

Particle Characterisation Interest Group of RSC

Analytical Division
The Royal Society of Chemistry

Training Meeting on Particle Size Measurement (Certificate of Training for Professional Development Provided)

**At Pirelli Stadium,
Burton-on-Trent
DE13 0AR
Wednesday 5th September 2012**

Particle Sizing is just one task undertaken within modern laboratories. Such laboratories often experience a turnover of people in order to further the career paths of the laboratory staff, and it is not always possible for the outgoing staff to pass on their experience and knowledge to the newcomers. This training day is provided by some of the most experienced members of the practising Particle Characterisation community and offers a comprehensive and practical view of the measurement of particle size distributions and other characterisations. The techniques of sampling, dispersion, presentation of results and current standards and certified reference materials will be tailored and addressed relevant to each technique. Particular attention will be paid to the pitfalls that may be encountered. Comprehensive notes will be provided together with a certificate of training. The day ends with a forum for open discussion on the subject, as well as the opportunity to discuss topics on an individual basis.

PROGRAMME

9.00-09.30 Registration and Coffee

- 09.30 Crystallisation Processes and Their Impact on Particle Characteristics
Gerry Steele, ex AstraZeneca now independent crystallisation consultant
- 10.10 Particle Characteristics and Analysis: equipment selection, common concepts and data handling
Richard Holdich, Loughborough University
- 10.45 Coffee
- 11.00 Laser Diffraction both of dry and dispersed materials 'Pitfalls and Triumphs'
Maurice Wedd, PGIC
- 11.40 'See how they go' NanoSizing techniques
Bob Carr, Nanosight
- 12.20 Surface area and Pore Size Measurements
Mike Tucker, Quantachrome

13.00 - 14.00 Buffet Lunch / Demonstrations

- 14.00 Image Analysis, 'Size Shape and Chemical Species'
Greg Spicer, Particle Technology Ltd./ Paul Kippax, Malvern Instruments
- 14.45 Electrozone (Coulter Counter) Sensing Method and Method Development
Brian Miller, Meritics Ltd.
- 15.30 Summary and User Forum lead by Dave Merrifield: to conduct an exchange forum to resolve questions submitted beforehand (*web site details will be circulated*) so that all may learn or contribute
- 16.30 Tea and Meeting close**, further discussions, post-Forum, on an individual basis