Registration & Organizers

Online registration

https://www.3P-instruments.com/adsorption-week/

Registration is open until: 06.05.2024

Organizers

The **Institut für Nichtklassische Chemie e.V. (INC)** is your partner in research and development in the field of sorption and reaction processes as well as in the area of the application of thermal separation processes. It acts as a link between basic and industrial research. As a service provider, we support you along the steps from characterization of your materials to process design or optimization and process-related analytics.

3P Instruments is manufacturer and supplier of analytical instruments in the field of gas sorption, among others, and can look back on more than 30 years of company history. 3P offers professional consultation and scientific solutions concerning analytical instruments and methods in the fields of research, development, or quality control of powders and porous materials.

Further Information

On site participation: venue in Leipzig

The Vienna House Easy Hotel (Goethestr. 11, 04109 Leipzig) is located within walking distance from main station.
Single room reservations are available under the keyword "Adsorption Week".
Contact: +49 341 991 5390 /
info.easy-leipzig@viennahouse.com

Online option: technical requirements

You will need an internet connection that has the necessary performance for video streaming. The link for joining the meeting will be sent to you a few days in advance. You can dial in from 8:50 onwards; the talks on both days start at 9:00 a.m. (CEST).

The price includes the video recordings of the talks after the event (subject to speaker's permissions).

Fees

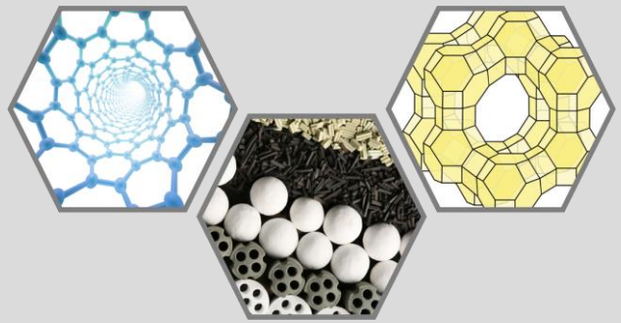
Conference program (April 14th & 15th):

- on site in Leipzig (Germany): **395 €**
- on site in Leipzig (Germany), students (proof required): **295 €**
- online: **150 €**

Fees include lunch and beverages but exclude taxes.

ADSORPTION WEEK

Annual meeting on adsorption & characterization of porous solids



Hosted by:
Institut für Nichtklassische Chemie & 3P Instruments

May 14th - 15th, 2024

Leipzig (Germany) or online

Topics

Conference (May 14th & 15th), online or on site

Dive into the forefront of porous materials innovation at our Annual Meeting on Adsorption & Characterization of Porous Solids, taking place on May 14th and 15th. This exclusive event features a series of enlightening lectures, focusing on static and dynamic gas adsorption techniques for the in-depth characterization of groundbreaking porous materials, including zeolites, metal-organic frameworks, activated boranes, and carbonaceous materials.

Explore the progress and development in characterization through static adsorption methods, and delve into the practical application of novel porous materials. Our discussions will bridge the gap between classical everyday challenges like exhaust air purification and gas separation processes and the exploration of current research frontiers. The highly experienced presenters will make this meeting an invaluable experience for industry professionals and academic researchers alike.

Secure your place now at the Annual Meeting on Adsorption & Characterization of Porous Solids!

Poster Session (May 14th), on site

On May 14th, there will be a poster session. We would like to encourage students and young scientists to take advantage of this opportunity. Benefit from the wealth of knowledge of our invited speakers and gain your first experience in presenting your own work.

The number of posters is limited to 20 (first come, first serve) with no more than 2 contributions from the same group. (Poster dimension: A0 vertical or horizontal)

The deadline for **registration is 06.05.2024.**

Program May 14th (UTC+2)

08:55 **Dietmar Klank (3P Instruments)**
Welcome and opening remarks

09:00 **Sebastian Ehrling (3P Instruments)**
Technical developments in manometric sorption methods for surface and pore analysis

09:45 **Marcus Lange (INC)**
Development of a comprehensive measurement system
for membrane separation properties

10:15 **Coffee break**

10:45 **Andreas Wagner (HZDR)**
Positronium-annihilation spectroscopy probes open and close porosities

11:15 **Jan Demel (Czech Academy of Sciences)**
Activated Borane - A Porous Borane Cluster Network

11:45 **Andreas Hahn (ZetA Partikelanalytik)**
Surface area and pore size as key parameters on removal performance of vertical flow constructed wetlands

12:15 **Lunch break**

13:45 **Desirée Leistenschneider (Uni Jena)**
N-rich carbon materials and their interaction with water

14.15 **Francesco Walenszus (3P Instruments)**
Studies of sorption equilibria with unique stability of temperature and relative pressure

14:45 **Coffee break**

15.15 **Arvind Rajendran (University of Alberta)**
Dynamic column breakthrough methods to understand competitive equilibria for adsorptive CO_2 capture

16:00 **Tai Nguyen (Svante)**
Characterization of laminate CALF-20 and its process intensification for capturing CO2 from point sources

16:30 **Poster and Beer**

Program May 15th (UTC+2)

09:00 **Jens Möllmer (INC)**
From laboratory to industrial scale and back - examples in the field of adsorptive separation processes

09:45 **Pantelis N. Trikalitis (Universitry of Crete)**
Intriguing gas/vapor sorption properties in highly flexible rare-earth MOFs

10:30 **Coffee break**

11:00 **Fabian Schönfeld (3P Instruments)**
New aspects regarding measurement accuracy, flexibility, ease of maintenance and sustainability of sorption analyzers

11:30 **Aleksandra Marcinek (CarboTech)**
How CMS structure affects the PSA performance

12:00 **Lunch break**

13:30 **Camille Petit (Imperial College London)**
Technological considerations for the advancement of adsorption-based direct air capture

14:00 **Tobias Horn & Leon Ketscher (Airbus)**
Countering climate change –
Filtering out CO_2 from the atmosphere and making it versatile

14:30 **Coffee break**

15:00 **Sven Helle (BTU Cottbus-Senftenberg)**
A Comparative Investigation of Surface Interactions of Porous Materials using Nitrogen and Argon Adsorption

15:30 **Christian Teicht (Fraunhofer-Institute for Chemical Technology)**
An easy-to-use modification of the potential theory of adsorption

16:00 **Closing Remarks**