



Meeting of the SOCIETY OF APPLIED NEUROSCIENCE

www.applied-neuroscience.org



in collaboration with
COST B27 Action: Electric Neuronal Oscillation & Cognition
May 7th – 11th Seville, Spain

<http://san-seville2008.unicongress.org/>

Invited Speakers

Andrew C. Papanicolaou (Magnetoencephalography)
Georg Northoff (fMRI)
Roy John (QEEG)
Arne Dietrich (Creativity, hypofrontality and exercise)
Juri Kropotov (ADHD)
Christa Neuper (NIRS)
Thomas Elbert (PTSD)
José M. Domínguez-Roldán (Cerebral Death)
Linas A. Bieliauskas (Cognitive Reserve and Aging)
Leslie Prichep (Dementia)
Francisco Murillo-Cabezas (Neuroimaging in ICUs)
Eric Vermetten (PTSD)

Co-Chairs SAN'08

José León-Carrión
John Gruzelier

Local Steering Committee

Juan Francisco Martín-Rodríguez
Jesús Damas-López
Juan Manuel Barroso y Martín

Wednesday May 7th 2008

Time				
10.00	10.00 – 14.00 hr. Workshop <i>Biofeedback Platform (NeuroBird) for posture & equilibrium disorders</i> Montserrat Altemir, Juan M. Barroso & Umberto León-Domínguez	10.00-18.00 hr. SAN Accreditation Module <i>QEEG hands-on recording, data analysis and applications</i> Tony Steffert & Tomas Ros	10.00-18.00 hr. SAN Accreditation Module <i>Quantitative EEG and event related potentials as biological markers of brain function and dysfunction</i> Juri Kropotov	10.00 – 14.00 hr. SAN Accreditation Module <i>Neurofeedback hands-on introduction</i> Lesley Parkinson & Beverly Steffert
10.30				
11.00				
11.30				
12.00				
12.30				
13.00				
13.30				
14.00	14.00 – 16.00 Lunch Break			
14.30				
15.00				15.00 - 20.00 hr. Workshop <i>Multivariate Whole-Head approaches to EEG assessment training + Tele-Neurofeedback with special application of real-time norm-training</i> Tom Collura & Doerte Klein
15.30				
16.00		<i>QEEG hands-on recording, data analysis and applications (cont.)</i> (Tony Steffert & Tomas Ros)	<i>Quantitative EEG and event related potentials as biological markers of brain function and dysfunction (cont.)</i>	
16.30				
17.00				
17.30				
18.00	18.00 – 20.00hr. Workshop <i>SAN Education Track</i> Lesley Parkinson, Beverley Steffert & Andreas Müller		18.00 – 20.00 hr. SAN Accreditation Module <i>Psychopharmacology & EEG</i> Tanju Surmeli	
18.30				
19.00				
19.30				

Thursday May 8th 2008

Time				
08.00	8.00 hr. Registration desk open			
08.30				
09.00	9.00 - 9.45 hr. Opening welcome			
09.30	José León-Carrión Mayor of Seville Excmo. D. Alfredo Sánchez Monteserín SAN President John Gruzelier President of COST ENOC Jordan Pop-Jordanov			
	9.45 – 10.30 hr. Invited Speaker I			
10.00	Eduardo Punset (TBC, Title TBC)			
10.30	10.30 – 11.00 hr. Coffee Break and Poster Session			
11.00	Symposium I: Neurofeedback for ADHD: State of the Evidence Chair & Organiser: Ute Strehl University of Tübingen	11.00 – 13.00 hr. Workshop <i>BrainMaster Technical Workshop</i> Tom Collura	Symposium II: Neurorehabilitation Organiser: José León-Carrión University of Seville <i>Outcome Studies in Neurorehabilitation</i> José León-Carrión, Spain <i>Vegetative state and rehabilitation: Italian guidelines</i> Roberto Rago, Italy <i>Rivastigmine treatment in cognitive and behavioral deficits after Traumatic Brain Injury</i> Claudio Perino, Italy	
11.30	<i>Long term effects after feedback of slow cortical potentials and of theta-beta-amplitudes in children with ADHD</i> Ute Strehl, Germany			
12.00	<i>Neurofeedback training of SCP in ADHD-specificity</i> Renate Drechsler & Daniel Brandeis, Switzerland <i>Neurofeedback in children with attention deficit/hyperactivity disorder: A randomised controlled multisite study</i> Petra Studer, Germany			
12.30	<i>Does Neurofeedback specifically improve impulsivity in ADHD? - Evidence from two prospective randomized studies</i> Martin Holtmann, Germany			
13.00	Invited Speakers II			
13.30	Christa Neuper & Gert Pfurtscheller: <i>The Role of Brain Oscillations in Brain Computer Interface (BCI)</i> Graz University of Technology			

14.00	Lunch		14.00 – 18.00 hr. Workshop <i>Hands-on Computerized neuropsychological testing</i> Jesús Damas-López, Fernando Machuca-Murga, Juan M. Barroso y Martín & José León-Carrión University of Seville Center for Brain Injury Rehabilitation (C.RE.CER)	
14.30				
15.00	SAN Support Think-Tank CR			
15.30				
16.00	Symposium III: ADHD: Cognitive Neuroscience Chair: Andreas Muller University of Tübingen <i>Endophenotypes of ADHD in Children and Adults</i> Andreas Müller, Switzerland Roy John, USA (Title TBC) Guiseppe Chiarenza, Italy (Title TBC) 17.30 <i>Attention-arousal correlation from classical and quantum perspective</i> Jordan Pop-Jordanov, Macedonia	Symposium IV: Application of fNIRS in Biomedicine Chair: Banu Onaral Drexel University Kurtulus Izzetoglu, USA (Title TBC) Banu Onaral, USA (Title TBC) José León-Carrión, Spain (Title TBC) Christa Neuper, Austria (Title TBC)		
16.30				
17.00				
17.30				
18.00	Poster Session	18.00 – 20.00 hr. Workshop <i>Experienced-based Dutch & SAN neurofeedback & QEEG Training Curriculum</i> Berrie Gerrits & Wytze van der Zwaag Psychologenpraktijk Gerrits	18.00 – 20.00 hr. Workshop <i>Clinical Application of the Neurological Aspects of Lenses</i> Deborah Zelinsky The Mind-Eye Connection	
18.30	Invited Speaker III Georg Northoff: <i>Prefrontal Cortical Function during Perception and Judgment of Emotions in Depression</i> Otto-Von-Guericke University Magdeburg			
19.00				
19.30	Special Presentation José León-Carrión: <i>Infrascanner: a New Tool for Detecting Intracranial Haematomas in Situ</i> University of Seville			
20.00				
20.30				
21.00	21:00 hr. Palace Reception			

Friday May 9th 2008

Time						
09.00	9.00 – 09.50 hr. Invited Speaker IV					
09.30	Leslie Prichep: <i>QEEG prediction of senile dementia</i> New York University Medical Center					
10.00	<p>09.50 – 11.50 hr. Symposium V: <i>Neurofeedback & Performing Arts:</i> <i>Controlled Studies</i> Chair: John Gruzelier Goldsmith University of London <i>Alpha/theta versus SMR training at the Royal Academy of Dramatic Art.</i> John Gruzelier, Tony Steffert, Joseph Leach & Trevor Thompson, UK <i>Alpha/theta versus heart rate variability coherence training and contemporary dance performance.</i> Trevor Thompson, Tony Steffert, Emma & John Gruzelier, UK <i>Effects of EEG-Biofeedback training on professional singing performances</i> Boris Kleber ,John Gruzelier & Niels Birbaumer, Germany <i>Alpha/theta versus SMR training for novice singers/advanced instrumentalists.</i> Joseph Leach, Patricia Holmes, Linda Hirst & John Gruzelier, UK</p>	<p>09.50 – 11.50 hr. <i>Symposium VI: Cognitive Impairment</i> Chair: Lesley Parkinson Brainhealth, Diagnostic Clinic <i>Preliminary EEG and sMRI findings in Five South African Cases of Urbach-Wiethe</i> Barak Morgan, South Africa <i>Cognitive impairment evaluated with a clustering procedure and psychophysiological measures in differing Multiple Sclerosis clinical subgroups</i> Javier J. Gonzalez-Rosa, Spain <i>Neuropsychological assessment of attention in children with spina bifida and hydrocephalus</i> Gabriel G. de la Torre, Spain <i>A Theoretical Model and a Clinical Approach: Individually Optimized</i> Siegfried Othmer, USA</p>	<p>09.50 – 11.50 hr. <i>Symposium VII: New Approaches I</i> Chair: Jordan Pop-Jordanov Macedonian Academy of Sciences and Arts <i>Early human vision as revealed by MEG</i> Selma Supek, Croatia <i>Cortical Networks Activation for Causal Inferences: An fMRI Investigation</i> Jose A. León Cascón, Spain <i>Neurological organization and developmental rate increase</i> María José Álvarez Alonso, Spain <i>Generating of special visual stimuli for neurofeedback</i> Olga Grechko, Israel <i>VR-assisted SMR neurofeedback.</i> Tony Steffert, Trevor Thompson, Joseph Leach & John Gruzelier, UK</p>			
10.30						
11.00						
11.30						
12.00	11.50 – 12.20 hr. Coffee Break & Poster Session					
12.30	12.20 – 13.10 hr. Invited Speaker V Arne Dietrich: <i>The Neuroscience of Creativity</i> American University of Beirut					
13.00	13.10 – 14.00 hr. Invited Speaker VI					
13.30	Juri Kropotov: <i>ERP-based independent components as biological markers of ADHD</i> Institute of the Human Brain of Russian Academy of Sciences, Norwegian University of Science and technology					

14.00	14.00-16.00 hr. Lunch		
14.30			
15.00	SAN ANNUAL GENERAL MEETING		
15.30			
16.00	16.00 – 18.00 hr. Symposium VIII: EEG Correlates & Learned Control Chair: Juri Kropotov Institute of the Human Brain of Russian Academy of Sciences, Norwegian University of Science and technology <i>Comparison of event-related desynchronisation and synchronisation spatio-temporal patterns during a response inhibition task in healthy controls and children with Fetal Alcohol Spectrum Disorder (FAS)</i> Colin Andrew, South Africa <i>Increase of beta and gamma bands of EEG in multiple sclerosis patients</i> Manuel Vázquez, Spain <i>Age-related alpha activity change differs for males and females and for low and high alpha frequency EEG patterns</i> Olga Bazanova, Russia <i>Differences in SMR amplitude after feedback with consonant and dissonant sounds</i> Marinus Breteler, The Netherlands <i>Active visual flicker training for neurotherapy of mental diseases with EEG alpha activity deficit</i> Alexander Kaplan, Russia	16.00 – 18.00 hr. Symposium IX: Brain Computer Interfaces Chair: Crista Neuper Graz University of Technology <i>Navigation BCI based on Touch Evoked Potentials</i> Jan van Erp, The Netherlands <i>Comparison of Discrete-trial based SMR, SCP and GSR Training and the Interrelationship Between these Measures: Implication for BCI and NFB</i> Desiree Spronk, The Netherlands <i>Neuroscience and User Interfaces: Symbiosis Beyond BCI</i> Jan van Erp, The Netherlands <i>Stroke and BCI</i> Ander Ramos & Neils Birbaumer, USA and Germany <i>fMRI and BCI</i> Andrea Caria, Randa Sitaram & Niels Birbaumer, Germany	16.00 – 18.00 hr. Workshop <i>Hands-on Transcranial Doppler Sonography</i> José María Domínguez-Roldán University Hospital Virgen del Rocío
16.30			
17.00			
17.30			
18.00	18.00 – 18.30 hr. Coffee Break & Poster Session		
18.30	18.30 – 19.15 hr. Invited Speaker VII		
19.00	Andrew C. Papanicolaou: <i>Clinical Uses of Magnetoencephalography: an Overview</i> The University of Texas		
19.30	19.15 – 20.00 hr. Invited Speaker VIII Francisco Murillo-Cabezas : <i>Neuroimaging & ICUs</i> Univerisity Hospital Virgen del Rocío, Seville		
20.00			
20.30			
21.00	21.00 hr. Andalusian Alfresco Dinner (TBC)		

Saturday May 10th 2008

Time				
09.30	Invited Speaker IX			
10.00	Eric Vermetten: <i>Windows of Opportunities in PTSD Neuroscience Research</i> University Medical Center, Utrecht			
10.30	Symposium X: <i>Controlled Optimal Performance Studies</i> Chairs: John Gruzelier Goldsmith University of London <i>Biofeedback Modalities for Better Achievement in High School Students</i> Nada Pop-Jordanova, Macedonia <i>The Effectiveness of Neurofeedback for Improving Attention</i> Alexander Logemann, The Netherlands <i>Optimising Microsurgical Skills with EEG-Neurofeedback</i> Tomas Ros, UK <i>Alpha-activity fluctuations in various hormonal states and associated with them musical performance proved differently in the opposite individual alpha peak frequency groups</i> Olga Bazanova, Russia	Symposium XI: <i>Advances in Acquired Brain Injury</i> Chair: José León-Carrión University of Seville <i>QEEG indexes for predicting recovery</i> (Speaker TBC) <i>Advances in rehabilitation of posture and equilibrium</i> (Speaker TBC) <i>Rehabilitation of memory in Brain Injury</i> (Speaker TBC) <i>The use of Citicholine in patients with Acquired Brain Injury</i> (Speaker TBC)	10.30-14.00 hr. Workshop <i>Application of the HBI normative database for diagnosis and neurotherapy with ADHD children</i> Andreas Müller, Switzerland	
11.00				
11.30				
12.00				
12.30	12.30 – 14.30 hr. COST B27 MANAGEMENT John Gruzelier SAN President Jordan Pop-Jornadov President of COST ENOC	Coffee Break & Poster Session		
13.00				
13.30				
14.00				
14.30	14.00 – 16.00 hr. Lunch			
15.00				
15.30				

16.00	<i>Optimal Performance Curriculum Roundtable</i> Chairs: John Gruzelier & David Vernon	Symposium XII: Blast-Induced Brain Injury: The Challenges in Defining Mechanisms and Diagnosis and treatment Strategies Chair: Maria Mayorga US Army <i>Science of blast-induced injury and proposed mechanisms of brain injury</i> Maria Mayorga, USA <i>Traumatic brain injury in U.S. Military Personnel: diagnosis, protection and treatment</i> Ronald Riechesr, USA <i>Rehabilitation of traumatic brain-injury military and veteran personnel</i> Karen Schwab, USA <i>Mechanisms of blast-induced brain injury in large and small animal models</i> Annette Saljo, Sweden	Symposium XIII: New Approaches II Chair: Nada Pop-Jordanova Macedonian Academy of Sciences and Arts <i>Multivariate proportional EEG biofeedback using live Z scores</i> Thomas Collura <i>Peripheral Biofeedback for Therapy of Stuttering Persons</i> Wlodzimierz Klonowski, Poland <i>A biofeedback system based on measurement of CO2 saturation</i> Robert Stepien, Poland <i>QEEG based rTMS treatment for depression: Efficacy and Treatment Effects on QEEG and Neuropsychology</i> Martijn Arns, The Netherlands	
16.30	Goldsmith University of London & Canterbury Christ Church University John Gruzelier, UK David Vernon, UK Arne Dietrich, Lebanon Juri Kropotov, Russia			
17.00	Olga Bazanova, Russia Nada Pop-Jordanova, Macedonia Giancarlo Mirmillo, Italy Siefried Othmer, USA			
17.30				
18.00	18.00 – 18.30 hr. Coffee Break & Poster Session			
18.30	18.30 - 19.15 hr. Invited Speaker XI			
19.00	Roy John: <i>Consciousness: A Theory and Clinical Application</i> New York University			
19.30	19.15 - 20.00 hr. Invited Speaker XII José María Domínguez-Roldán: <i>Diagnosis of Cerebral Death</i> University Hospital Virgen del Rocío			
20.00				
20.30				
21.00	21:00 Conference Gala Dinner			

Sunday May 11th 2008

Time				
09.00	Invited Speakers X			
	Thomas Elbert: <i>Treatment of Tinnitus, derived from basic neuroscience</i> University of Konstanz			
09.30	Thomas Elbert & Maggie Schauer: <i>Psychophysiology of the defence cascade – Implications for the treatment of Post-Traumatic Stress Disorder (PTSD) and dissociative disorders</i> University of Konstanz			
10.00	Consciousness Roundtable Chair: José León-Carrión University of Seville José León-Carrión, Spain Roy John, USA Andrew C. Papanicolaou Georg Northoff, Germany José M. Domínguez-Roldán, Spain	Symposium XIV: Controlled Treatment Studies Chair: Soren Andersen Mental Fitness & Forkningscenter, Denmark <i>The Impact of Neurofeedback Vs. Biofeedback in Insomnia Patients: A Preliminary Study</i> Aisha Cortoos, Belgium <i>The Effects of Neurofeedback in Dyslexia</i> Sabine de Ridder, The Netherlands <i>QEEG based rTMS treatment for depression: Efficacy and Treatment Effects on QEEG and Neuropsychology</i> Martijn Arns, The Netherlands <i>Inter-Hemispheric and Lateralized Frequency-Optimized Bipolar Training</i> Siegfred Othmer, USA <i>Post WISC-R and TOVA Improvement with QEEG Guided NF Training in Mentally Retarded: 23 Cases</i> Tanju Sürmeli, Turkey		
10.30				
11.00				
11.30				
12.00	Coffee Break			
12.30	Invited Speaker XIII. Closing Lecture			
13.00	Linas Bieliauskas: <i>Implications of age-related cognitive and sensory changes for functional performance</i> University of Michigan Medical Center			
13.30	Conference Close José León-Carrión John Gruzelier			