B·DEBATE International Center for Scientific Debate BARCELONA

IDIBAPS Institut D'Investigacions Biomèdiques August Pi i Sunyer

STEPHEN DUNNE

CV

PARTICIPANT AT:

A DIALOGUE WITH THE CEREBRAL CORTEX: CORTICAL FUNCTION AND INTERFACING

April, 29th-30th, 2015, Barcelona

Stephen Dunne, Director of Neuroscience Research at **Starlab**, Barcelona, Spain

Mr. Stephen Dunne began his studies in the Galway Technical College where he obtained a National Certificate in Instrument Physics. From there he moved to the University of Wales in Aberystwyth where he obtained a BSc (Honours) in Planetary and Space Physics. Following this he obtained a Masters in Optoelectronics and Information Processing from Queens University in Belfast, carrying out a research thesis at the Instituto de Astrofísica de Canarias. In 2003 He joined Starlab, where he is currently Director of Neuroscience Research. His group developed the prototype Starstim and Enobio devices that were later successfully spun-out to Neuroelectrics. His research interests include BCI, HCC, User Affective & Cognitive State, EEG Signal Analysis and Neuromarker discovery. He is also developing business models for the transfer of this research to the market with a strong focus on Neuromarkers.

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ABSTRACT

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Non-invasive Neurotechnologies: Closing the loop

During the past 10 years we have been developing a platform for monitoring and modulating the electrical brain based on non-invasive technologies. In this talk we will present an overview of both our work and the work of our partners in EEG and tCS and conclude with an exploration of their combination in closed-loop systems.

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