

Programme

Tuesday, July 1, 2014

- 12:00-21:30 Registration
- 13:30-18:00 Satellite symposium: Tübingen Neurotech
- 19:00 Opening of MEA Meeting
- 19:30-20:30 Key-note lecture
- 20:30-23:00 Welcome reception

Wednesday, July 2, 2014

- 8:30-17:30 Scientific sessions with key note lectures
- 18:30-23:00 Social event: Punt ride on Neckar/Tübingen

Thursday, July 3, 2014

- 8:30-15:00 Poster sessions
- 16:00-17:30 Scientific session
- 18:30-23:00 Social event: Conference dinner - over the roofs of Reutlingen

Friday, July 4, 2014

- 8:30-12:30 Scientific sessions
- 12:30 Farewell lunch

Time line for abstracts and manuscripts

- Jan 13, 2014 Online abstract submission opens
- Mar 10, 2014 Deadline for abstract submission (will not be extended)
- Apr 15, 2014 Notification of abstract acceptance to authors
- Apr 15 - May 20 Manuscript submission for Proceedings booklet

Online registration 2014

- Jan 13 Early registration opens
- After May 1 Regular registration

Organizer

NMI Natural and Medical Sciences Institute

Meeting Website

www.nmi.de/meameeting

Check the website regularly for news and details.

Follow us on facebook

www.facebook.com/MEA.meeting

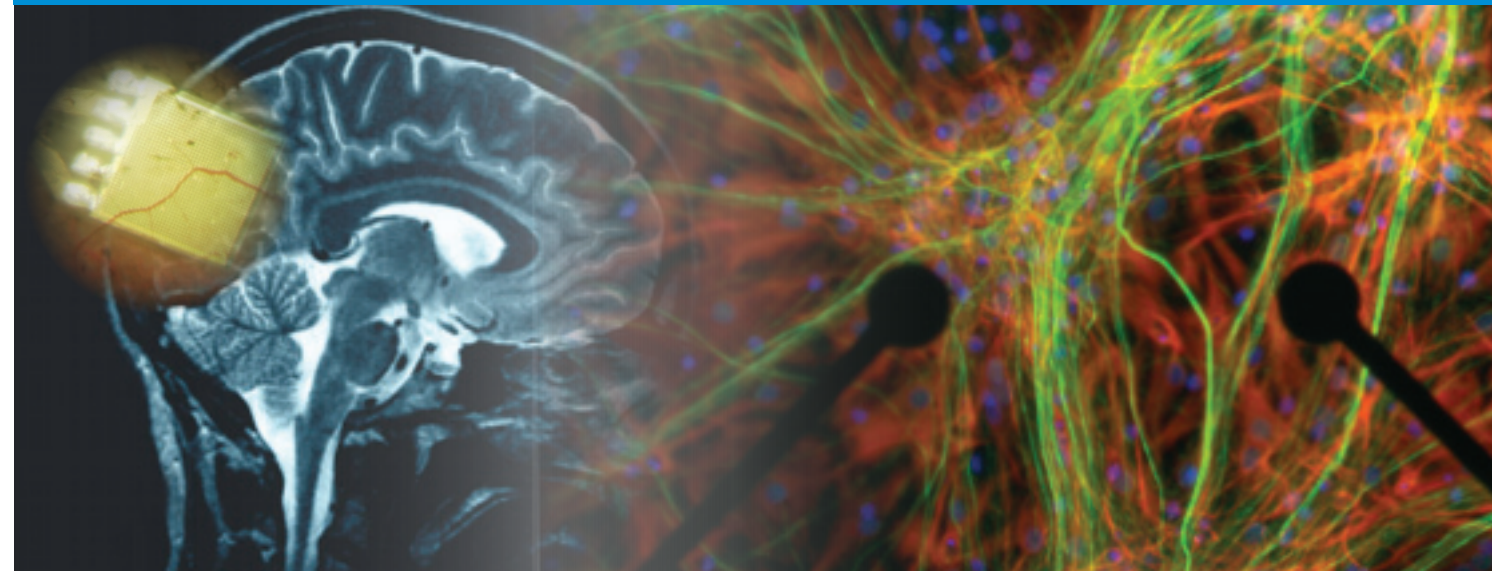
Contact

meameeting@nmi.de

Satellite symposium

Tübingen Neurotech - from basic research to medical application

July 1, 2014, 13:30-18:00
Reutlingen, Germany



www.nmi.de/neurotech

Coorganizer

EBERHARD KARLS
UNIVERSITÄT
TÜBINGEN



UNIVERSITÄTS
KLINIKUM
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Hertie-Institut
für klinische Hirnforschung



CIN
Werner Reichardt
Centrum für Integrative
Neurowissenschaften

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B | BRAUN
SHARING EXPERTISE

retina implant

NMI 2013

MEA Meeting 2014 9th International Meeting on Substrate-Integrated Microelectrode Arrays

science, technology
and application

July 1-4, 2014
Reutlingen, Germany

www.nmi.de/meameeting

Organizer

NMI Natural and Medical Sciences Institute

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systems

MEA Meeting 2014 -

science, technology and applications

Microelectrode arrays (MEA) are routinely used in basic and industrial research and development in neuroscience, cardio-vascular research, drug discovery, and neuro-technology.

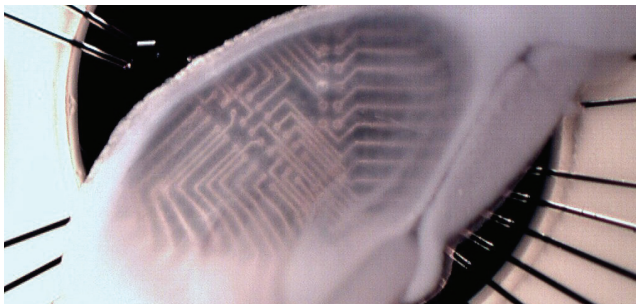
MEAs have helped to unravel the fundamental physiological functions of the brain, such as memory, learning, circadian rhythms, and neuronal development. Through MEAs, we are beginning to broaden our understanding of cognitive diseases, such as Alzheimer's disease and epilepsy. Advancements in MEA technology have given new momentum to cardiovascular, stem cell, and retina research.

The biennial MEA Meeting has established itself as the most important international meeting on MEA and Neurochip technology. It is a unique platform for scientific exchange among users and internationally recognized scientists from academia and industry. It attracts biologists, engineers, and physicists from around the globe to Reutlingen.

In 2012, more than 300 scientists with 175 posters and oral presentations attended the meeting. The internationality is also shown in the commercial exhibition with companies from Japan, the USA, Switzerland, and Germany.

In addition to the MEA meeting, in 2014 the 1st Tübingen Neurotech Symposium will address current topics in neuro-technology - from basic research to medical applications.

We look forward to welcoming you at MEA 2014.



Meeting high-lights

The MEA Meeting 2014 will offer a comprehensive overview of the following topics related to current MEA techniques and applications:

Applications in Life Sciences

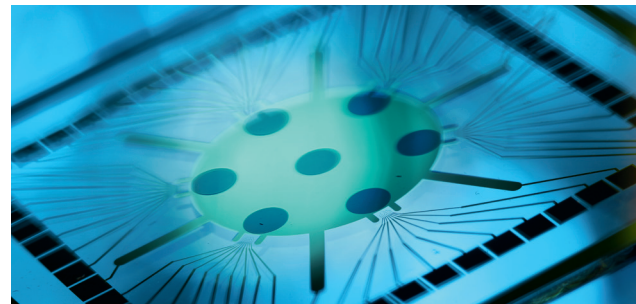
- Systems Neuroscience (brain slices, retina, spinal cord)
- Analysis of (sub)-cellular neuron properties
- Signal analysis and statistics (information coding in neural networks)
- Electrical stimulation of single cells and neural tissue
- Primary and stem-cell derived cardiac myocyte cultures
- Pharmacology, toxicology, drug screening
- In vivo recordings and stimulation

MEA technology

- New materials & designs
- Fabrication & instrumentation
- Culture techniques

Key-note speakers

Among the key-note speakers of the last meetings were Hagai Bergman, Pascal Fries, , Peter Fromherz, Lior Gepstein, Andreas Hierlemann, Brian Litt, Shimon Marom, Eberhard Zrenner. The key-note speakers of MEA Meeting 2014 will be published in January 2014.



Satellite symposium

Tübingen Neurotech -

from basic research to medical applications

Neurotechnology offers a wide spectrum of options for diagnosis and therapy of dysfunction of the peripheral and central nervous system. Non-invasive as well as invasive techniques and systems are used to monitor, analyse and modulate brain function. Brain-machine interfaces use neuronal signals to control a robotic arm. Electronic implants help to replace lost sensory function in the ear, the cochlea or in the retina. Invasive and non-invasive brain stimulation is applied in various CNS disorders such as Parkinson's disease, stroke, depression, chronic pain and others.

The 1st Tübingen Neurotech Symposium will address current topics in neurotechnology, specifically:

- diagnostic and computational methods,
- technology and application of neuroprostheses,
- brain machine interfaces.

For each discipline a leading key note speaker will open a scientific session, followed by short presentations given by investigators from local research institutes and neuro-technology industry.

