Starstim<sup>NE</sup> – noninvasive wireless tCS neurostimulator,
Background information and clinical applications
Organized by Neurology Specialty Group, HKPA

Co-organized & Sponsored by

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<tr>
<th>Seminar</th>
<th>Date: 11 March 2015</th>
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<tbody>
<tr>
<td>Registration &amp; Refreshment</td>
<td>18:30 – 19:00</td>
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<tr>
<td>Time:</td>
<td>19:00 – 21:00</td>
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<tr>
<td>Venue:</td>
<td>The Grand Room, 1/F, Best Western Grand Hotel, 23 Austin Avenue, Tsim Sha Tsui, Kowloon, Hong Kong</td>
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Speakers: Dr Alejandro Riera Sadra, Barcelona, Spain

Capacity: 30
Course Fee:
- NSG member: Free
- HKPA member: Free
- Non-HKPA member: HK$ 450

(Priority will be given to NSG and HKPA members if oversubscription)

CPD Points: To be confirmed
Enquiry: Ms. Sue Wong Tel. No: 2703 8273

*** Deadline of Application: 1 March 2015 ***
Starstim<sup>NE</sup> – noninvasive wireless tCS neurostimulator

Background information and clinical applications

**Application Form**

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<th>Name:</th>
<th>Dr./Mr./Ms./Mrs.</th>
<th>(English)</th>
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<td>(Chinese)</td>
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<tr>
<th>HKPA member:</th>
<th>□ Yes (membership no. )</th>
<th>□ No</th>
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<tbody>
<tr>
<td>NSG member:</td>
<td>□ Yes</td>
<td>□ No</td>
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<tr>
<td>Student member:</td>
<td>□ Yes</td>
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<th>Workplace:</th>
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<td>E-mail address:</td>
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<td>Tel. no.:</td>
<td>(office)</td>
<td>(Mobile)</td>
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<td>Cheque no.:</td>
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<tr>
<td>Registration:</td>
<td>If cheque is applicable, please send (1) application form (2) a crossed cheque on or before 1 March 2015 to the following address:</td>
<td></td>
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<tr>
<td></td>
<td>Ms. Sue Wong</td>
<td></td>
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<tr>
<td></td>
<td>Physiotherapy Department,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HHH, Haven of Hope Road, Tseung Kwan O, NT,</td>
<td></td>
</tr>
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<td></td>
<td>Hong Kong</td>
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<td></td>
<td>The cheque should be made payable to “Hong Kong Physiotherapy Association Limited” with course name, your name and contact phone number at the back of the cheque.</td>
<td></td>
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<td></td>
<td>Please do not staple the cheque.</td>
<td></td>
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<tr>
<td></td>
<td>Or you can complete the application form and send the soft copy to Ms Sue Wong by the e-mail <a href="mailto:sotingsoting@yahoo.com.hk">sotingsoting@yahoo.com.hk</a></td>
<td></td>
</tr>
</tbody>
</table>

**Legal Claim Waiver Consent** (Please sign it before submitting your application)

In consideration of HKPA Ltd. accepting my application to this workshop, I hereby agree to waive all my claims (howsoever accrued) against HKPA Ltd.

| Signature:                | ____________________________ |
| Name of Participant:     | ____________________________ |
| Date:                    | ____________________________ |
CURRICULUM VITAE

Personal Information

Name: Alejandro Riera Sardá
Birth Date 22 March 1979 (Barcelona, Spain)
Address: Plz Mañé i Flaquer 2, 3o2a
08006 Barcelona Spain
Mobile: (+34) 618 86 66 26
E-mail: ayeriera@gmail.com

Studies

1997-98 Twelve Grade at the Eudora High School (Lawrence, Kansas, EEUU)
1999-01 Physical Sciences (Universidad Complutense de Madrid)
2002-03 Physical Sciences specialty: Astrophysics (Erasmus Scholarship at the Université Libre de Bruxelles, Belgium)
2003-05 Graduated in Physical Sciences, specialty: Astrophysics (Universidad Complutense de Madrid)
2005 Master in Management and Mobility. ERP implementation (SAP and ORACLE) at Unisys Consulting
2006 Master in Communication Techniques at Overlap
2007-08 Neuroscience Master at Universitat de Barcelona
2009-12 PhD Candidate on Neuroscience and Computational Intelligence at the Barcelona University
2012 PhD Degree (Cum Laude) “Computational Intelligence Techniques applied to Electrophysiological Data Analysis”

Professional Curriculum

2004-06 Informatics Consultant at Unisys Consulting. Implementation of SAP (CRM module) and Oracle applications
2006 Speaker at the project gScience at High Schools h: Lectures on Albert Einstein's Theory of Relativity, promoted by the Spanish Ministry of Education.
2007-13 Researcher and Project Manager at Starlab Barcelona S.L.
2014 Asia and Africa Commercial Manager and Technical Support Officer at Neuroelectrics S.L.

Key Projects at Starlab Barcelona S.L.

Human Monitoring and Authentication using Biodynamic Indicators and Behavioural Analysis (HUMABIO)

Responsible of the software architecture design and development of a biometric application based on EEG and ECG. Also responsible of the HUMABIO related experiments at Starlab (protocol definition and recording)
Advanced Sensor Development for Attention, Stress, Vigilance & Sleep/Wakefulness Monitoring (SENSATION):
Designer and developer of an application to detect hypovigilant states of drivers in order to alert them.

U-Control: Development of a mouse pointer device controlled with Electro-Oculogram (EOG).

Unobtrusive Authentication Using Activity Related and Soft Biometrics (ACTIBIO)
Project Manager

Interreality in the Management and Treatment of Stress-Related Disorders
(INTERSTRESS)
Project Manager

SUENO (Development of a wireless and wearable EEG amplifier for Sleep Staging)
Awarded by the ETB Award.
Project Manager

Human Computer Confluence Coordination Action (HC2)
Project Manager

Publications


FutureBNCI Roadmap (as contributor) 2012

ACTIBIO SoA (as contributor) 2010

HIVE SoA (as contributor and editor) 2010


Carles Grau; Romuald Ginhoux; Alejandro Riera; Thanh Lam Nguyen; Hubert Chauvat; Michel Berg; Julià L. Amengual; Alvaro Pascual-Leone; Giulio Ruffini "Conscious Brain-to-Brain Communication in Humans Using Non-Invasive Technologies" PLOS ONE

Besides these publications, I have peer-reviewed several scientific articles for different high impact journals. I have also been invited to collaborate in the evaluation of EU-funded Research projects.

Conferences


Expert Lecture on Neuroscience at the NIMBUS Techfest 2013 at the National Institute of Technology Hamirpur, India


Symposium on high density EEG and non-invasive brain stimulation with hands-on training on protocols for putting EEG and NIBS: Lectures and discussions on Deep brain stimulation and Neural engineering. Neurobionics 2013 Pondicherry, India.

Organizer and Lecturer at “First Indian BCI Workshop 2013” at Bangalore, India.

A. Soria-Frisch, A. Riera, and S. Dunne. Fusion operators for multimodal biometric authentication based on physiological signals. In Fuzzy Systems (FUZZ), 2010 IEEE International Conference,


Scholarships and Awards

- Granted with the Spanish “Erasmus” scholarship (2002-03 scholar year studying Physics in Brussels, Belgium)
- Granted with the Spanish “Torres Quevedo” (National financial grant for Researchers working in companies – 2006-08)

Languages

- **Spanish**: Native Language
- **French**: Bilingual (studies in a French Lyceum, school year 2001-02 in Brussels, Belgium)
- **English**: Advanced (two summer intensive classes at The British Institute in Madrid and one year in the living in USA)
- **Catalan**: Advanced

Miscellaneous

- Advanced knowledge of informatics (Mac OS, Latex, Keynote, Windows, Office, ...)
- Advanced knowledge of internet (design and development of web pages, ...)
- Advanced knowledge of programming (C++, Maple, Matlab, Processing, Labview, Origin, HTML, SQL, ...)
- Advanced knowledge of electrophysiological experimental design, hardware (EEG and other Biosignal recording devices, ...) and software (Presentation Stimuli, Neurofeedback Applications, BCI2000, ...)
starstim
NONINVASIVE WIRELESS tCS NEUROSTIMULATOR

Multi-channel tCS with EEG
High resolution tCS with simultaneous EEG monitoring

What is tCS?
Transcranial current stimulation (tCS) is a form of neuromodulation which uses low current delivered directly to the brain via small electrodes

Applications
> Chronic Pain
> Post Stroke Rehabilitation
> Depression
> Addictive disorders
> Learning and cognitive enhancement
> Basic neuroscience research