
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

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 of the state-of the art science and technologies - no matter what sector they are in. FILTECH will be once again the place to be for all those involved with the filtration and separation sector and adjacent industries. **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. And the City has a lot more to offer…

Cologne where the cathedral spires tower over Germany's oldest city and its innumerable cultural and historical treasures, world-famous museums and active art scene. Take a trip through 2000 years of history and visit cultural monuments from the Roman Empire to modern times. Built between 1248 and 1880, Cologne Cathedral is regarded as a masterwork of

medieval Gothic architecture. It is one of the finest ecclesiastical edifices in the world.

Situated directly on the Rhine and marked by narrow gables and high slated roofs, a district of its own type asserts itself in the Old City of Cologne, the unmistakable, historically appearing character of which stands out immediately.

Cologne is a lively cultural metropolis. Thanks to an extremely active and committed urban scene the city has developed into a creative hotspot. This is reflected above all in the numerous facets of design, music, art, fashion, festivals, and food. The Cologne Tourist Board illuminates this modern urban lifestyle on the visit.koeln blog and strengthens its focus on the culinary facets of the cathedral city. You can discover more about #CulinaryCologne and #urbanCGN at www.visit.koeln.

We look forward to welcoming you to Cologne - Germany.

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

... 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, which play an important role in the current situation will be represented in the programme.

Submit your abstract until
September 10, 2021
Full Paper Deadline: December 15, 2021

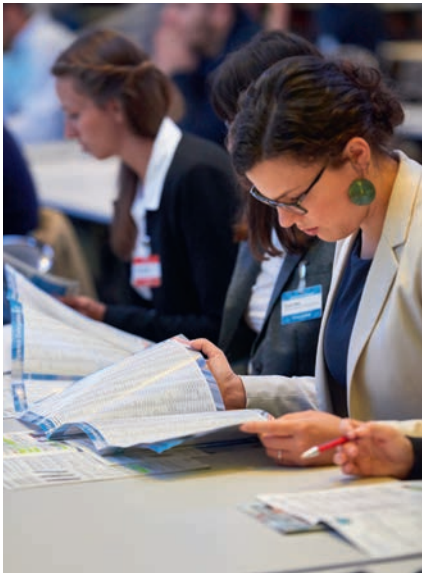
Present your latest findings at FILTECH 2022 to an international audience and network with filtration experts from all over the world.

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

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 & simulationsystems and many more associated industries.

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 Lehman,
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. Adding gas adsorption, the domain of cabin air filtration shows up. However, in this talk the focus will be on particle filtration.
Tempora mutantur et nos mutamur in illis. A bit more than twenty years 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 intake systems. …

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, …

Membrane filtration and sustainable development

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 sesssion 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 December 20, 2021. 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

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

Karlsruhe Institute of Technology, Germany, Institute for Mechanical Process Engineering & Applied Mechanics

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, Institute of Particle Technology

Topics

Evaluation and Selection of Dust Collection Equipment

Wet Scrubbers

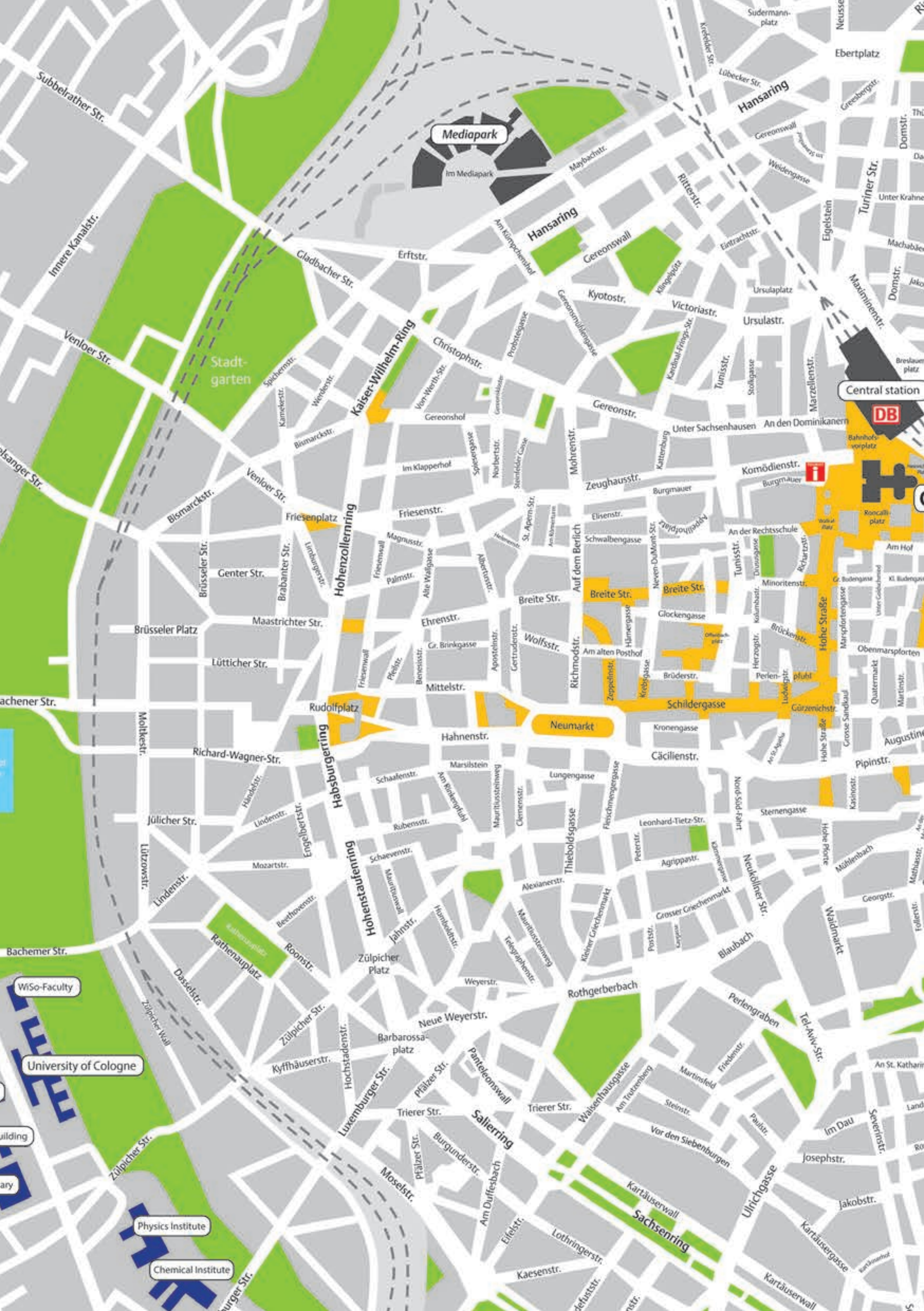
Centrifugal Collectors/Cyclones

Electrical Precipitators

Fibrous Filters / Deep Bed Filters

Raw Gas Characterisation and Conditioning

Fabric Filters / Surface Filters



Mediapark
Im Mediapark
Central station
DB
Stadt-
garten
WiSo-Faculty
University of Cologne
Physics Institute
Chemical Institute
Subbelrather Str.
Innere Kanalstr.
Venloer Str.
Gladbacher Str.
Erftstr.
Hansaring
Gereonswall
Kyotostr.
Victoriastr.
Ursulastr.
Ebertplatz
Sudermann-
platz
Lübecker Str.
Ritterstr.
Eigelstein
Turiner Str.
Maximinenstr.
Christophstr.
Kaiser-Wilhelm-Ring
Gereonstr.
Unter Sachsenhausen
An den Dominikanern
Komödienstr.
Zeughausstr.
Mohrenstr.
Friesenplatz
Friesenstr.
Hohenzollernring
Bismarckstr.
Brüsseler Str.
Genter Str.
Brabanter Str.
Brüsseler Platz
Maastrichter Str.
Lütticher Str.
Ehrenstr.
Breite Str.
Auf dem Berlich
Wolfsstr.
Richmodstr.
Mittelstr.
Rudolfplatz
Neumarkt
Schildergasse
Hohe Straße
Hahnenstr.
Cäcilienstr.
Kronengasse
Richard-Wagner-Str.
Habsburgerring
Moltkestr.
Jülicher Str.
Lützowstr.
Hohenstaufenring
Zülpicher Platz
Rathenauplatz
Roonstr.
Bachemer Str.
Zülpicher Str.
Barbarossa-
platz
Neue Weyerstr.
Luxemburger Str.
Salierring
Trierer Str.
Moselstr.
Rothgerberbach
Blaubach
Perlengraben
Waidmarkt
Severinstr.
Ulrichgasse
Sachsenring
Kartäuserwall
Lothringerstr.
Kaesenstr.
Vor den Siebenburgen
Josephstr.
Jakobstr.
Thieboldsgasse
Neuköllner Str.
Nord-Süd-Fahrt
Sternengasse
Leonhard-Tietz-Str.
Agrippastr.
Mauritiussteinweg
Pipinstr.
Augustinerstr.
Obenmarspforten
Minoritenstr.
Glockengasse
Georgstr.
Mühlenbach
Tel-Aviv-Str.
Pantaleonswall
Waisenhausgasse
Martinsfeld
Im Dau
Pfälzer Str.
Burgunderstr.
Am Duffesbach
Eifelstr.
Kyffhäuserstr.
Hochstadenstr.
Dasselstr.
Zülpicher Wall
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Weyerstr.
Achener Str.

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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

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Prof. Paolo Tronville	Torino	Italy
Prof. Kuo-Lun Tung	Taipei	Taiwan
Prof. Eugène Vorobiev	Compiègne	France
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