smoller, Elise Victor, Kristen Mackiewicz, & Richard J. Davidson
University of Wisconsin, Madison
14. **Resting frontal and anterior temporal EEG asymmetry predicts ability to regulate negative emotion**
Daren C. Jackson, Cory A. Burghy, Amy J. Hanna, Christine L. Larson, & Richard J. Davidson
University of Wisconsin, Madison
15. **Self-report correlates of reactivity to visual affective stimuli indexed with affect-modulated startle: Specificity of a new measure**
Christine L. Larson, William Irwin, Jack B. Nitschke, Sarah D. Navin, Dante Ruffalo, Alexander J. Shackman, & Richard J. Davidson
University of Wisconsin, Madison
16. **Effects of threat-of shock upon verbal and spatial working memory**
A. Lavric^{1,2}, A.J. Shackman¹, I. Sarinopoulos¹, A. Pederson Sarinopoulos¹, & Richard J. Davidson¹
¹*University of Wisconsin, Madison*, ²*University of Warwick*

17. **Resting midfrontal brain activity predicts motivated behavior**
Steven K. Sutton¹ & Richard J. Davidson²
¹University of Miami, ²University of Wisconsin, Madison
18. **Relationships between facial EMG activity and magnitude of conditioned taste aversions induced by optokinetic rotation**
Senqi Hu & Kathryn A. Player
Humboldt State University
19. **Effects of odors on facial EMG activity**
Senqi Hu & Jason E. Scozzafava
Humboldt State University
20. **Laboratory predictors of ambulatory cardiac activity: Interrogating psychometric principles**
Leah Floyd, Ina Daniels, Sonia Bell, & Jules Harrell
Howard University
21. **Strategies for predicting ambulatory cardiac activity: A question of incremental validity**
Ina Daniels, Leah Floyd, Sonia Bell, Jenille Adams, & Jules Harrell
Howard University
22. **Event related potentials and sensory motor working memory**
Ahmet Cabuk¹, Canan Basar-Eroglu¹, & Andreas Brand²
¹University of Bremen, ²Bremen East Hospital
23. **The increase of gamma-band of ERPs by working memory**
Canan Basar-Eroglu¹, Andreas Brand², Ahmet Cabuk¹, & Helmut Hilderandt²
¹University of Bremen, ²Bremen East Hospital
24. **The behavioral properties of the necker cube**
Ummuhan Isoglu-Alkac¹ & Canan Basar-Eroglu²
¹Istanbul University, ²University of Bremen
25. **Reversal-rate dependent differences in the gamma-band: A comparison of two different reversible figures**
Daniel Strueber, Edwin Hoff, Birgit Mathes, & Canan Basar-Eroglu
University of Bremen

26. **How necessary is the vagus for heart-rate deceleration and attentional orienting? A study of infant heart transplant recipients**
Stephanie Griffone, Paul Haerich, M. Catherin Freier, & Marti Baum
Loma Linda University
27. **Error processing and response competition activate the supplementary motor area (SMA) as revealed by event-related fMRI and ERPs**
Markus Ullsperger & D.Yves von Cramon
Max Planck Institute of Cognitive Neuroscience
28. **Kanizsa figures pop out of visual search displays**
Christoph S. Herrmann
Max Planck Institute of Cognitive Neuroscience
29. **Heart rate and heart period variability changes in the intracarotid sodium amytal test**
John Sollers III¹, Geoffrey Ahern², & Julian Thayer¹
¹National Institute of Aging, Laboratory of Personality and Cognition, ²University of Arizona
30. **The convergent validity of different EEG reference schemes for the measurement of anterior alpha asymmetry**
Dirk Hagemann^{1,2}, Ewald Naumann³, & Julian F. Thayer¹
¹National Institute on Aging, Laboratory of Personality and Cognition, ²University of Maryland, Baltimore County, ³Universität Trier
31. **EEG alpha activation asymmetry predicts neuroendocrine and immune stress responses**
Caterina Breitenstein, Friedemann Gerhards, Ewald Naumann, Alexander Luerken, & Angelika Buske-Kirschbaum
University of Trier
32. **Electrocortical correlates of location priming**
Ewald Naumann, Hannes Ruge, Gabriele Becker, & Dieter Bartussek
University of Trier
33. **Principal components analysis (PCA) as a tool for identifying EEG frequency bands: I. methodological considerations and preliminary findings**
Jürgen Kayser¹, Craig E. Tenke¹, & Stefan Debener²
¹New York State Psychiatric Institute, ²Dresden University of Technology

34. **Principal components analysis (PCA) as a tool for identifying EEG frequency bands: II. dissociation of resting alpha asymmetries**
 Stefan Debener¹, Jürgen Kayser², Craig E. Tenke², & André Beauducel¹
¹Dresden University of Technology, ²New York State Psychiatric Institute
35. **Optimizing principal components analysis (PCA) methodology for ERP component identification and measurement: Theoretical rationale and empirical evaluation**
 Jürgen Kayser & Craig E. Tenke
 New York State Psychiatric Institute
36. **Functional MRI as a tool for investigating networks underlying the orienting reflex**
 Jim Lagopoulos^{1,3}, Philip B. Ward¹, Chris Rennie^{2,3}, Leanne Williams², & Evian Gordon^{2,3}
¹Neuroscience Institute of Schizophrenia and Allied Disorders (NISAD), ²Westmead Hospital;
³University of Sydney
37. **Neural activity associated with electrodermal orienting: An integrated fMRI and GSR study**
 Leanne M. Williams^{1,2}, Michael J. Brammer³, David Skerrett¹, Jim Lagopolous^{2,4}, Chris Rennie², Anthony Peduto¹, & Evian Gordon^{1,2}
¹Westmead Hospital, ²University of Sydney,
³Institute of Psychiatry, Biostatistics and Computing,
⁴Neuroscience Institute of Schizophrenia and Allied Disorders (NISAD)
38. **Can ADHD and first-episode schizophrenia in adolescence be distinguished using psychophysiological measures of attention and arousal?**
 Pamela J. Marsh, Ilario Lazzaro, Anthony W. F. Harris, Leanne M. Williams, & Evian Gordon
 Westmead Hospital and University of Sydney
39. **Disturbances in gamma synchrony in posttraumatic stress disorder**
 Kim L. Felmingham¹, Richard R. Bryant¹, & Evian Gordon^{2,3}
¹University of New South Wales, ²Westmead Hospital, ³University of Sydney

40. **Dynamic relationships between SCR, prestimulus EEG and ERPS in posttraumatic stress disorder**
Kim L. Felmingham¹, Richard R. Bryant¹, & Evian Gordon^{2,3}
¹University of New South Wales, ²Westmead Hospital, ³University of Sydney
41. **Disturbances in processing threatening faces in PTSD**
Kim L. Felmingham¹, Richard R. Bryant¹, & Evian Gordon^{2,3}
¹University of New South Wales, ²Westmead Hospital, ³University of Sydney
42. **Disturbance of synchronous gamma activity in schizophrenia**
Lee Kwang-Hyuk, Evian Gordon, Leanne Williams, & Albert Haig
University of Sydney
43. **Inhibition of the pupillary light reaction by cognitive activity: Evidence for dual parasympathetic components**
Stuart R. Steinhauer, Ruth Condray, & Annette Kasperek
University of Pittsburgh & Veterans Affairs Pittsburgh Healthcare System
44. **Pharmacological dissociation of autonomic pathways contributing to pupillary dilation following motor activity**
Stuart R. Steinhauer, Ruth Condray, Annette Kasperek, & Greg J. Siegle
University of Pittsburgh & Veterans Affairs Pittsburgh Healthcare System
45. **Pupillary and reaction-time assessment of interference of emotional and non-emotional information on subsequent processing**
Greg J. Siegle & Stuart R. Steinhauer
University of Pittsburgh & Veterans Affairs Pittsburgh Healthcare System
46. **Relation between automatic tracking of lip-corner motion and facial surface EMG of the zygomaticus major muscle during spontaneous smiles**
Karen L. Schmidt¹, Valerie Monaco¹, Bethany Peters¹, Jessie Van Swearingen¹, Yingli Tian², & Jeffrey F. Cohn^{1,2}
¹University of Pittsburgh, ²Carnegie Mellon University

47. **Quick cues may alter anticipatory strategies as indicated by inhibitory changes in cardiac inter-beat interval**
J.R. Jennings¹, M.W. van der Molen², F.M. van der Veen¹, & K.D. Debski¹
¹University of Pittsburgh, ²University of Amsterdam
48. **Patterns of sympathetic and parasympathetic reactivity in a sample of children and adolescents: Temporal stability of patterns across 3 years**
Kristen Salomon & Karen A. Matthews
University of Pittsburgh
49. **Electroencephalographic asymmetry in adults with a history of childhood-onset depression**
Anita D. Keener¹, Valerie Monaco¹,
Michelle S. LeMenager¹, Erica Forbes¹,
Bethany A. Peters¹, Jeffrey F. Cohn¹,
Nathan A. Fox², & Maria Kovacs¹
¹University of Pittsburgh, ²University of Maryland
50. **Affective startle blink magnitude in relation to history of childhood-onset depression**
Erika E. Forbes¹, Anita D. Keener¹, Valerie Monaco¹, Jeffrey F. Cohn¹, Michelle S. LeMenager¹, Nathan A. Fox², & Maria Kovacs¹
¹University of Pittsburgh, ²University of Maryland
51. **What happens when the participant prepares to respond?**
R.A. Moore, P. H. Morris, A. Gale, & D. Forrester
University of Portsmouth
52. **Indices of excitation and inhibition: Electrodermal, cardiac and electrocortical activity**
R.A Moore, P.H. Morris, A. Gale, & D. Forrester
University of Portsmouth
53. **Multple physiological measures of orienting and their relationship with personality**
Jacqueline Pearson, Sharon Leal, Anthony Gale, & Paul Morris
University of Portsmouth

54. **Late ERP manifestations of fear and attention**
Joke M.P. Baas, Koen B.E. Böcker, J. Leon Kenemans, & Marinus N. Verbaten
Utrecht University
55. **Early ERP manifestations of fear and attention**
Koen B.E. Böcker, Joke M.P. Baas, J. Leon Kenemans, & Marinus N. Verbaten
Utrecht University
56. **Differential functional reactivity of slow and fast alpha oscillations during auditory stimulus processing**
Juliana Yordanova & Vasil Kolev
Bulgarian Academy of Sciences
57. **Abnormal early stages of task stimulus processing in children with attention deficit hyperactivity disorder - evidence from event-related gamma oscillations**
Juliana Yordanova¹, Tobias Banaschewski², Vasil Kolev¹, Hartmut Heinrich², Wolfgang Woerner², & Aribert Rothenberger²
¹*Bulgarian Academy of Sciences*, ²*University of Göttingen*
58. **Gamma band response in children is related to task-stimulus processing**
Vasil Kolev¹, Juliana Yordanova¹, Hartmut Heinrich², Tobias Banaschewski², Wolfgang Woerner², & Aribert Rothenberger²
¹*Bulgarian Academy of Sciences*, ²*University of Göttingen*
59. **EEG theta rhythm and internally driven attention in 5-month-old infants**
Tatyana Stroganova¹, Olga Bazhenova², Jane Doussard-Roosevelt², Irina Posikeira¹, & Stephen Porges²
¹*Russian Academy of Education*, ²*University of Maryland*
60. **Rules of disengagement: Cardiovascular changes as a function of appraisals and nine levels of difficulty of an interactive video game task**
Arvid Kappas¹ & Anna Pecchinenda²
¹*Laval University*, ²*The University of Hull*
61. **Do the right thing: Fearlessness and advantageous choices in a gambling card-game**
Anna Pecchinenda¹ & Patricia Brennan²
¹*The University of Hull*, ²*Emory University*

- 62. Electrophysiological evidence for very early living/nonliving discriminations**
Ivan Kiss^{1,2}, Mary-Ellen Large², & Patricia McMullen²
¹Nova Scotia Hospital, ²Dalhousie University
- 63. Alpha activity as an index of cortical inhibition during sustained internally controlled attention in infants**
Elena Orekhova¹, Tatiana Stroganova², & Irina Posikera²
¹Sahlgrenska University Hospital, Göteborg ²Brain Research Institute, Moscow
- 64. Baseline autonomic activity patterns predict readiness to respond and attentional performance on cognitive tasks**
Dmitry M. Davydov Serbsky
National Research Center for Social and Forensic Psychiatry
- 65. Cues for smoking in everyday life: Activity, moods, and heart rate**
David Shapiro¹, Dmitry Davydov², Porsha James¹, & Larry Jamner³
¹University of California, Los Angeles, ²Serbsky National Research Center for Social and Forensic Psychiatry, ³University of California, Irvine
- 66. Transient shifts in vagal activity and facial expression of emotion: Basic dynamics and trait differences**
Joni Kettunen^{1,2}, Petri Näätänen², & Liisa Keltikangas-Järvinen²
¹Research Institute for Olympic Sports, Finland, ²University of Helsinki
- 67. Hypertension and cardiovascular, cortisol, and immunological responses to laboratory stressors**
Ivan Nyklicek¹, Jos Bosch², & Clemens Kirschbaum³
¹Tilburg University, ²Free University, Amsterdam (ACTA), ³University of Trier
- 68. Affective processing: Cortical, subcortical and autonomic modifications**
Daniela Palomba¹, Maurizio Codispoti², Michela Sarlo¹, Giulia Buodo^{1,2}, Michela Mazzetti²
¹Università di Padova, ²Università di Bologna

69. **Are cardiovascular and cortical responses to cognitive tasks integrated or dissociated?**
Luciano Stegagno & Alessandro Angrilli
University of Padova
70. **Exaggerated electrodermal startle responses after intracardiac shock discharges**
Karl Heinz Ladwig^{1,2}, Birgitt Marten-Mittag¹,
Isabell Deisenhofer³, Birgit Hofmann¹,
Johannes Schapperer¹, Sonja Weyerbrock³, &
Claus Schmitt³
¹*Universitätsklinikum rechts der Isar*, ²*National Research Center for Environment and Health, München*, ³*Deutsches Herzzentrum, München*
71. **Dose-response relation of intranasally administered cholecystinin on cortical evoked potentials**
Reinhard Pietrowsky, Nadine Czehak, &
Heide Denecke
University of Dusseldorf
72. **Affect and evaluative context: High density ERP recordings during picture processing**
Harald T. Schupp, Almut I. Weike, &
Alfons O. Hamm
University of Greifswald
73. **Affective learning is subject to occasion setting and not found in absence of contingency awareness**
Ottmar V. Lipp, Sascha A. Hardwick, & M.
Helena
University of Queensland
74. **Startle potentiation during aversive and non-aversive pavlovian conditioning**
David A.T. Siddle¹, Ottmar V. Lipp², &
Patricia J. Dall²
¹*University of Sydney*, ²*University of Queensland*
75. **Talk to me! Facial emotional expressivity as a function of sex and status in dyadic interactions**
Ursula Hess, Patrick Bourgeois, Nadine Murard, & Nicole Cheung
University of Quebec, Montreal
76. **Cortical activation associated with the processing of auditory frequency mismatch and complex novel sounds: A PET study**
Bernhard W. Müller, Markus Jüptner, &
Stefan Müller
¹*University Clinics, Essen*

77. **The effect of long term cannabis use on the P300**
Frances Martin & Simon Baldwin
University of Tasmania
78. **Early priming effects in schizotypal personality disorder as demonstrated with spatio-temporal principal components analysis**
M. Niznikiewicz, K. M. Spencer, M. E. Shenton, M. Voglmaier, L. Seidman, C. Dickey, M. Frumin, J. Sutton, M. Friedman & R.W. McCarley
Brockton Veterans Affairs Medical Center, Massachusetts Mental Health Center, Brigham and Women's Hospital, Harvard Medical School
79. **Event-related brain potential (ERP) evidence against a simple familiarity model of recognition memory in the deese-roediger-McDermott false memory paradigm**
Thomas P. Urbach¹, Sabine Windmann², & Marta Kutas²
¹Binghamton University, ²University of California, San Diego
80. **Evidence for a relationship between prepulse inhibition and P50 suppression in normal controls, but not in schizophrenia patients**
Kimberle Kelly¹, Sarah Morris¹, Cindy M. Yee¹, Michael Dawson², Anne Schell³, Kenneth Subotnik¹, & Keith Nuechterlein¹
¹University of California, Los Angeles, ²University of Southern California ³ Occidental College
81. **Single trial analyses and clinical correlates of P50 suppression in schizophrenia**
Patricia M. White, Cindy M. Yee, & Keith H. Nuechterlein
University of California, Los Angeles
82. **State and trait anxiety influence normal P50 suppression**
Patricia M. White & Cindy M. Yee
University of California, Los Angeles