SMS instruments are used over a wide range of disciplines. To keep abreast with cutting edge research using dynamic vapor sorption and inverse gas chromatography, SMS regularly reviews the literature. The below papers present recent peer-reviewed articles utilizing gravimetric vapor sorption or inverse gas chromatography.

DVS Articles:


RUD Nassar and P Soroushian, “Green and durable mortar produced with milled waste glass” Magazine of Concrete Research, 64(7): 605-615 (2012).


D Argyropoulos, R Alex, R Kohler, and J Muller, “Moisture sorption isotherms and isoteric heat of sorption of leaves...”
and stems of lemon balm established by dynamic vapor sorption” Food Science and Technology, 47(2): 324-331 (2012).


IGC Articles:


HR Pakravan, M Jamshidi, M Latifi, and MM Chehimi, “Polymeric fibre adhesion to the cementious matrix related to the fibres type, water to cement ratio and curing time” Int. J. of Adhesion and Adhesives, 35:102-107 (2012).


New SMS Publications:

**Application Notes**

"Characterisation of Wheat Straw for Bio-fuel Application" DVS Application Note 57.

"Surface Energetic Heterogeneity of Carbon-based Nanomaterials" IGC Application Note 226.

**Upcoming Conferences:**

**Society of Wood Science and Technology:** Beijing, China; 1-2 27-31 August 2012; Exhibitor and Presenter.
- Poster Presentation: "Characterisation of Wheat Straw Using Dynamic Vapour Sorption Method"

**APS PharmSci Fair 2012:** East Midlands Conference Centre, Nottingham, UK; 12-14 September 2012; Exhibitor.

**AAPS Annual Meeting:** Chicago, IL, USA; 14-18 October 2012; Exhibitor and Presenter.
- Poster Presentation: Correlating Surface Energy and Wettability Measured by IGC to Dissolution Properties of Dry Powder Inhaler Formulations
- Poster Presentation: Monitoring Moisture-Induced Phase Transformations using in-situ Raman Spectroscopy and Gravimetric Vapor Sorption Methods
- Poster Presentation: Prediction of electrostatic charging behaviour of medical device polymers

**AIChE:** Pittsburgh, PAZ, USA; 28 Oct - 02 Nov 2012; Exhibitor and Presenter.
- Poster Presentation: Water and Methanol Vapor Diffusion Rates in Proton Exchange Membranes
- Oral Presentation: Energetic Heterogeneity of Carbon Fibers with Different Surface Treatments and the Effects on Wettability
- Oral Presentation: Measuring the Energetic Heterogeneity of Pharmaceutical Powders and the Effects On Powder Processing and Formulation

**DACH User Meeting:** Germany; 07-08 Nov 2012; Exhibitor and Presenter.

SMS Training:

**SMSNA Office:** 11 September 2012 (DVS) and 12 September 2012 (IGC/SEA); Email Science@smsna.com for details.

**SMSUK Office:** 04 September 2012 (DVS); 05 September 2012 (IGC/SEA); Email Science@smsuk.co.uk for details.