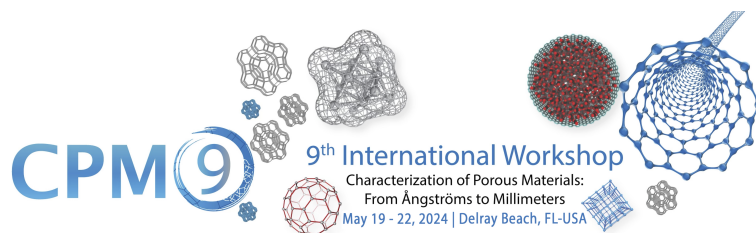


# CPM-9



**Sunday, May 19, 2024 - Wednesday, May 22, 2024**

**Opal Grand Oceanfront Resort**

## Scientific Program

See detailed Timetable  
See program with a list of posters  
Opening Address  
Katsumi Kaneko, Shinshu University Japan  
Keynote Lectures

**Adsorption and diffusion in nanoporous materials: the view from the nanoscale**

Benoit Coasne, University of Grenoble-Alpes, France

**Combining multiple functions to achieve process intensification in adsorptive separations**

Joeri Denayer, Vrije Universiteit Brussel, Belgium

**Deformation Dynamics of Nanoporous Solids upon Liquid Imbibition**

Patrick Huber, Hamburg University of Technology, Germany

**Structure characterization-mediated designing of novel carbon-based nanostructured materials**

Katsumi Kaneko, Shinshu University, Japan

**Material discovery with physics and AI**

Lev Sarkisov, University of Manchester, UK

**Structural changes in ZIFs upon gas and liquid phase adsorption**

Joaquin Silvestre-Albero, University of Alicante, Spain

**Insights into Capillary Condensation and Hysteresis in Nanoporous Materials from New Simulation Methods**

Randy Snurr, Northwestern University, USA

**3-D Density Functional Theory to Describe Adsorption of Pure Substances and Their Mixtures on Crystalline and Amorphous Adsorbents**

Fred Tavares, Federal University of Rio de Janeiro, Brazil

**Separation Performance of Zeolitic-Imidazolate-Framework-Based Membranes**

Michael Tsapatsis, John Hopkins University, USA

Closing Remarks

Keith Gubbins, North Carolina State University, USA

Après CPM-9 Activity:

Anton Paar QuantaTec Barbecue Lunch and Facility Tour in Boynton Beach

**Wednesday May 22, 2024, 1:30PM**

Sign up by emailing Maritza Roman at Anton-Paar.

Transportation from the hotel after the CPM-9 closure at 1PM.

## **Oral Presentations**

[View Accepted Oral Presentations](#)

## **Poster Presentations**

[View Accepted Poster Presentations](#)

## **Keynote Speakers**