

## Session Program

May 19 - 22, 2025



 **InterPore2025**

Sandia National Laboratories  
Los Alamos NATIONAL LABORATORY  
NEW MEXICO TECH  
SCIENCE • ENGINEERING • RESEARCH • UNIVERSITY  
THE UNIVERSITY OF NEW MEXICO

**17<sup>th</sup> Annual Meeting  
& Conference Courses**

19 - 22 May 2025  
Albuquerque, New Mexico, *USA*  
Conference Courses 18 & 23 May

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## InterPore2025

## MS22

## Thu, May 22

12:05 PM

### MS22: 4.2

Session

12:05 – 12:20 PM

**Design of plate-like black bodies at 1000°C based on black metal coatings: effect of their internal micro-porosity on their effective normal spectral emissivity.**

**Speaker**

Benoit Rousseau

12:20 – 12:35 PM

**A Density Functional Theory-based Force Field for Modelling Silica-Water Interfaces**

**Speaker**

Thanuja Jayawardena

12:35 – 12:50 PM

**Deep Learning-Based Surrogate Model for Predicting Air Permeability of Technical Textiles**

**Speaker**

Eleonora Bianca

12:50 – 1:05 PM

**Detecting condensed water in hydrophobic porous media using inverse gas chromatography**

**Speaker**

Maja Ruecker

1:05 PM

2:45 PM

### MS22: 4.3

Session

2:45 – 3:00 PM

**Additive Manufacturing of Triply Periodic Minimal Surface Structures as Electrodes for Redox Flow Batteries**

**Speaker**

Dr Maxime van der Heijden

3:00 – 3:15 PM

**Hierarchical Numerical Modeling of Tortuosity Modifications in Laser-Engineered Carbon-based Supercapacitor Electrodes**

**Speaker**

Dr Nadia Bali

3:15 – 3:30 PM

**An immobilized hybrid adsorbent / photocatalyst system: ZnO nanoparticles on 3D porous graphene**

**Speaker**

Mr Athanasios Souliotis

3:45 PM