FILTECH

February 24 – 26, 2015 Cologne – Germany

The Filtration Event www.Filtech.de

International Conference & Exhibition for Filtration and Separation Technology





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The Filtration Event

FILTECH is the largest and most important special interest event worldwide devoted entirely to filtration and separation technology. The event is a must for all those concerned with designing, improving, purchasing, selling or researching filtration and separation equipment and services.

International Conference

"Palas[®] was even represented with a trade fair stand at the first **FILTECH** in London.

We are impressed by the concept and the organisation of **FILTECH**, as we have been able to record a continuous increase in visitor numbers and exhibitors at every event.

The accompanying congress offers us the opportunity to keep up to date on the latest research results, worldwide developments and procedures and present our know-how and portfolio in our own specialist lectures."

Leander Mölter, Managing Director & Martin Schmidt, Head of Sales, Palas[®] GmbH Stand C9 The **FILTECH 2015** Conference is the globally acknowledged platform for the scientific exchange of the latest research results and the knowledge transfer between theory and practice. It will again provide a representative survey of current research findings and state-of-the-art developments for the solution of filtration and separation targets in a wide range of sectors.

180 lectures from 27 countries

An exciting programme with over 180 lectures from 27 countries gives a representative crosssection of the different procedures and appliances of separation technology as well as across the industry about the applications, from the preparation of mineral raw materials, the chemistry, environmental technology and water purification down to the pharmacy and biotechnology. The latest results from basic research, innovative equipment-based solutions and procedures will also be presented.



Travel & Accomodation

FILTECH 2015 will be held at the the new venue Koelnmesse in Cologne. Due to Koelnmesse's central location, which is conveniently situated for all transport links, visitors can quickly reach the exhibition centre by car, train and plane. High-speed ICE trains connect the airports in Frankfurt (FRA), Düsseldorf (DUS), Cologne-Bonn (CGN) directly to the exhibition center via Köln Messe/Deutz station.

Free Cologne Public Transport Ticket for all Participants

Registered FILTECH 2015 participants can receive a free "Public Transport Ticket". This ticket entitles to unlimited free travel on the Cologne public transport bus and regional train services from 24-26 February, 2015. Tickets are available in the VRS-Ticketshop which can be accesses with an individual code.

Codes are send via e-mail. Conference delegates receive their code together with the registration confirmation. All trade visitors who have registered by January 20 will receive registration with their code and link to the VRS-Ticketshop prior to the Show.

Travel discounts

STAR ALLIANCE

The Star Alliance™ Members Airlines is the Official Airline Network for FILTECH 2015.

FILTECH 2015 Participants can save up to 20% on travel with the Star Alliance™ Network!

FILTECH 2015 Log-In Convention Code: LH03S15

Registered participants plus one accompanying person travelling to the event are automatically granted a discount of up to 20%, depending on fare and class of travel booked. Discounts are offered on published business and economy class fares, excluding website/internet fares, senior and youth fares, group fares and Round the World fares.

Booking information and online booking: www.filtech.de \rightarrow Travel & Hotel

With the offer of FILTECH and Deutsche Bahn you can save money by visiting FILTECH 2015!



2nd class Euro 99

1st class Euro 159

Good for the environment. Convenient for you.

Get on board and profit from attractive prices and conditions for train travel

Your ticket is valid from 22th to 28th of February 2015.

If travelling by train from outside Germany, you can also take advantage of this reduced fare by booking this special ticket which is valid throughout Germany.

Detailed information is available at

www.filtech.de \rightarrow Travel + Hotel Info.

To book call +49 (0)1806 - 31 11 53** and quote "FILTECH" as reference. Have your credit card ready please.

From 3 month prior to the show you will easily book your ticket online via www.filtech.de \rightarrow Travel & Hotel.

Koelnmesse Hotel Service

Find, compare, and book at your hotel with the online portal of the Koelnmesse Travel & Hotel Service. Make your online hotel accommodation reservation easily, securely and profit from favourable prices:

The Koelnmesse Travel & Hotel Service does everything to make your stay at **FILTECH 2015** as pleasant as possible. Use their experience and profit from particularly favourable prices.

For assistance please contact:

Ms. Astrid Wegner

Koelnmesse Travel & Hotel Service Phone: +49 (0)221 821 2479 Fax: +49 (0)221 821-3739 E-mail: a.wegner@koelnmesse.de

For online booking visit: www.filtech.de → Travel & Hotel







International Exhibition



International Participation

Germany 46%
Eastern Europe 9%
Western Europe 29,5%
Asia 8,6%
Middle East 1,7%
North-/South America 4,4%
Africa 0,7%
Australia 0,2%

(FILTECH 2013)

At the INTERNATIONAL EXHIBITION innovative companies and market leaders from the worldwide filtration and separation industry, manufacturers of particle measurement & analysis systems as well as associated industries will feature the latest innovations and most modern technology available.

350 Exhibitors from 24 countries

The exhibition features 350 Exhibitors and is open to registered trade visitors and conference delegates. At FILTECH 2015 delegates and professional visitors from all over the world will be able to discuss and solve their filtration tasks with leading experts face to face in a business like manner.

Exhibitor information is available at the FILTECH website. You can check stand availability at www.Filtech.de \rightarrow Become an Exhibitor. Attractive shell scheme Packages with individual smart space options are available.





New Venue Koelnmesse

FILTECH 2015 will be held at the new venue Koelnmesse in Cologne. Koelnmesse's central location, is conveniently situated for all transport links.

Visitor Pre-Registration

Visitor pre-registration allows fast track entrance to the exhibition.

Register online at www.Filtech.de/ticket.jsp

Conference delegates and Short Course participants do not have to preregister. They have free access to the Exhibition with their conference badge.

Registration Fees

	pre-registered	onsite
1-Day Visitor Ticket	€ 20.00	€ 40.00
2-Day Visitor Ticket	€ 25.00	€ 45.00
3-Day Visitor Ticket	€ 30.00	€ 50.00
Fees already incl. 19% Gerr		

The Visitor registration includes:

Access to the Exhibition

Exhibition Catalogue

Plan your Visit

New tool for Trade Visitors

Make your visit easy and effective by using your new FILTECH planning tool. You can easily plan your visit online, check the exhibitors and their hall positions ,mark them and print it out for your planning. www.Filtech.de \rightarrow my Floor plan

Opening Hours Exhibition

February 24 – 26, 2015 9:00 am - 6:00 pm

New Venue: Koelnmesse Hall 11.1 East Entrance Deutz-Mülheimer-Str. 35 50679 Cologne Germany "We have been exhibiting at FILTECH already for many years and have continually been impressed with the quality of leads generated. FILTECH is indeed an excellent event. It is well organized and good crowd to meet. We had a steady stream of visitors and I'm pleased with the leads from it. We enjoy the event with generally high levels of visitors who appear interested in finding out what is on offer. FILTECH provides an excellent arena for us to present."

Peter Bolduan Managing Director atech innovations gmbh





Scientific Committee

The Scientific Committee is represented by leading experts throughout the world, covering all major aspects of filtration and separation applications.

Scientific Committee Chairmen

Dr. Harald Anlauf - Karlsruhe - Germany Prof. Eberhard Schmidt - Wuppertal - Germany

Scientific Committee

- Prof. Mônica Lopes Aguiar São Carlos Brazil
- Dr. Harald Banzhaf Ludwigsburg Germany
- Dr. Krishna Gupta Ithaca USA
- Prof. Antti Häkkinen Lappeenranta Finland
- Prof. Wilhelm Höflinger Vienna Austria
- Prof. Kuo-Jen Hwang Taipei Taiwan
- Prof. Eiji Iritani Nagoya Japan
- Prof. Chikao Kanaoka Tsubata Japan
- Prof. Gerhard Kasper Karlsruhe Germany
- Dr. Karsten Keller St. Louis USA
- Ir. Hermanes Kleizen Hengelo Netherlands
- Prof. Gernot Krammer Graz Austria
- Dr. Martin Lehmann Ludwigsburg Germany
- Prof. Markus Lehner Leoben Austria
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- Prof. Arunangshu Mukhopadhyay Jalandhar India
- Prof. Marja Oja Hut Finland
- Dr. Thomas Peters Neuss Germany
- Dr. Christophe Peuchot Foulayronnes France
- Prof. Urs Peuker Freiberg Germany
- Dr. Jaroslav Pridal Hradec Krawlve Czech Republic
- Dr. Graham Rideal Waverton UK
- Prof. Siegfried Ripperger Kaiserslautern Germany
- Prof. Peter Scales Parkville Australia
- Prof. Hans-Joachim Schmid Paderborn Germany
- Dr. Anthony Stickland Melbourne Australia
- Prof. Hans Theliander Gothenburg Sweden
- Prof. Bhaskar N. Thorat Mumbai India
- Prof. Paolo Tronville Torino Italy
- Prof. Kuo-Lun Tung Taipei Taiwan
- Prof. Eugène Vorobiev Compiègne France
- Dr. Matthias Waldenmaier Kaiserslautern Germany
- Yan-Xi Wang Shanghai P.R. China
- Prof. Takeshi Yoneda Kuwana Japan

The flyer lists countries and regions.



Conference Prices

The Conference registration includes

- Conference Proceedings featuring all papers in an abstract book and full paper versions on USB stick
- Lunch/es
- Refreshments during breaks
- Entrance to the FILTECH 2015 Exhibition (February 24 26, 2015)
- FILTECH 2015 Exhibition Catalogue
- Welcome Reception on February 24, 2015
- Cologne Public Transport Ticket (February 24 26, 2015)

Fees already include 19% German VAT. Speakers will be registered at the early bird rate.

Conference Prices	Early Bird until 14.11.2014	Normal Price from 15.11.2014
3-Day-Congress Ticket	€ 630,-	€ 780,-
1-Day-Congress Ticket	€ 300,-	€ 375,-

Short Course Prices

The Short Course registration includes

- Extensive Short Course Notes
- Lunch
- Refreshments during breaks
- Entrance to the FILTECH 2015 Exhibition (February 24 26, 2015)
- FILTECH 2015 Exhibition Catalogue
- Welcome Reception on February 24, 2015
- Cologne Public Transport Ticket (February 23 26, 2015)

Fees already include 19% German VAT.

Short Course Prices	Early Bird until 14.11.2014	Normal Price from 15.11.2014
Short Course I Solid/Liquid Separation	€ 470,-	€ 560,-
Short Course II Fine Dust Separation	€ 470,-	€ 560,-



Short Course I Solid/Liquid Separation Monday, February 23, 2015

This 1-day Course "Solid/Liquid Separation" is of interest to engineers, scientists, managers and other technical personnel involved in solid-liquid separation in the process and other industries. They will find the course informative, regardless of whether they design, purchase, research or use filtration and separation equipment. Plant engineers, technicians and operators should find the course materials directly applicable, and graduate research students will value the expert introduction to the technologies. It is a comprehensive review of the processes involved in the separation of solids from liquids, which will emphasise practival aspects and present appropriate theoretical information as necessary. Topics are:

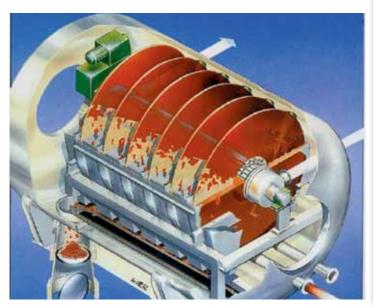
Characterisation of Particles and Particle Separation Density Separation - Static Thickeners and Solid Bowl Centrifuges

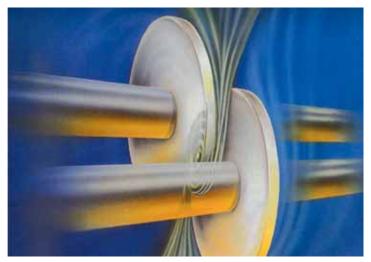
Depth, Cross Flow and Cake Filters Filter Media



Course Presenter

Dr.-Ing. Harald Anlauf is Academic Director at the Karlsruhe Institute of Technology, Institute of Mechanical Process Engineering and Mechanics. His academic degrees as Chemical Engineer he earned 1980 and 1985 at Karlsruhe University. From 1999 to 2006 he was Chairman of the VDI-GVC working party " Mechanical Liquid Separation", since 2000 Co-Chairman of the FILTECH Conference and President of the 10th World Filtration Congress 2008 in Leipzig, Germany. He published more than 150 technical papers, books etc., consulted and lectured throughout the world.





Suspension Pretreatment to Enhance Separation Properties

Alternative Separation Solutions and Apparatus Combinations

Selection Criteria for Separation Equipment

8.30 h Welcome Coffee

9.00 h **Introduction and Overview** Systematic survey of separation processes, apparatus examples and separation strategies

10.30 h Coffee Break

10.45 h **Particle Characterization** Characterization of single particles, particle collectives and particle separation.

11.30 h Density Separation – Static Thickeners and Solid Bowl Centrifuges

Separation mechanisms, equipment, mode of operation, application.

12.15 h **Lunch**

13.15 h Depth and Cross Flow Filtration

Separation mechanisms, equipment, mode of operation, application.

14.00 h Cake Filtration – Formation, Washing and Demoisturizing

Separation mechanisms, consequences for practical use.

14.45 h Coffee Break

15.00 h **Cake Filters** Separation mechanisms, equipment, mode of operation, application.

15.45 h **Filter Media** Overview and fields of application, influence of media properties on separation results.

16.30 h Coffee Break

16.45 h Suspension Pretreatment to Enhance Separation Properties

Additional techniques for enhancing solid-liquid separation processes, physiochemical influences on slurry stability, flocculation

17.30 h Apparatus Combinations, Alternative Solutions and Apparatus Selection Criteria Strategies for process optimization & selection of suitable separation techniques.

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Short Course II

Fine Dust Separation

Monday, February 23, 2015

This 1-day "Fine Dust Separation" Short Course is of interest to engineers, technicians, scientists, managers, and other personnel involved in gas-solid separation in the process and other industries. They will find the course informative, regardless of whether they design, purchase, research, or use dust separation equipment for product recovery, emission control, air cleaning or process gas cleaning. It is a comprehensive review of the processes involved in the separation of solid or liquid particles from gases, which will emphasise practical aspects and present appropriate theoretical information as necessary. Topics are:

Evaluation & Selection of Dust Collection Equipment Wet Scrubbers

Centrifugal Collectors / Cyclones Electrical Precipitators Fibrous Filters / Deep Bed Filters Raw Gas Characterisation and Conditioning Fabric Filters / Surface Filters

8.30 h Welcome Coffee

9.00 h Introduction

Particulate Matter (PMx); Dust Separation; Air Cleaning; Overview of the course.

9.15 h **Evaluation of Dust Collection Equipment** Particle size characterisation, concentration measurement, overall and fractional collection efficiency.

10.00 h Centrifugal Collectors (Cyclones)

Mode of operation, basic designs, application, collection efficiency, pressure drop.

10.45 h Coffee Break

11.00 h Fibrous Filters (Deep-Bed Filters)

Mode of operation, basic designs, application, collection efficiency, pressure drop.

11.45 h Fabric Filters (Surface Filters)

Mode of operation, basic designs, application, operating characteristics, design calculations.



Course Presenter

Prof. Dr.-Ing. habil. Eberhard Schmidt is Full Professor for Safety Engineering/Environmental Protection at Wuppertal University. His academic degrees he earned 1991 and 1998 at Karlsruhe University. From 1993 to 1994 he was affiliated with the Joint Research Centre in Ispra/Italy. In the years 1998 and 1999 he was with Degussa company in the department of process engineering / particle technology.

He is Co-Chairman of the FILTECH Conference and was Scientific Secretary of 10th World Filtration Congress. He has published more than 100 technical papers, books, patents, etc. and consulted and lectured throughout the world.

12.30 h Questions and answers

An open-floor question and answer session.

13.00 h Lunch

14.00 h Wet Scrubbers

Mode of operation, basic designs, design calculations, application, droplet separation.

14.45 h Electrical Precipitators

Mode of operation, basic designs, design calculations, application, operating characteristics.

15.30 h Coffee Break

15.45 h Selection of Dust Collection Equipment

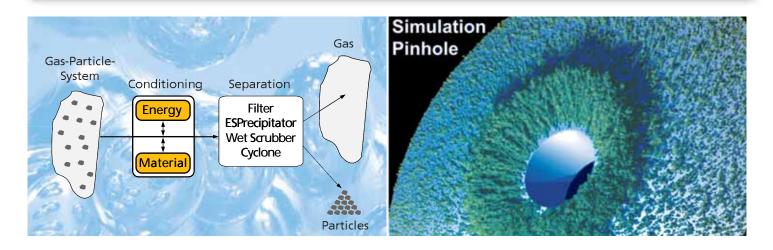
Comparison of the different techniques, strength and weaknesses, fields of application, selection procedure.

16.30 h Raw Gas Conditioning

Additional techniques for enhancing dust separation equipment (Electrical and acoustic enhancement, additive dosing, precoating,...).

17.15 h Discussion

An open-floor question and answer session.



"The global population is project to grow from 7 billion today to 9 billion by 2050. The in-

crease in population and the accompanying shifting global economic patterns will result in

a significant increase in demand for food, energy and protection. Separation technology

Plenary Lecture

How Could Integrated Science change the Separation Technology in the Future?

Tuesday, February 24, 2015

Dr. Karsten Keller DuPont USA

PL Tuesday, reprint 10:45-12:00 h

plays a key role in ensuring new solutions are environmentally sustainable. Indeed, existing separation technology has enabled us today to have clean air and water. Nearly every production process in today's society requires a separation step. As a result, global market in separation technology is growing and is over USD 100 billion annually. Exactly how should separation research develop in the next decade and beyond? Nowadays technical solutions are available for almost every separation task. However for the future the pressing challenge is to find economical solutions. If the ideal separation technology/process would have been invented, our world would face fewer difficulties for food, water, energy and environment...

Keynote Lectures

Sugar Purification from Enzymatic Hydrolysis Products using Membrane Diafiltration

Prof. Kuo-Jen Hwang

Tamkang University, Dept. of Chemical and Materials Engineering, Taiwan



Tuesday, February 24, 2015 13.00-14.15 h

Measuring Filter Cut Points and Pore Size Distributions by Challenge Testing

Dr. Graham Rideal Whitehouse Scientific UK

K4 Wednesday, February 25, 2015 09:00-10:15 h

Selective recovery of valuable plant and biomass compounds through biological membranes exposed to pulsed electric field: A new way for "green" filtration and purification technologies

Prof. Eugène Vorobiev Université de Technologie de Compiegne, France

K2 Tuesday, February 24, 2015 14:45-16:00 h

Filtration – A Multi-Scale and Multi-**Physics Challenge for Simulation**

Dr. Martin Lehmann Mann+Hummel Germany

K5 Wednesday, February 25, 2015 10:45-12:00 h

Precoat Filtration. Insights into a well-established technology that still offers plenty of opportunities

Dr. Eberhard Gerdes JRS Rettenmaier & Söhne Germany

K3 Tuesday, February 24, 2015 16:45-18:00 h

On local Cake Properties in Liquid Filtration

Prof. Hans Theliander

Chalmers University of Technology, Forest Products and Chemical Engineering, Sweden

K6 Wednesday, February 25, 2015 13:00-14:15 h

Atmospheric

FILTECH

The Filtration Event www.filtech.de Conclusions

Session Overview

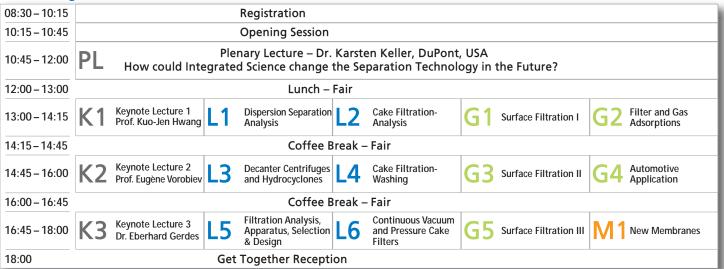
Monday, 23.02.2015

09:00 - 18:00

00 Short Course I – Solid/Liquid Separation

Short Course II – Fine Dust Separation

Tuesday, 24.02.2015



Wednesday, 25.02.2015

09:00 - 10:15	K4 Keynote Lecture 4 Dr. Graham Rideal	L	7 Backwash Filt	ters	G6 Mode	elling and Simulation	M2	Micro- and Ultrafiltration
10:15 - 10:45			Coffee B	Break – Fair	A			
10:45 – 12:00	12:00 K5 Keynote Lecture 5 Dr. Martin Lehmann L8 Vibration, Magnetic & G7 Test Systems and Measurements						M3 Fouling and Scaling	
12:00 - 13:00	2:00 Lunch – Fair							
13:00 - 14:15	K6 Keynote Lecture 6 Prof. Hans Theliander L9 Flocculation Enhancement			or Separation	ion G8 Mist and Droplet Separation		Cross Flow Techniques	
14:15 - 14:45	:15 – 14:45 Coffee Break – Fair							
14:45 – 16:00	L10 Poster Session	L11	Filter Aids and Precoat Filtration	G9 Pos	ter Session I	G10 Poster Sess	ion II	M5 Poster Session
16:00 - 17:15	Poster Viewing	L12	Cake Filtration of Slurries with poor Filterability	Pos	ter Viewing	Poster View	ving	Poster Viewing
Coffee Break – Fair								

Thursday, 26.02.2015

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09:00 - 10:15	F1	Surface Modification of Filter Media	L13	Filter Media	G11 Air Filters – HEPA	M6	Separation of Bio-Products
10:15 - 10:45				Coffee Break – Fair			
10:45 – 12:00	F2	Production Technology of Filter Media	L14	Sorting and Classification	G12 Air Filters – HVAC	M7	Mechanisms, Models, Simulation
12:00 - 13:00	Lunch – Fair						
13:00–14:15	F3	Fine Fiber and Membrane Maufacturing	L15	Depth Filtration	G13 Industrial Gas Cleaning I	M8	Process and Waste Water Treatment
14:15-14:45				Coffee Break – Fair	х		
14:45-16:00	F4	Numeric Simulation of Porous Structures	L16	Coalescer/Liquid – Liquid Separation	G14 Industrial Gas Cleaning II	M9	Ceramic Membrane Applications
	Coffee Break – Fair						

Programme is subject to ammendments. Up-to-date Programme is available at www.Filtech.de

Tuesday, February 24, 2015

Plenary Lecture 10:45-12:00 h
How could Integrated science change the separation technology in the future?
Dr. Karsten Keller

DuPont, USA

13:00-14:15 h

Keynote Lecture 1



ΡI

Sugar purification from enzymatic hydrolysis products using membrane diafiltration Prof. Kuo-Jen Hwang, Tamkang University, Taiwan

Dispersion Separation Analysis 13:00-14:15 h

Introducing LUMiREader[®] X-ray - A new instrument for the evaluation of separation behaviour of concentrated nontransparent dispersions D. Lerche^{*}, D. Kavianpour, A. Zierau, T. Sobisch, LUM GmbH, Germany

Characterization of the separation and segregation behaviour of model paper dispersions, D. Kavianpour*, T. Sobisch, A. Zierau, D.Lerche, LUM GmbH, Germany

Use of photocentrifuge for membrane separation and characterization of solutions filterability, M. Loginov*, N. Lebovka, E. Vorobiev, University of Technology of Compiègne, France

(Cake Filtration Analysis	1 7
1	13:00-14:15 h	LZ

Wall effect of solid liquid filter test on filter upscaling, R. Giner, G. Krammer*, Andritz AG, Austria

Systematical laboratory tests with a bucket centrifuge and a pressure nutsche – Comparison of the cake permeability and consequences for the scale-up of batch filtering centrifuges, R. Ebert, E. Verdurand*, M. Schmid, DSM-Nutritional Products, Switzerland; I. Nicolaou, NIKIFOS Ltd., Cyprus

Efficient internal filtration system for solid-liquid separation, M. A. Khodagholi*, A. K. Forsat, Research Institute of Petroleum Industry; M. R. Hemmati Mahmodi, Sorosh Energy Pouya, Iran



Influence of leaks on the overall emission behaviour of bag house filters, O. Kurtz*, J. Meyer, G. Kasper, Karlsruhe Institute of Technology, Germany

Airborne nanoparticle filtration by filter cakes on pulse-jet cleaned filter media, H. Förster*, C. Funk, W. Peukert, University Erlangen-Nuremberg, Germany

Study and characterization of the emitted particles in pulse jet filtration, A. K. Choudhary*, A. Mukhopadhyay, Jalandhar Institute of Technology, India

Filters and Gas Adsorption 13:00-14:15 h

Gas phase adsorption of dimethyl sulfide on activated carbon cloth (GDSEL651), N. Hoda*, A. Topuz, F. Mert, L. Budama, E. Eroglu, Akdeniz University, Turkey

New developments in molecular air filtration, I. Parker*, Ahlstrom Filtration LLC, USA: S. Pigeot-Rémy, Ahlstrom Research & Services, France; G. Costa, Ahlstrom Italy s.p.a., Italy; A. Viskari, Ahlstrom Tampere Oy, Finland

New media generation for cabin air filter application, A. Scope*, D. Keerl, MANN+HUMMEL Innenraumfilter GmbH & Co. KG, Germany

Keynote Lecture 2	V 7
14:45 - 16:00 h	ΓZ

Selective recovery of valuable plant and biomass compounds through biological membranes exposed to pulsed electric field: A new way for "green" filtration and purification technologies

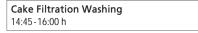
Prof. Eugène Vorobiev, University of Compiegne, France

Decanter Centrifuges and Hydrocyclones 14:45-16:00 h

Design of decanter centrifuges – development of laboratory test methods and calculations for separation efficiency prediction, M. Böhlmann, Siebtechnik GmbH, Germany

Hydrocyclone - Design & optimization - A new user friendly and reliable approach, I. Nicolaou*, NIKIFOS Ltd, Cyprus

A novel three-outlet hydrocyclone, C. C. Wang, R.-M. Wu, Tamkang University, Taiwan



The influence of wetting on washing and filtration properties, M. Burisch*, U.A. Peuker, Technical University Bergakademie Freiberg, Germany

Chemical effects in filtration and washing of blast furnace slag, R. Salmimies*, A. Häkkinen, Lappeenranta University of Technology, Finland; M. Burisch, U.A. Peuker, Technical University Bergakademie Freiberg, Germany

Cleaning of filter media contaminated with yeast by pulsed jets, B. Bollwein*, D. Ulmen, J.Tippmann, T. Becker, Technical University Munich, Germany

Surface Filtration II	
14:45-16:00 h	

Filter movement during pressure pulse regeneration – A comparison of flat media and filter bags with regard to cleaning intensity and acceleration, S. Sobich*, J. Meyer, G. Kasper, Karlsruhe Institute of technology, Germany

Effect of fabric type and dust concentration on filtration performance, A. Mukhopadhyay*, S. R. Swain, Jalandhar Institute of Technology, India

Test method for small scale pulse-cleaned package type dust collection system, A. Morishita*, H. Kudou, K. Kitabayashi, S. Katsushima, AMANO Corporation, C. Kanaoka, Kanazawa University, Japan



Impact of viscous oil impregnation on the performance of engine intake air filters, A. K. Maddineni*, S. Chakote, Varroc Polymers Pvt. Ltd., India; H. Sauter, Germany

Micro scale simulation as part of fibrous filter media development processes - From real to virtual media, J. Weber*, A. Kilian, M. Heim, M. J. Lehmann, MANN+HUMMEL GmbH, Germany

Building a refrigerant recovery recycling machine for HFC-134a: From architecture definition to prototype implementation, B. N. Floresca*, Technological University of the Philippines, Philippines



Keynote Lecture 3 16:45-18:00 h K3

b

Precoat filtration. Insights into a well-established technology that still offers plenty of opportunities Dr. Eberhard Gerdes, JRS Rettenmaier & Söhne, Germany



Cake forming filtration - From the theory based laboratory tests to the reliable selection and optimal design of filter apparatuses, I. Nicolaou*, NIKIFOS Ltd, Cyprus

The filtration calculator: A novel tool for the "daily needs" of people dealing with cake forming filtration, N. Wagner*, F. Tomasko, FLSmidth Wiesbaden GmbH, Germany

Assessment of turbidity meter / Sensor filter combination in beer filtration, H. H. Kleizen, J.B.J. Kleizen, Dutchap BV; G. J. Beune APT BV, Netherlands



Bypass dust processing in the cement manufacturing process - BHS belt filter allow primary fuel substitution rates of up to 100 percent, C. Steinbinder, T. Ochel* , BHS-Sonthofen GmbH, Germany

Combined continuous pressure and press filtration with a HiBar drum filter, E. Ehrfeld*, R. Bott, T. Langeloh, BOKELA GmbH, Germany

Filtration of hot slurries with HiBar filtration, T. Langeloh*, E. Ehrfeld, BOKELA GmbH, Germany



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Surface Filtration III
16:45-18:00 h

G5

Evaluation of the efficiency of filtration processes using precoat materials, S. Schiller*, H.-J. Schmid, University of Paderborn; C. Hellmich, Hellmich GmbH & Co. KG, Germany

Investigating reasons for filter bag failure and developing a method to improve its life span, A. Patnaik*, R. D. Anandjiwala, CSIR Materials Science and Manufacturing and Nelson Mandela Metropolitan University, South Africa

Experimental investigations into the effects of ambient humidity on particle-loaded single filter fibers, Q. Zhang*, University of Wuppertal, Germany

New Membranes	
16:45-18:00 h	

Characterization of microporous hydrophobic membranes used in membrane distillation process, M. Rezaei*, W. M. Samhaber, University Linz, Austria

Porous water repellent silica aerogel membranes for membrane distillation applications, K.-L Tung, C.-C. Wang, National Taiwan University; Y.-F. Lin, Chung Yuan Christian University, M. S. Huang, Industrial Technology Research Institute, Taiwan

Revolutionary impact of nanotechnology on advanced membranes: Forward osmosis and solvent stable membranes, M. Peyravi , M. Jahanshahi*, Babol University of Technology, Iran

Wednesday, February 25, 2015

Keynote Lecture 4	νл
09:00 - 10:15 h	N4

Measuring filter cut points and pore size distributions by challenge testing

Dr.	Granam	Rideal,	whitehouse	Scientific, UK	

Backwash Filters	
09:00 - 10:15 h	

Development of a high gradient magnetic separator for the application in oil filtration, E. Förster*, K. Menzel, H. Nirschl, Karlsruhe Institute of Technology, Germany

Automatic backwash filter for bath purification, W. Watzinger*, Lenzing Technik GmbH, Austria

Iron and manganese treatment of groundwater by means of pre-treatment and an automatic backwash filter, M. Hochedlinger*, P. Stimpfl, E. Hawle Armaturenwerke GmbH, J. Kölbl, Blue Networks e.U., Austria; P. Galambos, L. Kuzma, Hawle Szerelvénygyártó és Forgalmazó Kft., Hungary; P. Sommerauer, H. Haring, HAWLE Armaturen GmbH, Germany

Modelling and Simulation 09:00-10:15 h

CFD simulation of nanofiber-enhanced air filter media, P. Tronville, Politecnico di Torino, Italy; L.L.X. Augusto, A.C.C. Bortolassi, G.C. Lopes, J.A.S. Gonçalves, Federal University of São Carlos, Brazil; R. Rivers, EQS Inc., USA Simulation of nanoscale particle movement and deposition, A. Stief*, C. Feuchter, Aalen University, Germany; K. Langfeld, University of Plymouth, UK

Numerical simulation of exhaust gas flow and reaction kinetics in the micro porous soot structure of deposited particles in DPFs, M. Bürger*, U. Janoske, University of Wuppertal, Germany

Micro- and Ultrafiltration 09:00-10:15 h

Sintered metal fibre microfiltration of bio-ethanol fermentation broth, Q. Kang*, R. Dewil, Catholic University Leuven, Belgium; J. Baeyens*, T.W. Tan, Beijing University of Chemical Technology, China

Cleaning usability and flux recovery of ultrasound during and after ultrafiltration processing, A. M. Maskooki*, M. H. Shahraki, M. Mohammadi, RIFST Research Institute of Food Science and Technology, Iran

Functional polymers coupled to ultrafiltration membranes to remove and separate anions from aqueous solution, B. L. Rivas*, J. Sánchez, L. Toledo, University of Concepción, Chile

Keynote Lecture 5 10:45-12:00 h

Filtration – A multi-scale and multi-physics challenge for Simulation

Κ5

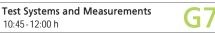
Dr. Martin Lehmann, Mann+Hummel, Germany



Vibration-enhanced compaction of filter cakes and its influence on shrinkage cracking, S. Strubel*, H. Anlauf, H. Nirschl, Karlsruhe Institute of Technology, Germany

Numerical dual-porosity model of solid-liquid expression from electroporated bio-solids, Mahniĉ-Kalamiza*, E. Vorobiev, University of Technology of Compiègne, France

Optimisation of mineral sludge combined dewatering: Aggregation and constant-current electrofiltration in a filter-press, M. Loginov*, M. Citeau, N. Lebovka, E. Vorobiev, University of Technology of Compiègne, France



Filter media testing in overpressure up to 4 bar – Isobaric detection of fractional efficiency, M. Schmidt*, Palas[®] GmbH, Germany

The impact of the aerosol generation on the characterization of complete filter or filter media, S. Schütz*, M. Schmidt, Palas® GmbH, Germany

Instrumental and methodological complex for inhalation intake assessment of radioactive gas-aerosol mixtures, A. Karev*, A. Tsovianov, Federal Medical Biophysical Center, Russia Fouling and Scaling 10:45-12:00 h

M3

Ultrafiltration of alginate solutions with ceramic hollow fiber membranes: An experimental study of fouling mechanisms, F. Arndt*, J. Braun, H. Anlauf, H. Nirschl, Karlsruhe Institute of Technology; I. Unger, S. Schütz, MANN+HUMMEL GmbH, Germany

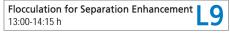
Reduction of hollow fiber membrane fouling through electroadsorptive filtration of back wash water, R. Komplenic*, Ahlstrom Filtration LLC; J. Brant, University of Wyoming, USA

The performance of polycarboxylates as inhibitors for CaCO₃-scaling in reverse osmosis-plants, W. Hater, K. Urbahn, A. Icart, ICL Water Solutions; J. Jaworski, N. Kruse, G. Braun*, Cologne University of Applied Sciences, Germany





On local cake properties in liquid filtration Prof. Hans Theliander, Chalmers University, Sweden



Speeding up process development by an automated flocculation setup, M.W. Wilson, E. Freydell*, G. Ferreira, A.M.C. Janse, E.J.A.X. van de Sandt, DSM Biotechnology Center, Netherlands

Implementation of floc characteristics to improve deep bed filtration modelling in water treatment, I. Slavik*, W. Uhl, Technische Universität Dresden, Germany

Approach to determine particle density for modelling purposes in water treatment and supply, I. Slavik*, A. Korrenz, K. Ripl, W. Uhl, Technische Universität Dresden, Germany



Entrainment of droplets from oil mist filters – Characteristics and relevant parameters, S. Wurster*, J. Meyer, G. Kasper, Karlsruhe Institute of Technology, Germany

Enhanced analysis of droplet separation efficiency of knitted wire meshes by optical particle counter measurements and direct numerical simulation based on tomographies, K. Schmidt*, F. Haller, A. Hellmann, S. Ripperger, Technical University of Kaiserslautern; W. Heikamp, Rhodius GmbH, Germany

Isothermal and isobaric measurements of engine crankcase ventilation filters, S. Schütz, L. Mölter, M. Schmidt, Palas[®] GmbH, Germany



.09.2014

Cross Flow Techniques 13:00-14:15 h



Separation of catalysts with dynamic precoat filtration on the DYNO filter, E. Ehrfeld*, R. Bott, T. Langeloh, BOKELA GmbH, Germany

Optimization of yield when processing beverages with the dynamic cross flow filter, G. Grim*, Andritz KMPT GmbH

Effect of disk structure on the performance of rotating-disk microfiltration of microalgae, K.-Y. Hwang, S.-E. Wu, Tamkang University, Taiwan



Poster Session I 14:45-16:00 h

Strategies and tools available to solid-liquid separations consultants in industry, S. Wolff*, E. I. DuPont de Nemours, USA

Functionalized filter media for continious vacuum filtration without vacuum and filtrate pumps, H. Anlauf*, Karlsruhe Institute of Technology, Germany

Cake filtration simulation for poly-dispersed spherical particles, O. Iliev, R. Kirsch, S. Osterroth*, Fraunhofer Institute for Industrial Mathematics, Germany

Analysis of stepwise expression of sake fermentation broth, R. Fukuyama*, A. N. Ginting, T. Tanaka, M. Iwata, Osaka Prefecture University, N. Yabuta, YABUTA Industries, Co., Ltd, Japan; M. S. Jami, Islamic University Malaysia, Malaysia

Groundwater filtration through chalcedonite sand, J. Je -Walkowiak*, Poznan University of Technology, Poland

Application of Iranian zeolite (Semnan area) for removal of environmental pollution of sulfide, S. Karimi, A. Azadmehr*, Amirkabir University of Technology, Iran

Kinetics and thermodynamic adsorption studies of the humic acid adsorption from peat water using Fe_3O_4 nano particles, M. A. Zulfikar*, S. A. Purba, H. Setiyanto, Bandung Institute of Technology, Indonesia

Efficient simulations of poroelastic deformations in pleated filters, D. Iliev*, O. Iliev, R. Kirsch, Fraunhofer ITWM, Germany; A. Mikeli , University Lyon 1, France; G. Printsypar, V. Calo, King Abdullah University, Saudi Arabia

Designing advanced filtration media through metal additive manufacturing, N. Burns*, M. Burns, D. Travis, L. Geekie , Croft Additive Manufacturing; A. E. W. Rennie, University of Lancaster, UK

Patent-Overview: Wet filtration techniques using non-woven textile fabrics, L. Sinowzik*, Sächsisches Textilforschungsinstitut e.V. (STFI), Germany Reduction of greywater pollutants using modified hydraulic structure case study: Multi – layer cascade weir, D.W. Abbood*, E. A.Jasim, Mustansiriya University, Iran

Woven wire meshes - Their characteristics and selection criteria, M. Knefel*, GKD Gebr. Kufferath AG, Germany

 Filter Aids and Precoat Filtration
 14:45-16:00 h

Improving filter-aid filtration by means of a new mechanistic process model, M. Kuhn*, H. Briesen, Technical University Munich, Germany

Viscose speciality fibres as filter auxiliaries, P. Wimmer*, R. Scholz, D. Bauer, T. Kandler, Kelheim Fibres GmbH, Germany

Hydraulic Gamma, A. Willis, Hollingsworth & Vose Co. Ltd., UK



The performance simulation analysis and experimental research on theair filterof engineering vehicle in highland environment, J.-J. Lu*, Y. Sun, J.-D. Wang, M.-H. Li, J.-X. Li, M.-H. Qiao, North Vehicle Research Institute. China

Characterization of dustiness – Influence of low pressure, T. Londershausen*, E. Schmidt, University of Wuppertal, S. Sander, U. Fritsching, University of Bremen, Germany

Liquid bridge force between two unequal-sized spheres – Problems with mechanical models using a circular bridge shape approach, F. Schröter* E. Schmidt, University of Wuppertal, Germany

Measurement of the adhesion moment of a particlewall contact and comparison to simulated values, A. Haarmann* E. Schmidt, University of Wuppertal, Germany

Determination of the adhesive force through centrifugal technique between particles and filters membranes, A.F. Almeida, M. L. Aguiar*, Federal University of São Carlos, Brazil

Effect of the vibration on deposition of particles during gas filtration using fabric filters, A. M. M. Arouca, F. O. Arouca*, L. G. M. Vieira, J.J. R. Damasceno, Federal University of Uberlândia, Brazil

Simulation of particle-particle & particle-fiber adhesion using star CCM+ from CD-Adapco, L.L.X. Augusto*, G.H. Justi, M.L. Aguiar, V.G.G. Béttega, J.A.S. Gonçalves, G. C. Lopes, Federal University of São Carlos, Brazil

Vertical liquid distribution in filter cartridge during gas-liquid filtration, Z. Liu*, Y. Z. Dang, Z. L. Ji, M. J. Yu, China University of Petroleum, China

Combined separation of ultrafine dust particle and gaseous pollutants emitted by biomass combustions, F. Prill*, S. Schiller, H.-J. Schmid, University of Paderborn, Germany

Numerical simulation of geometry influence on electrostatic precipitators, S. Sander*, U. Fritsching, University of Bremen, T. Londershausen, E. Schmidt, University of Wuppertal, Germany

Reduction of fine dust-emissions at inner city areasopportunities and limitations of electrostatic precipitators, M. Kaul*, E. Schmidt, University of Wuppertal, Germany



The influence of the layout of fabric filter in flow mass filtrate, T. W. C. Pereira, F. B. Marques, F. A. R. Pereira, D. C. Ribeiro, S. M. S. Rocha*, Federal Univerity of Espirito Santo, Brazil

Evaluation of the performance in fibrous filter used in industrial chemistry by pulse jet cleaning, S. S. R. Cirqueira*; F. M. Oliveira, M. L. Aguiar, Federal University of Sao Carlos; E. H. Tanabe, Federal University of Santa Maria, Brazil

Study of the electrostatic effect in cement particles in bag filters, F. M. Oliveira, S. S.R. Cirqueira^{*}, M. L. Aguiar, Federal University of São Carlos, Brazil

Quantification of bioaerosols from filtration of real indoor environment, P. F. Rosa*, A. Bernado, M. L. Aguiar, Federal University of São Carlos, Brazil

Evaluate the efficiency of different filter media in removing nanoparticles, A. C. C. Bortolassi^{*}, V. G. Guerra, M. L. Aguiar, Federal University of São Carlos, Brazil

Modern PTFE membrane filters require appropriate testing methods, R. Bharadwaj*, H. Daruwala, AAF International, USA

Cut size control of novel gas cyclone separator with sintered metal cone by clean-air injection, K. Fukui*, K. Jikihara, S. Sunada, H. Yoshida, Hiroshima University, Japan

Characterization and performance of different fibrous filters media for collecting nanoparticle, A. C. C. Bortolassi^{*}, V. G. Guerra, M. L. Aguiar, Federal University of São Carlos, Brazil

Degradation of PPS filter media by NOx at high temperature, M. Wada*, H. Wakamatsu, C. Kanaoka, Ishikawa University, Japan

Performance of cellulose filter media in the filtration of gases at high pressures, B. A. Lima, G. C. Lopes, M. L. Aguiar^{*}, Federal University of São Carlos; E. H. Tanabe, Federal University of Santa Maria, Brazil

Separation of particles out of air by botanical collectors, G. Reznik, E. Schmidt*, University of Wuppertal, Germany

Poster Session I 14:45 - 16:00 h



Degradation of ion exchange membranes used for pickling acid regeneration, F. Rögener*, Cologne University of Applied Sciences, J. Willemsen, T. Reichardt, VDEh, Germany; K. Jacobson, Swerea KIMAB, Sweden



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Performance improvement of countercurrent-flow seawater desalination systems in hollow-fiber direct contact membrane distillation modules, C.-D. Ho*, T.-J. Yang, L. Chen, Tamkang University, Taiwan

Dehumidifying air with ion-exchange membranes, I. Ladizhensky, E. Korin, E. Korngold, Ben-Gurion University of the Negev, Israel

Application areas of SARATECH® PBSAC in dialysis techniques, A. Stephan, J. Raiser*, Blücher GmbH, Germany

High flux solvent resistant nanofiltration membranes from interfacial polymerization, S.-P. Sun, T.-S. Chung, National University of Singapore, Singapore

Cake Filtration of Slurries with poor Filterability 16:00-17:15 h

HiBar steam pressure filtration of coal ultrafines and iron ore concentrates - New developments and results, T. Langeloh, BOKELA GmbH, Germany

Compressible suspension characterisation and plate-and-frame filter prediction, A. D. Stickland*, E. H. Irvin, S. J. Skinner, P. J. Scales, University of Melbourne; A Hawkey, Bilfinger Water Technologies, Australia; F. Kaswalder, Bilfinger Water Technologies, Italy

Dewatering of slurry with poor filterability in basket centrifuge: Discharge of supernatant using bypass filter medium, A. N. Ginting*, R. Fukuyama , T. Tanaka, M. Iwata, Osaka Prefecture University, Japan; M. S. Jami, Islamic University Malaysia, Malaysia

Thursday, February 26, 2015

Surface Modification of Filter Media 09:00 - 10:15 h

PFOA- and PFOS-free super water- and oil-repellent nanocoatings deposited via innovative low pressure plasma processes, for filtration and separation applications, E. Rogge*, F. Legein, Europlasma NV, Belgium

Industrial water and oil repellent nano-coatings for filtration applications, N. Rimmer*, P2i Ltd, UK

Celanese engineered materials for porous filter media, I. Idiyatullina*, Celanese, Germany

Filter Media 09:00-10:15 h

L13

Filter media performance and its influence on filtration results – Experience, expectations and possibilities in vacuum and pressure filtration, A. Seitz*, D. Bartholdi, I. Erlenmaier, C. Maurer, Sefar AG, Switzerland

New developments in high performance woven wire filtration media, M. Theiß*, F. Meyer, F. Edelmeier, Haver & Boecker OHG, Germany

Optimal gradient hydraulic media to maximize dust holding capacity, M. Silian*, S. Jaganathan, Hollingsworth & Vose Co., USA

Air Filters – HEPA	
09:00-10:15 h	

In-situ efficiency measurement for HEPA-filter, C. Schweinhein*, Caverion Deutschland GmbH, Germany

Hierarchical HEPA filter with gradient structure based on nanofibers and microfibers, C. Wang*, P. Li, Y. Zhang, F. Wei, Tsinghua University, China

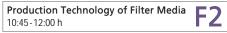
An investigation on the shorter lifetime of pleated filter compared to flat sheet, L. Cheng*, J. Becker, A. Wiegmann, Math2Market GmbH; R. Kirsch, Fraunhofer Institute for Industrial Mathematics, Germany

Separation of Bio-Products	
09:00-10:15 h	

Fructose concentration by nanofiltration from lowconcentration aqueous solutions, M.T. Nguyen*, Hanoi University of Science and Technology, Vietnam; W.M. Samhaber, University Linz, Austria

Membranes or molecular sieves in preparing fuelgrade bio-ethanol, J. Baeyens*, T. Tan, Beijing University of Chemical Technology, China; Q. Kang, R. Dewil, Catholic University Leuven, Belgium

Long term experiment for the separation of "green" hydrogen from biomass gasification by a polymer membrane, D. Konlechner*, M. Harasek, H. Hofbauer, Vienna University of Technology, Austria; M. Hackel, AIR LIQUIDE, Germany, E. Sanders, AIR LIQUIDE, USA, K. Bosch, Energie Burgenland AG, Austria



A neat solution – Modern filters cut with laser technology, tba, eurolaser GmbH, Germany

Why AOI improves the quality of filter base material and coatings and reduces production costs, H. Oerley*, Dr. Schenk GmbH, Germany

Reel to reel UV lithography for Filter and Screen applications, M. Lehmann*, micrometal GmbH, Germany





Electromagnetic separation (EMS) of high-temperature superconductor. E. Broide*, Hebrew University, Israel

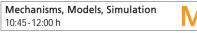
Optimization of semi-continuous centrifugal classification processes for colloidal products, M. Konrath*, H. Nirschl, Karlsruhe Institute of Technology, Germany Physical separation and disposal of secondary waste from the decommissioning of nuclear facilities, M. Brandauer*, S. Gentes, S. Stiefel, M. Haist, Karlsruhe Institute of Technology ; J. Starflinger, Institute of Nuclear Technology and Energy Systems, Germany



Reducing energy consumption through advances in mechanical Ashrae air filtration media, C. Desquilles*, P. Blanckaert, Lydall Performance Materials SAS, France; D. Sullivan, G. Crosby, Lydall Performance Materials, USA

Saving cost with novel filter media solutions for indoor air quality, I. Parker*, Ahlstrom Filtration LLC, USA

How regulatory changes drive innovation in synthetic filter media for pocket filters, A. Boni, B. Keil*, Hollingsworth & Vose, Germany,



Filtration of finest nanoparticles < 15 nm from liquids - A quanitative study, D. Segets*, W. Peukert, University Erlangen-Nuremberg, Germany; S.-C. Chen,T. Y. Ling, D. Y. H. Pui, University of Minnesota, USA

Use of computational fluid dynamics (CFD) for the design of apparatuses for cross flow filtration, J. Barth*, S. Ripperger, University of Kaiserslautern, Germany

Simulation of osmotic and reactive effects in membranes with resolved microstructure, O. Iliev, K. Leonard, Fraunhofer Institute for Industrial Mathematics, Z. Lakdawala, DHI-WASY GmbH, Germany; G. Printsypar*, King Abdullah University, Saudi Arabia



Novel ways to obtain next generation fine fibers for filtration, S. L. Shenoy*, T. Weik, Donaldson Company, USA

Molecular orientation in highly stretched ePTFE filtermedia, K. J. Choi, Clean & Science Co., Ltd., USA

Cost-effective production of track-etched UF membranes, S. Makkonen-Craig*, M. Paronen, Arcada University of Applied Sciences, Finland



MNMs: a model for the simulation of depth filtration of non-Newtonian suspensions in granular media, R. Sethi*, T. Tosco, C. Bianco, Politecnico di Torino, Italy

Experimental study and numerical simulation of the flow-induced deformation of filtering media in automotive transmission filters, M. Kabel, R. Kirsch*, S. Staub, Fraunhofer Institute for Industrial Mathematics, Germany, D. Bernards, M. Dedering, IBS FILTRAN GmbH, Germany

Investigation of depth filtration of aqueous suspensions with particles greater than 1 micron, L. Petersen*, S. Ripperger, Technical University of Kaiserslautern, Germany



Industrial Gas Cleaning I 13:00-14:15 h

Separating dust out of process air flow using drum filters, H. Sauter*, F. Engel, LTG Aktiengesellschaft; U. Schneider, Gebr. Röders AG, Germany

Design of vacuum cleaned dust filter, T. Laminger*, J. Wolfslehner, W. Höflinger, Vienna University of Technology, Austria

Gas phase advanced oxidation cleans industrial pollution and smell, C. Meusinger*, S. Johnson, University of Copenhagen; L. Nannerup, INFUSER A/S, Denmark; F. Hartung, INFUSER Deutschland GmbH, Germany

Process and Waste Water Treatment Mail 13:00-14:15 h

Advanced wastewater treatment with ultrafiltration, L. Causemann; S. Krause*, University of Applied Science Darmstadt, Germany

Small scale plants for resource efficiency training in the Indian metal industry, F. Rögener*, Cologne University of Applied Sciences; M. Sartor, VDEh; M. Enders, Simatech GmbH, Germany; M. Balakrishnan, TERI University, India; T. Schneiker, Scanacon AB, Sweden

A 3,000m3/day tubular membrane Filter (TMF™) system installed in Korea for wafer backgrinding water reclamation, D. Frick*, POREX, USA

Numeric Simulation of Porous Structures F4

Methods of filter media pore space analysis based on geometrical characteristics, G. Bälz*, R. Handel, B. Renz, A. Enderich, Mahle Filtersysteme GmbH; C. Feuchter, Aalen University, Germany

Simulation of cake filtration for polydisperse particles, J. Becker*, L. Cheng, A. Wiegmann, Math2Market GmbH, Germany

Automatic fiber thickness measurement in SEM images validated using synthetic data, P. Easwaran*, O. Wirjadi, T. Prill, Fraunhofer Institute for Industrial Mathematics, M. Lehmann, 2MANN+HUMMEL GmbH, S. Didas, University of Applied Science Trier; C. Redenbach, Technical University of Kaiserslautern, Germany

Coalescer/Liquid–Liquid Separation L16

Oily and wastewater separation by electroflotation, I. L. Nascimento, E. Mattedi, M. F. Cometi, W. V. Paiva, S. M. S. Rocha*, Federal Univerity of Espirito Santo; E. R. Nucci, Federal University of São João Del Rei, Brazil

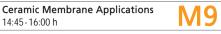
Preliminary studies of new water removal element in purification applications of diesel fuels and lube oils, R. Chen*, Kaydon Filtration Corp., USA

Challenges of testing fuel water separation efficiency, G. Venkateswaran, A. Goodby*, Ahlstrom Transportation Filtration, USA Industrial Gas Cleaning II 14:45-16:00 h

Bag Filters: DURAtes microfiber felt for highefficiency filtration, D. De Angelis*, E. Galletta, L. Cattaneo, L. Balzaretti, Testori S.p.A., Italy

Pressure resistance parameters and dedusting performance of differently sized needle felt bags in a pilot scale test facility, F. Seffrin*, D. Hess, Balcke-Dürr GmbH, Germany

Intelligent filter solutions with focus on low weight/ foot print and premanufactured design, L. Gamborg* M. Staben, L. Korkholm, K. Poulsen, FLSmidth A/S, Denmark



Ceramic hollow fiber membranes as new filter media and their application in oil/water separation processes, S. Schütz*, F. Ehlen, I. Unger, MANN+HUMMEL GmbH; M. Ebrahimi, S. Kerker, P. Czermak, University of Applied Sciences Mittelhessen, Germany

Investigation the performance of cross-flow microfiltration of titanium dioxide suspension, T. H. T. Trinh, W. Samhaber, University Linz, Austria

Hybrid flotation-filtration process for oil water separation based on ceramic membranes, M. Beery*, J. Ludwig, L. León, akvolution GmbH, Germany

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