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**Poster Session IV: Sunday, October 22**

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1. **Persons with idiosyncratic word associations show abnormal attentional modulation of prepulse inhibition**  
Gary L. Thorne<sup>1</sup>, Michael E. Dawson<sup>1</sup>, & Anne M. Schell<sup>2</sup>  
*<sup>1</sup>University of Southern California, <sup>2</sup>Occidental College*
2. **Advantages of robust statistics in analysing psychophysiological data**  
Jonathan K. Wynn<sup>1</sup>, Gary L. Thorne<sup>1</sup>, Anne M. Schell<sup>2</sup>, Michael E. Dawson<sup>1</sup>, Mark McGee<sup>3</sup>, & Michael F. Green<sup>3,4</sup>  
*<sup>1</sup>University of Southern California, <sup>2</sup>Occidental College, <sup>3</sup>University of California, Los Angeles, <sup>4</sup>Department of Veterans Affairs VISN Mental Illness Research, Education, and Clinical Center*
3. **EDA measures as predictors of one-year social and work outcome in schizophrenia**  
Anthony Rissling<sup>1</sup>, Anne Schell<sup>2</sup>, Michael Dawson<sup>3</sup>, & Keith Nuechterlein<sup>1</sup>  
*<sup>1</sup>University of California, Los Angeles, <sup>2</sup>Occidental College, <sup>3</sup>University of Southern California*
4. **Early educational and health enrichment at age 3-5 years enhances autonomic and central nervous system arousal and orienting at age 11 years**  
Adrian Raine<sup>1</sup>, Peter H. Venables<sup>1</sup>, Cyril Dalais<sup>2</sup>, Kjetil Mellingen<sup>2</sup>, Chandra Reynolds<sup>1</sup>, & Sarnoff A. Mednick<sup>1</sup>  
*<sup>1</sup>University of Southern California <sup>2</sup>Child Health Unit, Mauritius*
5. **Relationship quality determines the effectiveness of social support on cardiovascular reactivity**  
Darcy Uno, Bert N. Uchino, & Timothy W. Smith  
*University of Utah*
6. **Relationship quality predicts ambulatory blood pressure during social interactions**  
Julianne Holt-Lunstad, Bert N. Uchino, & Timothy W. Smith  
*University of Utah*

7. **The association between social relationships and health: The impact of relationship quality when seeking support during positive and negative events on cardiovascular reactivity**  
Julianne Holt-Lunstad, Bert N. Uchino, & Timothy W. Smith  
*University of Utah*
8. **Hostility, support from friends, and cardiovascular reactivity in young women**  
Timothy W. Smith, Darcy Uno, Bert N. Uchino, & John M. Ruiz  
*University of Utah*
9. **Effects of deception on tonic autonomic arousal**  
A. Bell, P. Bernhardt, J. Kircher, & R. Packard  
*University of Utah*
10. **Effects of prior demonstrations of polygraph accuracy on outcomes of probable-lie and directed-lie polygraph tests**  
B. Bell, P. Bernhardt, J. Kircher, & R. Packard  
*University of Utah*
11. **Cardiovascular effects of tryptophan depletion/enhancement: Interactions with cynical hostility**  
Larry D. Jamner, Debbie Profant, & Carol K. Whalen  
*University of California, Irvine*
12. **Moderation of the relationship between social support and cardiovascular reactivity**  
Clayton J. Hilmert, James A. Kulik, & Nicholas Christenfeld  
*University of California, San Diego*
13. **Does involuntary auditory attention affect the speed of visual processing? A high-density ERP study**  
Wolfgang Teder-Sälejärvi, John McDonald, & Steven Hillyard  
*University of California, San Diego*
14. **Looking at sound: Involuntary auditory attention modulates neural processing in extrastriate visual cortex**  
John McDonald, Wolfgang Teder-Sälejärvi, Francesco Di Russo, & Steven Hillyard  
*University of California, San Diego*

15. **Out of sight, out of mente: An ERP study of code-switching**  
Eva M. Moreno, Kara D. Federmeier, & Marta Kutas  
*University of California, San Diego*
16. **Grammatical gender modulates semantic integration of a picture in a spanish sentence**  
Nicole Y.Y. Wicha, Elizabeth Bates, Eva Moreno, & Marta Kutas  
*University of California, San Diego*
17. **Electrophysiological correlates of emotion-induced recognition bias in individuals with and without anxiety disorders**  
Sabine Windmann, Zoha Sakhavat, & Marta Kutas  
*University of California, San Diego*
18. **Electrifying pictures: ERP investigations of hemispheric differences in picture processing**  
Kara D. Federmeier & Marta Kutas  
*University of California, San Diego*
19. **Multi-channel EEG assessment of gamma and theta band response suppression in schizophrenia**  
Brett A. Clementz & Laura D. Blumenfeld  
*University of California, San Diego*
20. **Gamma and theta band response and stimuli uncertainty**  
Stefanie K. Barber, Laura D. Blumenfeld, Jacqueline Dzau, & Brett A. Clementz  
*University of California, San Diego*
21. **Visual evoked response potentials in prosaccade and antisaccade paradigms**  
Sara E. Stewart, Jennifer E. McDowell, David Braff, & Brett A. Clementz  
*University of California, San Diego*
22. **Event-related brain response to literal and figurative language in left-handers**  
Seana Coulson<sup>1</sup>, Cyma Van Petten<sup>2</sup>, & Jonathan Folstein<sup>2</sup>  
*<sup>1</sup>University of California, San Diego, <sup>2</sup>University of Arizona*

- 23. Tolerance to the effects of alcohol on heart rate moderates the effects of alcohol on prepulse inhibition**  
J.E. McGeary, K.E. Hutchison, & A.L. Wooden  
*University of Colorado, Boulder*
- 24. Repression associated with a physiological risk factor for early death in metastatic breast cancer**  
Janine Giese-Davis<sup>1</sup>, Sandra Sephton<sup>2</sup>,  
Ron E. F. Duran<sup>3</sup>, & David Spiegel<sup>1</sup>  
<sup>1</sup>*Stanford University*, <sup>2</sup>*University of Louisville*,  
<sup>3</sup>*University of Florida, Coral Gables*
- 25. Quantifying states of relaxation with EEG and ECG: A comparison of biofeedback and aromatherapy**  
Rachel M. Ceballos<sup>1</sup>, Kelli Matthews<sup>1</sup>,  
Claudine Catledge<sup>1</sup>, & Mark W. Geisler<sup>1,2</sup>  
<sup>1</sup>*San Francisco State University*, <sup>2</sup>*University of California, San Diego*
- 26. Olfactory EEG alpha activity in response to wine essences**  
Mira Guzijan<sup>1</sup>, Rachel M. Ceballos<sup>1</sup>, &  
Mark W. Geisler<sup>1,2</sup>  
<sup>1</sup>*San Francisco State University*, <sup>2</sup>*University of California, San Diego*
- 27. Olfactory and trigeminal event-related brain potentials in the assessment of multiple sclerosis**  
Mark W. Geisler<sup>1,2</sup>, Andrea Dalve-Endres<sup>3</sup>,  
Christina B. Middleton<sup>3</sup>, & Claire Murphy<sup>2,3</sup>  
<sup>1</sup>*San Francisco State University*, <sup>2</sup>*University of California, San Diego*, <sup>3</sup>*San Diego State University*
- 28. Feedback effects on learned peripheral temperature regulation**  
Mark Kishiyama, Ross Tobia, & Theodore Steiner  
*San Francisco State University*
- 29. Neuropsychological correlates of electrophysiological functioning in schizophrenia**  
Shelley K. Fleming Ficek<sup>1,2</sup>, Daniel H. Mathalon<sup>3</sup>, William O. Faustman<sup>1,2</sup>, James A. Moses, Jr.<sup>1,2</sup>, Adolf Pfefferbaum<sup>3</sup>, & Judith M. Ford<sup>1,2</sup>  
<sup>1</sup>*Stanford University* <sup>2</sup>*Palo Alto Veterans Affairs Health Care System*, <sup>3</sup>*SRI International*

- 30. N400 and delusions in schizophrenia**  
Daniel H. Mathalon<sup>1</sup>, William O. Faustman<sup>2,3</sup>,  
& Judith M. Ford<sup>2,3</sup>  
*<sup>1</sup>SRI International, <sup>2</sup>Stanford University, <sup>3</sup>Palo Alto  
Veterans Affairs Health Care System*
- 31. Improving the clinical sensitivity of noninvasive  
assessment of cardiac vagal control**  
Frank H. Wilhelm<sup>1</sup>, Paul Grossman<sup>2</sup>,  
Alexander L. Gerlach<sup>1</sup>, & Walton T. Roth<sup>1</sup>  
*<sup>1</sup>Stanford University, <sup>2</sup>Hebrew Rehabilitative Center  
for the Aged*
- 32. Sympathetic-parasympathetic coactivation  
during touch**  
Frank H. Wilhelm, James J. Gross, Ajay S.  
Kochar, & Walton T. Roth  
*Stanford University*
- 33. The psychophysiology of negative cognitive bias  
in depression**  
Jonathan Rottenberg, Sadia Najmi, Frank H.  
Wilhelm, James J. Gross, & Ian H. Gotlib  
*Stanford University*
- 34. Crying in depression**  
Jonathan Rottenberg, Sadia Najmi, Frank H.  
Wilhelm, James J. Gross, & Ian H. Gotlib  
*Stanford University*
- 35. Autonomic perception and autonomic reality: Is  
there less to social anxiety than meets the eye?**  
Iris B. Mauss, Frank H. Wilhelm, Brian B.  
Jones, & James J. Gross  
*Stanford University*
- 36. The consequences of emotion suppression  
in a conflict conversation**  
Kelly M. McGonigal, Jane M. Richards,  
Frank H. Wilhelm, & James J. Gross  
*Stanford University*
- 37. The psychophysiology of blushing**  
Rebecca D. Ray, Jarek Baryeka, & James J.  
Gross  
*Stanford University*
- 38. Trait frontal alpha asymmetry and its  
relationship to the behavioral activation  
system (BAS)**  
James A. Coan & John J.B. Allen  
*University of Arizona*

39. **Vagal tone and directed facial actions depicting primary emotions**  
Anna E. Haluschak, James A. Coan, & John J.B. Allen  
*University of Arizona*
40. **Repetition priming using emotionally valenced pictures**  
Suzanne MacDhomhail, John J.B. Allen, & Heather Urry  
*University of Arizona*
41. **P3 amplitude does not distinguish true from false memories when subjects rate confidence in the deese paradigm**  
Ralf Mertens & John J. B. Allen  
*University of Arizona*
42. **Postmenopausal hormone replacement: Effects on vagal response to psychological versus physiological demand**  
Mary H. Burleson, Ryan L. Wright, Mary S. Baller, Chris F. Farr, Jeff F. Cole, Linda Mine, Katharine Kazaka, Christy Waldie, & Michelle Hart  
*Arizona State University West*
43. **Relationships between EEG power spectrum and the five-factor model of personality**  
F. Joseph McClernon & David G. Gilbert  
*Southern Illinois University, Carbondale*
44. **P300 attenuation fails to recover after 31 days of tobacco abstinence**  
David G. Gilbert & F. Joseph McClernon  
*Southern Illinois University, Carbondale*
45. **Painting pictures with radio: A study of the allocation of attention during imagery evoked by radio advertisements**  
Paul Bolls  
*Southern Illinois University, Edwardsville*
46. **An ERP study on the effect of stimulus compatibility upon the error detection processing in a go/no-go task**  
Nobuyoshi Iwaki<sup>1</sup>, Makoto Miyatani<sup>2</sup>, & Tamotsu Toshima<sup>2</sup>  
<sup>1</sup>*Japan Society for the Promotion of Science,*  
<sup>2</sup>*Hiroshima University*

47. **The effect of force parameter modifications on the CNV**  
Hiroaki Masaki<sup>1,2</sup>, Noriyoshi Takasawa<sup>3</sup>, & Katuo Yamazaki<sup>2</sup>  
*<sup>1</sup>Japan Society for the Promotion of Science, <sup>2</sup>Waseda University, <sup>3</sup>National Research Institute of Police Science*
48. **The CNV late wave composed of SPN and RP**  
Yasunori Kotani<sup>1</sup>, Shiho Hiraku<sup>2</sup>, Kazuhiro Suda<sup>1</sup>, & Yasutsugu Aihara<sup>3</sup>  
*<sup>1</sup>Tokyo Institute of Technology, <sup>2</sup>The University of Tokyo, <sup>3</sup>Tokyo Metropolitan University*
49. **Potential mechanisms through which loneliness affects health**  
L. Elizabeth Crawford<sup>1</sup>, Louise C Hawkley<sup>2</sup>, Ray B. Kowalewski<sup>2</sup>, John M. Ernst<sup>3</sup>, Mary H. Burleson<sup>4</sup>, Gary G. Berntson<sup>2</sup>, & John T. Cacioppo<sup>1</sup>  
*<sup>1</sup>University of Chicago, <sup>2</sup>Ohio State University, <sup>3</sup>Illinois Wesleyan University, <sup>4</sup>Arizona State University, Phoenix*
50. **Putting the negative in context: ERPs to affectively consistent and inconsistent pictures**  
Jeff T. Larsen<sup>1</sup> & John T. Cacioppo<sup>2</sup>  
*The Ohio State University<sup>1</sup> & The University of Chicago<sup>2</sup>*
51. **Brain differences in the satisfied, unsatisfied, and mildly depressed: Incorporating cognition and attributions in determining ERP differences**  
Mallery D. Gilbert & Jim H. Patton  
*Baylor University*
52. **Event-related potential correlates of explicit awareness during sequence learning**  
Stephen M. Malone  
*University of Minnesota*
53. **P300 amplitude at age 17 predicts the subsequent development of substance use disorders**  
Stephen M. Malone, William G. Iacono, & Scott R. Carlson  
*University of Minnesota*

54. **A community-based study of P300 amplitude in adolescent males with substance and externalizing psychopathology**  
Scott R. Carlson, William G. Iacono, & Stephen M. Malone  
*University of Minnesota*
55. **Culture and the coherence of emotion**  
Yulia Chentsova-Dutton & Jeanne L. Tsai  
*University of Minnesota*
56. **Within and between session reliability of P50 gating**  
William P. Hetrick  
*Indiana University*
57. **Eye blink startle response and personality characteristics**  
Brian F. O'Donnell, Michael E. Eakright, & Stacey B. Sandusky  
*Indiana University*
58. **Event-related potential correlates to creativity**  
Jonna Kwiatkowski & Colin Martindale  
*University of Maine*
59. **ERP evidence for unconscious aversive conditioning with unpleasant semantic stimuli**  
Edward Bernat & Howard Shevrin  
*University of Michigan*
60. **Analysis of joint time-frequency data using PCA: Multiple measures of P300**  
Edward Bernat, William Williams, & Howard Shevrin  
*University of Michigan*
61. **Altered sensory cortical processing results in reduced higher-level information operations in persons with alcoholism risk**  
S.L. Schandler<sup>1,2</sup>, M.J. Cohen<sup>2</sup>, J.A. Turner<sup>2</sup>, J.S. Lee<sup>2</sup>, & W.L. Leach<sup>2</sup>  
<sup>1</sup>*Chapman University*, <sup>2</sup>*Long Beach Veterans Affairs Healthcare System*
62. **Alcoholism and EEG arousal: Effects of family history and psychological predisposition under positive and negative emotional stimulation**  
Barry Smith<sup>1</sup>, Mark Mann<sup>1</sup>, Jeffrey Wilken<sup>2</sup>, & Kenneth Tola<sup>1</sup>  
<sup>1</sup>*University of Maryland*, <sup>2</sup>*Washington Veterans Affairs Hospital Center*

63. **The effect of cueing on presaccadic ERP for pro- and anti-saccades**  
John E. Richards  
*University of South Carolina*
64. **The effect of attention on the recognition of brief visual stimuli in infants: An ERP study**  
John E. Richards  
*University of South Carolina*
65. **Frontal EEG asymmetry and candidate genes: Preliminary results**  
Andrey Anokhin, Andrei Vedeniapin, William Wu, Alison Goate, & John Rohrbaugh  
*Washington University School of Medicine*
66. **Social-psychophysiological compliance and team performance**  
Robert Henning<sup>1</sup>, Wolfram Boucsein<sup>2</sup>, Renee Fekieta<sup>1</sup>, Monica Gil<sup>1</sup>, Quian Li<sup>1</sup>, & James Pratt<sup>1</sup>  
<sup>1</sup>*University of Connecticut*, <sup>2</sup>*University of Wuppertal*
67. **Antecedents of stress and their physiological consequences**  
Tamera R. Schneider  
*Yale University*
68. **Lifetime years of cocaine use and baseline depressive symptomatology predict subjective, but not hemodynamic responses to doses of cocaine**  
Katherine Karlsgodt, David R. Gastfriend, Hans C. Breiter, & Igor Elman  
*Massachusetts General Hospital*
69. **Effects of the feint trial and the psychological set on CNV**  
Shiho Hiraku<sup>1</sup> & Yasunori Kotani<sup>2</sup>  
<sup>1</sup>*University of Tokyo*, <sup>2</sup>*Tokyo Institute of Technology*
70. **Relationship between personality traits and GSR of college students**  
Yiwen Xiang<sup>1</sup>, Kele Yan<sup>2</sup>, Yunqin Lu & Xuguang Yang<sup>3</sup>  
<sup>1</sup>*Hunan Normal University*, <sup>2</sup>*Hebei Teacher's University* <sup>3</sup>*Hunan Chinese Traditional Medicine Institute*
71. **The CNV response to emotional in- and out-group stimuli**  
Pearl Chiu, Patricia Deldin, & Nalini Ambady  
*Harvard University*

- 72. Processing of emotional faces in depressed and non-depressed individuals: A slow wave ERP analysis**  
Christen M. Deveney & Patricia J. Deldin  
*Harvard University*
- 73. Differential cognitive processing of valenced information in depression as measured by ERPs**  
Shanthi Naidu, Patricia J. Deldin, Christen Deveney, & Avgusta Shestyuk  
*Harvard University*
- 74. Working memory processing of valenced self-relevant information in major depression**  
Avgusta Shestyuk, Patricia J. Deldin, Christen Deveney, & Shanthi Naidu  
*Harvard University*
- 75. Contextual processing in schizophrenia and schizoaffective disorder**  
Brooks Casas<sup>1</sup>, Patricia J. Deldin<sup>1</sup>, Brendan Maher<sup>1</sup>, Theo Manschreck<sup>1,2</sup>, Caitlin Kantrowitz-Rollins<sup>1</sup>, Deborah Redmond<sup>2</sup>, & Melissa Rosato<sup>2</sup>  
<sup>1</sup>*Harvard University*, <sup>2</sup>*John C. Corrigan Mental Health Center*