

REGISTRATION FORM

Name:
Company:
Address:
.....
..... Post Code:
Tel: Fax:.....
E-mail:

Please register me for

Filter Media Training Course – 5 November 2013

- £220 Non-member
 £180 Member of The Filtration Society
 £35 Dictionary of Filtration and Separation

Filter Media Conference – 6 November 2013

- £150 Non-member
 £110 Member of The Filtration Society
 £45 Student/Retired (proof required)

Exhibitors Table Top Displays – 6 November 2013

- £295 Corporate Associate (includes entry for 2 people)
 £495 Non-Corporate (includes entry for 2 people)

Please send information on:

- Individual Membership and Corporate Association

Payment method

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

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

Cardholder name:

Expiry date:

Signature:

- Please invoice

Please send this form **WITH PAYMENT** to:

**The Filtration Society, 6 McCarthy Close, Whitwick,
Leicestershire, LE67 5HN, UK**

or fax to The Filtration Society at **+44 (0)1530 382038**
or email to Hon. Secretary at **steve.tarleton@ntlworld.com**

*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.

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

Membership has many benefits which, depending on the grade, include:

- Reduced registration fees at meetings
- Networking and sales opportunities
- Copies of the quarterly journal FILTRATION, the official journal of the Society
- A 12½% discount on 'Dictionary of Filtration and Separation' from Filtration Solutions
- A 50% discount on 'Filtration & Separation'

The Society currently has members in over 20 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 of Membership and Corporate Association can be found at on the Society website 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.



The
FILTRATION
Society

www.filtsoc.org

Filter Media 6 International Conference and Exhibition

and

Media for Gas and Liquid Filtration Training Course

+

Annual General Meeting

5-6 November 2013

to be held at
**Mercure Hotel, Christleton,
Chester, UK**

MEDIA for GAS and LIQUID FILTRATION TRAINING COURSE – 5 NOVEMBER 2013

- 9.30 Registration
- 10.00 **Introduction** - The scope of filter media.
- 10.15 **The Role of Media in Filtration.** Filtration mechanisms – cake and depth filtration - how particles are separated from the gas or liquid flow. Permeability and porosity – interactions between deposited particles and filter media structure. Effects of particle properties. Fluid flow through media and the deposited particles.
- 11.00 Coffee break.
- 11.20 **Fibres and Yarns for Filter Media.** Requirements for filter media. Natural and synthetic fibres. Fibre spinning and drawing. Fibre properties, multifilament yarns, interlacing, texturing, plied yarns, and yarn counting. Range of available media and its classifications.
- 12.05 **Woven Media – Production, Structure and Properties.** How woven media are made. Yarn and weave property effects on media construction. Fabric finishing (stabilisation and surface treatments). Effects of media construction on its performance in a filter. Multi-layer and composite woven media. Effect of filter operation on media damage. Selection of woven fabrics. Relative costs.
- 12.50 Open discussion followed by lunch.
- 14.00 **Non-woven Media – Production, Structure and Properties.** How non-woven media are made. Types of media (needlefelts, bonded, dry laid spun, wet laid fibrous). Filter constructions from non-woven media and their applications (for gas and liquid applications). Nanofibres. Surface treated media.
- 14.45 **Membranes and Reactive Media.** Membrane materials. Polymeric and inorganic membranes – properties and advantages/disadvantages. Composite and structural membranes. Configurations, application and performance of membranes in liquid processes. Inorganic reactive media in hot gas filtration.
- 15.30 Tea break.
- 15.50 **Testing Filter Media for Gas Applications.** Pressure drop, permeability, arrestance and filter clogging. Challenge testing. Filter classes (primary, secondary, HEPA and ULPA). Filter efficiency testing.
- 16.35 **Characterising and Testing Filter Media for Liquid Applications.** Permeability, pore size and bubble point. Mechanical properties. Single and multi-pass, challenge and rejection tests. Beta rating. Dirt holding capacity. Integrity testing (pressure decline test, diffusive air flow test).
- 17.20 Open discussion.

The course presenters will be Professor Richard Wakeman and Dr Steve Tarleton

Course attendees will receive a book containing copies of the presentations. During discussion periods, attendees will be invited to raise matters related to filter media that are of particular interest to themselves. Attendees will receive a Certificate of Attendance.

FILTER MEDIA 6 CONFERENCE 6 NOVEMBER 2013

- 9.00 **Registration**, with coffee
- 9.35 **Welcome and Introduction** – Steve Tarleton, Loughborough University
- 9.40 **Fine Microporous Filter Media for Industrial Process Filtration**, Shireesh Pankaj, Clear Edge, Germany
- 10.10 **Measuring Filter Cut Points and Pore Size Distributions Using Glass Microspheres**, Graham Rideal, Whitehouse Scientific, UK
- 10.40 **Coffee break + visit exhibition**
- 11.10 **Pressure Drop, Filtration Efficiency and Cleanability of Woven and Nonwoven Multilayer Filter Media**, Markus Kniefel, GKD, Germany
- 11.40 **Slotted Metal Filters Treating Hot Wastewater from Carbonised Biomass**, Richard Holdich, Loughborough University, UK
- 12.10 **Poster presentations by exhibitors**
- 13.10 **Lunch + visiting exhibition**
- 14.20 **Developments and Case Studies in Hot Gas Filtration for Gasified Waste Streams**, Ian Chisem, Clear Edge, Germany
- 14.50 **Regeneration of a Ceramic Filter Medium – Acid Dilution of Iron Oxides**, Riina Salminies, Lappeenranta University, Finland
- 15.20 **Tea break + visit exhibition**
- 15.45 **Temperature Sensitive Functionalised Filter Cloths to Enhance Filter Washing**, Pentti Pirkonen, VTT, Finland
- 16.15 **Introducing Functionality to Filter Media**, Bhavani Vijayakumar, Croft Filters, UK
- 16.45 **Close of Conference**
- 17.00 **Annual General Meeting of The Filtration Society**

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EXHIBITION

An exhibition will be held at the Filter Media 6 conference. Exhibitor packages are available – for more information contact the Honorary Secretary (steve.tarleton@ntlworld.com) or Dr Graham Rideal (rideal@whitehousescientific.com)

The Mercure Hotel Chester is well served by a network of motorways and offers ample free car parking, and is near Manchester and Liverpool International Airports



FUTURE MEETINGS OF THE FILTRATION SOCIETY Filtration Society 50th Anniversary Conference, October/November 2014

The official journal of The Filtration Society - FILTRATION

FILTRATION is sent to members as a benefit of Individual Membership and to Corporate Associates as a part of their association package. This internationally recognised journal is a primary means of communication between both members and associates concerning matters related to filtration and separation. All papers published in FILTRATION are abstracted and indexed by Chemical Abstracts, GEOBASE, MEI Online and Scopus.