

Accepting
Registration!

22 May
2020

Start time:
13:00 BST | 14:00 (CEST)

Guest speaker/presenter:

Prof. Daryl Williams
(Imperial College London)

Meishan Guo
(Surface Measurement Systems)

For information on how to participate on the
online workshop, please contact:

Mrs. Nektaria Servi
nservi@surfacemeasurementsystems.com

To register, please visit the link below :

<https://www.surfacemeasurementsystems.com/29026>

Online workshop!

Sorption Technology: The key methods in investigating vapor sorption properties

The workshop covers in-depth Dynamic Vapor Sorption (DVS) and Inverse Gas Chromatography (iGC) techniques and its applications. It will focus on characterising materials that will benefit individuals working in industry such as:

- Graphene, for a range of applications including membranes for filtration and coatings, energy storage and functional composites
- Biomaterials
- Nanofabrication
- Batteries
- Coatings for aerospace and automotive industry
- Thin films

Dynamic Vapor Sorption (DVS)

DVS system allows for real-time monitoring and controlling of vapor and gas concentration for sorption measurements in solid state materials. The sorption mechanism may be investigated from sorption/desorption isotherms, hysteresis effects, and sorption kinetics. The combination of a video microscope and vibrational spectroscopic techniques with DVS would allow for increased understanding of vapor-induced structural changes of solid materials.

Inverse Gas Chromatography - Surface Energy Analyzer (iGC-SEA)

This system is specially designed to determine the surface energy heterogeneity but nevertheless suitable for measuring different surface and bulk properties of solid materials including acid-base properties, heat of sorption, glass transition temperature, solubility parameters.