

Sunday, October 10

Sunday, 10:00 AM-12:00 PM

Hall Machado/Picasso

Symposium 16

Applied psychophysiology: How can physiological measures help us avoid vehicular accidents?

Chair: John A. Stern
Washington University

Relationship between personal state ratings and eyeblink parameters recorded with contact-free infrared sensor

P. Caffier, P. Ullsperger, & U. Erdmann
Federal Institute for Occupational Safety and Health

Saccadic and eyelid movement parameters detected by EOG as signs of fatigue

N. Galley & L. Galley
University of Koeln

Operative value of EEG recording during driving simulation

A. Muzet, T. Pebayle, & J. Roge
CEPA - CNRS

Drivers ANS activity during emergency braking situations

C. Petit & A. Priez
Renault Research Department

Electrodermal tonic level variations associated with thermo-vascular and cardio-respiratory recordings as reliable indices for the detection of drowsiness in automobile drivers

C. Collet, G. Delhomme, A. Dittmar, S. Khardi, & E. Vernet-Maury
Universite Claude Bernard

Discussant: John A. Stern
Washington University

Sunday, 10:00 AM-12:00 PM

Hall Manuel de Falla

Symposium 17

Determining spatial and temporal components of the brain dynamics

Chair: Olivier Bertrand
INSERM U280

Combined use of MEG and fMRI

Risto Ilmoniemi, Antti Korvenoja, &
Hannu J. Aronen
Helsinki University Central Hospital

FMRI constrained source analysis: A new approach to the brain dynamics underlying deviancy and novelty processing

Axel Mecklinger & Bertram Opitz
Max-Planck-Institute of Cognitive Neuroscience

Independent components of early visual event-related brain dynamics

Scott Makeig^{1,2}, Jeanne Townsend²,
Tzyy-Ping Jung³, & Terrence J.
Sejnowsk^{2,3}
¹Naval Health Research Center, San Diego, ²University of California, San Diego, ³Howard Hughes Medical Institute and The Salk Institute

Another approach to brain functions, another view to EEG: Gamma oscillations

Olivier Bertrand, Catherine Tallon-Baudry, Minna Huotilainen, Catherine Fischer, & Jacques Pernier
INSERM U280