

21-22 October 2016

ANT Neuro and Icelandic Center For Neurophysiology

EEG Theory and Applications workshop



Friday, 21 October

- 09:30 - 09:45 AM Opening remarks by Ceon Ramon
- 09:45 - 10:30 AM Ceon Ramon; Basics of EEG and its applications
- 10:30 - 10:50 AM Coffee Break
- 10:50 - 11:35 AM Frank Zanow; EEG Instruments and Measurement
- 11:35 - 12:20 Jens Haueisen; EEG Dry Electrodes
- 12:20 - 13:30 Lunch Break
- 13:30 - 14:15 Mark Holmes, Dense Array EEG and Epilepsy Applications
- 14:15 - 14:35 Coffee Break (included in EEG demo)
- 14:20 - 14:35 Paolo Gargiulo; Overview of activities of Icelandic center of neurophysiology
- 14:20 - 16:30 Demo of EEG measurements and Analysis (Frank Zanow) (Coffee, Q&A and interactions with people included in Demo)

Saturday, 22 October

- 09:30 - 10:15 AM Ingvar H. Ólafsson; From neural network to surgery
- 10:15 - 10:35 AM Coffee break
- 10:35 - 11:20 AM Thomas Knosche; Reconstruction of the structural brain connectome using diffusion tractography
- 11:20 - 11:45 Thomas Knosche; Brain parcellation based on structural connectivity
- 11:45 - 12:00 Paolo Gargiulo: Closing Remarks

Workshop given at:

Reykjavik University
Menntavegi 1
101 Reykjavik
Iceland

The costs:

5000 ISK / 35 euro for students
14000 ISK / 100 euro for professionals

Included:

3 Coffee breaks (2 on Friday, 1 on Saturday)
1 lunch (on Friday)

How to register:

Browse to:

www.ant-neuro.com/eeg-workshop-iceland

and fill out the online form

The event is organized by ANT Neuro <http://ant-neuro.com> and the Institute of Biomedical and Neural Engineering <http://en.ru.is/sse/bne>

21-22 October 2016

ANT Neuro and Icelandic Center For Neurophysiology

EEG Theory and Applications workshop



Speakers:

Ceon Ramon has been involved in neuroscience research for the last 25 years. His interest are in human cognition and epilepsy-localization. He is professor of bioengineering at Reykjavik University and an affiliate professor in electrical engineering at the University of Washington.

Mark D. Holmes MD is Professor of Neurology at the University of Washington in Seattle, Washington, USA. He is attending physician at the UW Regional Epilepsy Center, and director of clinical neurophysiology. His research interests include predictors of outcome following epilepsy surgery, the application of dense array EEG in the evaluation of seizures, and the use of transcranial direct current stimulation for epilepsy.

Frank Zanow received his Ph.D. in Applied Physics in 1997 at Twente University Enschede, NL. Based on his research work in computer modeling of electrical brain activity measured by MEG and EEG, he founded the companies ANT Neuro, eemagine and neuromotion and has been actively involved in product innovation for noninvasive neuroimaging and neuromodulation technologies.

Thomas Knösche studied Electrical Engineering at Ilmenau University of Technology, obtained his PhD at Technical University Twente and is now head of the Research Unit "MEG and Cortical Networks" at MPI for Human Cognitive and Brain Sciences.

Jens Haeisen received a M.S. and a Ph.D. in electrical engineering from the Technical University Ilmenau and is now the director of the Institute of Biomedical Engineering and Informatics at the Technical University Ilmenau. His research interests include the investigation of active and passive bioelectric and biomagnetic phenomena and medical technology for ophthalmology.

Paolo Gargiulo is Associate Professor and works at the Medical Technology Center at Reykjavik University and the University Hospital Landspítali. He studied at TU Wien and finished his PhD in 2008. His research interests include, medical image processing, 3-D modeling and tissue engineering. Since December 2013 he is the director of the Institute of Biomedical and Neural Engineering and the Icelandic Center of Neurophysiology.

Ingvar H. Olafsson, MD, is a neurosurgeon at the Department of Neurosurgery, Landspítali University Hospital, Iceland. He received his M.D., 1997, from Faculty of Medicine, University of Iceland. He finished his residency in neurosurgery 2004 from The Karolinska University Hospital, Stockholm, Sweden. He was a staff member in neurosurgery at The Karolinska 2004-2006, mainly doing pediatric neurosurgery. Since 2007 he has been a full time neurosurgeon at Department of Neurosurgery in Iceland. He is an adjunct lecturer at the Faculty of Medicine, University of Iceland.