

REGISTRATION FORM

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

Please register me for

'Filter Media 5' Short Course – 12 October 2011

- £240 Non-member
 £180 Member of The Filtration Society
 £35 Dictionary of Filtration and Separation

'Filter Media 5' Conference – 13 October 2011

- £150 Non-member
 £110 Member of The Filtration Society
 £75 Student/Retired (proof required)
 £50 discount for attending both Short Course and Conference

Exhibitors Table Top Displays – 13 October 2011

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

Please send information on:

- Individual or Student membership
 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 or fax this form **WITH PAYMENT** to:

**The Filtration Society, The Well House, West Hill Road,
West Hill, Ottery St Mary, Devon, EX11 1UZ, UK.**

Fax +44 (0)1404 814947

*Cheques should be made payable to **The Filtration Society**.
Charges include course and/or conference notes, lunch and refreshments. The Society 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 fees 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" and "Filter Design Software" 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:

<http://www.filtsoc.org>

Members and non-members are welcome to attend the Annual General Meeting of The Filtration Society, but only members may vote.



The
FILTRATION
Society

www.filtsoc.org

Filter Media 5 International Conference and Exhibition

and

Media for Gas and Liquid Filtration

Short Course

+

Annual General Meeting

12-13 October 2011

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

MEDIA for GAS and LIQUID FILTRATION SHORT COURSE - 12 OCTOBER 2011

- 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 5 - 13 OCTOBER 2011

- 9.00 Registration
- 9.30 Welcome and Introduction – Richard Lydon, Clear Edge Filtration.
- 9.40 Mineral Filter Aids: Diatomite and Perlite – Origins and Industrial Applications. Niels Mastrup, EP Minerals, USA.
- 10.05 Development of Ceramic Filter Media and maintaining Performance in cake Filtration. Bjarne Ekberg, Outotec, Finland.
- 10.30 Coffee break + visiting exhibition.
- 11.15 Application of a Bicomponent Spunbond Support layer for Improvement of your Filter Media. Annemarieke Maltha, Colbond bv, The Netherlands.
- 11.40 New Functionalities for Textile Media with GEATEX Technology. Thorsten Stoffel, GEA Air Treatment GmbH, Germany.
- 12.05 Poster presentations by exhibitors.
- 13.00 Lunch + visiting exhibition.
- 14.30 Porous Plastic Membranes – a Low Cost Alternative to Ceramic Membrane Filters. Christopher Flinn, Porex Filtration, USA and UK.
- 14.55 Technical Aspects of Virotec Technology for the Treatment of Soluble Heavy Metals. David Rayne, Virotec Europe Ltd, UK.
- 15.20 Tea break + visiting exhibition.
- 15.50 The Design and Validation of Woven Filter Media using GeoDict CFD Modelling. Markus Knefel, GKD – Gebr. Kufferath AG, Germany.
- 16.15 Test Rigs for Engine Intake Filter Media up to ULPA Filter Media. Sven Schultz, Palas GmbH, Germany.
- 16.40 Close of Technical Meeting
- 17.00 **Annual General Meeting of The Filtration Society**

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.

EXHIBITION

An exhibition will be held at the Filter Media 5 conference. Exhibitor packages are available – for more information contact the Honorary Secretary (richard@richardwakeman.co.uk) or Dr Graham Rideal (rideal@whitehousescientific.com)

The Ramada 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

| | |
|---------------|-------------------------------------|
| 13 March 2012 | Industrial Water Recovery and Reuse |
| May 2012 | Medical Filtration |
| October 2012 | Filter Testing and Characterisation |

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.