

## Sunday, October 10

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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*

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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<sup>1,2</sup>, Jeanne Townsend<sup>2</sup>,  
Tzyy-Ping Jung<sup>3</sup>, & Terrence J.  
Sejnowsk<sup>2,3</sup>  
*<sup>1</sup>Naval Health Research Center, San Diego, <sup>2</sup>University of California, San Diego, <sup>3</sup>Howard 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*