

## REGISTRATION FORM

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Please register me for

### Industrial Solid-Liquid Separation Equipment Training Course – 15 May 2012

- £210 Non-member  
 £170 Member of The Filtration Society  
 £150 Students (a copy of your student registration card will be required)  
 £35 Dictionary of Filtration and Separation

#### Please send information on:

- Individual or Student membership  
 Corporate Association

#### Payment method

- Cheque enclosed for £.....  
 Credit Card: Please charge my MasterCard – Visa

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Security Code: \_ \_ \_  
(last 3 digits on reverse side of card)

Cardholder name: .....

Expiry date: .....

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- Please invoice

Please send this form **WITH PAYMENT** to:  
**The Filtration Society, The Well House, West Hill Road,  
West Hill, Ottery St Mary, Devon, EX11 1UZ, UK.**  
or fax it to The Filtration Society at  
+44 (0)1404 814947  
or email it to The Honorary Secretary at  
**richard@richardwakeman.co.uk**

*Cheques should be made payable to **The Filtration Society**. Charges include lunch and refreshments. An invoice will be issued on receipt of payment. The Society regrets that it cannot refund the registration fee if registrants cancel within 2 weeks of the date of the meeting. Prior to that a 20% cancellation fee will apply.*

## ABOUT THE SOCIETY

The Filtration Society was formed in London in 1964. It is a charitable, non-profit organisation established to advance and disseminate knowledge on the design and use of filtration and separation techniques in industry, commerce and other walks of life.

Membership of the Society is available at several grades including Student and Individual levels. Corporate Association is available to companies. Membership is open to interested individuals; most members work for manufacturers and users of filtration and separation technologies, or for universities and research organisations.

The Society organises regular technical meetings that keep members up to date with advances in filtration and separation and their application and refreshes their knowledge of established technologies. Membership has many benefits which, depending on the grade, include:

- Reduced registration fee at meetings
- Networking and sales opportunities
- Regular copies of the quarterly journal FILTRATION, the official journal of the Society
- A 12½% discount on “The Dictionary of Filtration and Separation” from Filtration Solutions
- A 50% discount on “Filtration & Separation”

The Society currently has members in about 30 countries around the world. It has an established Trust Fund which is used to recognise distinguished contributions to filtration and separation through the award of The Gold Medal and The Suttle Award.

Further details can be found in The Filtration Society membership leaflet or on the world wide web at:

**www.filtsoc.org**

**Attendance at Filtration Society meetings is open to all - members, non-members, UK and non-UK delegates. All delegates will receive a comprehensive set of bound notes which have always proved to be a very popular and up to date reference source.**



*in association with Filtration Solutions*

# Industrial Solid-Liquid Separation Equipment Training Course

**15 May 2012**

**to be held at  
The Heath Conference Centre,  
Runcorn, UK**

## COURSE PROGRAMME - 15 MAY 2012

- 9.30-9.45 **Introduction**  
The Solid/Liquid Separation process; overview of the course.
- 9.45-10.30 **Principles of Sedimentation and Filtration**  
Sedimentation and cake filtration fundamentals (including compressible cakes) – how cake filters work. Driving forces for solid-liquid separation equipment. Depth filtration fundamentals – how depth filters work. Importance of correct filter media selection.
- 10.30-11.15 **Getting Filtration Data**  
Obtaining necessary data to select and size solid-liquid separation equipment - laboratory tests (leaf tests, pilot scale tests, jar tests) and their relevance to process scale filters.
- 11.15-11.40 Break and discussion period
- 11.40-12.25 **Membrane filters**  
Membrane filters (microfilters, ultrafilters and nanofilters), types of media (e.g. polymeric, ceramic and metallic). Media configurations (e.g. sheet, wound spirals, pleated cartridges) and their characteristics and operational properties.
- 12.25-13.10 **Pressure Filters**  
Alternative designs of pressure filters (e.g. filter presses, tubular and leaf element filters, variable volume filters, belt presses), clarification filters (e.g. diatomaceous earth filters) effects of filter operating characteristics, applications.
- 13.10-14.00 Lunch
- 14.00-14.40 **Vacuum Filters**  
Alternative designs of vacuum filters (e.g. drum and disc filters, belt filters, table filters, pan filters), precoat filters, effects of filter operating characteristics, applications.
- 14.40-15.20 **Centrifugal Separators**  
Sedimenting and filtering centrifuges – principles and alternative centrifuge designs (e.g. plough, peeler, pusher and decanter centrifuges).
- 15.20-15.45 Break and discussion period
- 15.45-16.30 **The Process of Buying: Marketing and Selling Solid-Liquid Separation Equipment**  
The solid-liquid filtration market (an insider's view) – composition, players, trends. The push from industry needs and pull from developing technologies. A chemical or mineral process life-cycle – development, execution and optimisation. Managing the ideal buying (and selling) process.
- 16.30-17.15 **How to Select Solid-Liquid Separation Equipment**  
Generic equipment types, approaches to selection and simulation, use of computer software (methodology, selection charts, and data analysis) showing simple and advanced procedures.
- 17.15-17.30 **Concluding Discussion**

**All attendees of the Course will receive a printed book containing copies of the presentations. During the discussion periods, attendees will be encouraged to raise matters related to their problems and experiences, or to other filtration and separation topics that are of particular interest to themselves.**

**Attendees will receive a Certificate of Attendance.**

### The Course Presenters

Professor Richard Wakeman is a consultant chemical engineer with 40 years experience of working with industry internationally (richard@richardwakeman.co.uk). He has held professorships at Loughborough (UK), Exeter (UK), Pardubice (Czech Republic) and Chun Yuan (Taiwan) Universities and has been a Visiting Fellow at Mumbai University (India). He is the Honorary Secretary of The Filtration Society and a Fellow of the Institution of Chemical Engineers and the Royal Academy of Engineering.

Dr Steve Tarleton (e.s.tarleton@lboro.ac.uk) is the Chairman of The Filtration Society, and a Senior Lecturer at Loughborough University, and has been Secretary of the EFCE Working Party on Filtration and Separation.

Dr Trevor Sparks (info@solid-liquid-filtration.com) has more than 15 years experience in the filtration equipment business, responsible at various times for sales, marketing, promotion, process/product development and strategic development. He is now working as a consultant to end-users and other players in the filtration industry. The presenters are internationally recognised experts who are members of the Council of The Filtration Society, and who have been Chairmen and Vice-Chairmen of The Filtration Society. They have authored many books and some 500 technical articles.

Dr Tarleton and Professor Wakeman's work has been published widely and recognised by awards from the Institution of Chemical Engineers, The Filtration Society, and the Indian Institute of Chemical Engineers.

### The Venue

The Heath Conference Centre, Runcorn, is set in the heart of the Heath Business & Technical Park. It is well served by a network of motorways and offers ample free car parking, and is near Manchester and Liverpool International Airports.

### FILTRATION SOCIETY MEETINGS in 2012

October	Training Course – Filter Testing
October	Filter Testing and Characterisation Conference and Exhibition
November	Training Course – Membrane Separation Processes