

Online
workshop

Organised in partnership with University of Namur

Advanced sorption techniques for physico-chemical characterization of solid-state materials

Gain a new level of insight for your research into solid-state materials!

This workshop covers in-depth Dynamic Vapor Sorption (DVS) and Inverse Gas Chromatography (iGC) techniques and their applications in the study of materials such as powders, fibres, nanomaterials, pharmaceuticals, polymers, and so on.

14 Oct
2020

9am BST (10am CEST)

Duration: 2 hours

Join the workshop

Presenter:

Dr. Damiano Cattaneo

University of St. Andrews

Dr. Sabiyah Ahmed

Imperial College London

Dr. Meishan Guo

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The workshop is beneficial to individuals who work in the areas of:

- Pharmaceutical & Food Materials
- Nanomaterials
- Porous Materials & Catalysts
- Fibres & Fillers
- Energy & Environmental
- Polymers & Packaging

In the workshop, you will learn about:

- Capability of DVS and iGC technology and an overview of applications in various industries
- Overview of benefits when coupled with different microscopic and spectroscopic techniques (Raman/IR/video camera)
- Extra insight from examples and case studies for:
 - Moisture sorption properties of materials relating to their drying and shelf life stability
 - Determination of amorphous contents and vapour-induced phase changes (glass transition temperature & adhesion/cohesion)
 - Sorption isotherms & BET surface area

Agenda:

- Introduction to Surface Measurement Systems
- DVS – Introduction and Basic Applications
- iGC-SEA – Introduction and Basic Applications
- BET Surface Area using DVS and iGC techniques
- Instrument demonstration and Q&A