



International C.I.A.N.S. Conference

*October 19 – 20, 2009
Prague, Czech Republic*

Program

General information

ORGANIZING COMMITTEE

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Abstracts published by the Institute of Normal and Pathological Slovak Academy of Sciences and St. Elisabeth University College of Health and Social Work in:

Acivitas Nervosa Superior Rediviva – Higher Brain Functions – International Journal of Integrated Neuroscience, Volume 51 – Issue 1-2 – 2009, pp. 87-97

Affiliated Institutions:

- Neuroscience Institute, State University of New York, USA
- Institute of Neuroendocrinology, Health Science Centre, University of Texas, San Antonio, TX, USA
- Netherlands Institute for Brain Research, Amsterdam, The Netherlands
- Neuroendocrine Unit, French National Research Center, CNRS, Paris, France
- Associazione Italiana di Analisi e Modificazione del Comportamento e Terapia Comportamentale e Cognitiva, Milan, Italy

Monday, October 19, 2009

12,00 – 13,00 Kukleta M. **Opening CIANS conference**
Horvath M. **History of CIANS**

Animal neurophysiological research

Chairperson: Surina N.M.

13,00 – 13,20 **INTERCONNECTION BETWEEN AUDIOGENIC EPILEPSY AND AUDIOGENIC CATALEPTIC STATES, ATTEMPT OF ANALYSIS**
Surina NM, Fedotova IB, Poletaeva II (Russia)

13,20 – 13,40 **THE TIME-DEPENDENT EFFECT OF PROVINOLES ON BRAIN NO SYNTHASE ACTIVITY IN L-NAME-INDUCED HYPERTENSION.**
Pechánová O, Jendeková L, Vranková S, Barta A, Bartko D (Slovakia)

13,40 – 14,00 **INFLUENCE OF ACUTE INTERMITTENT NORMOBARIC HYPOXIA ON MOTOR FUNCTION IN RATS**
Deykun K, Pometlová M, Raška O, Mareš J (Czech Republic)

14,00 – 15,30 Coffee break and posters

Posters

Chairperson: Vožeh F.

1. **A SURPRISING RELATIONSHIP BETWEEN PROSOCIAL AND AGGRESSIVE BEHAVIOURS IN PRESCHOOL CHILDREN**
Caprin C, Corsale B, Apa D, Siesa A, Tagini A (Italy)
2. **SUB-CHRONIC LEAD EXPOSURE DOES NOT IMPAIR SPONTANEOUS BEHAVIOUR AND SPATIAL LEARNING IN ADULT WILD TYPE AND LURCHER MUTANT MICE**
Tůma J, Patková J, Vojtíšek M, Vožeh F (Czech Republic)
3. **I THINK IT SOUNDS DISGUSTING BUT I CAN'T SAY IT: EMOTIONAL PROCESSING IN MILD ALZHEIMER'S DISEASE**
Pini A, Bielli D, Olivotto F, Imbornone E, Rabuffetti M, Nichelli P, Chiavari L, Nemni R, Farina E, Alberoni M. (Italy)
4. **PET INVESTIGATION OF SPATIAL CREATIVE ACTIVITY**
Nagornova ZhV, Shemyakina NV, Korotkov AD (Russia)
5. **EEG STUDY OF CREATIVITY PARAMETRES**
Starchenko M. (Russia)

17,00 Dinner in restaurant Stony Age

Tuesday, October 20, 2009

Attentional and emotional processes

Chairperson: Medvedev S.V.

- 9,00 – 9,20 **EMOTIONS IN COURTING: COMPARISON BETWEEN THE REPRESENTATION IN A TELEVISION SHOW AND EMOTIONS REPORTED BY ADOLESCENTS**
Colombo F, Balbo M (Italy)
- 9,20 – 9,40 **MOTIVATIONAL STRATEGIES FOR THE TREATMENT OF A LONG TIME OBSESSIVE COMPULSIVE DISORDER CASE**
Corsale B. (Italy)
- 9,40 – 10,00 **ERROR DETECTION AND BRAIN CONTROL OF HUMAN ACTIVITIES**
Medvedev SV (Russia)
- 10,00 – 10,20 **OSCILLATORY PATTERNS IN FLUCTUATIONS OF SUSTAINED ATTENTION**
Riečanský I, Eštočinová J (Slovakia)

10,20 – 10,40 Coffee break

Chairperson: Philipova D.

- 10,40 – 11,00 **RATE OF CARDIOVASCULAR RECOVERY TO COMBINE OR SEPARATE ORTHOSTATIC AND MENTAL CHALLENGES**
Goswami N, Lackner HK, Montani J-P, Hinghofer-Szalkay HG (Austria)
- 11,00 - 11,20 **NICOTINE INFLUENCE ELECTRODERMAL COMPLEXITY**
Světlák M (Czech Republic)
- 11,20 – 11,40 **A SENSE OF COHERENCE TYPE RESISTANCE IN GLAUCOMA PATIENTS WITH DIFFERENT LEVEL OF PHYSICAL ACTIVITY.**
Lipková J, Vosečková A, Kyselovičová O, Škodová M (Slovakia)
- 11,40 – 12,00 **THE LATERALIZED READINESS POTENTIALS AND MOTOR SLOWING IN PARKINSON'S DISEASE**
Philipova D, Georgiev S, Ivanova I. (Bulgaria)

12,00 -14,00 Lunch

Human electrophysiological research

Chairperson: Finsterle G.

- 14,00 – 14,20 **GENDER EVENT-RELATED ELECTROENCEPHALOGRAPHIC DIFFERENCES IN NORMAL ELDERLY POPULATION**
Georgiev SY, Philipova DT, Christova Ch, Ivanova I (Bulgaria)
- 14,20 – 14,40 **INTRACEREBRAL VISUAL P3-LIKE POTENTIAL OF THE HUMAN BRAIN IS A HETEROGENEOUS PHENOMENON.**
Damborská A, Brázdil M, Rektor I, Kukleta M (Czech Republic)
- 14,40 – 15,00 **DIFFERENCES IN SYNCHRONIZATION BETWEEN VARIOUS BRAIN REGIONS IN THE BETA-2 BAND EEG FREQUENCIES**
Kukleta M, Bob P, Brázdil M, Roman R, Rektor I (Czech Republic)
- 15,00 – 15,20 **THE LISTENING OF A SOUND STIMULUS REPRODUCED BY A MULTIGRADIENT HYPER-SYNCHRONIZED SOUND EMISSION SYSTEM (AVS) CAN REDIRECT AUDIO SIGNALS TO TEMPORAL LOBE IF THE USUAL FOLLOWED WAY IS INCORRECT. POSSIBLE HYPOTHESIS EXPLAINING THE PHENOMENON.**

Aiello Gioacchino – M.D. Neurophysiologist – Neurophysiological Lab Milan - SIPP

Cacioppo Roberta – Psychotherapist – Dynamic Psychology Università Cattolica Milan

Finsterle Gubert – EAP Psychotherapist, Researcher - AVS Research - Research and development in the field of Psychology, SIPP

Pignatti Riccardo – Neuropsychologist – Service of Clinical Psychology, Istituto Auxologico Italiano, Piancavallo (VB)

Sconci Marta – Psychologist – Clinical Psychology Università Cattolica Bergamo

EEG (10-20 System) were administered to three volunteers (age 26-35, 2F 1M, Psychologist-Psychoterapists) in order to evaluate brain reactions while listening to a new sound stimulus created for PAT (Psycho-Acoustical Transitional) sessions.

The protocol foresees the preliminary measurement of auditory evoked potential in a standard way. One subject out of the three (F, affected by a partial bilateral deafness of unknown origin) showed anomalies in the auditory path, as her excited area was located in the occipital (usually devoted to visual recognition) instead of the temporal lobe.

After that, we administered the subject with the same sound-stimulus but this time emitted by the multigradient hyper-synchronized AVS®

audio system set as during PAT sessions. The EEG analysis showed us that this time the auditory signal excited the “correct” temporal areas instead of occipito-visual areas.

A possible explanation of this surprising result is that one of the peculiarities of PAT sessions is the “loop deleting and resetting” of dysfunctional neural path. We think that this could be the first real time evidence of this phenomenon, even if the sound stimulus provided was an impulse @1000 Hz instead of the Pink Noise as in PAT sessions.

The subject underwent to six PAT sessions, two before and four after this examination. The hypothesis that PAT Sessions and/or AVS listening of sounds could “open” new neural paths and “reset” dysfunctional paths was made even clearer in this subject, also because she referred increasing of insight capabilities, effectiveness on some muscular pain and emotive-affective reorganization.

In fact, the reactivation of original brain functional patterns is the core-hypothesis of PAT sessions, as they could enable a “prenatal” way of working of subcortical areas, while maintaining a complete functionality of the consciousness.

15,20 -15,40 Coffee break

Chairperson: Jagla F.

15,40 -16,00 **SUSTAINED MENTAL ATTENTION AND MODALITY OF TEXT PRESENTATIONS AS MANIFESTED IN EEG PARAMETERS.**
Danko SG, Boytsova JA (Russia)

16,00 – 16,20 **CORTICAL EVOKED POTENTIALS RELATED WITH MEMORY-GUIDED SACCADDES PROGRAMMING.**
Slavutskaya M, Moiseeva V, Kotenev A, Shulgovskiy V (Russia)

16,20 – 16,40 **NITRIC OXIDE INFLUENCES ACCURACY OF HUMAN GAZE FIXATIONS AND SPACE MEMORY FUNCTIONS.**
Jagla F, Pecháňová O, Cimrová B, Jergelová M, Bendžala Š (Slovakia)

16,40 – 17,00 **EVENT-RELATED POTENTIALS RECORDED IN SIMPLE AUDITORY TASK (SEEG STUDY).**
Roman R, Brázdil M, Rektor I, Kukleta M (Czech Republic)

17,00 Closing of conference