Scientific Program, YIF COPS 2026

2 May 2026			
8:15 – 8:45	**Registration** (Room 182)		
08:45 - 09:00	**Welcome** (Room S89)		
Session 1: Chair: Dr. Javier Garcia Ben (Room S89)			
09:00 - 09:45	Plenary Lecture I	Matthias Thommes *Friedrich-Alexander-Universität (FAU) Erlangen-Nürnberg, Germany*	Insights into the Adsorption and Phase Behaviour of Fluids in Nanoporous Materials: Towards an Advanced Textural and Surface Characterization.
09:45 - 10:00	Presentation	Adrián Gutiérrez Serpa *Universidad de La Laguna, Spain*	Advancing the Preparation of Porous Coatings based on Metal-Organic Frameworks for Solid-Phase Microextraction.
10:00 - 10:15	Presentation	Arooj Ahmed *Erlangen Center for Interface Research and Catalysis, Germany*	Creation of Surface Mesopores in Macroporous Silica *via* Partial Pseudomorphic Transformation.
10:15 - 10:30	Presentation	Rebecca E. Reber *Erlangen Center for Interface Research and Catalysis*	*In-situ* Monitoring of Metal-Organic Framework Synthesis.
10:30 - 11:50	**Coffee Break** (Room 182)		
Session 2: Chair: Dr. Eunji Jin (Room S89)			
11:50 - 11:05	Presentation	Charalampos Katsanakis *University of Southampton, UK*	2D Materials for Hydrogen Adsorption.
11:05 - 11:20	Presentation	Kornel Roztocki	The impact of a single atom on MOF flexibility.

		Adam Mickiewicz University, Poland	
11:20 - 11:35	Presentation	Richard Engemann *Technische Universität Dresden, Germany*	In situ Insights into Cooperative Kinetic Enhancement via Solvent-Induced Restacking in a 2D Metal-Organic Framework.
11:35 - 11:50	Presentation	Léna Triestram, *PSL university, France*	Tools to identify and characterise phase transitions in ZIFs from molecular simulations.
11:50 - 12:05	Presentation	Preeti Bhauriyal, *Technische Universität Dresden, Germany*	Machine-Learning Prediction Of Anodic vs. Cathodic Suitability For CovalentOrganic Frameworks.
12:05 - 12:20	Presentation	Carmen Rosales Martínez *Universitat de València 1, Spain*	Defect-multifunctionalisation through multivariate modulation as a tool to enhance MOFs' environmental applications.
12:20 - 13:30	**Lunch Break** (Room 182)		
Session 3: Dr. Volodymyr Bon (Room S89)			
13:30 - 14:15	Plenary Lecture II	Camille Petit *Imperial College London, UK*	The Characterisation of Porous Solids for Application in Direct Air Capture.
14:15 - 14:30	Presentation	Paula G. Fraile *IMDEA Energy Institute, Spain*	Sustainable Production of IEF-40: A Scalable Iron-Squarate MOF for Efficient CO_2 Valorization.
14:30 - 14:45	Presentation	Sri Rezeki *Friedrich-Schiller University Jena, Germany*	Atmospheric Water Harvesting with Alkali and Transition Metal Containing Heteroatom-Rich Carbon Materials.
14:45 - 15:00	Presentation	Chloe Jacq *CNRS, France*	H_2O and CO_2 adsorption in different MOFs: experimental isotherms, heats of adsorption and their modeling.
15:00 - 15:15	Presentation	Anton Salomon *Fraunhofer Institute for Manufacturing*	Characterization of open porous metallic foams using conventional and nonconventional methods.

		Technology and Advanced Materials IFAM, Germany	
15:15 - 15:30	Presentation	Lei Liu *University of Science and Technology, China*	MOF-based Porous Water for CO_2 Capture
15:30 - 15:45	Presentation	Naveen Kumar *Immaterial Ltd, UK*	Decarbonising the World with monolithic MOFs.
15:45 - 16:05	**Coffee Break** (Room S89)		
16:05 - 17:15	**Roundtable Discussion:** „Future of porous materials“ Moderator: Dr. Paul Iacomi (Room S89)		
17:15 - 19:15	**Poster Session** (Room 183)		

3 May 2026			
Chair: Dr. Irena Senkovska (Room S89)			
09:00 - 09:45	Plenary Lecture III	Alexander Neimark *Rutgers University, USA*	Linking adsorption and pore structure properties of MOFs by molecular simulations.
09:45 - 10:05	**Coffee Break** (Room 182)		
Session 3. Chair: Dr. (Room S89)			
10:05 - 10:20	Presentation	Aleksandra Gerszendorf *Material Science and Engineering Centre, Poland*	A Strategy to enhance photon upconversion emisson in lanthanide MOFs.
10:20 - 10:35	Presentation	Timur Ashirov *University of Fribourg, Switzerland*	The Role of Shape-Persistent Macrocycles in Separation Applications.
10:35- 10:50	Presentation	Simon W. J. Dietzmann *Bundesanstalt für Materialforschung und -prüfung (BAM),*	A Pore or Not a Pore? Decoding Apparent Ultramicropores Through Site Specific Adsorption in Non-Graphitic Carbon and Atomically-Dispersed M-N-C Materials.

		Technische Universität Berlin, Germany	
10:50 - 11:05	Presentation	Alexander E. Kurtz *Instituto de Nanociencia y Nanotecnología, Argentina*	Texture analysis of scalable green synthetized UiO -66-NH_2 MOFs with surfactants as mesoporous templates.
11:05 - 11:20	Presentation	Mohammed Shafeeullah *Technical University of Denmark, Denmark*	Thermal Evolution of Catalytically Active Nanoparticles from a 2D Zn-PorphyrinBased Metal-Organic Framework: In situ TEM Insights.
11:20 - 11:35	Presentation	Sara Talebi Deylamani *Technical University of Denmark, Denmark*	How Enzymes Reshape Porous Crystals: Direct Evidence of Nanocavity Formation in ZIF-L via Electron Microscopy.
11:35 - 12:00	**Closing remarks and Poster Prize** (Room S89)		