

2nd ISAPS Symposium on
Flow and Transport in Porous Media
- Highlights of Research and Applications -
July, 5th 2023

Campus Sontheim, Heilbronn University of Applied Sciences

Opening

10:00-10:15 Welcome (HHN / ISAPS)

Session 1: Filtration

10:15-10:45	Martin Lehmann , MANN+HUMMEL GmbH: Advances in filtration simulation - a brief survey on past challenges and solutions
10:45-11:15	Frederik Trinkmann , University Hospital Heidelberg: Lungendeposition aus medizinischer Sicht – wie Medikamente in die Lunge gelangen (und wie nicht)
11:15-11:45	Dennis Hoch , ISAPS: A multi-scale approach for modeling and simulation of aerosol filtration

11:45-13:00 Lunch Break

Session 2: Energy generation

13:00-13:30	Christoph Simon , Audi AG: Structure and performance-defining properties of porous electrodes in hydrogen fuel cells
13:30-14:00	Insa Neuweiler , University of Hannover: Modeling of mass transport processes and their relation to overpotentials in PEM electrolyzers
14:00-14:30	Konrad Böttcher , Tim Neumann und Peter Ehrhard, Technical University of Dortmund: Modellierung und Experimente zum Fuelprozess eines Lithium-Ionen Akkus

14:30-15:00 Coffee Break

Session 3: Various Applications: Production / Noise Reduction / Lubrication

15:00-15:30	Mónica Lucía Álvarez Láinez , Universidad EAFIT, Columbia: Filtration Performance of Nanofiber Membranes with Different Morphologies Produced by Green Electrospinning
15:30-16:00	Frieder Lörcher , Ziehl-Abegg GmbH SE: Poröse Elemente als Ansatz zur Lärmreduktion bei Ventilatoren
16:00-16:30	Markus Scholle , ISAPS: Film flows - Theory and Application

Afterwards: Possibility to visit the ISAPS labs / Finger Food & Drinks