

Registration & Organizers

Online registration

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



Organizers



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



Characterization of
particles · powders · pores

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.



This project is co-financed with tax funds on the basis of the budget approved by the state parliament of Saxony.

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" (94 € per night).

Contact: +49 341 991 5390 /
info.easy-leipzig@viennahouse.com

The event will be held under the Corona regulations in effect on the day.

Online option: technical requirements

You will need an internet connection that has the necessary performance for video streaming. The link for joining the MS Teams meeting will be sent to you a few days in advance. You can dial in from 8:45 onwards; the talks start at 9:00 and 8:50, respectively.

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

Fees

Conference program (May 17th & 18th):

- on site in Leipzig (Germany): **350 €**
- on site in Leipzig (Germany), students (proof required): **240 €**
- online: **150 €**

PhD workshop May 19th Leipzig (Germany):

- PhD students (proof required): **60 €**

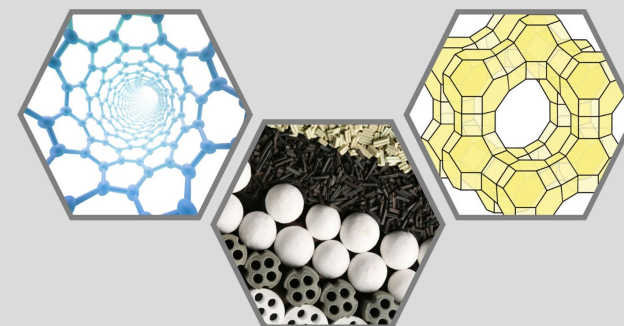
Fees include lunch and beverages but exclude taxes.



Characterization of
particles · powders · pores

ADSORPTION WEEK

Annual meeting on adsorption & characterization of porous solids



Hosted by:
**Institut für Nichtklassische
Chemie & 3P Instruments**

May 17th - 19th, 2022
Leipzig (Germany) or online

Topics

Conference (May 17th & 18th), online or on site

On May 17th and 18th, various lectures will be held around static and dynamic gas adsorption for the characterization of innovative novel porous materials. The event will span from characterization to application of novel porous materials with reference to classical everyday topics of exhaust air purification or gas separation processes as well as current research topics in the field of decarbonization strategy (removal of CO₂ from air or process gases) or hydrogen production and purification. During the breaks and lunch, all topics can be deepened in small groups.

PhD workshop (May 19th), on site

The workshop is held **exclusively** for PhD students. Every participant **needs to bring a poster** (size DIN A0: 118,9 cm x 84,1 cm, upright format) on their research topic. The posters will be displayed on May 17th and 18th as well.

The goal of the workshop is to provide a platform for students to exchange scientific and personal experiences and to establish new contacts. Furthermore, current scientific results will be presented and discussed in a relaxed environment. Moreover, we will generate an opportunity to train presentation skills and discuss critical scientific issues with the help of poster karaoke.

The number of participants is limited to 20 (first come, first serve), with no more than 2 students from the same group.

The deadline for **registration is April 29th**.

We are looking forward to your participation!

Program May 17th (UTC+2)

Chair: Sebastian Ehrling (3P Instruments, Germany)

08:30 Registration

09:00 Dietmar Klank (3P Instruments, Germany)

Welcome and opening remarks

09:30 Stefan Kaskel (TU Dresden, Germany)

Adaptive metal-organic frameworks

10:30 Coffee break

11:00 Edwin Clatworthy (ENSICAEN, FR)

Nanosized small-pore zeolites for CO₂ Separation

11:30 Andrei Kolesnikov (INC, Germany)

Characterization of porous material by means of density functional theory

12:00 Robert Eschrich (3P Instruments, Germany)

Exploring the capabilities of dynamic sorption analyzers

12:30 Lunch

14:00 Diana Azevedo (Universidade Federal do Ceará, Brazil)

An overview of cyclic adsorption-based gas phase separations

15:00 Johan Craeye (Desotec, Belgium)

Current and perspective trends of carbonaceous adsorbents and their applications

15:30 Coffee Break

16:00 Daniel Siderius (National Institute of Standards and Technology, USA)

NIST data resources for adsorption

17:00 Closing Remarks & Get-Together

Program May 18th (UTC+2)

Chair: Sebastian Ehrling (3P Instruments, Germany)

08:50 Welcome - Jens Möllmer (INC, Germany)

09:00 Constanze Neumann (MPI für Kohleforschung, Germany)

Post-synthetic pore functionalization in MOFs

09:30 Jean Rouquerol (Aix-Marseille Université, FR)

Special interest of sample-controlled heating for the thermal treatment of adsorbents

10:30 Coffee break

11:00 Simon Krause (MPI für Festkörperforschung, Germany)

Light-responsive dynamics in porous framework materials

11:30 Christina Schneidermann (HERAEUS, Germany)

Porocarb – the macroporous synthetic carbon performance additive for Lithium-ion batteries and beyond

12:00 Lunch

13:30 Sebastian Behr (Fluxys TENP, Germany)

Design of a large-scale industrial adsorption process for deodorization of pipeline quality natural gas

14:15 Jens Möllmer (INC, Germany)

Dynamic sorption in lab scale experiments – benefits and efforts

15:00 Coffee Break

15:30 Andreas Weger (R. Scheuchl, Germany)

Separation of VOCs from exhaust air

16:00 Nico Guroll (Silica Verfahrenstechnik, Germany)
tba

16:30 Closing Remarks & Get-Together