



Call for Papers

FILTECH

March 8 – 10, 2022
Cologne – Germany

The Filtration Event
www.Filtech.de

**Join the
world's largest
Filtration Event**

Koelnmesse · Cologne · Germany



Join the largest Filtration Event world-wide and ...

Welcome to FILTECH in Cologne

The Filtration industry provides innovative solutions for current and future challenges. This dynamic industry is of further growing importance and turning into a key industry worldwide. At the FILTECH 2022 Show the latest innovations will be on display and will provide visitors an exclusive overview and insights into the state-of the art science and technologies. FILTECH will be once again the place to be for all those involved with the filtration and separation sector and adjacent industries. And the City has a lot more to offer...

The magnificent Cologne Cathedral hovers above the roofs of the city. It is not only used as a point of orientation but is the pride of the people in Cologne. The panorama of the city has been dominated by the Cathedral's gigantic pair of towers since their completion in 1880.

Enjoy the unique Rhine panorama of the Old Town with the Cathedral, the Roman church Groß St. Martin and the historical Town Hall. Enjoy a glass of the famous local "Koelsch" beer and take a stroll through the narrow, cobble-stoned alleys by the river Rhine.

... present your latest research

The programme will give a representative cross-section 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. Most ongoing problems will be represented in the programme.

Present your latest research at FILTECH 2022 to an international audience and network with filtration experts from all over the world.

Submit your abstract until
September 10, 2021

Full Paper Deadline: December 15, 2021

FILTECH 2022 Conference will feature once again the latest advances and techniques in liquid/solid and gas/particle separation (dust, gas & air filtration) in 3 days of in-depth exposure. Technology and know-how transfer is a main target.



**Presented by leading experts
– learn about future ...**

... trends and perspectives

FILTECH 2022 Conference will feature more than 200 technical papers, a Plenary Lecture and 4 Keynote Lectures presented by leading experts. Delegates profit from high-level knowledge transfer!

Plenary Lecture and Keynote Lectures



Roaring twenties in air filtration - driving for a cleaner world

Dr.-Ing. Martin Lehmann,
MANN+HUMMEL GmbH / Germany

In medias res: Air filtration is omnipresent for delivering clean air: protecting engine and equipment known as engine filtration, enabling processes and technology known as industrial filtration, providing comfort and indoor air quality known as HVAC filtration or prominent as indoor air purifier for reducing risk of aerosols in closed environment. Adding gas adsorption, the domain of cabin air filtration shows up. The focus in this talk will be on particle filtration. Tempora mutantur et nos mutamur in illis. A bit more than twenty year ago, the digital revolution in air filtration started. First realistic simulations of particle collection on single fibers. First time visualization of the 3D microstructure of a fibrous filter. CFD and FEA have become a key tool for designing air filter systems ...

The plenary lecture will be a personal collection of examples illustrating the evolution of air filtration in the approximately last twenty years as well as an outlook into the roaring 2020s in air filtration.



The role of structural and surface properties of depth filter media designed for selected separation processes

Prof. Andrzej Krasinski, Warsaw University of Technology, Faculty of Chemical and Process Engineering / Poland

The presentation covers examples on the enhancement of filtration performance by modification of fibrous media tailored for specific processes. The topic will include an optimization of depth filter for solid filtration and coalescence (both gas-liquid and liquid-liquid), methods for modification of filter structure by deposition or synthesis of particles on the fibers to obtain expected wettability as well as fabrication and testing of antibacterial filters ...



Simulation of solid-liquid separation processes: Challenges in modeling and experimental validation

Prof. Sergiy Antonyuk, Technische Universität Kaiserslautern, Institute of Particle Process Engineering / Germany

With the rapid increase in computing power, numerical simulation is becoming increasingly important for the prediction and description of solid-liquid separation processes. Numerical studies can improve knowledge of complex separation mechanisms and support the model-based optimization of existing and the development of novel separation processes. The approaches used for the modeling and simulation of solid-liquid flow processes differ in ...



Membrane science and functional materials

Prof. Dr. Liang-Yin Chu, Membrane Science and Functional Materials Group – Sichuan University / China

Functional membranes are playing paramount roles for sustainable development in myriad aspects such as energy, environments, resources and human health. However, the unalterable pore size and surface property of traditional porous membranes restrict their efficient applications. The performances of traditional functional membranes will be weakened upon the unavoidable membrane fouling ...



Test membrane filtration

Prof. Dr. Pierre-Yves Pontalier,
ENSIACET LCA Laboratoire de Chimie Agro-industrielle / France

Membrane processes are used in a very large number of industrial fields such as the food industry, the chemistry, the pharmaceuticals or the environment. Membrane processes contribute to the protection of the environment as they allow the depollution of industrial and urban effluents. They may also help to limit environmental degradation by integrating new cleaner processes, particularly those related to the biorefinery concept ...



How to submit...

... your abstract

Your abstract should not exceed 2 pages (incl. tables and figures). Make the title, background, aim, method and main results as concise as possible. Give 4–6 keywords describing the content of your abstract. Start with title, name(s) of author(s), and affiliation(s). Indicate up to 6 authors' names and initials. If more than 6 use "et al.". Give the name/institution where the main work was done. Indicate by (*) the presenting author.

When you submit your abstract please precise what kind of presentation is preferred:

20 min presentation
or
5 min presentation
in a session room plus presentation in front of the poster in the poster area after the session

Upload your abstract as MS-Word file on the FILTECH 2022 website. You will receive an e-mail confirmation with your abstract number.

For further details see www.filtech.de → Conference

Poster Printing Service incl.

Conference Registration Fees

Day-Ticket	Early bird € 300	Regular € 395
3-Day-Ticket	Early bird € 630	Regular € 810
Short Courses	Early bird € 480	Regular € 580

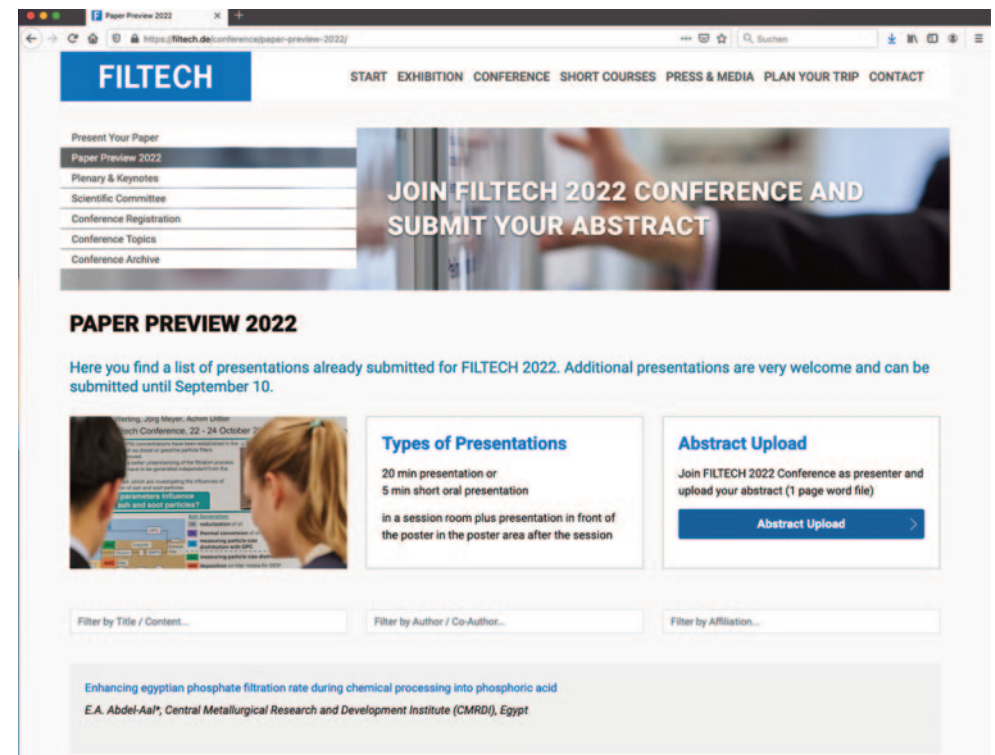
Your Participation includes: Proceedings featuring all papers in an abstract book & personalized download-link, Welcome Reception, Lunches & Refreshments, Cologne Public Transport Ticket, Entrance to the Exhibition and Exhibition Catalogue

Early bird rate until January 20, 2022. For speakers the early bird rate applies at any time (all prices incl. German VAT).

Submit your abstract until **September 10, 2021**
Notice of Acceptance upon receipt
Deadline Full Papers December 15, 2021

Paper Preview 2022

On the FILTECH website you can get an overview of already submitted papers for **FILTECH Conference 2022**. With the implemented search function you can easily read upon relevant topics, authors, contents and affiliations.





Short Courses
March 7, 2022
9:00 am - 6:00 pm



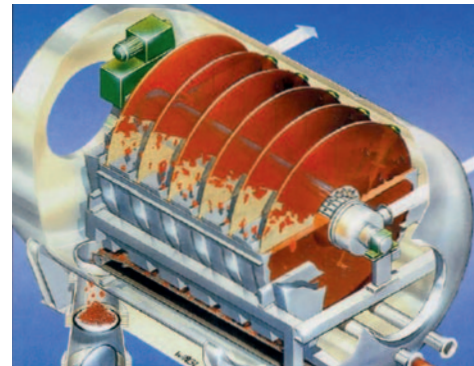
One day prior to FILTECH 2022 two 1-Day Short Courses will be held:

Short Course I **Solid/Liquid Separation**

Dr.-Ing. Harald Anlauf
 Consultant, Germany

Topics

- Characterisation of Particles and Particle Separation
- Density Separation - Static Thickeners and Solid Bowl Centrifuges
- Depth, Cross Flow and Cake Filters
- Filter Media
- Suspension Pretreatment to Enhance Separation Properties
- Alternative Separation Solutions and Apparatus Combinations
- Selection Criteria for Separation Equipment

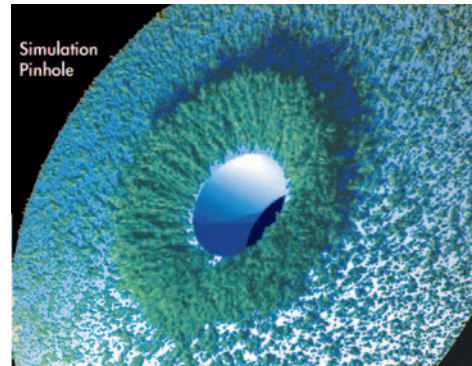


Short Course II **Fine Dust Separation**

Prof. Eberhard Schmidt
 University of Wuppertal, Germany

Topics

- Evaluation and 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



The Filtration Event

FILTECH 2022 will feature 450+ Exhibitors at the Koelnmesse in Cologne. The largest filtration Show world-wide is the globally acknowledged platform and solution provider for all industries covering every market segment.

FILTECH has an established track record in bringing together the technical and commercial sectors to develop global business relationships.

The Show successfully extended its range and presents the most recent innovations in filtration and separation technologies, machinery, particle measurement, analysis & simulation systems and many more associated industries.





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FILTECH 2022 Conference

Where Experts meet

Scientific Committee Chairmen

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

Scientific Committee

■ Prof. Mônica Lopes Aguiar	São Carlos	Brazil
■ Prof. Sergiy Antonyuk	Kaiserslautern	Germany
■ Dr. Harald Banzhaf	Ludwigsburg	Germany
■ Prof. Liang-Yin Chu	Chengdu	China
■ Prof. Ching-Jung Chuang	Taoyuan	Taiwan
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■ Prof. Achim Dittler	Karlsruhe	Germany
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■ Prof. Gerhard Kasper	Karlsruhe	Germany
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■ Prof. Gernot Krammer	Graz	Austria
■ Dr. Martin Lehmann	Ludwigsburg	Germany
■ Prof. Markus Lehner	Leoben	Austria
■ Prof. Dietmar Lerche	Berlin	Germany
■ Prof. Woon-Fong Wallace Leung	Hong Kong	P.R. China
■ Prof. Richard Lydon	Chester	UK
■ Dr. Hisao Makino	Yokosuka	Japan
■ Dr. Tuve Mattsson	Gothenburg	Sweden
■ Prof. Gerd Mauschwitz	Vienna	Austria
■ Prof. Arunangshu Mukhopadhyay	Jalandhar	India
■ Prof. Ioannis Nicolaou	Larnaka	Cyprus
■ Prof. Hermann Nirschl	Karlsruhe	Germany
■ Dr. Thomas Peters	Neuss	Germany
■ Prof. Urs Peuker	Freiberg	Germany
■ Prof. Pierre-Yves Pontalier	Toulouse	France
■ Prof. Sandra Mara Santana Rocha	Espirito Santo	Brazil
■ Prof. Peter Scales	Parkville	Australia
■ Prof. Hans-Joachim Schmid	Paderborn	Germany
■ Dr. Anthony Stickland	Melbourne	Australia
■ Dr. Christine Sun	Clarksville	USA
■ Prof. Hans Thellander	Gothenburg	Sweden
■ Prof. Dominique Thomas	Nancy	France
■ 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