

Desorption 2012



„Wissenschaft fängt eigentlich erst da an
interessant zu werden, wo sie aufhört.“

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„Actually, science only starts
to get interesting where it ends.“

(Justus Liebig 1803 - 1873)

Desorption 2012, June 3 - 7, 2012 Rauischholzhausen, Germany

1. FOCUS OF THE CONFERENCE

The conference targets the development of bioanalytical mass spectrometry technology. Mechanisms of ion and neutral desorption are investigated in order to define the most efficient ways of producing intact molecular ions and, at the same time, of inducing controlled fragmentation for structural analysis and substance identification. A significant part of the conference is devoted to fundamental research on desorption processes, also dealing with the necessary instrumentation to produce, detect, identify and topologically visualize molecular ions. Applications of these technologies in the fields of biology, medicine, plant research, surface analysis and others are targeted, both in bulk analytical strategies and in biomolecular mass spectrometry imaging.

Desorption 2012 is an interdisciplinary conference in the tradition of the IFOS (Ion Formation from Organic Solids) symposia of the 1980s. This conference series began 34 years ago as a workshop on desorption induced by high energy particles (MeV particles), in Marburg, Germany, in 1978. The interdisciplinary Conference “DESORPTION” started as a follow-up

in 1992 (Burg Waldeck, Germany), expanding the topic from particle bombardment methods to other methods of ion formation, including laser desorption and the upcoming MALDI method. The current meeting, will continue the long and successful tradition of these meetings by bringing together scientists from all fields of science and from all over the world in a relaxed natural environment of an english-styled park to discuss most recent developments in the field. DESORPTION 2012 is to be held June 3 - 7, 2012 at the Rauischholzhausen Conference Centre of Justus Liebig University, very close to Marburg, where the story of the DESORPTION conferences began.

The conference will host about 80 international participants from all over the world, including Brazil, Canada, Denmark, France, Germany, Russia, Sweden, Switzerland, the United Kingdom, and the USA. Participation of young researchers and students is highly encouraged.

2. TOPICS

The sessions will tackle the subjects of the previous conferences with a particular focus on **mass spectrometry imaging (MSI)** and *in situ* **mass spectrometry** methods. One session will be devoted especially to the latter field, presenting the results of the LOEWE research focus "AmbiProbe" funded by the Hessian Ministry of Science and Arts.

Other subjects of the conference include:

- ESI & MALDI (Electrospray Ionization & Matrix Assisted Laser Desorption Ionisation)
- Cluster SIMS (Secondary Ionization Mass Spectrometry), Nano-SIMS, Massive Cluster Impact
- ECD & ETD (Electron Capture & Electron Transfer Dissociation)
- Instrumentation: MS imaging technology, ToF, ion traps, FT, orbital trapping and ion cyclotron resonance technology, ion mobility
- Mass spectrometry in the operating room & clinical applications of MS
- MS methods in lipidomics, proteomics, peptidomics, glycomics in animal and plant research
- Bioinformatics tools and strategies in Systems Biology and Molecular Biomedicine.

3. SOCIAL EVENTS

Trips to Giessen are planned for visiting the Liebig Museum (original laboratory of Justus Liebig between 1824 and 1852), the oldest botanical garden of Germany being located at its original place, and the "Mathematikum", the world's first mathematical museum and science center. Conference dinner will be at the Mathematikum.

4. LOCATION

Schloss Rauischholzhausen is located 30 km northeast of Giessen and about 90 km north of Frankfurt airport. Transportation will be organized. Accommodation, lunch and lectures will all be in the castle building.

5. LANGUAGE

English is the official language of the meeting.

6. SCOPE

The maximum number of participants is limited by space to about 85 participants, thus early registration is recommended.

7. DEADLINES

Pre-Registration: December 10, 2011
Registration: to be announced

8. CONTACT

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