

21.07. - 22.07.2014 | International workshop on high-throughput bilayer electrophysiology

Location: Nanion Technologies, Munich, Germany

This international workshop on recent developments in lipid bilayer technologies and applications is organized by the University of Southampton and the University of Freiburg in collaboration with Nanion Technologies. Lipid bilayer electrophysiology has traditionally been a low-throughput method because of the difficulty of forming stable suspended bilayers, but recent micro-engineering advances are now enabling the rapid formation of arrays of stable bilayers. The presentations at the workshop will cover various approaches to parallel bilayer electrophysiology and will also explore the state-of-the-art and future directions for automated bilayer formation with commercialized instruments. Applications of high-throughput electrical bilayer assays will also be addressed, with a focus on biological nanopores as sensors for analyte detection and DNA sequencing. The presentations will outline the possibilities and the challenges for high-throughput nanopore resistive pulse sensing and related applications.

The workshop will be limited to approximately 35 attendees to encourage discussion on the further development of bilayer electrophysiology systems and applications. The list of confirmed speakers will be updated regularly.

Call for abstracts

We are now accepting abstracts for oral presentations at the meeting. Submit your abstract [here](#).

Preliminary Programme:

Monday 21 July

13.00 Arrival

13.30 - 18.00 Presentations and tour of facilities

19.00 Dinner

Tuesday 22 July

09:00-12:00 Presentations

12.00 Lunch

13.00 Departure

Confirmed Speakers

Stefan Howorka - [Department of Chemistry, University College London](#)

John Kasianowicz - [National Institute of Standards and Technology](#)

Ulrich Keyser - [University of Cambridge](#)

Giovanni Maglia - [University of Leuven](#)

Hywel Morgan - [University of Southampton](#)

Juan Pelta - [University of Evry-Val-d'Essonne](#)

Friedrich Simmel - [Technical University of Munich](#)

Claudia Steinem - [Georg-August-University Göttingen](#)

Marco Tartagni - [University of Bologna](#)

Federico Thei - [Elements](#)

Organizers & Scientific Committee

Maurits de Planque, [University of Southampton](#)

Jan Behrends, [University of Freiburg](#)

Niels Fertig, [Nanion Technologies](#)

Registration:

Please contact Maurits de Planque for a [registration form](#). The registration fee of €100 includes dinner on July 21 and lunch on July 22.

Accommodation

For accommodation we suggest [Hotel Orly](#), which is very close to the workshop venue.

Directions

Find your way to Nanion [here](#).