
Poster Session II: Friday, October 20

1. **Individual differences in corrugator/zygomatic muscle responses to aggression**
Katie A. Workman, Michelle Lubomski, Sarah Chan, Allan J. Nash, & Lauri A. Jensen-Campbell
Florida Atlantic University
2. **Vagal tone as an index of emotional response**
Thomas W. Frazier & Milton E. Strauss
Case Western Reserve University
3. **The role of working memory in syntactic and semantic processing while reading sentences**
Marieke van Herten, Dorothee J. Chwilla, Herman H.J. Kolk, & Patrick J.W. Oor
Catholic University of Nijmegen
4. **Event-related potential and reaction time measurements of semantic priming in bilingual word recognition**
Ellen R.A. de Bruijn, Ton Dijkstra, Dorothee J. Chwilla, & Herbert J. Schriefers
University of Nijmegen, NICI
5. **Pre-attentive processing of visual food cues in food deprivation**
Hartmut Schaechinger¹, Marc Luethy¹, Wolf Langewitz¹, Ulrich Keller¹, & Terry Blumenthal²
¹University Hospital Basel, ²Wake Forest University
6. **Prepulses decrease the pain of intense electrical shocks**
Terry D. Blumenthal¹, Charles Swerdlow², & Traverse T. Burnett¹
¹Wake Forest University, ²University of California, Los Angeles, Cedars Sinai Medical Center
7. **Absence of caffeine effects in the absence of caffeine withdrawal**
Traverse T. Burnett¹, Magne A. Flaten², & Terry D. Blumenthal¹
¹Wake Forest University, ²University of Tromsø

8. **Drugs act as active placebos**
Magne Arve Flaten¹, Terje Simonsen²,
Georg Sager¹, Kolbjörn Zahlén³, Trond
Aamo³, & Harald Olsen⁴
*¹University of Tromsø, ²Tromsø University
Hospital, ³Trondheim University Hospital,
⁴The Norwegian Radium Hospital, Oslo*
9. **Attention to acoustic and tactile
prepulses has opposite effects on startle**
Aake Elden & Magne Arve Flaten
University of Tromsø
10. **A mismatch negativity study of automatic
speech discrimination in children with
learning problems having attention
disabilities**
Kazuhiro Mukai, Jun'ichi Katayama,
Junko Fukushima, & Takashi Morotomi
Hokkaido University
11. **The effects of sound novelty and uniqueness
on anterior distributed P300**
Jun'ichi Katayama, Aya Sugahara, &
Takashi Morotomi
Hokkaido University
12. **REM sleep processing of auditory percep-
tual information learned in previous
wakefulness**
M. Atienza, J.L. Cantero, & R.M. Salas
Laboratory of Sleep and Cognition, Sevilla
13. **MMN reveals the temporal course of the
auditory perceptual learning consolidation**
M. Atienza & J.L. Cantero
Laboratory of Sleep and Cognition, Sevilla
14. **Effects of sequential and temporal probability
on mismatch negativity**
Merav Sabri & Kenneth Campbell
University of Ottawa
15. **Affective modulation of the electrocutaneous
startle reflex**
Michael Bears, Margaret M. Bradley &
Peter J. Lang
University of Florida
16. **Individual differences in defensive activation?**
Eleni Dimoulas, Margaret M. Bradley,
William M. Perlstein, & Peter J. Lang
University of Florida

- 17. Looming pictures: Effects of movement on affective startle modulation**
Jose Soler-Baillo, Margaret M. Bradley, Reinoud de Jongh, Teresa A. Ferguson, & Peter J. Lang
University of Florida
- 18. Psychophysiology in a simulated MR scanner**
Dean Sabatinelli¹, Andreas Keil², Jeffrey Fitzsimmons¹, Wayne King³, & Peter J. Lang¹
¹*University of Florida*, ²*University of Konstanz*, ³*Bell Laboratories*
- 19. Startle modality and size: Is a big startler always a big startler?**
Margaret M. Bradley, Farnaz Safi, & Peter J. Lang
University of Florida
- 20. Rapid affective pictures: Visual evoked potentials in high density EEG**
Markus Junghoefer, Margaret M. Bradley, & Peter J. Lang
University of Florida
- 21. Rapid affective pictures: An fMRI study**
Markus Junghoefer, Dean Sabatinelli, Margaret M. Bradley, & Peter J. Lang
University of Florida
- 22. fMRI analysis: Distributional clustering of voxel time series**
Qun Zhao, Jose C. Principe, Margaret M. Bradley, & Peter J. Lang
University of Florida
- 23. P3 response to an acoustic startle probe is modulated by emotional sounds**
Thomas Russmann¹, Margaret M. Bradley¹, Markus Junghoefer¹, Andreas Keil², & Peter J. Lang¹
¹*University of Florida*, ²*University of Konstanz*
- 24. Looking at facial expressions: Depression and facial EMG**
Denise M. Sloan, Eleni Dimoulas, Margaret M. Bradley, & Peter J. Lang
University of Florida

25. **Emotional arousal effects on distributed cortical activity revealed by high-density EEG**
William M. Perlstein, William T. Lowenthal, Markus Junghoefer, Margaret M. Bradley, & Peter J. Lang
University of Florida
26. **Affective influences on working memory-related prefrontal cortex activity**
William M. Perlstein, Margaret M. Bradley, & Peter J. Lang
University of Florida
27. **Blood pressure and beta-endorphin responses to stress predict pain**
David Sheffield & David S. Sheps
University of Florida
28. **Analysis of the cardiac defense response with the wavelet transform**
Maria Sanchez¹, Jaime Vila¹, Tamer Demiralp², Ahmet Ademoglu³, & John Polich⁴
¹*University of Granada*, ²*Istanbul University*, ³*Bogazici University*, ⁴*The Scripps Research Institute*
29. **Stimulus modality and the late components of the ERP: A spatiotemporal analysis**
Kevin M. Spencer¹ & John Polich²
¹*Brockton Veterans Affairs Medical Center, Harvard Medical School*, ²*The Scripps Research Institute*,
30. **Meta-analysis of P300 studies of schizophrenia**
Yang-Whan Jeon¹ & John Polich²
¹*The Catholic University of Korea*, ²*The Scripps Research Institute*
31. **Event-related potential assessment of alcoholism heritability**
Clarissa J. Reese & John Polich
The Scripps Research Institute
32. **Chocolate craving and ERPs**
Rebecca Gloria¹ & John Polich²
¹*University of California, San Diego*, ²*The Scripps Research Institute*
33. **P3 a assessment of tobacco smoking in “chippers” and “smokers”**
Melanie Haarer¹ & John Polich²
¹*University of Trier* ²*The Scripps Research Institute*

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34. **An event-related functional magnetic resonance imaging (fMRI) investigation of stimulus-response compatibility**
Edward L. Maclin¹, Monica Fabiani¹, Randy Buckner², & Gabriele Gratton¹
¹University of Missouri, Columbia, ²Washington University
35. **Cognitive processing of and affective responses to social expectancy violations: Evidence of affect before cognition**
Bruce D. Bartholow, Gabriele Gratton, & Monica Fabiani
University of Missouri, Columbia
36. **Encoding-related lateralization at test in word recognition**
Peter M. Wessels, Michael A. Stadler, Gabriele Gratton, & Monica Fabiani
University of Missouri, Columbia
37. **Optical responses in auditory cortex to standard and deviant stimuli: A replication**
Emily Wee, Kathy Low, Jeffrey Sable, Gabriele Gratton, & Monica Fabiani
University of Missouri, Columbia
38. **"Opt-cont" and "opt-3D": A software suite for the analysis and 3D reconstruction of the event-related optical signal (EROS)**
Gabriele Gratton
University of Missouri, Columbia
39. **Choice reaction time in parkinson's disease: Using the lateralized readiness potential (LRP) to understand response slowing**
Kathy Low¹ & Jeff Miller²
¹University of Missouri, Columbia, ²University of Otago
40. **Single trial analysis by joint diagonalization**
Jonathan W. King
University of Missouri, Columbia
41. **Warning interval effects on voluntary and reflexive reactions in Parkinson's disease**
Anita J. Sarno, Steven A. Hackley, Michael A. Meyer, & Mary I. Czarnecki
University of Missouri, Columbia

42. **Optical and electrical recordings of event-related activity in primary visual cortex during binocular rivalry**
Carmen de Labra¹, Steven A. Hackley², Gabriele Gratton², Fernando Valle-Inclan¹, Anita Sarno¹, & Antonio Alvarez³
¹University of La Coruna ²University of Missouri, Columbia, ³University of Santiago
43. **Sequential compatibility effects determine the simon effect**
Fernando Valle-Inclan & Carmen de Labra
University of La Coruna
44. **Selective and nonselective attentional effects on prepulse inhibition**
Diane L. Fillion & Albert B. Poje
University of Missouri, Kansas City
45. **Coherence of physiological, behavioral, and self-reported emotional responding to acoustic startle**
Cenita Kupperbusch, Nicole A. Roberts, Kimberly McCoy, Arlene King, & Robert W. Levenson
University of California, Berkeley
46. **Emotional expression and experience in Chinese Americans and Mexican Americans: A “startling” comparison**
Jose Soto, Rachel Ebling, & Robert W. Levenson
University of California, Berkeley
47. **More alike than different: The role of ethnicity in emotional responding to films**
Nicole A. Roberts¹, Lisa J.O. Flook², & Robert W. Levenson¹
University of California, Berkeley, ²University of California, Los Angeles
48. **Target P300 in a three-stimulus oddball task distinguishes amphetamine-choosing from non-choosing subjects**
Frances H. Gabbay, Connie C. Duncan, & Allan F. Mirsky
Uniformed Services University of the Health Sciences, NIMH, Section on Clinical and Experimental Neuropsychology

49. **Individual differences in the target P300 elicited during the continuous performance test are related to boredom susceptibility**
Frances H. Gabbay, Connie C. Duncan & Allan F. Mirsky
Uniformed Services University of the Health Sciences, NIMH, Section on Clinical and Experimental Neuropsychology
50. **Sex differences in information processing in a test of sustained attention: An event-related potential analysis**
Connie C. Duncan, Frances H. Gabbay
Uniformed Services University of the Health Sciences, NIMH, Section on Clinical and Experimental Neuropsychology
51. **Social fear and unconscious facial reactions to emotional facial expressions**
Ulf Dimberg
Uppsala University
52. **Induced gamma band activity is related to different aspects of gestalt perception in human EEG**
Thomas Gruber, Andreas Keil, & Matthias M. Mueller
University of Liverpool
53. **Transcranial magnetic stimulation-based investigation of motor cortex reorganization following repetitive training in brain-injured patients**
Annette Sterr¹, Dieter Schmalohr², Sabine Kölbel², & Susanna Freivogel²
¹University of Liverpool, ²Hegau Jugendwerk, Neurological Rehabilitation Center
54. **Estimation of cardiac vagal tone by ventilation-corrected respiratory sinus arrhythmia: Stability across postures and volume variations**
Thomas Ritz¹, Miriam Thoens², & Bernhard Dahme²
¹University of London, ²University of Hamburg
55. **Affective modulation of respiratory resistance: Effects of context and affective category**
Thomas Ritz¹, Saija Alatupa², Miriam Thoens², & Bernhard Dahme²
¹University of London, ²University of Hamburg

56. **The influence of active and passive stressors on the cardiovascular reactivity of patients with asthma**
Eva Kilgus & Bernd Dahme
University of Hamburg
57. **EDA as dependent variable in experiments on remote intention**
Rainer Schneider¹, Stefan Schmidt²,
Markus Binder¹, & Harald Walach²
¹*Institut fuer Grenzgebiete der Psychologie und Psychohygiene e.V.*,
²*Universitätsklinikum Freiburg*
58. **Procedure for the identification of electrodermal responses (EDRs) caused by irregularities in respiration**
Stefan Schmidt¹, Rainer Schneider²,
Markus Binder², Florian Schaefer³, &
Harald Walach¹
¹*University Hospital Freiburg*, ²*Institute fuer Grenzgebiete der Psychologie und Psychohygiene*, ³*University of Wuppertal*
59. **The effects of a caffeine placebo and suggestion on blood pressure, heart rate, wellbeing and cognitive performance: Analysis of difficulties with reproducing**
Harald Walach, Stefan Schmidt, Thomas Dirhold, & Sonja Nosch
University Hospital Freiburg
60. **Developmental functions for parameters of pro- and anti-saccadic task performance in subjects aged 6-28 years**
Christoph Klein
University of Freiburg
61. **Anti-saccades in children with attention-deficit hyperactivity disorder (ADHD)**
Christoph Klein, Anja Brandenbusch, &
Anke Raschke
University of Freiburg
62. **Topographical analyses of the development of the saccadic CNV in participants aged 7-18 years**
Christoph Klein¹, Patrick Berg², &
Endre Hafstad¹
¹*University of Freiburg*, ²*University of Konstanz*

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63. **Imagery-induced positive and negative emotions: Laterality of facial muscle responses?**
Rudolf Stark, Anne Schienle, & Dieter Vaitl
University of Giessen
64. **Dopaminergic system, latent inhibition and schizophrenia**
D. Vaitl, U. Bauer, & M. Zimmermann
University of Giessen
65. **Baroafferent effects on basic processes of attention as revealed by the omission response**
Gebhard Sammer, Ulrich Ott, Sylvia Dietrich, Kathrin Garmeister, Dieter Vaitl
University of Giessen
66. **The relationship of rhythmic body tilting, paced respiration, heart rate, and pupil diameter**
Gebhard Sammer, Ulrich Ott, & Dieter Vaitl
University of Giessen
67. **Anterior EEG asymmetry and disgust**
Anne Schienle, Rudolf Stark, & Dieter Vaitl
University of Giessen
68. **Activating the motivational system eliminates the autonomic learning deficit in schizophrenic patients**
Peter Kirsch¹, Martin Volz², & Dieter Vaitl¹
¹University of Giessen, ²Central Institute of Mental Health, Mannheim
69. **Anticipation of reinforcement or punishment activates motivational systems: the startle reflex modulation in schizophrenia outpatients and control subjects**
Martin Volz¹ & Peter Kirsch²
¹Central Institute of Mental Health, Mannheim, ²University of Giessen
70. **An examination of emotional processing and emotional expression in alexithymia**
Catherine Peasley-Miklus¹ & Scott R. Vrana²
¹Purdue University, ²Virginia Commonwealth University

- 71. Habituation of cardiovascular responses to anger imagery**
Margaret Lineberger¹, Scott R. Vrana², & Judy Conger¹
¹Purdue University, ²Virginia Commonwealth University
- 72. Magnitude and duration of cardiovascular response to and recovery from anger in vietnam veterans with and without post-traumatic stress disorder**
Scott R. Vrana¹, Jean C. Beckham^{2,3}, John C. Barefoot², Michelle E. Feldman³, John Fairbank², & Scott D. Moore^{2,3}
¹Virginia Commonwealth University, ²Duke University, ³Durham Veterans Affairs Medical Center
- 73. Self-focused attention effects on heart rate, blood pressure and heart rate variability**
Georgia Panayiotou¹ & Scott R. Vrana²
¹Intercollege Education/Psychology, ²Virginia Commonwealth University
- 74. Cardiac orienting to production effects in short radio promotional announcements**
Robert F. Potter
University of Alabama
- 75. Effects of valence and arousingness of radio messages on facial EMG, attention, skin conductance, & memory**
Robert F. Potter¹, Paul D. Bolls², & Annie Lang³
¹University of Alabama, ²Southern Illinois University at Edwardsville, ³Indiana University
- 76. Comparative assessment of two heart rate variability measures**
Israel Christie, Bruce H. Friedman, & Aimee K. Santucci
Virginia Polytechnic Institute and State University
- 77. Heart rate variability in anxiety and depression during rest and stroop tasks**
Aimee K. Santucci, Bruce H. Friedman, & Benjamin G. Pumphrey
Virginia Polytechnic Institute and State University

78. **Differences in emotional expression in hostile males**
Keryl A. Cosenzo & Joseph J. Franchina
Virginia Polytechnic Institute and State University
79. **Event-related brain potential measures of task set switching**
Natalie Phillips^{1,2}, Catherine Poulsen¹, & Norman Segalowitz¹
¹*Concordia University*, ²*Lady Davis Institute for Medical Research/Jewish General Hospital*
80. **Impact of working memory load on reading and listening to sentences: An ERP study**
Natalie Phillips^{1,2} & Miglena Grigorova¹
¹*Concordia University*, ²*Lady Davis Institute for Medical Research/Jewish General Hospital*
81. **Autonomic variables differentiate basic emotions elicited by Korean affective picture system**
Estate Sokhadze, Kyung-Hwa Lee, & Jin-Hun, Sohn
Chungnam National University
82. **Effects of music on physiological responses evoked by aversive visual stimulation**
Jin-Hun Sohn¹, Estate Sokhadze¹, Kyung-Hwa Lee¹, & Wolfram Boucsein²
¹*Chungnam National University*, ²*Wuppertal University*
83. **ERPs during comprehension of homographs in schizophrenia**
Dean F. Salisbury
Harvard Medical School & McLean Hospital
84. **Button pressing reduces P300 and changes its topography**
Dean F. Salisbury, Bret Rutherford, Martha E. Shenton, & Robert W. McCarley
Harvard Medical School & McLean Hospital
85. **Vocal, facial and verbal components of anger expression differentially detected by heart rate and blood pressure**
Aurora Torres
University of Alabama, Huntsville

86. **Self-report and autonomic differences during active coping tasks between women with and without posttraumatic stress disorder**
Gregory McHugo¹, Robert Kelsey², Matthew Friedman¹, Annmarie McDonagh-Coyle¹, & John Jalowiec¹
¹Dartmouth College, ²University of Tennessee, Memphis
87. **Effects of prior exposure and evaluative observation on the stability of cardiac reactivity to recurrent stress**
Robert M. Kelsey¹, Sidney R. Ornduff², Kathleen Soderlund³, & Carlotta M. Arthur⁴
¹University of Tennessee, Memphis ² University of Wyoming, ³University of North Texas, ⁴State University of New York, Stony Brook
88. **The relationship between blood pressure and perceived stress in postmenopausal women**
J.A. McCubbin, C. M. Whitaker, S. G. Helfer, & T. M. Price
Clemson University
89. **A comparison of polygraph data obtained from individuals involved in mock crimes and actual criminal investigations**
Dean Pollina, Andrew Dollins, Stuart Senter, Donald Krapohl, & Andrew Ryan
Department of Defense Polygraph Institute
90. **ERP evidence that working memory functions as a unitary process for "what-where" information**
Anthony Singhal^{1,2}, Elizabeth Pang², & Ross Hetherington²
¹York University, ²The Hospital for Sick Children
91. **ERP and behavioral effects of distractor variability on auditory selective attention**
Yunxia Tong & Robert D. Melara
Purdue University
92. **A convenient off-line method for detecting electrolyte bridges in multichannel ERP recordings**
Craig E. Tenke & Jürgen Kayser
New York State Psychiatric Institute