

Aim of the Workshop

Traditionally POROTEC GmbH organizes every two years the workshop about the characterization of fines and porous solids, initiated by Prof. K.S.W. Sing und Prof. K.K. Unger. The topic of this year's XIX. Workshop is "**Sorption Induced Deformation of Solids: Swelling and Shrinkage**". During the workshop lab experts and scientists from academia and industry will find a platform for an interdisciplinary and fruitful exchange of ideas and intensive discussions about the latest innovations.

Scientific Committee:

Prof. J.A. Lercher – TU München
Prof. D. Enke – Universität Leipzig
Prof. A. Gerdes – KIT Karlsruhe
Dr. J. Adolphs – Porotec GmbH

Invited Keynote Lectures

• *Adsorption-induced deformation: solvation pressure and surface stress approaches*

Gennady Gor

New Jersey Institute of Technology, USA

• *Where lies hysteresis in materials undergoing sorption-induced swelling?*

Dominique Derome

EMPA, Dübendorf, CH

• *Measuring swelling and shrinkage of porous materials with a digital camera*

Nikolaj Georgi

GMBU Halle, D

• *Adsorption induced deformation: artefacts and opportunities*

Gudrun Reichenauer

ZAE Würzburg, D

• *New coupled simulation techniques for the study of complex effects in nano- to macro-porous media: deformation, packing and hydrophobicity*

Peter Matthews

University of Plymouth, UK

• *Adsorption induced structural changes probed by neutron scattering*

Margarita Russina

Helmholtz-Zentrum Berlin, D

• *Time resolved monitoring of nanoparticles synthesis or aggregation using in situ dynamic light scattering measurements*

David Jacob

Cordouan Technologies, Pessac, F

• *Liquid Liquid Porometry – an alternative to Mercury Intrusion Porosimetry?*

Angels Odena

POROMETER NV, Eke, B

• *Industrial use of IGC for better understanding of material properties*

Ralf Dümpelmann

INOLYTIX AG, Basel, CH

• *Gas solid interaction, the key for renewable energy storage*

Andreas Züttel

EPFL Sion, CH

• *Water vapor sorption induced swelling and shrinkage of cementitious materials*

Jürgen Adolphs

POROTEC GmbH, Hofheim/Ts., D

Unger-Schmidt Innovation Award Winner 2016

Julia Hollenbach

University of Southampton, UK

• *Latest standards and recommendations about the characterisation of porous solids of DIN, ISO and IUPAC*

Jürgen Adolphs

DIN Convenor, ISO Member, D

User Meeting and Training for Porosimetry, Sorption and Particle Analysis

Within the presentation program we offer a user meeting for training and discussion about experiment and data analysis of gas- and vapor sorption and Mercury porosimetry. Further, in the evening of November 13th we show the in situ nanoparticle measurement device and capillary flow porometry as an alternative to Mercury porosimetry. **A Certificate of Attendance will be handed out.**

Submission of Contributions to all Areas of Porous Materials and Particles

We are looking forward to all kinds of contribution from the area of porous materials and particles. You are invited to submit an abstract of your poster together with an oral presentation (15 Minutes). Further, there is the possibility to present only a poster. Please make a note when sending your abstract.

Deadline: June 30, 2018

Format of the abstract:

One DinA4 page, MS Word
Headline (Arial 12 Bold, left bound)
Text, (Arial 10, Block, no row distance)
Edges 3cm top, 3cm left, 2cm right, 2cm bottom

Please send your abstract to

info@porotec.de

During the entire workshop, all posters will be exhibited in the Foyer of the H+ Hotel.

K.S.W. Sing Poster Award

This poster award is nominated by the scientific committee and includes a price of 500,-€.

Unger-Schmidt Innovation Award

This award includes measurements in the lab of POROTEC GmbH and an invited keynote lecture for the next workshop in 2020.

Registration for the XIX Workshop about the Characterisation of Fines and Porous Solids from November 13 - 14, 2018 in Niedernhausen / Ts.

Title	First Name	Last Name	E-Mail	Telephone	Student	Yes <input type="checkbox"/>
Institute / Company						
Street - Number						
Code City						
Country						

Registration

**Deadline for registration:
October 1st, 2018**
Please send your registration to:
POROTEC GmbH
Niederhofheimer Straße 55a
D-65719 Hofheim
Tel.: +49 (0) 6192 2069030
Fax: +49 (0) 6192 2069035
e-mail: info@porotec.de

Conference Fee

The conference fee is
€ 400,- plus VAT.
Students Discount:
€ 99,- plus VAT.

Conference Proceedings

Every participant will receive the conference proceedings during registration.

Accommodation

ATTENTION: NEW WORKSHOP LOCATION

Room orders by phone or via internet directly
H+ Hotel Wiesbaden Niedernhausen
Address: Zum Grauen Stein 1,
65527 Niedernhausen
(Discount: „POROTEC Workshop“)
Phone: 06127 9010
<https://www.h-hotels.com/de/hplus/hotels/hplus-hotel-wiesbaden>

Travel

Travel instructions will be provided with the workshop confirmation. The workshop location is easily to reach by public transportation (S-Bahn).

Workshop Dinner

Tuesday, November 13th POROTEC invites all participants for a dinner.

1. Circular

Invitation to the XIX. Workshop

about the Characterisation of Fines and Porous Solids

„Sorptions Induced Deformation of Solids: Swelling and Shrinkage“

November 13 – 14, 2018

H+ Hotel Wiesbaden Niedernhausen
Zum Grauen Stein 1
65527 Niedernhausen

Organised from



in Co-operation with

Prof. J.A. Lercher

Prof. D. Enke

Prof. A. Gerdes