

Particle Characterisation Interest Group of RSC
Analytical Division
The Royal Society of Chemistry

“Bubbles In Science and Industry: Uses and Characterisation”
At The National Brewery Centre,
Horninglow Street, Burton-on-Trent
DE14 1NG

Wednesday 27th November 2013

The science of Bubbles encompasses a broad field. From the holes in a Goya cheese to the micron and sub-micron sized bubbles collapsing to assist both dispersion and ultrasonic cleaning, as well as in medical applications. The Far East nations of Japan, China and Korea have patented extensively in industrial bubble uses and Japan has formed the ‘Fine Bubbles Industries Association’. The Science and commercial application within industrial applications is limited within the UK and Europe, but bubbles use in EU medical science is quite advanced. One of the intentions of this meeting is to learn from the different fields of endeavour, covering fine bubble generation, characterisation and applications. The remit of PCIG is to inform and facilitate discussion and to this end we invite you to register for the 1 day meeting at the National Brewing Centre, an industry well known for its application of bubbles, to be held in Burton upon Trent on November 27th.

09:15 – 09:45	Registration and Coffee
09:45 – 10: 00	‘Introduction and Fine bubble characterisation challenges’, Richard Holdich, Loughborough University
10:00 – 10: 30	‘Nanoparticle Tracking Analysis (NTA) for the direct visualisation, sizing and counting of nanobubbles in real time’ Bob Carr, Nanosight Ltd
10:30 – 11:00	‘Knowing your bubbles in medical and industrial applications’, Gianluca Memoli, NPL.
11:00 – 11: 20	Coffee, Exhibition and Posters
11:20 – 11:50	‘Bubble sizes in agitated solvent/reactant mixtures used in heterogeneous catalytic reactions’, Andrzej Pacek, Birmingham University.
11:50 – 12:20	‘Microbubble distillation, ethanol fermentation and yeast microflotation harvesting’, Will Zimmerman, University of Sheffield
12:20 – 12:50	Applications of Ultrafine bubble technology and industrialization activity initiated by Fine Bubble Industries Association, Dr. Toshihiro FUJITA, Vice-Chairman of FBIA
12:50 – 13:30	Lunch, Exhibition and Posters
13:30 – 14:00	‘Engineering Theranostic Microbubbles’, Prof. Stephen Evans, School of Physics and Astronomy, University of Leeds
14:00 – 14:30	‘Ultrasound contrast agents for both the treatment and diagnosis of cancer’, James McLaughlan, Leeds Microbubble Consortium.
14:30 – 15:00	‘Nano and Micro Bubbles Characterisation and Quantification with Tunable Resistive Pulse Sensing’, Dr Dimitri Aubert, Izon Ltd, UK.
15:00 – 15:30	Fine Bubble Technology- toward ISO standardization, Dr. Nobuhiro AYA, Secretary of ISO TC 281
15:30	Tea, Discussions and optional tour of the Brewery Museum

An exhibition of characterisation equipment and poster displays are welcome.

“Bubbles In Science and Industry Uses and Characterisation” Registration Form

To register please complete this page and return with payment as soon as possible to:

PCIG C/O Particle Technology Ltd
Station Yard Industrial Estate, Hatton, Derbyshire, DE65 5DU.
Tel: 01283 520365
Fax: 01283 520412 Email: Sales@particletechnology.com

Delegate (please complete one form per delegate)

Name	
Company	
Address	
Telephone	
Fax	
E mail	
Indicate Payment Method & Amount	
Dietary Requirements	
Please indicate where you heard of this meeting	
Topics of Interest	

Registration Fees: Please indicate*

Costs include tea/coffee and lunch: £145.00 Non Members, £120.00 RSC/PCIG Member, £55.00 Student Rate

I enclose a cheque for £_____ payable to Particle Characterisation Interest Group

(overseas cheques should be made in £ Sterling by a cheque drawn on a London Bank or otherwise free of all bank charges and commission).

Registration fees must be paid prior to the official start of the event. Registration can only be confirmed on receipt of payment. Receipts will be sent on request with a map and confirmation of Booking.

If paying by credit card please include details: **Unfortunately, we are unable to accept American Express**

Name of Cardholder	
Credit Card Number	
Expiry Date	
Security Code (last 3 digits on reverse of card)	

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