

Ist International congress on mobile health devices and seizure detection in epilepsy



7 - 8 July, 2017



Copenhagen - Denmark

PROGRAM

Ist International Congress on
Mobile Devices and Seizure Detection in Epilepsy

THURSDAY JULY 6th 2017

17:00 - 18:00 Registration at Scandic Copenhagen (pickup Tivoli ticket)
 19:00 Networking dinner in the Restaurant Gemyse (Tivoli)

FRIDAY JULY 7th 2017

08:00 - 08:45 Registration and breakfast in the foyer and exhibition area

Plenary Session 1

08:45 - 09:15 **Seizure detection using intracranial EEG for closed loop system**

Martha Morrell, Department of Neurology and Neurological Sciences, Stanford University, Stanford, United States

09:15 - 09:45 **Seizure detection using scalp EEG**

Christoph Baumgartner, Karl Landsteiner Institute for Clinical Epilepsy Research and Cognitive Neurology; Sigmund Freud University, Austria

09:45 - 10:15 **Seizure detection using movement sensors**

Johan Arends, Epilepsie Centrum Kempenhaeghe, The Netherlands

10:15 - 10:45 **Seizure detection using surface electromyography**

Sándor Beniczky, Danish Epilepsy Centre and Aarhus University, Denmark

10:45 - 11:15 **Coffee break in exhibition area**

Platform Presentations 1

11:15 - 11:30 **Non-EEG based seizure detection: necessity, availability, possibilities, requirements and challenges**

Anouk Van de Vel, University Hospital of Antwerp, Belgium

11:30 - 11:45 **EpSMon – Safety in your pocket: patient self-empowerment saves lives**

Brendan Mclean, The Royal Cornwall Hospitals NHS Trust, United Kingdom

11:45 - 12:00 **Seizure detection with integrated sensor garments**

Kristina Malmgren, Sahlgrenska Academy and University Hospital, Sweden

12:00 - 12:15 **User based evaluation of applicability and usefulness of a wireless wrist accelerometer in registering tonic-clonic seizures**

Pirgit Meritam, Danish Epilepsy Center, Denmark

12:15 - 12:30 **Integrating technology and advanced analytics to improve outcomes of people living with epilepsy**
Erik Janssen, UCB Biopharma SPRL

12:30 - 13:30 **Lunch in exhibition area**

13:30 - 14:30 **Poster Session**

Plenary Session 2

14:30 - 15:00 **RADAR-CNS: remote monitoring of epilepsy using wearable sensors**
Mark Richardson, King's College London, Institute of Psychiatry, United Kingdom

15:00 - 15:30 **Data compression strategy for long term home monitoring**
Nikolaos Voros, Technological Educational Institute of Western, Greece

15:30 - 16:00 **Coffee break in exhibition area**

Keynote Lecture

16:00 - 17:00 **Continuous multimodal recording using EpiWatch**
Gregory Krauss, Johns Hopkins University, Baltimore, MD, United States

Flash-Up Presentation

- 08:00 - 08:10 **Automated video-based detection of convulsive seizures in a residential care setting**
Evelien Geertsema, Stichting Epilepsie Instellingen Nederland (SEIN)
- 08:10 - 08:20 **Ear-EEG for mobile long-term EEG monitoring of interictal and ictal events**
Ivan Zibrandtsen, Zealand University Hospital, Neurological Dep, Denmark
- 08:20 - 08:30 **Automated R-peak detection algorithm for patients with epilepsy using a portable electrocardiogram recorder: first step towards portable seizure detector**
Jesper Jeppesen, Dep. of Neurophysiology, Aarhus University Hospital, Denmark
- 08:30 - 08:40 **Tonic seizure detection based on multimodal detection methods using the EpiSense sensor**
Joyce van Sluis, Kempenhaeghe Epilepsy Centre, The Netherlands
- 08:40 - 08:50 **QNeuro – cloud-based medical assistance and decision support system for effective treatment and assistance of epilepsy patients**
Piotr Zwolinski and Mariusz Chmielewski, EnQuant, Poland
- 08:50 - 09:00 **Obstacles in the implementation of wearable seizure detection techniques in a residential care facility**
Nicole Rommens, Stichting Epilepsie Instellingen Nederland (SEIN), The Netherlands
- 09:00 - 09:10 **Feasibility of home video telemetry polysomnography for assessing sleep related neurological disorders**
Peter Muthinji, King's College Hospital, United Kingdom
- 09:10 - 09:20 **An automatic multimodal seizure detection algorithm for evaluation of ambulatory EEG recordings**
Franz Fürbass, AIT Austrian Institute of Technology GmbH, Austria

Plenary Session 3

- 09:30 - 10:00 **Seizure detection using multimodal signals**
Frans Leijten, University Medical Center Utrecht, The Netherlands
- 10:00 - 10:30 **Seizure prediction**
Andreas Schulze-Bonhage, Epilepsy Center, Medical Center, University of Freiburg, Germany
- 10:30 - 11:00 **Coffee break in exhibition area**

Plenary Session 4

- 11:00 - 11:30 **Wearable devices in SUDEP prevention**
Philippe Ryvlin, Department of Clinical Neurosciences, CHUV, Lausanne, Switzerland and Epilepsy Institute IDEE, Lyon, France
- 11:30 - 12:00 **Implementation of wearable devices in praxis: the point of view of the healthcare providers**
Hasse Petersen, Welfare Innovation Zealand Denmark, Denmark
- 12:00 - 12:30 **Wearable sensors and low-power integrated circuits in health care applications**
Esther Rodriguez-Villegas, Department of Electrical and Electronic Engineering, Imperial College London, London, United Kingdom
- 12:30 - 13:30 **Lunch in exhibition area**

Platform Presentations 2

- 13:30 - 13:45 **Transformational Power of an Integrated HVT Service Model. An Impact Analysis.**
Franz Brunnhuber, King's College Hospital, United Kingdom
- 13:45 - 14:00 **Clinical evaluation of the Brain Sentinel® GTC Seizure Detection and Warning System**
Josè Cavazos, Brain Sentinel, United States
- 14:00 - 14:15 **Ultra-long-term recordings of brain and heart**
Troels W Kjær, Zealand University Hospital, Roskilde, Denmark

Panel Discussion

- 14:15 - 15:00 **Standards for testing and clinical validation of seizure detection devices**

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**International Congress on
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1st International Congress

July 07th - 08th 2017

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