

**7<sup>th</sup> INTERNATIONAL CONFERENCE ON PSYCHOPHYSIOLOGY IN ERGONOMICS**  
**PIE 2008**

**Sunday, September 21, 2008**

8:30 AM - 5:30 PM

Odets Room, New York Marriott Marquis Times Square

**Program**

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**08:30-08:50 Registration**

**08:50-09:00 Welcome and Opening Remarks**

**09:00-11:00 Session 1: Psychophysiology and Driving**  
**Session Chair: Claire Petit**

**Comparing stopping at traffic lights and stop signs using electrodermal activity indicators**

Clarion A.<sup>1,3</sup>, Ramon C.<sup>2</sup>, Petit C.<sup>1</sup>, Collet C.<sup>3</sup>

<sup>1</sup>Renault, Ergonomics, Perception and Human Factors, <sup>2</sup>Nanotechnologies Institute, <sup>3</sup>Claude Bernard University

**Mental load attached to cruise control use**

Ramon C.<sup>1</sup>, Clarion A.<sup>2,4</sup>, Petit C.<sup>2</sup>, Dittmar A.<sup>1</sup>, Bourgeay J.P.<sup>3</sup>, Collet C.<sup>4</sup>

<sup>1</sup>Nanotechnologies Institute, <sup>2</sup>Renault, Ergonomics, Perception and Human Factors, <sup>3</sup>By-consulting, <sup>4</sup>Claude Bernard University

**Detecting Driver's Intent to Change Lanes Under Cognitively Distracting Conditions**

Huiping Zhou, Makoto Itoh, and Toshiyuki Inagaki

University of Tsukuba

**A Psychophysiological and Driving Performance Evaluation of Focal and Ambient Visual Processing Demands in a Driving Simulation Task**

John K. Lenneman<sup>1,2</sup>, Joseph V. Lenneman<sup>2</sup>, Nicholas Cassavaugh<sup>2</sup>, and Richard W. Backs<sup>2</sup>

<sup>1</sup>General Motors R&D and Planning, <sup>2</sup>Central Michigan University

**11:00-11:30 Coffee Break**

**11:30-12:30 Session 2: Psychophysiology in Aviation**

**Session Chair: Wolfram Boucsein**

**Assessment of Workload During an Aviator Selection Test Battery**

Jason D. Moss<sup>1</sup>, Alexander D. Walker<sup>1</sup>, Jeffrey B. Phillips<sup>2</sup>, Eric R. Muth<sup>1</sup>

<sup>1</sup>Clemson University, <sup>2</sup>Naval Aerospace Medical Research Laboratory

**Do psychophysiological changes during simulated flight exercises indicate more than workload?**

K. Wolfgang Kallus

Karl-Franzens-University

**12:30-01:30 Luncheon**

**01:30-02:00 Presidential Address**

**Cardiovascular Autonomic Space and Driving Research**

Richard W. Backs  
Central Michigan University

**02:00-03:00 Session 3: Psychophysiology in Display Design and Training**

**Session Chair: Shinji Miyake**

**Exploration the Factors Affecting Report Order on Multidimensional Stimuli Identification:  
An Event-Related Brain Potential Study**

I-Hsuan Shen<sup>1</sup> and Kong-King Shieh<sup>2</sup>

<sup>1</sup> Chang Gung University, <sup>2</sup>National Taiwan University of Science and Technology

**A Framework for Validating Adaptive Instructional Trainers Using Psychophysiological Measures**

C. M. Fidopiastis<sup>1</sup>, A. A. Vartak<sup>1</sup>, C. A. Bowers<sup>1</sup>, D. M. Nicholson<sup>1</sup>, & D. D. Schmorrow<sup>2</sup>

<sup>1</sup>Institute for Simulation and Training, University of Central Florida, <sup>2</sup>Office of Naval Research

**03:00-03:30 Coffee Break**

**03:30-05:00 Session 4: Psychophysiology in Emotion, Culture, and Responses to Alcohol**

**Session Chair: Robert Henning**

**Psychophysiological Assessment of Emotion-Eliciting Properties of Fabric Care Formulations**

Wolfram Boucsein, Wolf Eisfeld and Florian Schaefer  
University of Wuppertal

**Cognitive ergonomics, culture and the creative process: contributions to learning**

Roseli Amado da Silva Garcia, Lucília Panisset Travassos, and Dr. Francisco Antônio Pereira Fialho

Universidade Federal de Santa Catarina

**The Effects of Alcohol - Physiological, Subjective and Behavioral Responses -**

Shinji Miyake<sup>1</sup>, Shimpei Yamada<sup>1</sup>, Hidenori Togami<sup>1</sup>, Chi'e Soga<sup>2</sup>, Yasuhiko Takae<sup>3</sup>, Nobuyuki Kuge<sup>3</sup> and Tomohiro Yamamura<sup>3</sup>

<sup>1</sup>University of Occupational and Environmental Health, <sup>2</sup>Kyushu Institute of Technology, <sup>3</sup>Nissan Motor Co., Ltd.

**05:00-05:30 PIE Business Meeting**