



PROGRAM

as of June 11, 2025

14TH WORLD FILTRATION CONGRESS

BORDEAUX FRANCE
30 JUNE - 4 JULY 2025





EXPERT FILTRATION & SEPARATION

MEMBRANE CHARACTERIZATION

FILTRATION & SEPARATION

• **LABORATORY EQUIPMENT**

PROCESS STUDIES

• **FILTER TESTING**



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EDITORIAL

The Société Française des Séparation Fluides Particules (SF2P, France) will be organizing the next World Filtration Congress (WFC14) in Bordeaux from June 30 to July 4. Held every 3 to 4 years, World Filtration Congresses take place in a member country of the International Filtration Delegates Association.

The aim of the WFC is to create a meeting place for scientists, engineers and applicators from all over the world, specialists in filtration and separative techniques, to discuss the latest advances in science and technology. The WFCs have enabled the development of processes in line with the socio-economic challenges of each era. Our committee wishes to preserve this tradition by placing WFC 14 at the heart of the challenges facing the world today and tomorrow. We hope that the project we have prepared will have the support of our entire community.

The congress will provide an opportunity to discuss the technical and scientific challenges and innovations in the field of fluid-particle separations. The scientific committee is keen to highlight the involvement of all these processes in environmental and sustainable development issues. Particular attention will be paid to a fast-growing area, the valorization of natural resources, in line with the biorefinery concept, of biosourced molecules to replace petrochemical products. Filtration and separative techniques for more sustainable processes, as well as water, climate and energy issues will also be addressed.

A trade show, bringing together solution providers, prime contractors, designers, consultants, etc., and specific forums will enable visitors to discover the innovations on display and to take advantage of discussions and debates with other professionals. Exchanges between academic researchers and industrial partners will be intensified through specific communications open to exhibitors, or through the creation of meeting spaces. The aim is to promote opportunities for friendly interaction during the event to discuss key topics in the field of separative techniques and filtration. The expected number of participants is 150 exhibitors and 700 scientific researchers.

SF2P's ambition is to offer the best possible welcome to experts from all over the world who will be attending WFC14, and to organize an exceptional event. That's why we've chosen Bordeaux as our host city, renowned for its economic, scientific and, of course, tourist appeal. We look forward to meeting you in Bordeaux, which will also seduce you with its diverse cultural, artistic, gastronomic and architectural heritage.



Vincent EDERY
Managing Director IFTS



Professor PONTALIER
President of SF2P



PROGRAM

SHORT COURSES

Registration required

12:00 - 13:30

WELCOME ATTENDEES

ROOM D2

LIQUID FILTRATION: EQUIPMENT

Wu CHEN, CHINA

13:30 - 15:30

COFFEE
BREAK

16:00 - 18:00

- Introduction
- Key Particles and Liquid Properties in Solid/Liquid Separation
- Straining Equipment
- Cake Filters
- Depth Filters
- Membrane Filters
- Gravity Separators
- Centrifugal Separators
- Pre-treatment – Coagulation, Flocculation & Filter Aids

ROOM H2

CENTRIFUGAL SEPARATION IN BIOPHARMACEUTICAL INDUSTRY

Wallace LEUNG, Duluth, UNITED STATES

The purpose of this course is to introduce centrifugal separations for making drug substances and intermediates, such as monoclonal antibodies for cancer treatment. The building blocks for these drug substances are made from recombinant protein process through inserting a segment of a gene into a host cell (mammalian cells, yeast, bacteria, etc.) and allowing protein to be expressed extracellularly or intercellularly by the host cell in a fermenter or bioreactor. Separating extracellular or intracellular protein in the broth by centrifugal separation is a common practice in biopharmaceutical processing despite many challenges as it involves shear sensitive living cells from bacteria which are a few microns to mammalian cells and yeast which are tens of microns, and with density not too much different from that of the broth. This course will go through fundamentals to applications involving centrifugal separations in biopharmaceutical processing.

Learning objectives:

- Recombinant protein host cells
- Metrics of separation
- Fundamentals of centrifugal sedimentation
- Existing biopharmaceutical application examples - insulin, hormones, enzymes, probiotics, etc.
- Selection and sizing of centrifuges
- Troubleshooting separation process
- Different process requirements – centrate solids, cake dryness, sizing

Course outline:

- Chapter 1 - Common host cells for recombinant protein processes; extracellular vs. intracellular protein; metrics - protein yield, centrate solids, throughput, cell viability.
- Chapter 2 - Centrifugal sedimentation
- Chapter 3 - Batch and semi-batch, disk stack, decanters
- Chapter 4 - Commercial applications to biopharmaceutical separations
- Chapter 5 - Selection and sizing
- Chapter 6 - Troubleshooting
- Chapter 7 - Separation, flocculation, classification, and dewatering

ROOM E2

GLOBAL FILTRATION MARKETS, TECHNOLOGIES, AND TRENDS?

Christine SUN, Clarksville, UNITED STATES

1. Introduction to the Global Filtration Market

- Overview of the global filtration market
- Air and liquid filtration applications
- Filtration concepts and value proposition
- Key drivers for continuous growth, emerging trends, and opportunities

2. Filter Media Technologies and Opportunities

- Advancements in filter media materials
- Performance optimization and efficiency trends
- Market opportunities across different industries

3. Advanced Filtration Technologies

- Innovations in filtration system design
- Integration of AI, nanotechnology, and smart filtration
- Sustainability and regulatory compliance considerations

4. Future Outlook and Strategic Planning

- Predicted market trends and forecasts
- Strategies for market entry, expansion, and competitive positioning
- The role of innovation and sustainability in shaping the future

13:30 - 15:30

COFFEE
BREAK

16:00 - 18:00

ROOM F1

MEMBRANES: BASICS

Patrice BACCHIN, Toulouse

1. Introduction to Membrane Separation Processes

- Definition and fundamental principles
- Classification of membrane processes
- Comparison with other separation technologies
- Industrial applications and case studies

2. Membrane Structures, Operating Parameters, and Characterization

- Relationship between structure and function: pore size, selectivity, permeability
- Definition and measurements of operating parameters characterizing selectivity and performance
- Membrane characterization techniques

3. Limitations of Membrane Processes: Fouling and Solutions

- Types of fouling
- Mechanisms and impact on performance
- Initiation to modeling
- Prevention and cleaning strategies

13:30 - 15:30

COFFEE
BREAK

16:00 - 18:00

PROGRAM

SHORT COURSES

Registration required

ROOM H1

FILTER MEDIA: LIQUID FILTRATION TESTING BASICS

Nicolas PETILLON, Foulayronnes

13:30 - 15:30

COFFEE
BREAK

16:00 - 18:00

- Introduction to Liquid filter testing
- Standardization organizations and test standards
- Industries, National and International Quality assurance in testing laboratories
- Types and applications of liquid clarification filters
- Types: Depth, Precoat, Cartridges, Membranes, Design and operation parameters, Fields of Application
- Types and characteristics of filtering media
- Granular, woven, non-woven, membranes
- Characteristics of liquids and particles





INTERNATIONAL **FILTRATION** NEWS

INSIGHTS, ISSUES & INNOVATIONS

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as Sustainability &
Technology Intersect**

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PROGRAM

	ROOM F	ROOM H	AMPHI A	
8:00 - 10:15				
8:00 - 18:00				
10:15 - 11:00	AMPHI A			
11:00 - 12:00	AMPHI A			
12:00 - 13:30				
13:30 - 14:10	KEYNOTE: Wu CHEN Opportunities, Trend and New Development in Liquid Filtration	KEYNOTE: Kyung-Ju CHOI Current and Sustainable Upcoming Filter Media	KEYNOTE: Wallace LEUNG Developing nanofibrous filter with low energy consumption and high efficiency	
	FUNDAMENTALS, MODELLING AND SIMULATION 1	FILTER ELEMENTS AND MEDIA 1	PETROLEUM AND BIO-BASED MEDIA	
14:20 - 14:40	O-001 Eugene VOROBIEV Predictive model of solid-liquid filtration and mechanical dewatering with compressible filter cakes	O-006 Marina ÄNGESLEVÄ Nuances of measurements of nonwoven filter media, ceramic, and electrospun membranes with capillary flow porometry	O-011 Alessia NICOSIA Sustainable silk fibroin filtration solutions for healthier environments	
14:40 - 15:00	O-002 Eugene VOROBIEV Evaluation of filtration diffusivity and internal pressure-porosity- permeability profiles during consolidation of compressible filter cakes based on the predictive model	O-007 Friedrich EDELMEIER New Developments in Woven Wire Filtration Media - 3D High Performance Filter Cloth for increased volume flow	O-012 Goda MASIONE Life cycle assessment of biobased polymer air filters: a comparative study with petroleum-based materials	
15:00 - 15:20	O-003 Erik LÖWER Correlating Particle Properties with 3D Pore Space Parameters in Cake Filtration: A Model-Based Approach	O-008 Guenter MUELLER Specialty- and high-performance polymers for meltblown technology: selection, processing, and resulting media properties	O-013 Dainius MARTUZEVICIUS Aerosol filtering materials from biobased polyamide as fabricated via melt blowing and electrospinning	
15:20 - 15:40	O-004 Sergiy ANTONYUK Experimental estimation of the model parameters for the CFD-DEM simulation of filtration processes	O-009 Martin MUELLER Composite-cloths: Combining smallest pores sizes and mechanical robustness in one filter medium	O-015 Ki Ro YOON A Study on the PTFE Fibrous Nonwoven Fabricated by Electrospinning Technique as Dust Filtration Media	
15:40 - 16:00	O-005 Urs Alexander PEUKER Model analysis for filter aid filtration	O-010 Nick EDWARDS LENZING Lyocell Enhanced Fibrillation - latest developments from Lenzing AG confer a sustainable competitive advantage in high-efficiency filter media design		
16:00 - 16:30				
	FUNDAMENTALS, MODELLING AND SIMULATION 2	FILTER ELEMENTS AND MEDIA 2	NEW MEDIA FOR GAS FILTRATION	
16:30 - 16:50	O-036 Bernhard HOFFNER Insights into imperfections - considerations on the assessment of non-ideal filter cakes	O-039 Melanie FUHRMANN Data-Driven Modeling of Fluid Flow Through Porous Metal Wire Meshes	KEYNOTE: Santosh CHAVAN Reimagining Filtration: Reticulated & Activated Carbon Impregnated PU Foams for Modern Filtration Challenges	
16:50 - 17:10	O-037 Christopher KÜHNLE An effective digital approach to improve pleated filter performance	O-040 Elsi STRAND Ultrasonic self-cleaning of wire mesh filter elements in filtration of iron oxides		
17:10 - 17:30		O-041 Mansi GARG ProTex- energy saving filter media	O-042 Natacha KINADJIAN CAPLAT Purenat, the new media that reinvents photocatalysis	
17:30 - 18:15				
18:30 - 19:30				

	ROOM D	AMPHI B	AMPHI C	ROOM E
	Registration			
	Expo Open			
	Opening Ceremony			
	Plenary Lecture: Herman NIRSCHL Autonomous Processing in Separation Technologies			
	Lunch			
	KEYNOTE: Zhaoxiang ZHONG Process Reengineering with Air-Purification Membranes for Environmental Sustainability	KEYNOTE: Kwang-Ho CHOO Catalytic Membrane Filters for Water Purification and Sanitization	KEYNOTE: Zhi WANG Development of membranes and membrane processes for CO ₂ capture	KEYNOTE: Hans THELANDIER Some thought regarding filtration in today's and future Bio refineries
	INDUSTRIAL GAS CLEANING	FUNDAMENTALS, MODELING AND SIMULATION	MEMBRANE FOULING / REGENERATION	BIOREFINERY
	O-016 Sean MCLNTYRE A new gas permeation unit for investigating PIM-1 and cPIM-1 gas permeation under real-world conditions	O-021 Morshed MAHMUD Molecular insights inside the PIM-1 membrane with ethanol-water mixtures	O-026 Eric FAVRE Membranes for biogas upgrading - A modelling approach using MEMSIC simulation tool for innovative membranes benchmarking	O-031 Estelle COUALLIER Recovery of proteins from microalgae extracts using biocatalytic membranes
	O-017 Shipeng WAN Highly-efficient SiC-base Catalytic Membrane for PM _{2.5} Capture Integrated with Urea Production under Solar Irradiation	O-022 Xianghong QIAN Free energy surface landscape of interfacial polymerization for polyamide membrane formation	O-027 Noredine GHAFfour Effective membrane cleaning technique using CO ₂ nucleated bubbles	O-032 Camille DEMOULIN A sustainable combination of pre-treatment and filtration mode to upgrade mango pulp by microfiltration
	O-019 Bruno LIMA Precoating Humidity in Filtration Cycles Performance	O-023 Fynn Jerome ASCHMONEIT Spacer orientation in reverse osmosis: A trade-off between pressure drop and filtration rate	O-028 Julie JAMBERT Control of clogging in microfluidic filtration chip using low frequency ultrasound	O-034 Louis LECLERCQ New developments of eco-extraction coupling microwaves and high speed centrifugation based on vegetal cells properties
	O-020 Bruno LIMA Analysis of the influence of the sewing thread on the performance of filter bags	O-024 Mamadou Lamine NIANE Development of a numerical model of pervaporation for membrane crystallization or solvent dehydration	O-029 Jinwoo KIM Enhanced quorum quenching membranes: Optimizing polymer coatings for improved antifouling performance in membrane bioreactors	O-035 Anders Kjør JØRGENSEN Production of plant-based feed and food proteins by membrane and dead-end filtration
	O-020bis Charles-Florian PICARD Perks and Challenges of Evaluating Air Purifiers in Realistic Environments: Insights from Case Studies in the Eurêka Lab-House (France)	O-025 Sebastian OSTERROTH Modeling and simulation of separation processes in hollow fiber modules	O-030 Kevin DEMONT Accumulation of biological particles on a model filter : kinetics of growth and morphological analysis	
	Coffee Break - Exhibition - Poster			
	INDUSTRIAL GAS CLEANING	MEMBRANE TECHNOLOGY / APPLICATIONS	NF	WASTE WATER TREATMENT
	O-043 Dzmitry MISIULIA One dimensionless number to rule all dimensionless characteristics of a cyclone performance	O-046 Christine KLEFFNER Optimizing Membrane Elements for Enhanced Efficiency in Industrial Resource Recovery	O-049 Dawry-Javier CAPELLAN BATISTA Impact of physico-chemical interactions in organic solvent nanofiltration of hydroformylation complex media separation by a PDMS membrane	O-052 Volker BÄCHLE Development of an autonomous process for the selective leaching and filtration of metal ions from mining waste
	O-044 Stanislovas ZDANEVICIUS Study on the influence of flow rate on gas flow distribution in an electric field manipulator: Experimental research	O-047 Ariella LIBERATI Stimuli-responsive polymer enhanced membrane filtration for separation of lithium from lithium-ion battery leachate		O-053 Sam VAN LANDUYT Enhancing sustainable industrial practices through reuse of metal oil filtration elements
	O-045 Qing HE Experimental study of adsorption behavior of CH ₃ I over microchannel reactors	O-048 Jean-Christophe P. GABRIEL Novel and Highly Selective Membranes Based on 2 & 3D Porous Nanomaterials		
	Poster viewing session			
	WELCOME RECEPTION			

PROGRAM

WELCOME AREA

08:00 - 18:30 **Welcome attendees**

AMPHI A

10:15 - 11:00 **Opening ceremony**

AMPHI A

11:00 - 12:00 **Plenary session**

Autonomous Processing in Separation Technologies
Hermann NIRSCHL, Munich, GERMANY

ESPACE PLURIEL

12:00 - 13:30 **Lunch**

ROOM F

Liquid filtration/ Keynote session

13:30 - 14:10 **Liquid filtration**

Wu CHEN, CHINA

ROOM H

Liquid filtration/ Keynote session

13:30 - 14:10 **Current and Sustainable Upcoming Filter Media**

Kyung-Ju CHOI, Clean & Science, Louisville, UNITED STATES

AMPHI A

Gas filtration/ Keynote session

13:30 - 14:10 **Developing nanofibrous filter with low energy consumption and high efficiency**

Wallace LEUNG, Hong Kong Polytechnic University, Duluth, UNITED STATES

ROOM D

Gas filtration/ Keynote session

13:30 - 14:10 **Process Reengineering with Air-Purification Membranes for Environmental Sustainability**

Zhaoxiang ZHONG, Nanjing Tech University, Nanjing, CHINA

AMPHI B

Membrane / Keynote session

13:30 - 14:10 **Catalytic Membrane Filters for Water Purification and Sanitization**

Kwang-Ho CHOO, Kyungpook National University, Daegu, REPUBLIC OF KOREA

AMPHI C

Membrane / Keynote session

13:30 - 14:10 **Development of membranes and membrane processes for CO₂ capture**

Zhi WANG, Tianjin University, Tianjin, CHINA



ROOM E

Sustainable development / Keynote session

13:30 - 14:10

Some thought regarding filtration in todays and future Bio refineries

Hans THELANDIER, Chalmers University of Technology, Gothenburg, SWEDEN

ROOM F

Liquid filtration / Session

14:20 - 16:00

Fundamentals, Modelling and Simulation 1

- 14:20** O-001 Predictive model of solid-liquid filtration and mechanical dewatering with compressible filter cakes
Eugene VOROBIEV, UTC – Universite de Technologie de Compiègne, Compiègne
- 14:40** O-002 Evaluation of filtration diffusivity and internal pressure- porosity- permeability profiles during consolidation of compressible filter cakes based on the predictive model
Eugene VOROBIEV, UTC – Universite de Technologie de Compiègne, Compiègne
- 15:00** O-003 Correlating Particle Properties with 3D Pore Space Parameters in Cake Filtration: A Model-Based Approach
Erik LÖWER, TU Bergakademie Freiberg, Freiberg, GERMANY
Co-authors: Phillip GRÄFENSTEINER ⁽²⁾; Orkun FURAT ⁽²⁾; Urs PEUKER ⁽¹⁾; Volker SCHMIDT ⁽²⁾
Affiliations: 1: TU Bergakademie Freiberg, Institute of Mechanical Process Engineering and Mineral Processing, Freiberg, GERMANY; 2: Ulm University, Institute of Stochastics, Ulm, GERMANY
- 15:20** O-004 Experimental estimation of the model parameters for the CFD-DEM simulation of filtration processes
Sergiy ANTONYUK, University of Kaiserslautern-Landau (RPTU), Kaiserslautern, GERMANY
- 15:40** O-005 Model analysis for filter aid filtration
Urs Alexander PEUKER, TU Bergakademie Freiberg, Freiberg, GERMANY
Co-authors: Diana NEUBER ⁽¹⁾; Thomas BUCHWALD ⁽¹⁾
Affiliations: 1: TU Bergakademie Freiberg, Freiberg, GERMANY

ROOM H

Liquid filtration / Session

14:20 - 16:00

Filter Elements and Media 1

- 14:20** O-006 Nuances of measurements of nonwoven filter media, ceramic, and electrospun membranes with capillary flow porometry
Marina ÂNGESLEVÄ, Porometer NV, Nazareth, BELGIUM
Co-authors: Dana DUTCZAK ⁽¹⁾; Eline PATTYN ⁽¹⁾; Izabela STRUZYNKA-PIRON ⁽¹⁾; Anna SOBOLEWSKA ⁽²⁾; Motyka MOTYKA ⁽²⁾; Loubaba SHARAF ⁽²⁾
Affiliations: 1: Porometer NV, Nazareth, BELGIUM; 2: IB-FT GmbH, Berlin, GERMANY
- 14:40** O-007 New Developments in Woven Wire Filtration Media - 3D High Performance Filter Cloth for increased volume flow
Friedrich EDELMEIER, Haver & Boecker, Oelde, GERMANY
- 15:00** O-008 Specialty- and high-performance polymers for meltblown technology: selection, processing, and resulting media properties
Guenter MUELLER, Sandler Group, Schwarzenbach An Der Saale, GERMANY
Co-authors: Jana BUßLER ⁽¹⁾
Affiliations: 1: Sandler Group, Schwarzenbach an der Saale, GERMANY
- 15:20** O-009 Composite-cloths: Combining smallest pores sizes and mechanical robustness in one filter medium
Martin MUELLER, G. Bopp + Co. AG, Fine Wire Weaving Plant, Zuerich, SWITZERLAND
- 15:40** O-010 LENZING™ Lyocell Enhanced Fibrillation – latest developments from Lenzing AG confer a sustainable competitive advantage in high-efficiency filter media design
Nick EDWARDS, Lenzing Fibers Grimsby Ltd., Grimsby, UNITED KINGDOM

PROGRAM

AMPHI A

Gas filtration / Session

14:20 - 16:00

Petroleum and bio-based media

- 14:20** O-011 Sustainable silk fibroin filtration solutions for healthier environments
Alessia NICOSIA, National Research Council of Italy (CNR), Bologna, ITALY
Co-authors: Fabrizio RAVEGNANI ⁽¹⁾ ; Livia OTTAVIANO ⁽²⁾ ; Elena BURATTI ⁽³⁾ ; Giorgia MICCOLI ⁽⁴⁾ ; Roberto ZAMBONI ⁽²⁾ ; Monica BERTOLDO ⁽³⁾ ; Valerio MICELI ⁽⁴⁾ ; Giovanna SOTGIU ⁽²⁾ ; Tamara POSATI ⁽²⁾
Affiliations: 1 : The Institute of Atmospheric Sciences and Climate (ISAC) of the National Research Council of Italy (CNR), Bologna, ITALY ; 2 : The Institute for Organic Synthesis and Photoreactivity (ISOF) of the National Research Council of Italy (CNR), Bologna, ITALY ; 3 : Department of Chemical, Pharmaceutical and Agricultural Sciences, University of Ferrara, Ferrara, ITALY ; 4 : Laboratory Innovation of Agri-food Chains, ENEA Research Center, ENEA, Brindisi, ITALY
- 14:40** O-012 Life cycle assessment of biobased polymer air filters: a comparative study with petroleum-based materials
Goda MASIONE, Kaunas University of Technology, Kaunas, LITHUANIA
Co-authors: Inga STASIULAITIENE ⁽¹⁾ ; Darius CIUŽAS ⁽¹⁾ ; Edvinas KRUGLY ⁽¹⁾ ; Martynas TICHONOVAS ⁽²⁾ ; Tadas PRASAUSKAS ⁽¹⁾ ; Dainius MARTUZEVICIUS ⁽¹⁾
Affiliations: 1 : Kaunas University of Technology, Kaunas, LITHUANIA ; 2 : Bious Labs Tech (Pazangiosios technologijos UAB), Kaunas, LITHUANIA
- 15:00** O-013 Aerosol filtering materials from biobased polyamide as fabricated via melt blowing and electrospinning
Dainius MARTUZEVICIUS, Kaunas University of Technology, Kaunas, LITHUANIA
Co-authors: Goda MASIONE ⁽¹⁾ ; Darius CIUŽAS ⁽¹⁾ ; Edvinas KRUGLY ⁽¹⁾ ; Martynas TICHONOVAS ⁽²⁾ ; Tadas PRASAUSKAS ⁽¹⁾
Affiliations: 1 : Kaunas University of Technology, Kaunas, LITHUANIA ; 2 : Bious Labs Tech (Pazangiosios technologijos UAB), Kaunas, LITHUANIA
- 15:20** O-015 A Study on the PTFE Fibrous Nonwoven Fabricated by Electrospinning Technique as Dust Filtration Media
Ki Ro YOON, Korea Institute of Industrial Technology, Ansan-Si, REPUBLIC OF KOREA



ROOM D

Gas filtration / Session

14:20 - 16:00

Industrial gas cleaning

14:20 O-016 A new gas permeation unit for Investigating PIM-1 and cPIM-1 gas permeation under real-world conditions

Sean MCLNTYRE, Surface measurement systems, London, UNITED KINGDOM

Co-authors: Andrew FOSTER ⁽²⁾; Mustafa ALSHURAFI ⁽²⁾; Paul IACOMI ⁽¹⁾; Peter BUDD ⁽²⁾; Daryl WILLIAMS ⁽³⁾

Affiliations: 1 : Surface measurement systems, London, UNITED KINGDOM ; 2 : University of Manchester, Manchester, UNITED KINGDOM ; 3 : Imperial College London, London, UNITED KINGDOM

14:40 O-017 Highly-efficient SiC-base Catalytic Membrane for PM2.5 Capture Integrated with Urea Production under Solar Irradiation

Shipeng WAN, Nanjing Tech University, Nanjing, CHINA

Co-authors: Zhong ZHAOXIANG ⁽¹⁾

Affiliations: 1 : Nanjing Tech University, Nanjing, CHINA

15:00 O-019 Precoating Humidity in Filtration Cycles Performance

Bruno LIMA, Federal University of São Carlos, São Carlos, BRAZIL

Co-authors: Bárbara ANDRADE ^(1,2); Bruno CASTRO ^(1,2); Rafael SARTIM ^(2,3); Mônica AGUIAR ⁽¹⁾

Affiliations: 1 : Federal University of São Carlos, São Carlos, BRAZIL ; 2 : Global R&D Brazil, Vitória, BRAZIL ; 3 : Federal University of Espírito Santo, Vitória, BRAZIL

15:20 O-020 Analysis of the influence of the sewing thread on the performance of filter bags

Bruno LIMA, Federal University of São Carlos (UFSCar), São Carlos, BRAZIL

Co-authors: Rodrigo CARDOSO ⁽¹⁾; Bruno CASTRO ⁽²⁾; Barbara ANDRADE ⁽²⁾; Rafael SARTIM ^(2,3); Mônica AGUIAR ⁽¹⁾

Affiliations: 1 : Federal University of São Carlos (UFSCar), São Carlos, BRAZIL ; 2 : ArcelorMittal Tubarão, Serra, BRAZIL ; 3 : Federal University of Espírito Santo (UFES), Vitória, BRAZIL

15:40 O-020bis Perks and Challenges of Evaluating Air Purifiers in Realistic Environments: Insights from Case Studies in the Eurêka Lab-House (France)

Charles-Florian PICARD (Lagord, FRANCE)

Co-Authors : Jérôme NICOLLE ^(1,2)

Affiliations : 1 : TIPEE, Lagord, FRANCE ; 2 : RUPEElab, La Rochelle, FRANCE

PROGRAM

AMPHI B

Membrane / Session

14:20 - 16:00

Fundamentals, Modelling and Simulation

14:20 O-021 Molecular insights inside the PIM-1 membrane with ethanol-water mixtures

Morshed MAHMUD, University of Rennes, Rennes

Co-authors: Anthony SZYMCZYK ⁽¹⁾; Aziz GHOUFI ⁽²⁾; Bart VAN DER BRUGGEN ⁽³⁾

Affiliations: 1 : Univ Rennes, CNRS, ISCR (Institut des Sciences Chimiques de Rennes) - UMR 6226, F-35000, Rennes, FRANCE ; 2 : Institut de Chimie et des Matériaux Paris-Est (ICMPE), Université Paris-Est Créteil, Paris, FRANCE ; 3 : Process Engineering for Sustainable Systems (ProcESS), Katholieke Universiteit Leuven, Celestijnenlaan 200f, 3001, Leuven, BELGIUM

14:40 O-022 Free energy surface landscape of interfacial polymerization for polyamide membrane formation

Xianghong QIAN, University of Arkansas, Fayetteville, UNITED STATES

Co-authors: Cannon HACKETT ⁽¹⁾; Sumith WICKRAMASINGHE ⁽¹⁾

Affiliations: 1 : University of Arkansas, Fayetteville, UNITED STATES

15:00 O-023 Spacer orientation in reverse osmosis: A trade-off between pressure drop and filtration rate

Fynn Jerome ASCHMONEIT, Aalborg University, Copenhagen, DENMARK

15:20 O-024 Development of a numerical model of pervaporation for membrane crystallization or solvent dehydration

Mamadou Lamine NIANE, Laboratoire de Mécanique Modélisations et Procédés Propres (M2P2), Aix En Provence

Co-authors: Fatimatou toure LO ⁽¹⁾; Mathias MONNOT ⁽¹⁾; Emilie CARRETIER ⁽¹⁾; Philippe MOULIN ⁽¹⁾

Affiliations: 1 : Aix Marseille Univ, CNRS, Centrale Med, M2P2 UMR 7340, EPM, Aix en Provence, FRANCE

15:40 O-025 Modeling and simulation of separation processes in hollow fiber modules

Sebastian OSTERROTH, Fraunhofer institute for industrial mathematics, Kaiserslautern, GERMANY

Co-authors: Ralf KIRSCH ⁽¹⁾

Affiliations: 1 : Fraunhofer Institute for Industrial Mathematics, Kaiserslautern, GERMANY



AMPHI C

Membrane / Session

14:20 - 16:00

Membrane fouling / regeneration

- 14:20** O-026 Membranes for natural gas upgrading – A modelling approach using MEMSIC simulation tool for innovative membranes benchmarking
Eric FAVRE, MEMSIC, Nancy
Co-authors: Alejandro ORSIKOWSKY ⁽¹⁾; Kelvinraj NURSIH ^(1,2); Roda BOUNACEUR ⁽²⁾
Affiliations: 1 : TotalEnergies, Lacq, FRANCE ; 2 : MEMSIC, Nancy, FRANCE
- 14:40** O-027 Effective membrane cleaning technique using CO2 nucleated bubbles
Noreddine GHAFFOR, KAUST, Jeddah, KSA, SAUDI ARABIA
Co-authors: Alla ALPATOVA ⁽¹⁾
Affiliations: 1 : KAUST, Jeddah, KSA, SAUDI ARABIA
- 15:00** O-028 Control of clogging in microfluidic filtration chip using low frequency ultrasound
Julie JAMBERT, Institut de Mécanique des fluides de Toulouse, Toulouse
Co-authors: Olivier LIOT ⁽¹⁾; Xavier JACOB ⁽¹⁾; nicolas HENGL ⁽¹⁾
Affiliations: 1 : Institut de Mécanique des fluides de Toulouse, Toulouse, FRANCE ; 2 : Institut de Mécanique des fluides de Toulouse, Toulouse, FRANCE ; 3 : Institut de Mécanique des fluides de Toulouse, toulouse, FRANCE ; 4 : Institut de Mécanique des fluides de Toulouse, Toulouse, FRANCE
- 15:20** O-029 Enhanced quorum quenching membranes: Optimizing polymer coatings for improved antifouling performance in membrane bioreactors
Jinwoo KIM, Kyungpook National University, Daegu, REPUBLIC OF KOREA
Co-authors: Hyeona PARK ⁽¹⁾; Kwang-Ho CHOO ⁽¹⁾
Affiliations: 1 : Kyungpook National University, Daegu, REPUBLIC OF KOREA
- 15:40** O-030 Accumulation of biological particles on a model filter : kinetics of growth and morphological analysis
Kevin DEMONT, Toulouse Biotechnology Institute (INSA Toulouse), Toulouse
Co-authors: Pierre JOSEPH ⁽²⁾; Hélène MARTIN ⁽¹⁾; Philippe SCHMITZ ⁽¹⁾; Mickaël CASTELAIN ⁽¹⁾
Affiliations: 1 : Toulouse Biotechnology Institute (INSA Toulouse), Toulouse, FRANCE ; 2 : Laboratoire d'Analyse et d'Architecture des Systèmes (LAAS), Toulouse, FRANCE

PROGRAM

ROOM E

Sustainable development / Session

14:20 - 16:00

Biorefinery

14:20 O-031 Recovery of proteins from microalgae extracts using biocatalytic membranes

Estelle COUALLIER, CNRS, Saint-Nazaire

Co-authors: Alexia POIDEVIN ⁽¹⁾; Tim SCHREIBER ⁽²⁾; Martin SCHMIDT ⁽²⁾; Konrad LEOPOLD ⁽²⁾; Pascale GILLON ⁽¹⁾; Alain RIAUBLANC ⁽³⁾; Agnes SCHULZE ⁽²⁾

Affiliations: 1 : CNRS- Nantes University - GEPEA, Saint-Nazaire, FRANCE ; 2 : IOM (Leibniz Institute of Surface Engineering), Leipzig, GERMANY ; 3 : INRAE BIA, Nantes, FRANCE

14:40 O-032 A sustainable combination of pre-treatment and filtration mode to upgrade mango pulp by microfiltration

Camille DEMOULIN, CIRAD, UMR QualiSud, Saint-Pierre, REUNION

Co-authors: Manon SERVAL ⁽¹⁾; Julien RICCI ⁽¹⁾; Cyrielle GARCIA ⁽²⁾; Doralice VEILLANT ⁽³⁾; Ilay DAHDOUH ⁽¹⁾

Affiliations: 1 : CIRAD, UMR QualiSud, Saint-Pierre, Réunion, FRANCE ; 2 : Université de la Réunion, ESIRI, Saint-Pierre, Réunion, FRANCE ; 3 : CIRAD, UPR Hortsys, Saint-Pierre, Réunion, FRANCE

15:00 O-034 New developments of eco-extraction coupling microwaves and high speed centrifugation based on vegetal cells properties

Louis LECLERCQ, IFTS, Foulayronnes

Co-authors: Pascal GINISTY ⁽¹⁾; Marc VALAT ⁽²⁾; Giuseppe SCIUME ⁽²⁾; Pierre PETRIACQ ⁽³⁾; Michel HERNOULD ⁽³⁾

Affiliations: 1 : IFTS, FOULAYRONNES, FRANCE ; 2 : I2M (UMR 5295), Université de Bordeaux , TALENCE, FRANCE ; 3 : INRAE (UMR 1332), Université de Bordeaux , VILLENAVE D'ORNON, FRANCE

15:20 O-035 Production of plant-based feed and food proteins by membrane and dead-end filtration

Anders Kjær JØRGENSEN, Aalborg University, Aalborg, DENMARK

Co-authors: Tuve MATTSSON ⁽¹⁾; Simon GREGERSEN ECHERS ⁽¹⁾; Sandie NIELSEN ⁽¹⁾; Annsofie NIELSEN ⁽¹⁾; Valdemar SKRIVER MELGAARD ⁽¹⁾; Anna HOLST PEDERSEN ⁽¹⁾; Peter STEPHENSEN LÜBECK ⁽¹⁾; Mette LÜBECK ⁽¹⁾; Mads Koustrup JØRGENSEN ⁽¹⁾

Affiliations: 1 : Aalborg University, Aalborg, DENMARK

ESPACE PLURIEL

16:00 - 16:30

Coffee break - Visit the exhibition and the poster area

ROOM F

Liquid filtration / Session

16:30 - 17:30

Fundamentals, Modelling and Simulation 2

16:30 O-036 Insights into imperfections - considerations on the assessment of non-ideal filter cakes

Bernhard HOFFNER, Technical University of Applied Sciences Mannheim, Mannheim, GERMANY

Co-authors: Florian SAUER ⁽¹⁾; Hendrik-Simon HENN ⁽¹⁾

Affiliations: 1 : Mannheim University of Applied Science, Mannheim, GERMANY

16:50 O-037 An effective digital approach to improve pleated filter performance

Christopher KÜHNLE, Math2Market GmbH, Kaiserslautern, GERMANY

Co-authors: Philipp EICHHEIMER ⁽¹⁾; Liping CHENG ⁽¹⁾; Andreas WIEGMANN ⁽¹⁾

Affiliations: 1 : Math2Market GmbH, Kaiserslautern, GERMANY



AMPHI H

Liquid filtration / Session

16:30 - 17:30

Filter Elements and Media 2

- 16:30** O-039 Data-Driven Modeling of Fluid Flow Through Porous Metal Wire Meshes
Melanie FUHRMANN, Karlsruher Institute of Technology, Karlsruhe, GERMANY
Co-authors: Sebastian REHM ⁽²⁾; Martin MÜLLER ⁽²⁾; Hermann NIRSCHL ⁽¹⁾; Marco GLEIB ⁽¹⁾
Affiliations: 1 : Karlsruher Institute of Technology, Karlsruhe, GERMANY ; 2 : Spörl KG, Sigmaringendorf, GERMANY
- 16:50** O-040 Ultrasonic self-cleaning of wire mesh filter elements in filtration of iron oxides
Elsi STRAND, Sofi Filtration Ltd, Espoo, FINLAND
Co-authors: Riina SALMIMIES ⁽¹⁾
Affiliations: 1 : Sofi Filtration Ltd, Espoo, FINLAND
- 17:10** O-041 ProTex- energy saving filter media
Mansi GARG, Intensiv Filter Himenviro Technologies Gmbh, Velbert, GERMANY
Co-authors: Manoj GARG ⁽¹⁾; Svasti MALIK ⁽¹⁾
Affiliations: 1 : Intensiv Filter Himenviro Technologies Gmbh, Velbert, GERMANY

AMPHI A

Gas filtration / Session

16:30 - 17:30

New media for gas filtration

- 16:30** **Keynote lecture** - Reimagining Filtration: Reticulated & Activated Carbon Impregnated PU Foams for Modern Filtration Challenges
Santosh CHAVAN, The Vita Group, CRANCEY
Co-authors: Hans Juergen STOLZ ⁽²⁾; Paul MAYALL ⁽¹⁾; Thomas JONCHERAY ⁽²⁾
Affiliations: 1 : The Vita Group, Manchester, UNITED KINGDOM ; 2 : Vita - Caligen Europe BV , Breda, NETHERLANDS
- 17:10** O-042 Purenat, the new media that reinvents photocatalysis
Natacha KINADJIAN CAPLAT, Purenat, Bayonne
Co-authors: Camille TEIXEIRA ⁽¹⁾
Affiliations: 1 : Purenat, Bayonne, FRANCE

ROOM D

Gas filtration / Session

16:30 - 17:30

Industrial gas cleaning

- 16:30** O-043 One dimensionless number to rule all dimensionless characteristics of a cyclone performance
Dzmitry MISIULIA, University of Kaiserslautern-Landau (RPTU), Kaiserslautern, GERMANY
Co-authors: Sergiy ANTONYUK ⁽¹⁾
Affiliations: 1 : Institute of Particle Process Engineering, University of Kaiserslautern-Landau (RPTU), Kaiserslautern, GERMANY
- 16:50** O-044 Study on the influence of flow rate on gas flow distribution in an electric field manipulator: Experimental research
Stanislovas ZDANEVICIUS, Vilniustech, Vilnius, LITHUANIA
Co-authors: Aleksandras CHLEBNIKOVAS ⁽¹⁾
Affiliations: 1 : Vilniustech, Vilnius, LITHUANIA
- 17:10** O-045 Experimental study of adsorption behavior of CH₃I over microchannel reactors
Qing HE, Tianjin University, Tianjin, CHINA
Co-authors: Wei TAN ⁽¹⁾; Guorui ZHU ⁽¹⁾; Yuntian FANG ⁽¹⁾
Affiliations: 1 : Tianjin University, Tianjin, CHINA

PROGRAM

AMPHI B

Membrane / Session

16:30 - 17:30

Membrane technology / applications

- 16:30** O-046 Optimizing Membrane Elements for Enhanced Efficiency in Industrial Resource Recovery
Christine KLEFFNER, Bochum University of Applied Sciences, Bochum, GERMANY
Co-authors: Gerd BRAUN ⁽¹⁾; Sergiy ANTONYUK ⁽²⁾
Affiliations: 1 : TH Köln - University of Applied Sciences, Cologne, GERMANY ; 2 : RPTU University Kaiserslautern-Landau, Kaiserslautern, GERMANY
- 16:50** O-047 Stimuli-responsive polymer enhanced membrane filtration for separation of lithium from lithium-ion battery leachate
Ariella LIBERATI, Institut Européen des Membranes, Univ. Montpellier, CNRS, ENSCM, Montpellier
Co-authors: Jean-Pierre MERICQ ⁽¹⁾; Bénédicte PRÉLOT ⁽²⁾; Sophie MONGE ⁽²⁾; Catherine FAUR ⁽¹⁾
Affiliations: 1 : Institut Européen des Membranes, Univ. Montpellier, CNRS, ENSCM, Montpellier, FRANCE ; 2 : Institut Charles Gerhardt Montpellier, Univ. Montpellier, CNRS, ENSCM, Montpellier, FRANCE
- 17:10** O-048 Novel and Highly Selective Membranes Based on 2 & 3D Porous Nanomaterials
Jean-Christophe P. GABRIEL, CEA, Gif-Sur-Yvette Cedex
Co-authors: Sarah M. CHEVRIER ⁽¹⁾; Bo HAN ⁽²⁾; Thibault ROSIER ⁽¹⁾; Fabien OLIVIER ⁽¹⁾; Lina CHERNI ⁽¹⁾; Kunli GOH ⁽³⁾; Chuah Chong YANG ⁽³⁾; Guillaume ZANTE ⁽¹⁾; Alex Yan QINGYU ⁽²⁾
Affiliations: 1 : Université Paris-Saclay, Commissariat à l'Energie Atomique et aux Energies Alternatives, NIMBE, LICSEN, Gif-sur-Yvette Cedex, FRANCE ; 2 : Singapore CEA Alliance for Research in Circular Economy, Energy Research Institute @ NTU, Nanyang Technological University, Singapore, SINGAPORE ; 3 : Singapore Membrane Technology Centre, Nanyang Environment and Water Research Institute, Nanyang Technological University, Singapore, SINGAPORE

AMPHI C

Membrane / Session

16:30 - 17:30

NF

- 16:30** O-049 Impact of physico-chemical interactions in organic solvent nanofiltration of hydroformylation complex media separation by a PDMS membrane
Dawry-Javier CAPELLAN BATISTA, Univ Rennes, CNRS, ISCR (Institut des Sciences Chimiques de Rennes) – UMR 6226, Rennes
Co-authors: Thierry RENOUEAU ⁽¹⁾; Dihia CHABNI ⁽¹⁾; Murielle RABILLER-BAUDRY ⁽¹⁾
Affiliations: 1 : Univ Rennes, CNRS, ISCR (Institut des Sciences Chimiques de Rennes) – UMR 6226, Rennes, FRANCE

ROOM E

Sustainable development / Session

16:30 - 17:30

Waste water treatment

- 16:30** O-052 Development of an autonomous process for the selective leaching and filtration of metal ions from mining waste
Volker BÄCHLE, Karlsruhe Institute of Technology (KIT), Karlsruhe, GERMANY
Co-authors: Andreas VOIGT ⁽²⁾; Kai SUNDMACHER ⁽²⁾; Sandesh HIREMATH ⁽³⁾; Naim BAJCINCA ⁽³⁾; Marco GLEIB ⁽¹⁾
Affiliations: 1 : Karlsruhe Institute of Technology (KIT), Karlsruhe, GERMANY ; 2 : Otto von Guericke University Magdeburg (OVGU), Magdeburg, GERMANY ; 3 : University of Kaiserslautern-Landau (RPTU), Kaiserslautern, GERMANY
- 16:50** O-053 Enhancing sustainable industrial practices through reuse of metal oil filtration elements
Sam VAN LANDUYT, Bekaert, Zwevegem, BELGIUM
Co-authors: Angela ISIBOR ⁽²⁾; Aurélie GOUX ⁽¹⁾
Affiliations: 1 : Bekaert, Zwevegem, BELGIUM ; 2 : Bekaert, Atlanta, UNITED STATES



TUESDAY, 1 JULY 2025

■ Liquid filtration ■ Gas filtration ■ Membrane ■ Sustainable development

ESPACE PANORAMIQUE

17:30 - 18:15 **Poster Viewing Session**

ESPACE PLURIEL

18:30 - 19:30 **Welcome reception**


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PROGRAM

	ROOM F	ROOM H	AMPHI A	
8:00 - 18:00				
8:30 - 9:30	AMPHI A			
9:30 - 10:00				
	FUNDAMENTALS, MODELLING AND SIMULATION 3	TESTING AND CHARACTERISATION	FUNDAMENTALS IN MEDIA	
10:00 - 10:20	O-057 Marco GLEISS Advances in multiscale modeling of solid bowl centrifuges	O-061 Nicolas PETILLON New method to qualify liquid filters simulating real life conditions	O-067 Elise CABASET Are iso-permeable media necessarily iso-efficient?	
10:20 - 10:40	O-058 Marco GLEISS. Combining mechanistic and data-driven approaches into a dynamic grey box model for decanter centrifuges	O-062 Nikolai BENZ Measuring of the interference resistance of a filter medium - Is it really possible?	O-068 Augustin CHARVET Solid volume fraction heterogeneities: benefits or drawbacks on fibrous filter performance?	
10:40 - 11:00	O-059 André LIER Study of the compaction behaviour of suspended elastic-plastic particles during centrifugation	O-063 Gernot KRAMMER Exploring the transition between filter cake formation and deliquoring by inline surface position laser measurement	O-069 Nathalie BARDIN-MONNIER Effect of Submicronic and Nanometric Fibers on the Pressure Drop of Polydisperse Fiber Media	
11:00 - 11:20	O-060 Lin LIU Highly accurate prediction of mini-hydrocyclone separation efficiency by coupling BP neural network and response surface method	O-064 René PEINADOR DAVILA Advanced Fluorescence and Membrane-Based Techniques for Direct Detection and Characterization of Micro/Nanoplastics in Aquatic Environments	O-070 Ralf KIRSCH Model-based prediction of the influence of nonuniform fiber material distribution on the performance of filtering face pieces and pleated filters	
11:20 - 11:40		O-065 Andrew SCHNEIDER The effectiveness of various media types used in in-line incompressible liquid filter elements to separate solid nano particles in the range of 100nm-1µm in water, by means of laser light scattering and microscopic analysis.	O-071 Eunkyong SHIM 3D X-ray tomographic microstructure analysis of dust-clogging inside nonwoven fibrous filter media	
11:40 - 12:00		O-066 Nicolas HENGL Characterization of concentration polarization layers during cross-flow ultrafiltration of cellulose nanocrystals suspensions using micro-PIV and SAXS	O-072 Philipp EICHHEIMER Simulation of electret filter media behavior through modeling of charge distributions, dielectrophoresis, and charge decay	
12:00 - 13:30				
12:45 à 13:15	 Forum LUM GmbH: M. Sylvain GRESSIER & Prof. Dr. Dr. Dietmar LERCHE Filtration efficiency monitored by particle counting and sizing using Single Particle Light-Scattering Technology® (SPLS)			
13:30 - 14:10	KEYNOTE: Gajanan BHAT Recent Advances in Meltblown Nonwovens for Filter Media Applications: Nanofibers to Sustainable Materials	KEYNOTE: Urs PEUKER BERNHARD HOFFNER Recent findings in filter cake washing – fundamentals and application	KEYNOTE: Vincent EDERY Air quality in aircraft cabins	



WEDNESDAY, 2 JULY 2025

■ Liquid filtration ■ Gas filtration ■ Membrane ■ Sustainable development

	ROOM D	AMPHI B	AMPHI C	ROOM E
	Registration and Exhibition open			
	Plenary Lecture: Christine SUN Advanced Filter Media Technologies, Trends, and Opportunities			
	Coffee Break - Exhibition - Poster			
	EUROPEAN PROJECTS FOR AIR QUALITY AND HEALTH	MEMBRANE TECHNOLOGY / APPLICATIONS	MEMBRANE FOULING / REGENERATION	BIOREFINERY
	O-073 Katie KEDWELL IAQ and health - INQUIRE what chemical and biological determinants are relevant in homes with children under the age of five and what can we do to reduce exposure	O-077 Jueun LEE Inline spiking adaptation for enhanced virus filtration in continuous biopharmaceutical manufacturing	O-083 Kazuho NAKAMURA Response of the zeta potential to fouling status in Microfiltration and application for fouling monitoring	KEYNOTE: Frank LIPNIZKI Membrane processes in lignocellulosic biorefineries
	O-074 Martin LEHMANN IAQ and health - Monitoring in canteen, homes, schools to create knowledge for improving indoor air quality and health K-HEALTHinAIR	O-079 Gian Vincent DIZON Zwitterionic forward osmosis membranes for platelet concentration	O-084 Martin SCHMIDT Bioactive and self-cleaning polymer membranes	
	O-075 Katie KEDWELL IAQ and health - LEARN how filtration is beneficial for children in schools	O-081 Indira CHIMANLAL Could an ultra-thin dense coated membrane be an alternative to microporous membranes for membrane distillation	O-085 Soyoun KIM A novel cleaning agent specialized for organic induced fouling of ceramic membranes	O-089 Thi Thanh Nga PHAM Ultrafiltration of hydrolysable tannins from sweet chesnut wood
	KEYNOTE: Martin LEHMANN Cleaner Urban air with AeroSolfd solutions reducing brake emissions and exposure at metro stations	O-082 Mahmoud ABDULHAMID Novel hexa-fluorinated intrinsically porous polyimide membranes for the desalination of high saline water by air-gap membrane distillation	O-086 Mads Koustrup JØRGENSEN Identification and quantification of organic and inorganic fouling by in-situ thermal conductivity measurements	O-090 Fu YANG Integrated ozone-forward osmosis process for tannery wastewater treatment and reuse in agriculture
		O-082bis Dihia CHABNI Solvent delamination of UF and OSN membranes: a step in the LCA of spiral membrane aiming at assessing the environmental impact of the membrane material in separation processes.	O-087 Clémence COETSIER Surface modifications inspired by nature for biofilm control in membrane processes	O-091 Melanie MUNCH Exploring Explainable AI in Food Processing: Machine Learning Models for Skimmed Milk Microfiltration Transmission Ratio for UTP and GP Membranes
	O-076 Marie HOFF Brake particle emission reduction by brake filters - an efficient option completing the toolbox		O-088 Yasaman JALILIAN Recycling end-of-life reverse osmosis membranes into tailored nanofiltration membranes via polyelectrolyte coatings	O-092 Wenping LI A Biogenic Filter Material for Bio Refinery Applications
Lunch				
	KEYNOTE: Amlan CHAKRABORTY Generating Synthetic Training Data for Machine Learning Applications in Air Filtration Systems	KEYNOTE: Su-En WU Improvement in the Filtration Performance of Shear-Enhanced Dynamic Microfiltration by Structure Design	KEYNOTE: Kasper HEDEGAARD Removal of PFAS using commercial polymeric microfiltration membranes coated with amphiphilic cyclodextrins	KEYNOTE: Peter CARTWRIGHT The Challenges of Ongoing Contamination of Drinking Water Supplies - What Can Be Done About It?



PROGRAM

	ROOM F	ROOM H	AMPHI A	
	COAGULATION / FLOCCULATION	TESTING AND CHARACTERISATION 2	AEROSOL FILTRATION	
14:20 - 14:40	O-093 Morten Lykkegaard CHRISTENSEN Recovery of phosphorus from lake sediment	O-098 Dominik HERPER Water Permeability Testing for Porous Materials	O-103 Gunnar DWARS Modeling particle deposition in turbulent curved channel flow with structured surfaces	
14:40 - 15:00	O-094 Anthony STICKLAND Suspension pelletisation and drainage using robust flocs	O-099 William HICKS Introducing FilVia: A Vision Analysis tool to automate the assessment of a filter cake resistance	O-104 Feng CHEN Influence of vibration on gas-solid filtration performance of filters	
15:00 - 15:20	O-095 Pascal GINISTY. Degradation of Cationic Polyacrylamide-Based Flocculants (CPAM) Upon Contact with Metallic Surfaces: Impacts on Flocculation, Thickening, and Dewatering Applications	O-100 Bernd FRAENKLE Enhancing performance of filter presses with a filter plate-integrated sensor	O-105 Chih-Chieh CHEN Experimental study on optimal CADR filter thickness of indoor air purifier	
15:20 - 15:40	O-097 A S M MOHIUDDIN Dissolved organic carbon impacting the performance of contact filtration water treatment (pre-recorded presentation)	O-101 Andrzej KRASINSKI Reducing of biofouling rate of polymer media during filtration of water contaminated with bacteria by coating with photoactive TiO2-metal layers	O-106 Hui LI Fabrication and performance of novel environmentally-friendly micro-nano fibrous filter media	
15:40 - 16:00	O-130 Laila HAMRAOUI Enhanced Dewatering of Mine Tailings: From Flocculation-Thickening to Filtration and Electrofiltration		O-107 Wallace LEUNG Enhanced nanoaerosol loading performance of multilayer PVDF nanofiber electret filters	
16:00 - 16:30				
	ALTERNATIVE AND INNOVATIVE SEPARATION	FLOTTATION AND COMBINED PROCESSES	NEW MEASUREMENT METHODS	
16:30 - 16:50	O-128 Fuki KOIKE Study on the settling acceleration phenomenon due to density current and particle aggregation by applying horizontal DC electric field to fine particle slurry	O-131 Rémy CABALL Innovation in sewer reverse osmosis pre-treatment: Seadaf Filter as combined flotation and filtration at high velocity	O-134 Delphine DESHAYES Improving the quantification of microorganisms collected onto HVAC fibrous filters	
16:50 - 17:10	O-129 Simon PAAS Multidimensional process for wet classification of fine particles in a crossflow with superimposed electrical field	O-132 Rémy CABALL Seawater reverse osmosis pre-treatment Combination at Low Environmental Footprint	O-135 Vanessa LÖSCHNER A method to determine the pressure drop of dust cakes on surface filters under low pressure conditions	
17:10 - 17:30	O-32bis Houcine MHEMDI Optimizing Mustard Glucosinolate Purification Using Dead-End Ultrafiltration: Membrane Fouling and Juice Quality (pre-recorded presentation)	O-133 Celine LEVECO Valèdeau Drinking Water Treatment Plant (France), a flexible solution for territory security	O-136 Ralf HEIDENREICH Advances in welding fume separation by using a new measurement method	
	POSTER SESSION LIQUID FILTRATION	POSTER SESSION LIQUID FILTRATION	POSTER SESSION GAS FILTRATION	
17:30 - 17:40	P-01 Etienne FROGER Produce drinking water wherever you need it with the ANDRITZ mobile filtration unit (AMFU)	P-05 Lin LIU Influences and Characteristics of Back-washing for Double-layer Filter Materials in Filtration Treatment of Polymer Flooding Produced Water	P-02 Mônica AGUIAR Enhancing Automotive Cabin Air Filtration Efficiency Using Short Cellulose Acetate Nanofibers	
17:40 - 17:50	P-43 Michal STOR Removal of active pharmaceuticals ingredients from water using modified halloysite particles	P-08 Cuilong CHEN Analysis on the development and Standardization System Construction of Separation Machinery Industry in the Context of Dual Carbon Goals	P-12 Mônica AGUIAR Evaluation of the efficiency of bag filters with different filter media	
17:50 - 18:00			P-13 Mônica AGUIAR Production of triple-layer filter media from recycled polyethylene terephthalate (rPET) and polystyrene (rPS) using the electrospinning technique: Evaluation of air nanoparticle filtration and permeability	
18:00 - 18:10				
18:15 - 19:15	ROOM G			



WEDNESDAY, 2 JULY 2025

■ Liquid filtration ■ Gas filtration ■ Membrane ■ Sustainable development

	ROOM D	AMPHI B	AMPHI C	ROOM E
	FUNDAMENTALS	MF AND UF	MEMBRANE TECHNOLOGY / APPLICATIONS	WATER TREATMENT
	O-108 Sergiy ANTONYUK Influence of moisture on electret filters: a DNS study	O-113 Marie ARNOULD Extraction of Nanoplastics from Water and Size-based Separation using a novel Membrane Filtration System	O-118 Daniel BELL Oil-Water Separation in industrial process water streams using BOLL ceramic membrane filtration	O-124 Jihane MOUMOUH Effect of brackish water salinity on productivity of prototype based on humidification-dehumidification of air
	O-109 Soleiman BOURROUS A phenomenological model to predict the porosity of nanometric particles deposit formed by air filtration	O-115 Fatemeh HAMIDAVI The Impact of Fiber Length and Concentration on Ultrafiltration Membrane Performance: Insights from Microplastic Fiber Filtration Experiment	O-119 Eman HUSSEIN ZIF-67/Bacterial cellulose membranes for dye removal and oil/water separation	O-125 Gina Paola ALFONSO SARMIENTO Optimization of an integrated hollow-fiber solar-powered VMD system for autonomous desalination
	O-110 Wallace LEUNG New experimental results on pressure drop of a nanofiber filter		O-120 Asif SAUD Influence of Process Conditions and Different Ion(s) on Magnesium Sulfate Crystallization in Membrane Distillation Crystallization	O-126 Frank ROEGENER Drinking water production from unconventional sources
	O-111 Qian ZHANG Case study on the clogging phase of filter media during dust separation using a multi-layer model with offset for dust cake growth		O-121 Antoine VENAULT Development of effective photocatalytic membrane reactors for the total removal/ degradation of tetracycline from water	O-127 Abdoulaye DOUCOURE Autonomous drinking water systems with energy storage
	O-112 Christopher MULLER Gas-Phase Media Properties: What's Important and Why		O-122 Rodrigo CÂNDIDO Production of low-alcohol content wine by pervaporation	
Coffee Break - Exhibition - Poster				
	AIR GAZ TREATMENT	NF	MEMBRANE FORMATION / STRUCTURE	WATER TREATMENT
	O-138 Mônica AGUIAR Fabrication of Biocidal Electrospun PAN Filters Modified with CPC Surfactant and ZnO Nanoparticles for Efficient Filtration	O-140 Utpalkumar THUMMAR Recovery of homogeneous active catalysts in organic solvent nanofiltration: in-depth study of the benefits of using stable model complexes different from the pre-catalysts	O-143 Mihail BARBOIU Artificial Water Channels- toward Biomimetic Membranes for Desalination	O-146 Seonki LEE Effect of Hydraulic Head Changes on the Performance of Gravity-Driven Membrane Systems
	O-139 Wallace LEUNG Breakdown of harmful Nox and VOC by photo-oxidation using titania nanofiber photocatalyst	O-141 Jian TAN Nanofiltration using Polysulfone Membranes	O-144 Sébastien RIGOURD Development of innovative hollow fibers and carbon hollow fibers	O-147 Indira CHIMANLAL Experimental investigation of the effects of solar heating on the performances of an integrated solar-powered hollow fiber VMD module at semi-industrial scale
	O-139bis Mohammad Mehdi SHIRMOHAMMADI Nonwoven Coating Using Zeolite-Nano Silver Powder for Gas Adsorption and Antibacterial Purposes	O-142 Ze Xian Nicholas LOW Boron-nitride Nanosheets as Membrane Building Blocks for Water Purification and Gas Separations	O-145 Maryam Khadim MBACKE Development of nanofiltration membrane from cellulose triacetate made from millet husk	O-148 Patrick WIECHERS Efficient direct mechanical recycling of Li-ion battery production residues via ultrasonic delamination and dynamic cross-flow filtration
	POSTER SESSION GAS FILTRATION	POSTER SESSION MEMBRANE	POSTER SESSION MEMBRANE	POSTER SESSION SUSTAINABLE DEVELOPMENT
	P-15 Tianle YOU Study of the particle loading behavior and dendrite growth characteristics on a single fiber	P-03 Da-Qi CAO Recycling of polymeric substances from sewage via membrane technologies	P-23 Xuelong ZHUANG Development of Antifouling gamma-Al ₂ O ₃ /alpha-Al ₂ O ₃ Nanofiltration Membranes for Enhanced Wastewater Treatment Efficiency	P-19 Soobin JANG Enhanced separation of C-phycoerythrin and allophycocyanin using a coupled filtration and precipitation methods
	P-14 Simone POZZA Application of graphene oxide on nonwoven microfibrils as a promising air purification nanocomposite for removal of particulate matter	P-38bis René PEINADOR DAVILLA FLUORMIDABLE: A Fluorescence-Based Strategy for In Situ Detection and Mapping of Micro- and Nanoplastics in Coastal and Marine Environments	P-20 Jimin KANG Hybrid modeling approach for the prediction of potential fouling in filtration based on viscosity	P-37 Pierre-Yves PONTALIER Protein concentration from microalgae using stirred-cell ultrafiltration
	P-16 Yongchun ZENG Modeling nonwoven filters and application to airflow study and pressure drop prediction			P-45 Kasper Skovbølling HEDEGAARD Modification of polypropylene filters with amphiphilic cyclodextrins by dip coating for PFAS removal
	P-16bis Yixin ZOU A 5 nm to 10 micrometre Condensation Particle Counter suitable for testing all air filter grades			
INDEFI MEETING				



PROGRAM

WELCOME AREA

08:00 - 18:15 **Welcome attendees**

AMPHI A

08:30 - 09:30 **Plenary session**

Advanced Filter Media Technologies, Trends, and Opportunities
Christine SUN, World Filtration Institute, Clarksville, UNITED STATES

ESPACE PLURIEL

09:30 - 10:00 **Coffee break - Visit the exhibition and the poster area**

ROOM F

Liquid filtration / Session

10:00 - 12:00 **Fundamentals, Modelling and Simulation 3**

10:00 O-057 Advances in multiscale modeling of solid bowl centrifuges
Marco GLEISS, Institute of Mechanical Process Engineering and Mechanics - Karlsruhe Institute of Technology (KIT), Karlsruhe, GERMANY

10:20 O-058 Combining mechanistic and data-driven approaches into a dynamic grey box model for decanter centrifuges
Marco GLEISS, Institute of Mechanical Process Engineering and Mechanics - Karlsruhe Institute of Technology (KIT), Karlsruhe, GERMANY
Co-authors: Ouwen ZHAI ⁽¹⁾ ; Hermann NIRSCHL ⁽¹⁾
Affiliations: 1 : Karlsruhe Institute of Technology, Karlsruhe, GERMANY

10:40 O-059 Study of the compaction behaviour of suspended elastic-plastic particles during centrifugation
André LIER, University of Kaiserslautern-Landau (RPTU), Kaiserslautern, GERMANY
Co-authors: Fabian KRULL ⁽¹⁾ ; Sergiy ANTONYUK ⁽¹⁾
Affiliations: 1 : Institute of Particle Process Engineering, University of Kaiserslautern-Landau (RPTU), Kaiserslautern, GERMANY

11:00 O-060 Highly accurate prediction of mini-hydrocyclone separation efficiency by coupling BP neural network and response surface method
Lin LIU, Northeast Petroleum University, Daqing, CHINA
Co-authors: Yahong WANG ^(1,2) ; Lixin ZHAO ^(1,2,3) ; Zhewei LIU ^(1,2)
Affiliations: 1 : School of Mechanical Science and Engineering, Northeast Petroleum University, Daqing, CHINA ; 2 : Heilongjiang Key Laboratory of Petroleum and Petrochemical Multiphase Treatment and Pollution Prevention, Daqing, CHINA ; 3 : State Key Laboratory of Continental Shale Oil, Daqing, CHINA



ROOM H

Liquid filtration / Session

10:00 - 12:00

Testing and Characterisation

- 10:00** O-061 New method to qualify liquid filters simulating real life conditions
Nicolas PETILLON, IFTS, Foulayronnes
Co-authors: Lionel GERARD ⁽²⁾
Affiliations: 1 : IFTS, FOULAYRONNES, FRANCE ; 2 : FRANCEVIBRATION TECHNOLOGIES SAS, BARBERAZ, FRANCE
- 10:20** O-062 Measuring of the interference resistance of a filter medium – Is it really possible?
Nikolai BENZ, University of Kaiserslautern-Landau, Kaiserslautern, GERMANY
Co-authors: Fabian KRULL ⁽¹⁾ ; Sergiy ANTONYUK ⁽¹⁾
Affiliations: 1 : University of Kaiserslautern-Landau, Kaiserslautern, GERMANY
- 10:40** O-063 Exploring the transition between filter cake formation and deliquoring by inline surface position laser measurement
Gernot KRAMMER, Graz University of Technology, Graz, AUSTRIA
Co-authors: Elias NEUHOLD ⁽¹⁾
Affiliations: 1 : Graz University of Technology, Graz, AUSTRIA
- 11:00** O-064 Advanced Fluorescence and Membrane-Based Techniques for Direct Detection and Characterization of Micro/Nanoplastics in Aquatic Environments
René PEINADOR DAVILA, Institut de la Filtration et des techniques séparatives (IFTS), Foulayronnes
- 11:20** O-065 The effectiveness of various media types used in in-line incompressible liquid filter elements to separate solid nano particles in the range of 100nm-1µm in water, by means of laser light scattering and microscopic analysis.
Andrew SCHNEIDER, Ascent Filtration Testing, LLC, Livonia, UNITED STATES
- 11:40** O-066 Characterization of concentration polarization layers during cross-flow ultrafiltration of cellulose nanocrystals suspensions using micro-PIV and SAXS
Nicolas HENGL, Laboratoire rhéologie et procédés, Grenoble
Co-authors: Mathilde CHALLAMEL ⁽¹⁾ ; Candice REY ⁽¹⁾ ; Stéphane BAUP ⁽¹⁾ ; Alain DUFRESNE ⁽³⁾ ; Henda DJERIDI ⁽²⁾ ; Frédéric PIGNON ⁽¹⁾
Affiliations: 1 : Laboratoire rhéologie et procédés, Grenoble, FRANCE ; 2 : Laboratoire des écoulements géophysiques et industriels, Grenoble, FRANCE ; 3 : Laboratoire de génie des procédés papetiers, grenoble, FRANCE

PROGRAM

AMPHI A

Gas filtration / Session

10:00 - 12:00

Fundamentals in media

- 10:00** O-067 Are iso-permeable media necessarily iso-efficient?
Elise CABASET, Université de Lorraine, Nancy
Co-authors: Nathalie BARDIN-MONNIER ⁽¹⁾; Augustin CHARVET ⁽¹⁾; Dominique THOMAS ⁽¹⁾
Affiliations: 1 : LRGP, Université de Lorraine, CNRS, Nancy, FRANCE
- 10:20** O-068 Solid volume fraction heterogeneities: benefits or drawbacks on fibrous filter performance?
Augustin CHARVET, Laboratoire Réactions et Génie des Procédés, Nancy
Co-authors: Nathalie BARDIN-MONNIER ⁽¹⁾; Dominique THOMAS ⁽¹⁾
Affiliations: 1 : Laboratoire Réactions et Génie des Procédés, Nancy, FRANCE
- 10:40** O-069 Effect of Submicronic and Nanometric Fibers on the Pressure Drop of Polydisperse Fiber Media
Nathalie BARDIN-MONNIER, CNRS, Nancy
Co-authors: Augustin CHARVET ⁽¹⁾; Dominique THOMAS ⁽¹⁾
Affiliations: 1 : CNRS, LRGP Université de Lorraine, Nancy, FRANCE
- 11:00** O-070 Model-based prediction of the influence of nonuniform fiber material distribution on the performance of filtering face pieces and pleated filters
Ralf KIRSCH, Fraunhofer Institute for Industrial Mathematics ITWM, Kaiserslautern, GERMANY
Co-authors: Christian MERCIER ⁽¹⁾; Dietmar HIETEL ⁽¹⁾; Schmeißer ANDRE ⁽¹⁾; Erik DAHRMANN ⁽²⁾; Maximiliano TAGLIANI ⁽²⁾
Affiliations: 1 : Fraunhofer Institute for Industrial Mathematics ITWM, Kaiserslautern, GERMANY ; 2 : IMSTec GmbH, Klein-Winternheim, GERMANY
- 11:20** O-071 3D X-ray tomographic microstructure analysis of dust-clogging inside nonwoven fibrous filter media
Eunkyoung SHIM, North Carolina State University, Raleigh, UNITED STATES
Co-authors: Yu SONG ⁽¹⁾
Affiliations: 1 : North Carolina State University, Raleigh, UNITED STATES
- 11:40** O-072 Simulation of electret filter media behavior through modeling of charge distributions, dielectrophoresis, and charge decay
Philipp EICHHEIMER, Math2Market GmbH, Kaiserslautern, GERMANY
Co-authors: Liping CHENG ⁽¹⁾; Andreas WEBER ⁽¹⁾; Jürgen BECKER ⁽¹⁾; Dominik MICHEL ⁽¹⁾; Stefan SCHUMACHER ⁽²⁾; Till VAN DER ZWAAG ⁽²⁾; Thomas ENGELKE ⁽²⁾; Andreas WIEGMANN ⁽¹⁾
Affiliations: 1 : Math2Market GmbH, Kaiserslautern, GERMANY ; 2 : Institut für Umwelt & Energie, Technik & Analytik e. V. (IUTA), Duisburg, GERMANY



ROOM D

Gas filtration / Session

10:00 - 12:00

European projects for Air Quality and health

- 10:00** O-073 IAQ and health – INQUIRE what chemical and biological determinants are relevant in homes with children under the age of five and what can we do to reduce exposure
Katie KEDWELL, MANN+HUMMEL GmbH, Ludwigsburg, GERMANY
Co-authors: Lisa MELYMUK ⁽²⁾; Pim LEONARDS ⁽³⁾; Emma VINCENT ⁽⁴⁾; Chiara GIORIO ⁽⁵⁾; Linda SCHENK ⁽⁴⁾; Sylvie REMY ⁽⁶⁾; Pawel ROSTKOWSKI ⁽⁷⁾; Martin LEHMANN ⁽¹⁾; Pernilla BOHLIN NIZZETTO ⁽⁷⁾
Affiliations: 1 : MANN+HUMMEL GmbH, Ludwigsburg, GERMANY ; 2 : Marsarykova Univerzita, Brno, CZECH REPUBLIC ; 3 : Stichting VU, Amsterdam, NETHERLANDS ; 4 : Karolinska Institutet, Solna, SWEDEN ; 5 : The Chancellor Masters and Scholars of the University of Cambridge, Cambridge, UNITED KINGDOM ; 6 : VITO, Mol, BELGIUM ; 7 : NILU, Kjeller, NORWAY
- 10:20** O-074 IAQ and health – Monitoring in canteen, homes, schools to create knowledge for improving indoor air quality and health K-HEALTHinAIR
Martin LEHMANN, MANN+HUMMEL GmbH, Ludwigsburg, GERMANY
Co-authors: Johannes DALHEIMER ⁽¹⁾; Stella ZHANG ⁽¹⁾; Artur BADYDA ⁽²⁾; Slawomir BRZEZNICKI ⁽³⁾; Alexandra KRISTIAN ⁽⁴⁾; Moshhammer HANNIS ⁽⁴⁾; Jose FERMOSO DOMINGUES ⁽⁶⁾
Affiliations: 1 : i2m GmbH, Ludwigsburg, GERMANY ; 2 : Warsaw University of Technology, Warsaw, POLAND ; 3 : Nofer Institute of Occupational Medicine, Lodz, POLAND ; 4 : Medizinische Universität, Vienna, AUSTRIA ; 6 : CARTIF, Valladolid, SPAIN
- 10:40** O-075 IAQ and health – LEARN how filtration is beneficial for children in schools
Katie KEDWELL, MANN+HUMMEL GmbH, Ludwigsburg, GERMANY
Co-authors: Andreas SCOPE ⁽¹⁾; Wai Kei CHU ⁽²⁾; Martin LEHMANN ⁽¹⁾; Monike ROCHA ⁽³⁾; Ernesto ALFARO-MORENO ⁽³⁾
Affiliations: 1 : MANN+HUMMEL GmbH, Ludwigsburg, GERMANY ; 2 : KU Leuven, Leuven, BELGIUM ; 3 : International Iberian Nanotechnology Laboratory, Braga, PORTUGAL
- 11:00** **Keynote lecture** - Cleaner Urban air with AeroSolfd solutions reducing brake emissions and exposure at metro stations
Martin LEHMANN, MANN+HUMMEL GmbH, Ludwigsburg, GERMANY
Co-authors: Katie KEDWELL ⁽¹⁾; Teresa MORENO ⁽²⁾; Stephanos AGATHOKLEOUS ⁽²⁾; Christof ASBACH ⁽³⁾; Paul HENNING ⁽⁴⁾; Hartmut NIEMANN ⁽⁵⁾; Tome CANAS ⁽⁶⁾; Carlos CASADO SANCHEZ ⁽⁷⁾; Keld ALSTRUP JENSEN ⁽⁸⁾
Affiliations: 1 : MANN+HUMMEL GmbH, Ludwigsburg, GERMANY ; 2 : IDAEA-CSIC, Barcelona, SPAIN ; 3 : IUTA, Duisburg, GERMANY ; 4 : ZF Group, Mannheim, GERMANY ; 5 : Link Engineering Company, Limburg, GERMANY ; 6 : Metropolitano de Lisboa, Lisbon, PORTUGAL ; 7 : CARTIF, Valladolid, SPAIN ; 8 : The National Research Centre for the Working Environment, Copenhagen, DENMARK
- 11:40** O-076 Brake particle emission reduction by brake filters – an efficient option completing the toolbox
Marie HOFF, Université de Technologie de Compiègne, Compiègne
Co-authors: Martin MORGENEYER ⁽¹⁾; Cécile BEDOUEY ⁽⁵⁾; Nicolas BONNAUD ⁽⁵⁾; Christophe BRESSOT ⁽⁴⁾; Yan-Ming CHEN ⁽³⁾
Affiliations: 1 : Sorbonne Universités, Université de Technologie de Compiègne (UTC), Laboratoire Transformations Intégrées de la Matière Renouvelable (TIMR, EA 4297), Compiègne, FRANCE ; 2 : MAT Friction NOYON SAS, Noyon, FRANCE ; 3 : Centre Technique des Industries Mécaniques (CETIM), Senlis, FRANCE ; 4 : Institut national de l'environnement industriel et des risques (INERIS), Verneuil-en-Halatte, FRANCE ; 5 : Mann+Hummel Filtration France, Laval, FRANCE

PROGRAM

AMPHI B

Membrane / Session

10:00 - 12:00

Membrane technology / applications

10:00 O-077 Inline spiking adaptation for enhanced virus filtration in continuous biopharmaceutical manufacturing

Jueun LEE, Inha University, Incheon, REPUBLIC OF KOREA

Co-authors: Youngbin BAEK ⁽¹⁾

Affiliations: 1 : Inha University, Incheon, REPUBLIC OF KOREA

10:20 O-079 Zwitterionic forward osmosis membranes for platelet concentration

Gian Vincent DIZON, Chung Yuan Christian University, Taoyuan City, TAIWAN

Co-authors: Antoine VENAULT ⁽¹⁾ ; Chung-Jung CHOU ⁽¹⁾ ; Yung CHANG ⁽¹⁾

Affiliations: 1 : R&D Center for Membrane Technology and Department of Chemical Engineering, Chung Yuan Christian University, Taoyuan City, TAIWAN

10:40 O-081 Could an ultra-thin dense coated membrane be an alternative to microporous membranes for membrane distillation?

Indira CHIMANLAL, National Institute of Applied Sciences of Toulouse, Toulouse

Co-authors: Corinne CABASSUD ⁽¹⁾ ; Olivier LORAIN ⁽²⁾

Affiliations: 1 : National Institute of Applied Sciences of Toulouse, Toulouse, FRANCE ; 2 : Polymem, Toulouse, FRANCE

11:00 O-082 Novel hexa-fluorinated intrinsically porous polyimide membranes for the desalination of high saline water by air-gap membrane distillation

Mahmoud ABDULHAMID, King Fahd University of Petroleum and Minerals, Dhahran, SAUDI ARABIA

11:20 O-082bis - Solvent delamination of UF and OSN membranes: a step in the LCA of spiral membrane aiming at assessing the environmental impact of the membrane material in separation processes.

Dihia CHABNI (Rennes, FRANCE)

Co-Authors : Fatima Zohra CHARIK ⁽¹⁾ ; Murielle RABILLER-BAUDRY ⁽¹⁾

Affiliations : 1 : Univ Rennes, CNRS, ISCR (Institut des Sciences Chimiques de Rennes), UMR 6226, Rennes, FRANCE



AMPHI C

Membrane / Session

10:00 - 12:00

Membrane fouling / regeneration

- 10:00** O-083 Response of the zeta potential to fouling status in Microfiltration and application for fouling monitoring
Kazuho NAKAMURA, Yokohama National University, Yokohama, JAPAN
- 10:20** O-084 Bioactive and self-cleaning polymer membranes
Martin SCHMIDT, Palas GmbH, Karlsruhe, GERMANY
Co-authors: Tim SCHREIBER ⁽¹⁾; Andrea PRAGER ⁽¹⁾; Stefan ZAHN ⁽¹⁾; Agnes SCHULZE ⁽¹⁾
Affiliations: 1 : Leibniz Institute of Surface Engineering (IOM), Leipzig, GERMANY
- 10:40** O-085 A novel cleaning agent specialized for organic induced fouling of ceramic membranes
Soyoun KIM, Ewha Womans University, Seoul, REPUBLIC OF KOREA
Co-authors: Hyeyool KIM ⁽¹⁾; Park CHANHYUK ⁽¹⁾
Affiliations: 1 : Ewha Womans University, Seoul, REPUBLIC OF KOREA
- 11:00** O-086 Identification and quantification of organic and inorganic fouling by in-situ thermal conductivity measurements
Mads Koustrup JØRGENSEN, Aalborg University, Aalborg, DENMARK
Co-authors: Astrid Ræbild KJUL ⁽¹⁾; Maryam TAVAKOLMOGHADAM ⁽¹⁾; Morten Lykkegaard CHRISTENSEN ⁽¹⁾
Affiliations: 1 : Aalborg University, Aalborg, DENMARK
- 11:20** O-087 Surface modifications inspired by nature for biofilm control in membrane processes
Clémence COETSIER, LGC-University Toulouse 3, Toulouse
Co-authors: Abigail BURATO ROSALES ^(1,2,3); Pritam DAS ⁽¹⁾; Christel CAUSSERAND ⁽¹⁾; Cécile FORMOSA DAGUE ^(2,3)
Affiliations: 1 : Laboratoire de Génie Chimique, Université de Toulouse, CNRS, Toulouse INP, UPS, 31062 Toulouse, France, Toulouse, FRANCE ; 2 : TBI, Université de Toulouse, INSA, INRAE, CNRS, 31400 Toulouse, France, Toulouse, FRANCE ; 3 : Fédération de Recherche Fermat, CNRS, 31000 Toulouse, France, Toulouse, FRANCE
- 11:40** O-088 Recycling end-of-life reverse osmosis membranes into tailored nanofiltration membranes via polyelectrolyte coatings
Yasaman JALILIAN, LUT university, Lappeenranta, FINLAND
Co-authors: Mohammadamin ESMAILI ⁽¹⁾; Wiebe DE VOS ⁽²⁾; Mika MÄNTTÄRI ⁽¹⁾
Affiliations: 1 : LUT university, Lappeenranta, FINLAND ; 2 : Twente University, Twente, NETHERLANDS

PROGRAM

ROOM E

Sustainable development / Session

10:00 - 12:00

Biorefinery

10:00 Keynote lecture - Membrane processes in lignocellulosic biorefineries

Frank LIPNIZKI, Lund University, Lund, SWEDEN

10:40 O-089 Ultrafiltration of hydrolysable tannins from sweet chesnut wood

Thi Thanh Nga PHAM, Toulouse-INP, Toulouse

Co-authors: Brigitte DUBREUIL⁽¹⁾; Marion LABAT⁽¹⁾; Guillaume BILLERACH⁽¹⁾; Nicolas BEAUFILS⁽¹⁾; Pierre-Yves PONTALIER⁽¹⁾

Affiliations: 1 : Toulouse-INP, TOULOUSE, FRANCE

11:00 O-090 Integrated ozone-forward osmosis process for tannery wastewater treatment and reuse in agriculture

Fu YANG, Sichuan University, Chengdu, CHINA

Co-authors: Xingbao WANG⁽²⁾; Frederic PIGNON⁽³⁾; Yao JIN⁽⁴⁾

Affiliations: 1 : Sichuan University, Chengdu, CHINA ; 2 : Taiyuan University of Technology, Taiyuan, CHINA ; 3 : Univ. Grenoble Alpes, Grenoble, FRANCE ; 4 : Sichuan University, Chengdu, CHINA

11:20 O-091 Exploring Explainable AI in Food Processing: Machine Learning Models for Skimmed Milk Microfiltration Transmission Ratio for UTP and GP Membranes

Melanie MUNCH, INRAE, Rennes

Co-authors: Nadine LECONTE⁽¹⁾; Geneviève GÉSAN-GUIZIOU⁽¹⁾

Affiliations: 1 : INRAE, UMR STLO, Rennes, FRANCE

11:40 O-092 A Biogenic Filter Material for Bio Refinery Applications

Wenping LI, Agrilectric Research Company, Lake Charles, UNITED STATES

Co-authors: Chris NUNEZ⁽¹⁾

Affiliations: 1 : Agrilectric Research Company, LAKE CHARLES, UNITED STATES

ESPACE PLURIEL

12:00 - 13:30

Lunch

ROOM F

Forum Organized by LUM

12:45 - 13:15



Forum LUM GmbH - Filtration efficiency monitored by particle counting and sizing using Single Particle Light-Scattering Technology® (SPLS)

Sylvain GRESSIER, LUM GmbH France, Plaisir, Dietmar LERCHE, LUM GmbH, Berlin, GERMANY

ROOM F

Liquid filtration / Keynote session

13:30 - 14:10

Recent Advances in Meltblown Nonwovens for Filter Media Applications: Nanofibers to Sustainable Materials

Gajanan BHAT, University of Georgia, Athens, UNITED STATES

ROOM H

Liquid filtration / Keynote session

13:30 - 14:10

Recent findings in filter cake washing – fundamentals and application

Bernhard HOFFNER, Technical University of Applied Sciences Mannheim, Mannheim, GERMANY, Urs Alexander PEUKER, TU Bergakademie Freiberg, Freiberg, GERMANY



AMPHI A

Gas filtration / Keynote session

13:30 - 14:10

Air quality in aircraft cabins

Vincent EDERY, IFTS, Foulayronnes

ROOM D

Gas filtration / Keynote session

13:30 - 14:10

Generating Synthetic Training Data for Machine Learning Applications in Air Filtration Systems

Amlan CHAKRABORTY, Entegris, Billerica, UNITED STATES

AMPHI B

Membrane / Keynote session

13:30 - 14:10

Improvement in the Filtration Performance of Shear-Enhanced Dynamic Microfiltration by Structure Design

Su-En WU, Department of Chemical Engineering, Chung Yuan Christian University, Taoyuan City, TAIWAN

AMPHI C

Membrane / Keynote session

13:30 - 14:10

Removal of PFAS using commercial polymeric microfiltration membranes coated with amphiphilic cyclodextrins

Kasper Skovbølling HEDEGAARD, Aalborg University, Aalborg, DENMARK

Co-authors: Thorbjørn Terndrup NIELSEN ⁽¹⁾; Mads Koustrup JØRGENSEN ⁽¹⁾

Affiliations: 1 : Department of Chemistry and Bioscience, Aalborg University, Aalborg, DENMARK

ROOM E

Sustainable development / Keynote session

13:30 - 14:10

The Challenges of Ongoing Contamination of Drinking Water Supplies - What Can Be Done About It?

Peter CARTWRIGHT, Minneapolis, UNITED STATES

PROGRAM

ROOM F

Liquid filtration / Session

14:20 - 16:00

Coagulation/flocculation

14:20 O-093 Recovery of phosphorus from lake sediment

Morten Lykkegaard CHRISTENSEN, Aalborg University, Aalborg East, DENMARK

Co-authors: Usuma NAKNIKHAM ⁽¹⁾; Gustav SIMONI ⁽¹⁾

Affiliations: 1 : Aalborg University, Dronninglund, DENMARK

14:40 O-094 Suspension pelletisation and drainage using robust flocs

Anthony STICKLAND, The University of Melbourne, Parkville, AUSTRALIA

Co-authors: Yuxuan LUO ⁽¹⁾; Nilanka EKANAYAKE ⁽¹⁾; Peter SCALES ⁽¹⁾; Negin AMINI ⁽²⁾; Adhikari SIRJANA ⁽²⁾; Ellen MOON ⁽²⁾

Affiliations: 1 : ARC Centre of Excellence for Enabling Eco-Efficient Beneficiation of Minerals, Department of Chemical Engineering, The University of Melbourne, Parkville, AUSTRALIA ; 2 : ARC Centre of Excellence for Enabling Eco-Efficient Beneficiation of Minerals, Faculty of Science, Engineering & Built Environment, Deakin University, Waurin Ponds, AUSTRALIA

15:00 O-095 Degradation of Cationic Polyacrylamide-Based Flocculants (CPAM) Upon Contact with Metallic Surfaces: Impacts on Flocculation, Thickening, and Dewatering Applications
Pascal GINISTY, IFTS, Foulayronnes

Co-authors: Nissrine LOUKILI ⁽¹⁾; Laurent JOSSIC ⁽¹⁾; Yannick FAYOLLE ⁽²⁾; Amar NAJI ⁽⁴⁾; Nadia EL KISSI ⁽¹⁾; Albert MAGNIN ⁽¹⁾; Yahya RHARBI ⁽¹⁾

Affiliations: 1 : Univ. Grenoble Alpes, CNRS, Grenoble INP, LRP, Gières, FRANCE ; 2 : Université Paris-Saclay, INRAE, PRocédés biOtechnologiques au Service de l'Environnement, Antony, FRANCE ; 3 : IFTS - Institut de la Filtration et des Techniques Séparatives, Foulayronnes, FRANCE ; 4 : SIAAP - Direction Innovation, Paris, FRANCE

15:20 O-097 Dissolved organic carbon impacting the performance of contact filtration water treatment (pre-recorded presentation)

A S M MOHIUDDIN, University of Technology Sydney, Ultimo, AUSTRALIA

Co-authors: Saravanamuthu VIGNESWARAN ⁽¹⁾

Affiliations: 1 : University of Technology Sydney, Ultimo, AUSTRALIA

15:40 O-130 - Enhanced Dewatering of Mine Tailings: From Flocculation-Thickening to Filtration and Electrofiltration

Laila HAMRAOUI (Rabt And Benguerir, MOROCCO)

Co-Authors : Abdelmaula ABOULAICH ⁽⁴⁾; Jessica DESABRES ⁽³⁾; Nicolas BRICHEZ ⁽³⁾; Abdessamad KHALIL ^(1,2); Yassine TAHA ⁽¹⁾; Mostafa BENZAAZOUA ⁽¹⁾

Affiliations : 1 : Mohammed VI Polytechnic University, Benguerir, MOROCCO ; 2 : Resources Valorization, Environment and Sustainable Development Research Team (RVESD), Department of Mines, Mines School of Rabat, rabat, MOROCCO ; 3 : Choquenot | Filter Presses & Engineered Filtration Solution, Chauny, FRANCE ; 4 : INNOVX, Benguerir, MOROCCO



ROOM H

Liquid filtration / Session

14:20 - 16:00

Testing and Characterisation 2

- 14:20** O-098 Water Permeability Testing for Porous Materials
Dominik HERPER, GKD - Gebr. Kufferath AG, Düren, GERMANY
- 14:40** O-099 Introducing FiltVia: A Vision Analysis tool to automate the assessment of a filter cake resistance
William HICKS, AstraZeneca, Macclesfield, UNITED KINGDOM
Co-authors: Sadie FINN ⁽¹⁾
Affiliations: 1 : AstraZeneca, Macclesfield, UNITED KINGDOM
- 15:00** O-100 Enhancing performance of filter presses with a filter plate-integrated sensor
Bernd FRAENKLE, Lenser Filtration GmbH, Senden, GERMANY
Co-authors: Edith CARPENTIER-KEITZL ⁽¹⁾ ; Kai PODRATZKY ⁽¹⁾
Affiliations: 1 : Lenser Filtration GmbH, Senden, GERMANY
- 15:20** O-101 Reducing of biofouling rate of polymer media during filtration of water contaminated with bacteria by coating with photoactive TiO₂-metal layers
Andrzej KRASINSKI, Warsaw University of Technology, Faculty of Chemical and Process Engineering, Warsaw, POLAND
Co-authors: Joanna KACPRZYNSKA-GOLACKA ⁽²⁾ ; Michal STOR ⁽¹⁾ ; Jerzy SMOLIK ⁽²⁾ ; Leon GRADON ⁽¹⁾
Affiliations: 1 : Warsaw University of Technology, Warsaw, POLAND ; 2 : Lukaszewicz Research Network - Institute for Sustainable Technologies, Radom, POLAND

AMPHI A

Gas filtration / Session

14:20 - 16:00

Aerosol filtration

- 14:20** O-103 Modeling particle deposition in turbulent curved channel flow with structured surfaces
Gunnar DWARS, University of Stuttgart, Stuttgart, GERMANY
Co-authors: Max DENGLER ⁽¹⁾ ; Carsten MEHRING ⁽¹⁾
Affiliations: 1 : University Of Stuttgart, Institute Of Mechanical Process Engineering, Stuttgart, GERMANY
- 14:40** O-104 Influence of vibration on gas-solid filtration performance of filters
Feng CHEN, China University of Petroleum - Beijing, Beijing, CHINA
Co-authors: Wenhan YU ⁽¹⁾ ; Qianlin WANG ⁽²⁾ ; Zhongli JI ⁽¹⁾ ; Xiaolin WU ⁽¹⁾ ; Tianhui XIONG ⁽¹⁾
Affiliations: 1 : China University of Petroleum - Beijing, Beijing, CHINA ; 2 : Beijing University of Chemical Technology, Beijing, CHINA
- 15:00** O-105 Experimental study on optimal CADR filter thickness of indoor air purifier
Chih-Chieh CHEN, National Taiwan University, Taipei, TAIWAN
Co-authors: Yu-Mei KUO ⁽²⁾ ; Cindy LIN ⁽³⁾ ; Maxie LIN ⁽⁴⁾ ; Jason LIN ⁽⁵⁾ ; Chih-Wei LIN ⁽¹⁾ ; Sheng-Hsiu HUANG ⁽¹⁾
Affiliations: 1 : National Taiwan University, Taipei, TAIWAN ; 2 : Chung Hwa University of Medical Technology, Tainan, TAIWAN ; 3 : Taipei American School, Taipei, TAIWAN ; 4 : Johns Hopkins University, Baltimore, Maryland, UNITED STATES ; 5 : California Institute of Technology, Pasadena, California, UNITED STATES
- 15:20** O-106 Fabrication and performance of novel environmentally-friendly micro-nano fibrous filter media
Hui LI, Xinjiang Technical Institute of Physics & Chemistry, Chinese Academy of Sciences, Urumqi, CHINA
Co-authors: Ze-Xin CHEN ⁽¹⁾ ; Desalegn ATALIE ⁽¹⁾ ; Ma PENG-CHENG ⁽¹⁾
Affiliations: 1 : Xinjiang Technical Institute of Physics & Chemistry, Chinese Academy of Sciences, Urumqi, CHINA
- 15:40** O-107 Enhanced nanoaerosol loading performance of multilayer PVDF nanofiber electret filters
Wallace LEUNG, Hong Kong Polytechnic University, Duluth, UNITED STATES
Co-authors: Qiangqiang SUN ⁽¹⁾
Affiliations: 1 : Hong Kong Polytechnic University, Hong Kong, HONG KONG

PROGRAM

ROOM D

Gas filtration / Session

14:20 - 16:00

Fundamentals

- 14:20** O-108 Influence of moisture on electret filters: a DNS study
Sergiy ANTONYUK, University of Kaiserslautern-Landau (RPTU), Kaiserslautern, GERMANY
Co-authors: Daniel STOLL ⁽¹⁾
Affiliations: 1 : RPTU Kaiserslautern-Landau, Kaiserslautern, GERMANY
- 14:40** O-109 A phenomenological model to predict the porosity of nanometric particles deposit formed by air filtration
Soleiman BOURROUS, IRSN, Gif-Sur-Yvette
Co-authors: Alexandre LECOANET ⁽¹⁾
Affiliations: 1 : IRSN, Gif-sur-Yvette, FRANCE
- 15:00** O-110 New experimental results on pressure drop of a nanofiber filter
Wallace LEUNG, Hong Kong Polytechnic University, Duluth, UNITED STATES
- 15:20** O-111 Case study on the clogging phase of filter media during dust separation using a multi-layer model with offset for dust cake growth
Qian ZHANG, University of Wuppertal, Wuppertal, GERMANY
- 15:40** O-112 Gas-Phase Media Properties: What's Important and Why
Christopher MULLER, AAF International, Louisville, UNITED STATES
Co-authors: Tadesse ZEMELAK ⁽¹⁾
Affiliations: 1 : AAF International, LOUISVILLE, UNITED STATES

AMPHI B

Membrane / Session

14:20 - 16:00

MF and UF

- 14:20** O-113 Extraction of Nanoplastics from Water and Size-based Separation using a novel Membrane Filtration System
Marie ARNOULD, Laboratoire de Génie Chimique de Toulouse, Toulouse
Co-authors: Rosana QUINGONGO ⁽¹⁾ ; Magali ALBIGNAC ⁽²⁾ ; Patrice BACCHIN ⁽¹⁾ ; Alexandra TER HALLE ⁽²⁾ ; Christel CAUSSERAND ⁽¹⁾
Affiliations: 1 : Laboratoire de Génie Chimique, Université de Toulouse, CNRS, INPT, UPS, Toulouse, FRANCE ; 2 : Laboratoire Softmat, Université de Toulouse, CNRS UMR 5623, Université Toulouse III - Paul Sabatier, Toulouse, FRANCE
- 14:40** O-115 The Impact of Fiber Length and Concentration on Ultrafiltration Membrane Performance: Insights from Microplastic Fiber Filtration Experiment
Fatemeh HAMIDAVI, University of Surrey, Guildford, UNITED KINGDOM
Co-authors: Siddharth GADKARI ⁽¹⁾ ; Judy LEE ⁽¹⁾
Affiliations: 1 : University of Surrey, GUILDFORD, UNITED KINGDOM



AMPHI C

Membrane / Session

14:20 - 16:00

Membrane technology / applications

- 14:20** O-118 Oil-Water Separation in industrial process water streams using BOLL ceramic membrane filtration
Daniel BELL, Bollfilter, Kerpen, GERMANY
- 14:40** O-119 ZIF-67/Bacterial cellulose membranes for dye removal and oil/water separation
Eman HUSSEIN, University of Nottingham, Nottingham, UNITED KINGDOM
Co-authors: Konstantina KOURMENTZA ⁽¹⁾ ; Begum TOKAY ⁽¹⁾
Affiliations: 1 : University of Nottingham, Nottingham, UNITED KINGDOM
- 15:00** O-120 Influence of Process Conditions and Different Ion(s) on Magnesium Sulfate Crystallization in Membrane Distillation Crystallization
Asif SAUD, Aalborg University, Aalborg, DENMARK
Co-authors: Aamer ALI ⁽¹⁾ ; Cejna Anna Quist JENSEN ⁽¹⁾
Affiliations: 1 : Aalborg University, Aalborg, DENMARK
- 15:20** O-121 Development of effective photocatalytic membrane reactors for the total removal/ degradation of tetracycline from water
Antoine VENAULT, Chung Yuan Christian University, Taoyuan, TAIWAN
Co-authors: Irish Valerie MAGGAY ⁽¹⁾ ; Shih-Hong LIU ⁽¹⁾ ; Yung CHANG ⁽¹⁾ ; Chechia HU ⁽²⁾
Affiliations: 1 : Chung Yuan Christian University, Taoyuan, TAIWAN ; 2 : National Taiwan University of Science and Technology, Taipei, TAIWAN
- 15:40** O-122 Production of low-alcohol content wine by pervaporation
Rodrigo CÂNDIDO, Associação Fraunhofer Portugal Research, Vila Real, PORTUGAL
Co-authors: Vanessa MENDES ⁽¹⁾ ; Ana Catarina FARIA ⁽¹⁾ ; Carlos MIGUEL ⁽¹⁾
Affiliations: 1 : Fraunhofer Portugal Center for Advanced Water, Energy, and Resource Management - AWAM, Vila Real, PORTUGAL

ROOM E

Sustainable development / Session

14:20 - 16:00

Water Treatment

- 14:20** O-124 Effect of brackish water salinity on productivity of prototype based on humidification-dehumidification of air
Jihane MOUMOUH, UM6P, Ben Guerir, MOROCCO
Co-authors: MOHAMED TAHIRI ⁽²⁾
Affiliations: 1 : Mohammed VI Polytechnic University, Ben Guerir, MOROCCO ; 2 : Mohammadia School of Engineers, RABAT, MOROCCO
- 14:40** O-125 Optimization of an integrated hollow-fiber solar-powered VMD system for autonomous desalination
Gina Paola ALFONSO SARMIENTO, Toulouse Biotechnology Institute, Toulouse
Co-authors: Aras AHMADI ⁽¹⁾ ; Corinne CABASSUD ⁽¹⁾
Affiliations: 1 : Toulouse Biotechnology Institute, Toulouse, FRANCE
- 15:00** O-126 Drinking water production from unconventional sources
Frank ROEGENER, TH Köln, Cologne, GERMANY
- 15:20** O-127 Autonomous drinking water systems with energy storage
Abdoulaye DOUCOURE, African Membrane Society, Roanoke, UNITED STATES
Co-authors: Herve SUTY ⁽²⁾ ; Sebastien ESCOURROU ⁽²⁾
Affiliations: 1 : African Membrane Society, Roanoke, UNITED STATES ; 2 : TERGYS, Blanquefort, FRANCE

PROGRAM

ESPACE PLURIEL

16:00 - 16:30 **Coffee break - Visit the exhibition and the poster area**

ROOM F

Liquid filtration / Session

16:30 - 17:30 **Alternative and Innovative Separation**

16:30 O-128 Study on the settling acceleration phenomenon due to density current and particle aggregation by applying horizontal DC electric field to fine particle slurry

Fuki KOIKE, Hosei university, Koganei, JAPAN

Co-authors: Kenta KITAMURA ⁽¹⁾ ; Takamasa MORI ⁽¹⁾

Affiliations: 1 : Hosei university, Koganei, JAPAN

16:50 O-129 Multidimensional process for wet classification of fine particles in a crossflow with superimposed electrical field

Simon PAAS, University of Kaiserslautern-Landau (RPTU), Kaiserslautern, GERMANY

Co-authors: Sergiy ANTONYUK ⁽¹⁾

Affiliations: 1 : University of Kaiserslautern-Landau (RPTU), Kaiserslautern, GERMANY

17:10 O-32bis - Optimizing Mustard Glucosinolate Purification Using Dead-End Ultrafiltration: Membrane Fouling and Juice Quality (pre-recorded presentation)

Houcine MHEMDI (Compiègne, FRANCE)

Co-Authors : Mathieu HEBERT ⁽¹⁾ ; Vorobiev EUGENE ⁽¹⁾

Affiliations : 1 : ESCOM/UTC, Compiègne, Compiègne, FRANCE

ROOM H

Liquid filtration / Session

16:30 - 17:30 **Flotation and combined processes**

16:30 O-131 Innovation in sewer reverse osmosis pre-treatment: Seadaf Filter as combined flotation and filtration at high velocity

Rémy CABALL, SUEZ E&C, Paris La Défense

Co-authors: Caroline BARBÉ ⁽¹⁾ ; Delia PASTORELLI ⁽¹⁾

Affiliations: 1 : SUEZ E&C, Paris La Défense, FRANCE

16:50 O-132 Seawater reverse osmosis pre-treatment Combination at Low Environmental Footprint

Rémy CABALL, SUEZ E&C, Paris La Défense

Co-authors: Caroline BARBÉ ⁽¹⁾ ; Delia PASTORELLI ⁽¹⁾

Affiliations: 1 : SUEZ E&C, Paris La Défense, FRANCE

17:10 O-133 Valédeau Drinking Water Treatment Plant (France), a flexible solution for territory security

Celine LEVECOQ, Sure International, Courbevoie

Co-authors: Jean GANNIER ⁽²⁾ ; Juliette DEGOUL ⁽²⁾ ; David HIZ ⁽³⁾ ; Laurent GUEY ⁽¹⁾

Affiliations: 1 : Engineering & Construction - Suez International, Paris La Défense, FRANCE ; 2 :

Engineering & Construction , Villenave d'Ornon, FRANCE ; 3 : Engineering & Construction , Oswald, FRANCE



AMPHI A

Gas filtration / Session

16:30 - 17:30

New measurement methods

- 16:30** O-134 Improving the quantification of microorganisms collected onto HVAC fibrous filters
Delphine DESHAYES, Institut Mines Télécom Atlantique, Nantes, Loire-Atlantique, France

Co-authors: Yves ANDRÈS ⁽¹⁾; Pierre LE CANN ⁽²⁾; Aurélie JOUBERT ⁽¹⁾

Affiliations: 1 : Institut Mines Télécom Atlantique, Nantes, FRANCE ; 2 : Ecole des Hautes Etudes en Santé Publique, Rennes, FRANCE

- 16:50** O-135 A method to determine the pressure drop of dust cakes on surface filters under low pressure conditions

Vanessa LÖSCHNER, Karlsruher Institute of Technology, Karlsruhe, GERMANY

Co-authors: Meyer JÖRG ⁽¹⁾; Achim DITTLER ⁽¹⁾

Affiliations: 1 : Karlsruher Institute of Technology, Karlsruhe, GERMANY

- 17:10** O-136 Advances in welding fume separation by using a new measurement method
Ralf HEIDENREICH, Institut für Luft- und Kältetechnik gGmbH, Dresden, GERMANY

Co-authors: Dirk KEßLAU ⁽¹⁾; Stefan HERRMANN ⁽¹⁾

Affiliations: 1 : Institut für Luft- und Kältetechnik gGmbH, Dresden, GERMANY

ROOM D

Gas filtration / Session

16:30 - 17:30

Air gaz treatment

- 16:30** O-138 Fabrication of Biocidal Electrospun PAN Filters Modified with CPC Surfactant and ZnO Nanoparticles for Efficient Filtration

Mônica AGUIAR, Federal University of São Carlos, São Carlos, BRAZIL

Co-authors: Edilton SILVA ⁽¹⁾; Souza CLOVIS ⁽¹⁾; Wanderley OLIVEIRA ⁽²⁾; Paulo CHAGAS ⁽¹⁾; Vádila GUERRA ⁽¹⁾

Affiliations: 1 : UFSCar, São Carlos, BRAZIL ; 2 : USP, Ribeirão Preto, BRAZIL

- 16:50** O-139 Breakdown of harmful Nox and VOC by photo-oxidation using titania nanofiber photocatalyst

Wallace LEUNG, Hong Kong Polytechnic University, Duluth, UNITED STATES

Co-authors: Yun LI ⁽¹⁾; Muzafar KANJWAL ⁽¹⁾

Affiliations: 1 : Hong Kong Polytechnic University, Hong Kong, HONG KONG

- 17:10** O-139bis Nonwoven Coating Using Zeolite–Nano Silver Powder for Gas Adsorption and Antibacterial Purposes

Mohammad Mehdi SHIRMOHAMMADI, Ambassador, World Filtration Institute (WFI); R&D Director, Termeh Co., Dubai, UNITED ARAB EMIRATES

Co-authors: Atefeh KHOSRAVI

Affiliations: Technical Manager, Termeh Co., Dubai, UNITED ARAB EMIRATES

PROGRAM

AMPHI B

Membrane / Session

16:30 - 17:30

NF

- 16:30** O-140 Recovery of homogeneous active catalysts in organic solvent nanofiltration: in-depth study of the benefits of using stable model complexes different from the pre-catalysts
Utpalkumar THUMMAR, Univ Rennes, CNRS, ISCR (Institut des Sciences Chimiques de Rennes) – UMR 6226, Rennes
Co-authors: Dawry Javier CAPELLAN BATISTA ⁽¹⁾; Thierry RENOUEAU ⁽¹⁾; Murielle RABILLER-BAUDRY ⁽¹⁾
Affiliations: 1 : Univ Rennes, CNRS, ISCR (Institut des Sciences Chimiques de Rennes) - UMR 6226, Rennes, FRANCE
- 16:50** O-141 Nanofiltration using Polysulfone Membranes
Jian TAN, Pall Corporation, Cortland, UNITED STATES
Co-authors: Varun VAKHARIA ⁽¹⁾
Affiliations: 1 : Pall Corporation, Cortland, UNITED STATES
- 17:10** O-142 Boron-nitride Nanosheets as Membrane Building Blocks for Water Purification and Gas Separations
Ze Xian Nicholas LOW, Nanjing Tech University, Nanjing, CHINA

AMPHI C

Membrane / Session

16:30 - 17:30

Membrane formation / structure

- 16:30** O-143 Artificial Water Channels- toward Biomimetic Membranes for Desalination
Mihail BARBOIU, Institut Européen des Membranes, Université de Montpellier, Montpellier
- 16:50** O-144 Development of innovative hollow fibers and carbon hollow fibers
Sébastien RIGOURD, Canoe, Pessac
- 17:10** O-145 Development of nanofiltration membrane from cellulose triacetate made from millet husk
Maryam Khadim MBACKE, Amadou Mahtar Mbow University, Dakar, SENEGAL
Co-authors: Moussa DIOP ⁽²⁾; Moustapha SENE ⁽³⁾; Anthony SZYMCHYK ⁽⁴⁾
Affiliations: 1 : Amadou Mahtar Mbow University, Dakar, SENEGAL ; 2 : School of Industrial and Biological Engineering , Dakar, SENEGAL ; 3 : SEN ENGINEERING International S.A. 21, Immorama Bulging 2nd floor, Hann Maristes, Dakar, SENEGAL ; 4 : Institute of Chemical Sciences of Rennes (UMR CNRS 6226), Chemistry and Process Engineering Team, Rennes, FRANCE

ROOM E

Sustainable development / Session

16:30 - 17:30

Water Treatment

- 16:30** O-146 Effect of Hydraulic Head Changes on the Performance of Gravity-Driven Membrane Systems
Seonki LEE, Korea Maritime & Ocean University, Busan, REPUBLIC OF KOREA
Co-authors: Jaewoong JEONG ⁽¹⁾; Heewon BYEON ⁽¹⁾; Suyeon LEE ⁽¹⁾
Affiliations: 1 : Korea Maritime & Ocean University, Busan, REPUBLIC OF KOREA
- 16:50** O-147 Experimental investigation of the effects of solar heating on the performances of an integrated solar-powered hollow fiber VMD module at semi-industrial scale
Indira CHIMANLAL, National Institute of Applied Sciences of Toulouse, Toulouse
Co-authors: Corinne CABASSUD ⁽¹⁾
Affiliations: 1 : National Institute of Applied Sciences of Toulouse, Toulouse, FRANCE
- 17:10** O-148 Efficient direct mechanical recycling of Li-ion battery production residues via ultrasonic delamination and dynamic cross-flow filtration
Patrick WIECHERS, Karlsruhe Institute of Technology, Karlsruhe, GERMANY
Co-authors: Marco GLEIB ⁽¹⁾; Hermann NIRSCHL ⁽¹⁾
Affiliations: 1 : Karlsruhe Institute of Technology, Karlsruhe, GERMANY



ROOM F

Liquid filtration / Poster presentation

17:30 - 18:15

- 17:30** P-01 Produce drinking water wherever you need it with the ANDRITZ mobile filtration unit (AMFU)
Etienne FROGER, ANDRITZ Euroslot SAS, Scorbé Clairvaux
- 17:40** P-43 Removal of active pharmaceuticals ingredients from water using modified halloysite particles
Michal STOR, Warsaw University of Technology, Warsaw, POLAND
Co-authors: Andrzej KRASINSKI ⁽¹⁾
Affiliations: 1 : Faculty of Chemical and Process Engineering, Warsaw University of Technology, Warsaw, POLAND

ROOM H

Liquid filtration / Poster presentation

17:30 - 18:15

- 17:30** P-05 Influences and Characteristics of Back-washing for Double-layer Filter Materials in Filtration Treatment of Polymer Flooding Produced Water
Lin LIU, Northeast Petroleum University, Daqing, CHINA
- 17:40** P-08 Analysis on the development and Standardization System Construction of Separation Machinery Industry in the Context of Dual Carbon Goals
Cuilong CHEN, Sinomach General Machinery Science& Technology Co., Ltd., Hefei, CHINA
Co-authors: DEYOU ZHANG ⁽¹⁾
Affiliations: 1 : Secretariat of National Technical Committee for Standardization of Separation Machine, Hefei, CHINA

AMPHI A

Gas filtration / Poster presentation

17:30 - 18:15

- 17:30** P-02 Enhancing Automotive Cabin Air Filtration Efficiency Using Short Cellulose Acetate Nanofibers
Mônica AGUIAR, Federal University of São Carlos, São Carlos, BRAZIL
Co-authors: Paulo Augusto MARQUES CHAGAS ⁽¹⁾ ; Wanderley P. OLIVEIRA ⁽²⁾
Affiliations: 1 : Department of Chemical Engineering/University Federal of São Carlos, São Carlos - SP, BRAZIL ; 2 : Faculty of Pharmaceutical Sciences of Ribeirão Preto/University of São Paulo, Ribeirão Preto, BRAZIL
- 17:40** P-12 Evaluation of the efficiency of bag filters with different filter media
Mônica AGUIAR, Federal University of São Carlos, São Carlos, BRAZIL
Co-authors: Ana Cristina Coelho VIEIRA ⁽¹⁾ ; Rafael SARTIM ^(2,3)
Affiliations: 1 : Federal University of São Carlos, São Carlos, SP, BRAZIL ; 2 : Federal University of Espírito Santo, Vitória, ES, BRAZIL ; 3 : ArcelorMittal, Serra, ES, BRAZIL
- 17:50** P-13 Production of triple-layer filter media from recycled polyethylene terephthalate (rPET) and polystyrene (rPS) using the electrospinning technique: Evaluation of air nanoparticle filtration and permeability
Mônica AGUIAR, Federal University of São Carlos, São Carlos, BRAZIL
Co-authors: Felipe de Aquino LIMA ⁽¹⁾ ; Paulo Augusto Marques CHAGAS ⁽¹⁾ ; Vádila Giovana GUERRA ⁽¹⁾
Affiliations: 1 : Federal University of São Carlos, São Carlos, BRAZIL

PROGRAM

ROOM D

Gas filtration / Poster presentation

17:30 - 18:15

17:30 P-15 Study of the particle loading behavior and dendrite growth characteristics on a single fiber

Tianle YOU, South China University of Technology, Guangzhou, CHINA

Co-authors: Zhengyuan PAN ⁽²⁾; Min TANG ⁽¹⁾; Yun LIANG ⁽¹⁾

Affiliations: 1 : South China University of Technology, Guangzhou, CHINA ; 2 : University of Minnesota Minneapolis, Minnesota, UNITED STATES

17:40 P-14 Application of graphene oxide on nonwoven microfibres as a promising air purification nanocomposite for removal of particulate matter

Simone POZZA, University of Campinas - UNICAMP, Limeira, BRAZIL

Co-authors: Manoel MEIRA ⁽¹⁾; Marcos LOREVICE ⁽²⁾; Joyce CRISTALE ⁽¹⁾; Diego MARTINEZ ⁽²⁾

Affiliations: 1 : University of Campinas - UNICAMP, Limeira, BRAZIL ; 2 : Brazilian Center for Research in Energy and Materials (CNPq), Campinas, BRAZIL

17:50 P-16 Modeling nonwoven filters and application to airflow study and pressure drop prediction

Yongchun ZENG, Donghua University, Shanghai, CHINA

Co-authors: Ying LI ⁽¹⁾

Affiliations: 1 : College of Textiles, Donghua University, Shanghai, CHINA

18:00 P-16bis - A 5 nm to 10 micrometre Condensation Particle Counter suitable for testing all air filter grades

Yixin ZOU, Cambustion Ltd, Cambridge, UNITED KINGDOM

Co-Authors : Simon PAYNE ⁽¹⁾; Jon SYMONDS ⁽¹⁾; Martin TOFTS ⁽¹⁾

Affiliations : 1 : Cambustion Ltd, Cambridge, UNITED KINGDOM

AMPHI B

Membrane / Poster presentation

17:30 - 18:15

17:30 P-03 Recycling of polymeric substances from sewage via membrane technologies

Da-Qi CAO, Beijing University of Civil Engineering and Architecture, Beijing, CHINA

Co-authors: Zhen WANG ⁽¹⁾; Xin SONG ⁽¹⁾; Xiao-Min FANG ⁽¹⁾; Jing-Yi JIN ⁽¹⁾; Xiu-Zhen SUN ⁽¹⁾; Jia-Lin HAN ⁽¹⁾; Hui LIU ⁽¹⁾; Yan JIN ⁽¹⁾; Xiao-Di HAO ⁽¹⁾

Affiliations: 1 : Beijing University of Civil Engineering and Architecture, Beijing, CHINA

17:40 P-38bis FLUORMIDABLE: A Fluorescence-Based Strategy for In Situ Detection and Mapping of Micro- and Nanoplastics in Coastal and Marine Environments

René PEINADOR DAVILA, Institut de la Filtration et des techniques séparatives (IFTS), Foulayronnes

Co-authors: Amélie SURMONT ⁽¹⁾; Vidal LAURENCE ⁽¹⁾; Jérôme LABILLE ⁽¹⁾

Affiliations: 1 : Institut de la Filtration et des techniques séparatives (IFTS), Foulayronnes, FRANCE

AMPHI C

Membrane / Poster presentation

17:30 - 18:15

17:30 P-23 Development of Antifouling gamma-Al₂O₃/alpha-Al₂O₃ Nanofiltration Membranes for Enhanced Wastewater Treatment Efficiency

Xuelong ZHUANG, Dongguk university, Seoul, CHINA

17:40 P-20 Hybrid modeling approach for the prediction of potential fouling in filtration based on viscosity

Jimin KANG, Inha University, Incheon, REPUBLIC OF KOREA

Co-authors: Youngbin BAEK ⁽¹⁾

Affiliations: 1 : Inha University, Incheon, REPUBLIC OF KOREA



ROOM E

Sustainable development / Poster presentation

17:30 - 18:15

17:30 P-19 Enhanced separation of C-phycoerythrin and allophycocyanin using a coupled filtration and precipitation methods

Soobin JANG, Inha University, Incheon, REPUBLIC OF KOREA

Co-authors: Youngbin BAEK ⁽¹⁾

Affiliations: 1 : Inha University, Incheon, REPUBLIC OF KOREA

17:40 P-37 Protein concentration from microalgae using stirred-cell ultrafiltration

Pierre-Yves PONTALIER, Laboratoire de Chimie Agro-industrielle (LCA), Université de Toulouse, INRAE, Toulouse INP, Toulouse

Co-authors: Hussein RIDA ^(1,2) ; Sara OBEID ^(1,2) ; Nicolas BEAUFILS ⁽¹⁾

Affiliations: 1 : Laboratoire de Chimie Agro-industrielle (LCA), Université de Toulouse, INRAE, Toulouse INP, Toulouse, FRANCE ; 2 : Plateforme de Recherche et d'Analyses en Sciences de l'Environnement (PRASE), Université Libanaise, Beirut, LEBANON

17:50 P-45 Modification of polypropylene filters with amphiphilic cyclodextrins by dip coating for PFAS removal

Kasper Skovbølling HEDEGAARD, Aalborg University, Aalborg, DENMARK

ROOM G

18:15 - 19:15

INDEFI meeting

PROGRAM

	ROOM F	ROOM H	AMPHI A	
8:00 - 19:15				
8:30 - 9:30	AMPHI A			
9:30 - 10:00				
	CENTRIFUGAL SEPARATION	HYBRID AND COMBINED PROCESSES	FUNDAMENDALS AND SIMULATION	
10:00 - 10:20	KEYNOTE: Deyou ZHANG New Technology of Separation Machinery and its Engineering Application in Key Links of Lithium Industry	O-153 Elliott JACQUEMIN Hybrid process based on nanofiltration and catalytic ozonation for antibiotics removal and membrane fouling mitigation	KEYNOTE: Philipp EICHHEIMER Advanced simulation of adsorption processes for next-generation filter media development	
10:20 - 10:40		O-154 Morten NIELSEN Nanofiltration and reverse osmosis for the recovery and purification of phosphorus from sewage sludge ash		
10:40 - 11:00	O-149 Wallace LEUNG Novel centrifugal classification of inclusion body from recombinant protein process	O-157 Jiha SHIM Impact of induced gas flotation on ceramic membrane filtration efficiency in oil sands process-affected water treatment	O-159 Jakub WIEREMIEJCZUK Numerical study of particle deposition on filter fibers: Effect of particle mobility after initial deposition	
11:00 - 11:20	O-150 Yipeng JI Oscillation characteristics of oil core induced by rotating rate of the tubular axial vortex separator	O-158 Egon EHRFELD Dynamic cross-flow filtration for continuous recovery of catalysts - Theory and industrial practice	O-160 Alain GINESTET Impact of baffles on airflow distribution in industrial dust collectors: a numerical simulation study	
11:20 - 11:40	O-151 Meili LIU Design and performance study of a hydrocyclone with wide operating window for downhole oil-water separation		O-161 Yu SONG Prediction of filter structures and filtration performance at compressed state via in-situ 3D imaging and numerical simulation	
11:40 - 12:00	O-152 Cuilong CHEN Design and Application Research of PVDF Fluoroplastic Centrifuge Extractor			
12:00 - 13:30				
13:30 - 14:10	KEYNOTE: Prof. Dr. Dr. Dietmar LERCHE Analytical centrifugation (AC) has a strong cross-discipline impact inclusive of separation and filtration even 100 years after the breakthrough innovation of the ultracentrifuge that led to the Nobel Prize (Svendborg)	KEYNOTE: Godwin SEVERA Metal Based Ionic Liquid Composites for Acidic Gas Capture	KEYNOTE: Jennifer NIESSNER Indoor air quality - a counterpart to energy efficiency and thermal comfort?	



ROOM D	AMPHI B	AMPHI C	ROOM E
Registration and Exhibition open			
Plenary Lecture: Hervé BUISSON Water Filtration: Challenges and Opportunities in the Age of Sustainability			
Coffee Break - Exhibition - Poster			
INDUSTRIAL GAS CLEANING	MEMBRANE TECHNOLOGY / APPLICATIONS	MEMBRANE FORMATION / STRUCTURE	WASTE WATER TREATMENT
O-163 Peter BÄCHLER Mitigation of nanoparticle emissions from a biomass power plant for district heating by application of pulse-jet cleaned filters	O-169 Jeonghwan KIM Electroless plating combined with air blowing step technique for highly conductive hollow-fiber membrane in submerged electrochemical membrane filtration	O-175 Djamel TALEB Modification of nanoporous filtration membranes by cold plasma polymerisation and application to heavy metals removal	O-181 Rajashree YALAMANCHILI A holistic approach to evaluating forward osmosis - reverse osmosis (FO-RO) hybrid systems for simultaneous water reuse and resource recovery
O-164 Alessio FUOCO PIMs and MOF based Mixed Matrix Membranes for CO ₂ Capture	O-170 Kibaek LEE Disrupting autoinducer-2 bacterial communication to combat membrane biofouling in an MBR for wastewater treatment and water reuse	O-176 Sergio SANTORO Lithium Recovery from Natural and Anthropogenic Brines via Solar-Driven Photothermal Membrane Crystallization	O-182 Sylvie BAIG Choice of media for biofilters: importance of their characteristics for long-term performance control in wastewater treatment
O-165 Zhen LIU Optimization design and application of magnetic separation technology for black powder in natural gas pipeline	O-171 Seonbong LEE Membrane filtration for separating isoform DNA with adsorption technology	P-176bis Patricia PREDIGER Preparation of polymeric membranes containing doped mesoporous carbon and their application in the removal of heavy metals from a real electroplating effluent	O-182bis Thi-Dieu-Hien VO Biomass harvesting efficiency by rotating membrane in revolving algal biofilm system under different conditions
O-166 Ala BOUHANGUEL In situ study in a municipal waste incinerator of the collection of particles contained in fumes by a downscaled wet scrubber	O-172 S. Ranil WICKRAMASINGH Integrated Electrocoagulation and Zwitterionic Modified Nanofiltration Membranes for Removal of Microcystin		O-184 Mélanie SOUBEYRAT Reuse of treated wastewater for watering green spaces, a credible alternative
O-167 Lingzhen KONG Absorption mass transfer and separation characteristics of efficient tubular natural gas dehydration	O-173 Guillaume DERUY PFAS retention by hollow fiber nanofiltration and reverse osmosis membrane		O-185 Tarik ELJADDI Use of Ultrafiltration for Biosecurity in Fish Farming and Environmental Protection for a Blue Transformation of Aquaculture
O-168 Young Ok PARK Filtration characteristics of commercial scale DeNOx catalyst cartridge filter bags			
Lunch			
KEYNOTE: Laretta RUBINO VERT GPF-Retrofit Program for Cleaner Urban Mobility to Reduce Nanoparticle Emissions via Filtration within the HORIZON Europe AeroSolid Project	KEYNOTE: Anthony SZYMczyk Electrokinetic and electrochemical characterization of porous polymer membranes	KEYNOTE: Emilie ROLLAND Novel membranes based on charged 2D nanomaterials	KEYNOTE: Eugène VOROBIEV Innovative physical pretreatments improve filtration properties of biomass and open the new opportunities for filtration and separation technologies

PROGRAM

	ROOM F	ROOM H	AMPHI A	
	ADVANCES IN FILTRATION AND SEPARATION	DEPTH FILTRATION AND FILTER AIDS	HVAC SYSTEMS	
14:20 - 14:40	O-187 Sajid HASSAN Evaluating the effect of key parameters on cake solids concentration and throughput in High Pressure Dewatering Rolls Mark-II	O-192 Nazila BOLOURIEH Evaluation of TSS removal from synthetic stormwater using construction and demolition waste fractions as porous media	O-197 Alain GINETET Enhancement of design and performances of droplet separators for air handling units	
14:40 - 15:00	O-188 Egon EHRFELD Dynamic and continuous sieve filtration of highly viscous suspensions with large solids concentration - Theory and industrial practice	O-193 Tarik ELJADDI Design and validation of a locally assembled sand filter to remove iron from drinking water in Mali	O-198 Alain GINETET Could general ventilation filters be used as acoustic silencers?	
15:00 - 15:20	O-189 Timo DOBLER HiBar filter - An optimal solution for challenging filtration tasks?	O-194 Masashi IWATA Substantial enhancement in suspended particle capture during precoat filtration by modifying the precoat layer with fine bubbles	O-199 Christian PETERS Gas Adsorption Test of HVAC Filter according to ISO 10121	
15:20 - 15:40	O-190 Da-Qi CAO Dead-end forward osmosis deep dewatering technology	O-195 Wenping LI Cycle Rate Analysis Method for Optimizing Filter Aid Selection	O-200 Elise BILLOD Development of synthetic multilayer filter media with high performance and enhanced energy saving	
15:40 - 16:00	O-191 Christian SCHEIDLE Innovative mining process supported by enhanced two stage filtration concept		O-201 Ingrid RÜCKERT 3D composites for more sustainable HVAC systems	
16:00 - 16:30				
	FILTRATION/SEPARATION APPLICATIONS 1	MEMBRANE APPLICATIONS	PERSONAL PROTECTIVE EQUIPMENT	
16:30 - 16:50	O-222 Oliver ASMUS AGXX - an innovative technology to prevent microbial contamination in water and air filtration	O-225 Jang-Hoon HA Preparations and characterizations of low-cost porous ceramic membranes	O-228 Sandrine CHAZELET Efficiency of Powered Air-Purifying Respirators in simulated wearing conditions	
16:50 - 17:10	O-223 Kenta KITAMURA Novel Approach to Water Treatment Utilizing Nanoparticle Slurry and DC Electric Field	O-226 Zakarya CHAFIQ ELIDRISSI High-Performance MoS ₂ Nanofiltration Membrane for Dye Separation: Experimental and Modeling Analysis	O-230 Yuxin ZHAO Ultrathin transparent PTFE membrane prepared by mechanical exfoliation for efficient air aerosol filtration	
17:10 - 17:30	O-224 Yun LIANG Impact of Surfactants on Water Droplet Capture and Coalescence by Single Fibers in Diesel		O-230bis Mohammad Mehdi SHIRMOHAMMADI Respiratory Masks: New Developments, Opportunities, and Trends	
	POSTER SESSION LIQUID FILTRATION	POSTER SESSION MEMBRANE	POSTER SESSION GAS FILTRATION	
17:30 - 17:40	P-10 Nikolai BENZ CFD-DEM simulation of micro-mechanisms between particles and filter medium by solid-liquid separation	P-27 Timo ROTHAUSEN Sandfilter Backwash Water Treatment - Piloting at a municipal German freshwater producer	P-11 Junxian CHEN A microwave sensor for droplet contents measurement in high-pressure natural gas pipelines	
17:40 - 17:50	P-06 Lin LIU Effect of Different Filter Materials on Filtration Process of Polymer Flooding Produced Water: A Numerical Simulation Study	P-38 Youness KOUZI Are membrane cascades an efficient tool for the enhancement of RO desalination performances either for brackish or seawaters ?	P-17 God JEAN Approach for dimensioning a lab-scale wet scrubber for analysis of gas-particle-droplet interactions	
17:50 - 18:00	P-39bis Jaewoo LEE Reverse osmosis membranes coated with silk-derived materials to enhance anti-scaling and storage stability via a waste-to-resource approach	P-29 Gaetan BLANDIN Evaluation of chemical and mechanical resistance of FO and RO dense membranes for improved lifetime and recycling	P-18 Deli LIU Integrated application of cyclone separation and deep filtration in natural gas defoaming	
18:00 - 18:10		P-41 Cejna Anna Quist-Jensen High-purity water recovery from industrial effluents using membrane distillation		
18:15 - 19:15	ROOM G			
20:00				

ROOM D	AMPHI B	AMPHI C	ROOM E
MATERIAL AND SENSOR	FUNDAMENTALS, MODELING AND SIMULATION	MEMBRANE FORMATION / STRUCTURE	PRETREATMENT
O-202 Martin LAUER Breakthrough sensor for adsorption filters	O-207 Baptiste BOIT Sustainable Ingredient Innovation with membrane process modeling - application to nanofiltration and reverse osmosis	O-212 Fatima Zohra EL BERRICHI Preparation of ceramic flat membrane from the local kaolin intended for the filtration application	O-217 Juya AZADI Dewatering properties of disrupted sludge through ultrasonication and re-flocculation
O-203 Félicie THERON Development and advanced characterization of a biobased media for air filtration	O-208 Maher HATOUM Coupling Process Systems Engineering with Life Cycle Assessment for Sustainable Ultrafiltration	O-214 Irish Valerie MAGGAY Development of a Three-Stage Filtration System Using Tailored Phase-Inversion Membranes from a Single Casting Solution	O-218 Karim MEZIANI Impact of polymer dosing modes on sludge conditioning and dewatering
O-204 Simon PAYNE More accurate measurements of the most penetrating particle size using aerosols classified by aerodynamic diameter	O-209 Anna QUIST-JENSEN Direct contact membrane distillation module design for external heat recovery Cejna	O-215 Saad ALAMI YOUNSSI Fabrication of a Cost-Effective Crosslinked and Intercalated rGO-Based Membrane for Efficient Dye Removal	O-219 Fatima Zohra EL BERRICHI Hybrid process for treating textile dyeing wastewater by coupling Coagulation-Flocculation, Adsorption and Fenton oxidation
O-205 Y Lan PHAM Characterising dynamic filter removal efficiency of volatiles in real-time	O-210 Agathe LIZÉE Electrokinetic measurements as a new tool to characterize membrane wetting	O-216 Youness KOUZI Comparative Study of Activation Methods to Enhance the Stability and Efficiency of Graphene Oxide Membranes on Low-Cost Silica-Rich Supports	O-220 Pascal GINISTY Using raw and modified chitosan as an alternative of petrosourced flocculents for digested sludges thickening and dewatering
O-206 Alexandre KHALDI Integration of monitoring system onto air particle filter	O-211 Maksym LOGINOV Optimization of concentration-fractionation via membrane filtration: equations vs. reality		O-221 Danielle SLOMBERG Towards nature-based solutions in waste water treatment: role of biopolymer properties in coagulation-flocculation and removal of suspended mineral matter

Coffee Break - Exhibition - Poster

COMPARISON METHODS	MEMBRANE FOULING / REGENERATION	MEMBRANE FORMATION / STRUCTURE	BIOPOLYMER
O-231 Chih-Chieh CHEN Comparison of performance evaluation methods for air cleaners	O-234 Louise MIKKELSEN Cross-membrane sensing of milk fouling on an immersed flat sheet module by measuring thermal conductivity in real time	O-237 Yuanhui GAO 3D Printed TPMS-Structured Ceramic Membranes for High-Temperature Industrial Exhaust Filtration	O-241 Soufiane BAKRI ALAOUI Enhanced treatment of olive mill wastewater using infiltration-percolation with low-cost adsorbents
O-232 Xin FENG Effect of the competitive gases in the performance evaluation for Gas-phase air cleaning devices (GPACD)	O-235 Estelle COUALLIER Probing the fouling induced by biomolecules of a polymer microfiltration membrane using 3D cryo-FIB/SEM	O-238 Wentai HE Auxetic highly stretchable all-ceramic nanofibrous membranes for high-temperature industrial emission filtration	O-266bis Aka DOCHE Forward osmosis to concentrate blood platelets : optimising process conditions
O-233 Martin SCHMIDT Influence of test parameters to the comparability of test results of air filter elements	O-236 Murielle RABILLER-BAUDRY Enzymatic detergents vs alkaline detergents: which are better for cleaning PES/PVP ultrafiltration membranes fouled by skim milk?	O-239 Ying FENG Development and selective adsorption characteristics of molecular imprinted Chitosan composite membrane	

POSTER SESSION MEMBRANE	POSTER SESSION MEMBRANE	POSTER SESSION MEMBRANE	POSTER SESSION SUSTAINABLE DEVELOPMENT
P-34 Courfia DIAWARA Reverse Osmosis and Scientific Issues for Seawater Desalination in West Africa - Osmose Inverse et Enjeux Scientifiques pour le Dessalement de l'Eau de Mer en Afrique de l'Ouest	P-25 Maximilian AMTHOR-STAHN Next level optimization of your Dynamic Crossflow Filter (DCF) performance with digital twins	P-24 Jae Yeon HWANG A study on the feasibility of hemodialysis application through lab-scale hemodialyzer made of ceramic hollow fiber membranes by removing uremic toxins	P-28 Christel CAUSSERAND Mamb'Eaux Project Assessment of the life span of membranes in an MBR for the treatment of urban and industrial wastewater
P-40 Soumana GAGARA Contribution to the Surface Water Quality Assessment: A Case Study of the Microfiltration and Reverse Osmosis Systems applied to the Kivu Lake Water In The Province Of South Kivu In DR Congo		P-41bis Houcine MHEMDI Dead-End Ultrafiltration of Sugar Beet Juice Extracted from Cold Electrically Pre-Treated Slices: Influence of Membrane Polymer on Fouling Mechanisms and Permeate Quality	P-30 Mohamed TAKY Understanding the effect of organic load on aerobic ceramic membrane bioreactor: performance, fouling propensity and machine learning algorithm
		P-42bis Zakarya CHAFIQ ELIDRISSI High-performance MoS ₂ -based composite membrane for efficient dye removal: Experimental and theoretical analysis	P-46 Muhammad Khairul AFDHOL Utilization of jenitri as a biosorbent for produced-water in oil fields

SF2P meeting (by invitation)

GALA DINNER

PROGRAM

WELCOME AREA

08:00 - 18:15 **Welcome attendees**

AMPHI A

08:30 - 09:30 **Plenary session**

Water Filtration: Challenges and Opportunities in the Age of Sustainability
Hervé BUISSON, Veolia Water Technologies, Paris

ESPACE PLURIEL

09:30 - 10:00 **Visit the exhibition and the poster area**

ROOM F

Liquid filtration / Session

10:00 - 12:00 **Centrifugal Separation**

10:00 Keynote lecture - New Technology of Separation Machinery and its Engineering Application in Key Links of Lithium Industry

Deyou ZHANG, HeFei General Machinery Research Institute Co., Ltd., Hefei, CHINA

Co-authors: BIXIAO ZHU ⁽¹⁾

Affiliations: 1 : HeFei General Machinery Research Institute Co., Ltd., Hefei, CHINA

10:40 O-149 Novel centrifugal classification of inclusion body from recombinant protein process
Wallace LEUNG, Hong Kong Polytechnic University, Duluth, UNITED STATES

11:00 O-150 Oscillation characteristics of oil core induced by rotating rate of the tubular axial vortex separator

Yipeng JI, Beijing Institute of Petrochemical Technology, Beijing, CHINA

Co-authors: Lei ZHANG ^(1,3) ; Xiujun WANG ⁽²⁾ ; Jiaqing CHEN ^(1,3) ; Zhao HUA ⁽²⁾ ; Chunyao WANG ^(1,3) ; Yinghao SUN ^(1,3)

Affiliations: 1 : Beijing Institute of Petrochemical Technology, Beijing, CHINA ; 2 : CNOOC Research Institute Co. LTD, Beijing, CHINA ; 3 : Beijing Key Laboratory of Pipeline Critical Technology and Equipment for Deepwater Oil & Gas Development, Beijing, CHINA

11:20 O-151 Design and performance study of a hydrocyclone with wide operating window for downhole oil-water separation

Meili LIU, Beijing Institute of Petrochemical Technology, Beijing, CHINA

Co-authors: Jiaqing CHEN ^(1,3) ; Zheyuan ZHANG ^(1,3) ; Yongxiang FENG ^(1,3) ; Deli JIA ⁽²⁾ ; Yang GAO ⁽²⁾

Affiliations: 1 : Beijing Institute of Petrochemical Technology, Beijing, CHINA ; 2 : Oil Production Engineering Research Institute of Petroleum Exploration & Development, Beijing, CHINA ; 3 : Beijing Key Laboratory of Pipeline Critical Technology and Equipment for Deepwater Oil & Gas Development, Beijing, CHINA

11:40 O-152 Design and Application Research of PVDF Fluoroplastic Centrifuge Extractor
Cuilong CHEN, Sinomach General Machinery Science& Technology Co., Ltd., Hefei, CHINA

Co-authors: BIXIAO ZHU ⁽¹⁾

Affiliations: 1 : Sinomach General Machinery Science& Technology Co., Ltd., Hefei, CHINA



ROOM H

Liquid filtration / Session

10:00 - 12:00

Hybrid and Combined Processes

- 10:00** O-153 Hybrid process based on nanofiltration and catalytic ozonation for antibiotics removal and membrane fouling mitigation
Elliott JACQUEMIN, Institut Européen des Membranes, Montpellier
Co-authors: Martin DROBEK ⁽¹⁾; Loubna ATFANE ⁽¹⁾; Eddy PETIT ⁽¹⁾; Julie MENDRET ⁽¹⁾; Stéphan BROSILLON ⁽¹⁾
Affiliations: 1 : Institut Européen des Membranes, Montpellier, FRANCE
- 10:20** O-154 Nanofiltration and reverse osmosis for the recovery and purification of phosphorus from sewage sludge ash
Morten NIELSEN, Aalborg University, Aalborg Øst, DENMARK
Co-authors: Morten CHRISTENSEN ⁽¹⁾
Affiliations: 1 : Aalborg University, Aalborg Øst, DENMARK
- 10:40** O-157 Impact of induced gas flotation on ceramic membrane filtration efficiency in oil sands process-affected water treatment
Jiha SHIM, Pusan national university, Busan, REPUBLIC OF KOREA
Co-authors: Jeong SANGHYUN ⁽¹⁾
Affiliations: 1 : Pusan national university, Busan, REPUBLIC OF KOREA
- 11:00** O-158 Dynamic cross-flow filtration for continuous recovery of catalysts - Theory and industrial practice
Egon EHRFELD, BOKELA GmbH, Karlsruhe, GERMANY
Co-authors: Timo DOBLER ⁽¹⁾
Affiliations: 1 : BOKELA GmbH, Karlsruhe, GERMANY

AMPHI A

Gas filtration / Session

10:00 - 12:00

Fundamentals and simulation

- 10:00** **Keynote lecture** - Advanced simulation of adsorption processes for next-generation filter media development
Philipp EICHHEIMER, Math2Market GmbH, Kaiserslautern, GERMANY
Co-authors: Weber ANDREAS ⁽¹⁾; Tabea STERBAK ⁽¹⁾; Andreas WIEGMANN ⁽¹⁾
Affiliations: 1 : Math2Market GmbH, Kaiserslautern, GERMANY
- 10:40** O-159 Numerical study of particle deposition on filter fibers: Effect of particle mobility after initial deposition
Jakub WIEREMIEJCZUK, University of Stuttgart, Stuttgart, GERMANY
Co-authors: Carsten MEHRING ⁽¹⁾
Affiliations: 1 : University of Stuttgart, Stuttgart, GERMANY
- 11:00** O-160 Impact of baffles on airflow distribution in industrial dust collectors: a numerical simulation study
Alain GINESTET, CETIAT, Villeurbanne
Co-authors: Mirela ROBITU ⁽¹⁾
Affiliations: 1 : CETIAT, Villeurbanne, FRANCE
- 11:20** O-161 Prediction of filter structures and filtration performance at compressed state via in-situ 3D imaging and numerical simulation
Yu SONG, Donghua University, Shanghai, CHINA
Co-authors: Huimin GE ⁽¹⁾
Affiliations: 1 : Donghua University, Shanghai, CHINA

PROGRAM

ROOM D

Gas filtration / Session

10:00 - 12:00

Industrial gas cleaning

10:00 O-163 Mitigation of nanoparticle emissions from a biomass power plant for district heating by application of pulse-jet cleaned filters

Peter BÄCHLER, Karlsruhe Institute of Technology, Karlsruhe, GERMANY

Co-authors: Jörg MEYER ⁽¹⁾; Roman LIGOTSKI ⁽²⁾; Petra KRUG ⁽²⁾; Achim DITTLER ⁽¹⁾

Affiliations: 1 : Karlsruhe Institute of Technology, Karlsruhe, GERMANY ; 2 : BWF Envirotec GmbH, Offingen, GERMANY

10:20 O-164 PIMs and MOF based Mixed Matrix Membranes for CO₂ Capture

Alessio FUOCO, National Research Council of Italy, Rende, ITALY

Co-authors: Martina VACCARO ⁽¹⁾; Carmen RIZZUTO ⁽¹⁾; Marcello MONTELEONE ⁽¹⁾; Johannes C JANSEN ⁽¹⁾; Francesco DELLA CROCE ^(2,3); Marco LESSI ^(2,3); Marco TADDEI ^(2,3); Caterina Grazia BEZZU ^(1,4); Mariolino CARTA ⁽¹⁾

Affiliations: 1 : National Research Council of Italy, Rende, ITALY ; 2 : University of Pisa, Pisa, ITALY ; 3 : National Interuniversity Consortium of Materials Science and Technology, Florence, ITALY ; 4 : Swansea University, Swansea, UNITED KINGDOM

10:40 O-165 Optimization design and application of magnetic separation technology for black powder in natural gas pipeline

Zhen LIU, China University of Petroleum, Beijing, Beijing, CHINA

Co-authors: Tianyu ZHANG ⁽¹⁾; Zhongli JI ⁽¹⁾; Xiaolin WU ⁽¹⁾

Affiliations: 1 : China University of Petroleum, Beijing, Beijing, CHINA

11:00 O-166 In situ study in a municipal waste incinerator of the collection of particles contained in fumes by a downscaled wet scrubber

Ala BOUHANGUEL, IMT Atlantique / GEPEA, Nantes

Co-authors: Angela HOYOS ^(1,2); Aurélie JOUBERT ⁽¹⁾; Marc HENRY ⁽²⁾; Sylvain DURÉCU ⁽²⁾; Laurence LE COQ ⁽¹⁾

Affiliations: 1 : IMT Atlantique / GEPEA, NANTES, FRANCE ; 2 : Séché Environnement, Centre de R&D, SAINT-VULBAS, FRANCE

11:20 O-167 Absorption mass transfer and separation characteristics of efficient tubular natural gas dehydration

Lingzhen KONG, Beijing Institute of Petrochemical Technology, Beijing, CHINA

Co-authors: Jiaqing CHEN ^(1,3); Huan SUN ^(1,3); Biao KONG ^(1,3); Qi LI ⁽²⁾; Changhe LI ⁽²⁾; Sicheng WANG ^(1,3); Yang YANG ^(1,3)

Affiliations: 1 : Beijing Institute of Petrochemical Technology, Beijing, CHINA ; 2 : Sinopec Petroleum Exploration and Production Research Institute, Beijing, CHINA ; 3 : Beijing Key Laboratory of Pipeline Critical Technology and Equipment for Deepwater Oil & Gas Development, Beijing, CHINA

11:40 O-168 Filtration characteristics of commercial scale DeNO_x catalyst cartridge filter bags

Young Ok PARK, DAEHANPNC CO., Ltd., Dangjin City, REPUBLIC OF KOREA

Co-authors: Wonil SHIN ⁽¹⁾; Kwang Deuk KIM ⁽¹⁾; Sang Do KIM ⁽¹⁾

Affiliations: 1 : DAEHANPNC CO., Ltd., Dangjin, REPUBLIC OF KOREA



AMPHI B

Membrane / Session

10:00 - 12:00

Membrane technology / applications

- 10:00** O-169 Electroless plating combined with air blowing step technique for highly conductive hollow-fiber membrane in submerged electrochemical membrane filtration
Jeonghwan KIM, Inha University, Incheon, REPUBLIC OF KOREA
- 10:20** O-170 Disrupting autoinducer-2 bacterial communication to combat membrane biofouling in an MBR for wastewater treatment and water reuse
Kibaek LEE, Chonnam National University, Gwangju, REPUBLIC OF KOREA
Co-authors: Gyeongho CHOI ⁽¹⁾; Jinju HAN ⁽¹⁾; Changun KIM ⁽¹⁾; Hyeona PARK ⁽²⁾; Kwang-Ho CHOO ⁽²⁾
Affiliations: 1 : Chonnam National University, Gwangju, REPUBLIC OF KOREA ; 2 : Kyungpook National University, Daegu, REPUBLIC OF KOREA
- 10:40** O-171 Membrane filtration for separating isoform DNA with adsorption technology
Seonbong LEE, Inha university, Incheon, REPUBLIC OF KOREA
Co-authors: Jiwon NA ⁽¹⁾; Youngbin BAEK ⁽¹⁾
Affiliations: 1 : Inha university, Incheon, REPUBLIC OF KOREA
- 11:00** O-172 Integrated Electrocoagulation and Zwitterionic Modified Nanofiltration Membranes for Removal of Microcystin
S. Ranil WICKRAMASINGHE, University of Arkansas, Fayetteville, UNITED STATES
Co-authors: Chidambaram THAMARAISELVAN ⁽¹⁾; Xianghong QIAN ⁽¹⁾
Affiliations: 1 : University of Arkansas, Fayetteville, UNITED STATES
- 11:20** O-173 PFAS retention by hollow fiber nanofiltration and reverse osmosis membrane
Guillaume DERUY, Aix Marseille University, Aix-En-Provence
Co-authors: Mathias MONNOT ⁽¹⁾; Philippe MOULIN ⁽¹⁾; Marc HENRY ⁽²⁾
Affiliations: 1 : Aix Marseille University, AIX-EN-PROVENCE, FRANCE ; 2 : Séché Environnement, SAINT-VULBAS, FRANCE

AMPHI C

Membrane / Session

10:00 - 12:00

Membrane formation / structure

- 10:00** O-175 Modification of nanoporous filtration membranes by cold plasma polymerisation and application to heavy metals removal
Djamel TALEB, Institut UTINAM UMR CNRS 6213, Besancon
Co-authors: Sébastien DÉON ⁽¹⁾; Patrick FIEVET ⁽¹⁾; Vincent ROUCOULES ⁽²⁾; Aissam AIROUDJ ⁽²⁾; Florence BALLY-LE-GALL ⁽²⁾
Affiliations: 1 : Institut UTINAM (UMR CNRS 6213), Université de Franche-Comté, Besançon, FRANCE ; 2 : IS2M (UMR 7361), Université de Haute-Alsace, Mulhouse, FRANCE
- 10:20** O-176 Lithium Recovery from Natural and Anthropogenic Brines via Solar-Driven Photothermal Membrane Crystallization
Sergio SANTORO, University of Calabria, Rende, ITALY
Co-authors: Marco AQUINO ⁽¹⁾; Antonio POLITANO ⁽²⁾; Efrem CURCIO ⁽¹⁾; Roviell Berhane ZEGEYE ⁽¹⁾
Affiliations: 1 : University of Calabria, Rende, ITALY ; 2 : University of L'Aquila, L'Aquila, ITALY
- 10:40** P-176bis Preparation of polymeric membranes containing doped mesoporous carbon and their application in the removal of heavy metals from a real electroplating effluent
Patricia PREDIGER, 007.985.780-92, Campinas, BRAZIL
Co-authors: MARIA VITORIA RAPOSO RODRIGUES ⁽¹⁾; CAMPAROTTO NATALIA GABRIELE ⁽¹⁾; RAFAEL L OLIVEIRA ⁽²⁾
Affiliations: 1 : State University of Campinas - UNICAMP, Campinas, BRAZIL ; 2 : Institute of Low Temperature and Structure Research, Wroclaw, POLAND

PROGRAM

ROOM E

Sustainable development / Session

10:00 - 12:00

Waste water treatment

10:00 O-181 A holistic approach to evaluating forward osmosis - reverse osmosis (FO-RO) hybrid systems for simultaneous water reuse and resource recovery

Rajashree YALAMANCHILI, University of Girona, Girona, SPAIN

Co-authors: Juan Pablo ROJAS TRIGO ⁽¹⁾; Ignasi RODRIGUEZ-RODA ⁽¹⁾; Gaëtan BLANDIN ⁽¹⁾

Affiliations: 1 : University of Girona, GIRONA, SPAIN

10:20 O-182 Choice of media for biofilters: importance of their characteristics for long-term performance control in wastewater treatment

Sylvie BAIG, Suez International, Paris La Défense

Co-authors: Gilles HÉBRARD ⁽²⁾; Dominique BASTOUL ⁽²⁾; Juan MALDONADO ⁽²⁾; Béatrice FOURNIER ⁽¹⁾; Cécile BOURDON ⁽¹⁾; Adriana GONZALEZ OSPINA ⁽¹⁾

Affiliations: 1 : Suez International, Paris La Défense, FRANCE ; 2 : Toulouse Biotechnology Institute (TBI), Université de Toulouse, CNRS, INRAE, INSA, Toulouse, FRANCE

10:40 O-182bis Biomass harvesting efficiency by rotating membrane in revolving algal biofilm system under different conditions

Thi-Dieu-Hien VO, Nguyen Tat Thanh University, Ho Chi Minh, VIETNAM

Co-authors: Van-Truc NGUYEN ⁽²⁾; Thi-Ngoc-Chau LE ⁽¹⁾; Do-Dat HUYNH ⁽¹⁾; Nhu-Trang TRAN-THI ^(1,3); Philippe BEHRA ⁽³⁾; Pierre-Yves PONTALIER ⁽³⁾

Affiliations: 1 : Faculty of Applied Science and Technology, Nguyen Tat Thanh University, Ho Chi Minh, VIETNAM ; 2 : Faculty of Engineering and Technology, Saigon University, Ho Chi Minh, VIETNAM ; 3 : Laboratoire de Chimie Agro-industrielle (LCA), Université de Toulouse, INRAE, Toulouse INP, Toulouse, FRANCE

11:00 O-184 Reuse of treated wastewater for watering green spaces, a credible alternative
Mélanie SOUBEYRAT, SEBICO, Boé

Co-authors: Emma BOISSIÈRE ⁽²⁾; Lucie BÉGUIN ⁽²⁾; Pierre-Colin GERVAIS ⁽¹⁾; Arnaud FERTET ⁽³⁾; Philippe FAUCON ⁽³⁾

Affiliations: 1 : SEBICO, Boé, FRANCE ; 2 : Institut de la Filtration et des Techniques Séparatives, Foulayronnes, FRANCE ; 3 : ARRDHOR - CRITT Horticole, Rochefort, FRANCE

11:20 O-185 Use of Ultrafiltration for Biosecurity in Fish Farming and Environmental Protection for a Blue Transformation of Aquaculture

Tarik ELJADDI, Institut de la Filtration et des Techniques Séparatives (IFTS), Foulayronnes

Co-authors: Vincent EDERY ⁽¹⁾

Affiliations: 1 : Institut de la Filtration et des Techniques Séparatives (IFTS), Foulayronnes, FRANCE

ESPACE PLURIEL

12:00 - 13:30

Lunch

ROOM F

Liquid filtration / Keynote session

13:30 - 14:10

Analytical centrifugation (AC) has a strong cross-discipline impact inclusive of separation and filtration even 100 years after the breakthrough innovation of the ultracentrifuge that led to the Nobel Prize (Svendborg)

Dietmar LERCHE, LUM GmbH, Berlin, GERMANY

ROOM H

Liquid filtration / Keynote session

13:30 - 14:10

Metal Based Ionic Liquid Composites for Acidic Gas Capture

Godwin SEVERA, UNITED STATES



AMPHI A

Gas filtration / Keynote session

13:30 - 14:10

Indoor air quality - a counterpart to energy efficiency and thermal comfort?

Jennifer NIESSNER, Insititute for Flow in Additively Manufactured Porous Media (ISAPS) / Heilbronn University of Applied Sciences, Heilbronn, GERMANY

Co-authors: Simon BERGER ⁽¹⁾; Lukas SPRINGSKLEE ⁽¹⁾

Affiliations: 1 : Institute for Flow in Additively Manufactured Porous Media (ISAPS), Heilbronn University of Applied Sciences, Heilbronn, GERMANY

ROOM D

Gas filtration / Keynote session

13:30 - 14:10

VERT GPF-Retrofit Program for Cleaner Urban Mobility to Reduce Nanoparticle Emissions via Filtration within the HORIZON Europe AeroSolfd Project

Lauretta RUBINO, VERT Association, Niederweningen, SWITZERLAND

Co-authors: Andreas MAYER ⁽¹⁾; Jan CZERWINSKI ⁽¹⁾; Thomas LUTZ ⁽¹⁾; Lars LARSEN ⁽¹⁾

Affiliations: 1 : VERT Association, Niederweningen, SWITZERLAND

AMPHI B

Membrane / Keynote session

13:30 - 14:10

Electrokinetic and electrochemical characterization of porous polymer membranes

Anthony SZYMCZYK, ISCR, Rennes

Co-authors: A. LIZÉE ⁽¹⁾; Z.E. HAMMACHE ⁽¹⁾; P. LOULERGUE ⁽¹⁾; A. PENSEL ⁽¹⁾

Affiliations: 1 : Univ Rennes, CNRS, ISCR (Institut des Sciences Chimiques de Rennes), UMR 6226, Rennes, FRANCE

AMPHI C

Membrane / Keynote session

13:30 - 14:10

Novel membranes based on charged 2D nanomaterials

Emilie ROLLAND, CEA, Orsay

Co-authors: Sarah CHEVRIER ⁽¹⁾; Fabien OLIVIER ^(1,2); Lina CHERNI ⁽¹⁾; Kunli GOH ⁽³⁾; Chong Yang CHUAH ⁽³⁾; Jean-Christophe GABRIEL ^(1,2)

Affiliations: 1 : Université Paris-Saclay, Commissariat à l'Energie Atomique et aux Energies Alternatives, NIMBE, LICSEN, Gif sur Yvette, FRANCE; 2 : Singapore CEA Alliance for Research in Circular Economy, Energy Research Institute @ NTU, Nanyang Technological University, Singapore, SINGAPORE; 3 : Singapore Membrane Technology Centre, Nanyang Environment and Water Research Institute, Nanyang Technological University, Singapore, SINGAPORE

ROOM E

Sustainable development / Keynote session

13:30 - 14:10

Innovative physical pretreatments improve filtration properties of biomass and open the new opportunities for filtration and separation technologies

Eugene VOROBIEV, UTC – Université de technologie de Compiègne, Compiègne

PROGRAM

ROOM F

Liquid filtration / Session

14:20 - 16:00

Advances in Filtration and Separation

- 14:20** O-187 Evaluating the effect of key parameters on cake solids concentration and throughput in High Pressure Dewatering Rolls Mark-II
Sajid HASSAN, The University of Melbourne, Melbourne, AUSTRALIA
Co-authors: Raul CAVALIDA ⁽¹⁾; Nilanka EKANAYAKE ⁽¹⁾; Peter SCALES ⁽¹⁾; Robin BATTERHAM ⁽¹⁾; Anthony STICKLAND ⁽¹⁾
Affiliations: 1 : The University of Melbourne, Melbourne, AUSTRALIA
- 14:40** O-188 Dynamic and continuous sieve filtration of highly viscous suspensions with large solids concentration - Theory and industrial practice
Egon EHRFELD, BOKELA GmbH, Karlsruhe, GERMANY
Co-authors: Timo DOBLER ⁽¹⁾
Affiliations: 1 : BOKELA GmbH, Karlsruhe, GERMANY
- 15:00** O-189 HiBar filter – An optimal solution for challenging filtration tasks?
Timo DOBLER, BOKELA GmbH, Karlsruhe, GERMANY
Co-authors: Egon EHRFELD ⁽¹⁾; Jürgen HAHN ⁽¹⁾
Affiliations: 1 : BOKELA GmbH, Karlsruhe, GERMANY
- 15:20** O-190 Dead-end forward osmosis deep dewatering technology
Da-Qi CAO, Beijing University of Civil Engineering and Architecture, Beijing, CHINA
- 15:40** O-191 Innovative mining process supported by enhanced two stage filtration concept
Christian SCHEIDLE, Lenzing AG - Division Lenzing Filtration, Lenzing, AUSTRIA
Co-authors: Stefan SCHOEPE ⁽¹⁾
Affiliations: 1 : Lenzing AG - Division Lenzing Filtration, Lenzing, AUSTRIA

ROOM H

Liquid filtration / Session

14:20 - 16:00

Depth filtration and Filter aids

- 14:20** O-192 Evaluation of TSS removal from synthetic stormwater using construction and demolition waste fractions as porous media
Nazila BOLOURIEH, Lut University, Lappeenranta, FINLAND
Co-authors: Teemu KINNARINEN ⁽¹⁾
Affiliations: 1 : Lut University, Lappeenranta, FINLAND
- 14:40** O-193 Design and validation of a locally assembled sand filter to remove iron from drinking water in Mali
Tarik ELJADDI, Institut de la Filtration et des Techniques Séparatives (IFTS), Foulayronnes
Co-authors: Antoine Amayoko DOUYON ⁽²⁾; ABDOULAYE DOUCOURE ⁽²⁾; Vincent EDERY ⁽¹⁾; Roger BEN AIM ⁽¹⁾
Affiliations: 1 : Institut de la Filtration et des Techniques Séparatives (IFTS), Foulayronnes, FRANCE; 2 : Donyatek, Bamako, MALI
- 15:00** O-194 Substantial enhancement in suspended particle capture during precoat filtration by modifying the precoat layer with fine bubbles
Masashi IWATA, Sanshin Mfg. Co., Ltd., Inuyama, JAPAN
Co-authors: Kei YAGISHITA ⁽¹⁾; Shuichiro OGURI ⁽¹⁾; Tominori KITAGAWA ⁽¹⁾; Ryosuke OGOMA ⁽¹⁾; Hiroshi YAGISHITA ⁽¹⁾; Koichi YAGISHITA ⁽¹⁾
Affiliations: 1 : Sanshin Mfg. Co., Ltd., Inuyama, JAPAN
- 15:20** O-195 Cycle Rate Analysis Method for Optimizing Filter Aid Selection
Wenping LI, Agrilectric Research Company, Lake Charles, UNITED STATES

AMPHI A

Gas filtration / Session

14:20 - 16:00

HVAC systems

- 14:20** O-197 Enhancement of design and performances of droplet separators for air handling units
Alain GINESTET, CETIAT, Villeurbanne
Co-authors: Mirela ROBITU ⁽¹⁾ ; Hervé BINGAN ⁽¹⁾
Affiliations: 1 : CETIAT, Villeurbanne, FRANCE
- 14:40** O-198 Could general ventilation filters be used as acoustic silencers?
Alain GINESTET, CETIAT, Villeurbanne
Co-authors: Francois BESSAC ⁽¹⁾ ; Francois-Xavier BECOT ⁽²⁾ ; Fabien CHEVILLOTTE ⁽²⁾
Affiliations: 1 : CETIAT, Villeurbanne, FRANCE ; 2 : MATELYS Lab., Vaulx-en-Velin, FRANCE
- 15:00** O-199 Gas Adsorption Test of HVAC Filter according to ISO 10121
Christian PETERS, Topas GmbH, Dresden, GERMANY
Co-authors: Schuetz SVEN ⁽¹⁾ ; Paul SCHUMACHER ⁽¹⁾ ; Daniel GOEHLER ⁽¹⁾ ; Jonas LANDGRAF ⁽¹⁾ ; Thomas EIPPER ⁽¹⁾ ; Sebastian KOST ⁽¹⁾ ; René ADAM ⁽¹⁾
Affiliations: 1 : Topas GmbH, Dresden, GERMANY
- 15:20** O-200 Development of synthetic multilayer filter media with high performance and enhanced energy saving
Elise BILLOD, Ahlstrom, Pont-Evêque
Co-authors: Stephanie PIGEOT-RÉMY ⁽¹⁾
Affiliations: 1 : Ahlstrom Specialties, Pont-Evêque, FRANCE
- 15:40** O-201 3D composites for more sustainable HVAC systems
Ingrid RÜCKERT, Hollingsworth & Vose, Bad Vilbel, GERMANY
Co-authors: Andrew WILLIS ⁽²⁾
Affiliations: 1 : Hollingsworth & Vose, Bad Vilbel, GERMANY ; 2 : Hollingsworth & Vose, East Walpole, UNITED STATES

PROGRAM

ROOM D

Gas filtration / Session

14:20 - 16:00

Material and sensor

14:20 O-202 Breakthrough sensor for adsorption filters

Martin LAUER, Institute of Air Handling and Refrigeration (ILK) Dresden, Dresden, GERMANY

Co-authors: Daniel KOCHALE ⁽¹⁾; Alexander TÜRKE ⁽¹⁾

Affiliations: 1 : Institute of Air Handling and Refrigeration (ILK) Dresden, Dresden, GERMANY

14:40 O-203 Development and advanced characterization of a biobased media for air filtration
Félicie THERON, IMT Atlantique, Nantes

Co-authors: Emeline LOBRY ⁽²⁾; Jérémie VIGUIÉ ⁽³⁾; Géraldine LAYRAC ⁽²⁾; Elisabeth LYS ⁽¹⁾; Anne HÉBRAUD ⁽²⁾; Guy SCHLATTER ⁽²⁾; Evelyne MAURET ⁽³⁾

Affiliations: 1 : IMT Atlantique, Nantes, FRANCE ; 2 : ICPEES, Strasbourg, FRANCE ; 3 : LGP2, Grenoble, FRANCE

15:00 O-204 More accurate measurements of the most penetrating particle size using aerosols classified by aerodynamic diameter

Simon PAYNE, Cambustion Ltd, Cambridge, UNITED KINGDOM

Co-authors: Jonathan SYMONDS ⁽¹⁾

Affiliations: 1 : Cambustion Ltd, Cambridge, UNITED KINGDOM

15:20 O-205 Characterising dynamic filter removal efficiency of volatiles in real-time

Y Lan PHAM, Fraunhofer Institute for Process Engineering and Packaging IVV, Freising, GERMANY

Co-authors: Jonathan BEAUCHAMP ⁽¹⁾

Affiliations: 1 : Fraunhofer Institute for Process Engineering and Packaging IVV, Freising, GERMANY

15:40 O-206 Integration of monitoring system onto air particle filter

Alexandre KHALDI, IMT Atlantique, Plouzané

Co-authors: Hankai WU ^(1,3); Laurent DUPONT ⁽¹⁾; Fabrice SEGUIN ^(1,3); Cyril LAHUEC ^(1,3); Ala

BOUHANGUEL ⁽²⁾; Félicie THÉRON ⁽²⁾; Aurélie JOUBERT ⁽²⁾; David KERNEIS ⁽⁵⁾; Michel DUCLOS ⁽⁴⁾

Affiliations: 1 : IMT Atlantique, Optics department, Plouzané, FRANCE ; 2 : IMT Atlantique, GEPEA, CNRS UMR 6144, Nantes, FRANCE ; 3 : Lab-Sticc, UMR6285, IMT Atlantique, BREST, FRANCE ; 4 : Groupe Titanair, Rillieux la Pape, FRANCE ; 5 : ETT, Ploudalmézeau, FRANCE



AMPHI B

Membrane / Session

14:20 - 16:00

Fundamentals, modeling and simulation

14:20 O-207 Sustainable Ingredient Innovation with membrane process modeling – application to nanofiltration and reverse osmosis

Baptiste BOIT, Roquette Freres, La Gorgue

Co-authors: Vincent COURBOIS ⁽¹⁾

Affiliations: 1 : Roquette Freres, La Gorgue, FRANCE

14:40 O-208 Coupling Process Systems Engineering with Life Cycle Assessment for Sustainable Ultrafiltration

Maher HATOUM, INP-ENSIACET, Toulouse

Co-authors: Jean François FABRE ⁽¹⁾ ; Joel ALBET ⁽¹⁾ ; Claire VIALLE ⁽¹⁾ ; Caroline SABLAYROLLES ⁽¹⁾ ; Pierre Yves PONTALIER ⁽¹⁾

Affiliations: 1 : INP-ENSIACET, Toulouse, FRANCE

15:00 O-209 Direct contact membrane distillation module design for external heat recovery
Cejna

Anna QUIST-JENSEN, Aalborg University, Aalborg East, DENMARK

Co-authors: Hussein Fairousha SULAIMAN ⁽¹⁾ ; Cejna Anna QUIST-JENSEN ⁽¹⁾

Affiliations: 1 : Aalborg University, Aalborg, DENMARK

15:20 O-210 Electrokinetic measurements as a new tool to characterize membrane wetting
Agathe LIZÉE, Institut des Sciences Chimiques de Rennes (ISCR), Rennes

Co-authors: Patrick LOULERGUE ⁽¹⁾ ; Anthony SZYMCHYK ⁽¹⁾

Affiliations: 1 : Univ Rennes, CNRS, ISCR - UMR 6226, Rennes, FRANCE

15:40 O-211 Optimization of concentration-fractionation via membrane filtration: equations vs. reality

Maksym LOGINOV, INRAE, Rennes

Co-authors: Geneviève GESAN-GUIZIOU ⁽¹⁾ ; Juliette CANY ⁽¹⁾ ; Mariana BRAUSE CORREA ⁽¹⁾ ; Nadine LECONTE ⁽¹⁾ ; Fabienne GARNIER-LAMBROUIN ⁽¹⁾ ; Ibra SALL ⁽¹⁾ ; Claire FARGUES ⁽¹⁾ ; Hedi ROMDHANA ⁽¹⁾ ; Violaine ATHES-DUTOUR ⁽¹⁾

Affiliations: 1 : INRAE, Rennes, FRANCE

PROGRAM

AMPHI C

Membrane / Session

14:20 - 16:00

Membrane formation / structure

14:20 O-212 Preparation of ceramic flat membrane from the local kaolin intended for the filtration application

Fatima Zohra EL BERRICHI, Université 8 Mai 1945., Guelma, ALGERIA

Co-authors: Imane ABBOU ⁽¹⁾ ; Zouhair SALAH ⁽²⁾ ; Jamila BAHROUNI ^(2,3) ; Feryelle AOUAY ^(2,4) ; Afef ATTIA ⁽²⁾ ; Raja BEN AMAR ⁽²⁾ ; Esma CHOUKCHOU-BRAHAM ⁽¹⁾

Affiliations: 1 : Laboratory of Toxicomed, University Abou Beker Belkaid Tlemcen, BP119, 13000 Tlemcen, Algeria, Tlemcen, ALGERIA ; 2 : Research unit «Advanced Technologies for Environment and Smart cities», Faculty of Science of Sfax, University of Sfax, Sfax 3000, Tunisia, Sfax, TUNISIA ; 3 : Institut de Chimie et des Matériaux Paris-Est (ICMPE), Université Paris-Est Créteil (UPEC), UMR 7182, CNRS, 2-8 rue Henri Dunant, Thiais 94320, France, Paris, FRANCE ; 4 : Institut Européen des Membranes, IEM UMR-5635, CNRS, ENSCM, University Montpellier, Place Eugène Bataillon, 34095 Montpellier, France, Montpellier, FRANCE

14:40 O-214 Development of a Three-Stage Filtration System Using Tailored Phase-Inversion Membranes from a Single Casting Solution

Irish Valerie MAGGAY, Chung Yuan Christian University, Zhongli, TAIWAN

Co-authors: Antoine VENAULT ⁽¹⁾ ; Yung CHANG ⁽¹⁾

Affiliations: 1 : Chung Yuan Christian University, Zhongli, TAIWAN

15:00 O-215 Fabrication of a Cost-Effective Crosslinked and Intercalated rGO-Based Membrane for Efficient Dye Removal

Saad ALAMI YOUNSSI, University Hassan II of Casablanca, Mohammedia, MOROCCO

Co-authors: Youness KOUZI ^(1,2) ; Dounia BEQQOUR ⁽¹⁾ ; Murielle RABILLER-BAUDRY ⁽²⁾

Affiliations: 1 : University Hassan II of Casablanca, Mohammedia, MOROCCO ; 2 : Université de Rennes, Rennes, FRANCE

15:20 O-216 Comparative Study of Activation Methods to Enhance the Stability and Efficiency of Graphene Oxide Membranes on Low-Cost Silica-Rich Supports

Youness KOUZI, University Hassan II of Casablanca, Casablanca, MOROCCO

Co-authors: Brahim ACHIOU ⁽¹⁾ ; Saad ALAMI YOUNSSI ⁽¹⁾ ; Murielle RABILLER-BAUDRY ⁽²⁾

Affiliations: 1 : University Hassan II of Casablanca, Casablanca, MOROCCO ; 2 : Université de Rennes, Rennes, FRANCE



ROOM E

Sustainable development / Session

14:20 - 16:00

Pretreatment

14:20 O-217 Dewatering properties of disrupted sludge through ultrasonication and re-flocculation

Juya AZADI, Meijo University, Nagoya, JAPAN

Co-authors: Tensei TAKEYA ⁽¹⁾; Nobuyuki KATAGIRI ⁽¹⁾

Affiliations: 1 : Meijo University, Nagoya, JAPAN

14:40 O-218 Impact of polymer dosing modes on sludge conditioning and dewatering
Karim MEZIANI, Centre des technologies de l'eau - Cteau, Laval, CANADA

Co-authors: Dongocie TRAORE ⁽¹⁾; Driss BARRAOUI ⁽¹⁾; Karen MESTA ⁽¹⁾; Nathan LEHOUX ⁽²⁾

Affiliations: 1 : CTEAU, Laval, CANADA ; 2 : Groupe Industries Fournier Inc, Thetford Mines, CANADA

15:00 O-219 Hybrid process for treating textile dyeing wastewater by coupling Coagulation-Flocculation, Adsorption and Fenton oxidation

Fatima Zohra EL BERRICHI, Université 8 Mai 1945., Guelma, ALGERIA

Co-authors: Ibtissem SLATNI ⁽¹⁾; Nor El Houda FARDJAOUI ⁽¹⁾; Hamza SAKHRI ⁽¹⁾; Malika GHAZI ⁽³⁾; Joelle DUPLAY ⁽⁴⁾; Feryal IKABL ⁽⁵⁾

Affiliations: 1 : Laboratoire de Genie civil et d'hydraulique, Université 8 Mai 1945, Guelma, ALGERIA ; 2 : Ecole Nationale Supérieure de Technologie et de l'Ingénierie, Annaba, ALGERIA ; 3 : TERIVA Environment, Strasbourg, FRANCE ; 4 : Institut Terre et Environnement Strasbourg (ITES) - UMR 7063 - Ecole et Observatoire des Sciences de la terre (EOST), Strasbourg, FRANCE ; 5 : Department of Environmental Engineering, Ondokuz Mayıs Üniversitesi, Samsun, TURKEY

15:20 O-220 Using raw and modified chitosan as an alternative of petrosourced flocculents for digested sludges thickening and dewatering

Pascal GINISTY, IFTS, Foulayronnes

Co-authors: Vincent RODRIGUEZ ⁽²⁾; Danielle SLOMBERG ⁽³⁾; Jerome LABILLE ⁽³⁾; Soline LEBRE ⁽⁴⁾; Hélène CARRERE ⁽⁴⁾; Audrey BATTIMELLI ⁽⁴⁾; Ghislain DAVID ⁽⁵⁾; Claire NEGRELL ⁽⁵⁾; Christelle WISNIEWSKI ⁽⁶⁾

Affiliations: 1 : IFTS, Foulayronnes, FRANCE ; 2 : CEA Cadarache, Bagnols sur Ceze, FRANCE ; 3 : CEREGE, Aix en provence, FRANCE ; 4 : INRAE LBE, Narbonne, FRANCE ; 5 : institut Charles Gerhard Ecole Nationale supérieure de Chimie de Montpellier, Montpellier, FRANCE ; 6 : QualiSud CIRAD Université2 Montpellier, Montpellier, FRANCE

15:40 O-221 Towards nature-based solutions in waste water treatment: role of biopolymer properties in coagulation-flocculation and removal of suspended mineral matter

Danielle SLOMBERG, CEREGE/Aix-Marseille University, Aix-En-Provence

Co-authors: Wala ZOGLAMI ^(1,2); Jérôme LABILLE ⁽¹⁾; Pascal GINISTY ⁽³⁾; Armand MASION ⁽¹⁾; Nicolas ROCHE ^(1,4)

Affiliations: 1 : CEREGE/Aix-Marseille University, Aix-en-Provence, FRANCE ; 2 : UMET/Lille University, Villeneuve d'Ascq, FRANCE ; 3 : IFTS, Foulayronnes, FRANCE ; 4 : IWRI/Mohammed VI Polytechnic University, Ben Guerir , MOROCCO

PROGRAM

ESPACE PLURIEL

16:00 - 16:30 **Coffee break - Visit the exhibition and the poster area**

ROOM F

Liquid filtration / Session

16:30 - 17:30 **Filtration/Separation Applications 1**

16:30 O-222 AGXX - an innovative technology to prevent microbial contamination in water and air filtration

Oliver ASMUS, Heraeus Precious Metals GmbH & Co. KG, Hanau, GERMANY

Co-authors: Tobias SCHWOB ⁽¹⁾; Martin DANZ ⁽¹⁾; Christian CIEMER ⁽¹⁾

Affiliations: 1 : Heraeus Precious Metals GmbH & Co. KG, Hanau, GERMANY

16:50 O-223 Novel Approach to Water Treatment Utilizing Nanoparticle Slurry and DC Electric Field

Kenta KITAMURA, Hosei University, Koganei City, JAPAN

Co-authors: Takamasa MORI ⁽¹⁾

Affiliations: 1 : Hosei University, Koganei city, JAPAN

17:10 O-224 Impact of Surfactants on Water Droplet Capture and Coalescence by Single Fibers in Diesel

Yun LIANG, South China University of Technology, Guangzhou, CHINA

Co-authors: Qiang SONG ⁽¹⁾; Jian HU ⁽¹⁾; Xinyu WANG ⁽¹⁾

Affiliations: 1 : South China University of Technology, Guangzhou, CHINA

ROOM H

Membrane / Session

16:30 - 17:30 **Membrane applications**

16:30 O-225 Preparations and characterizations of low-cost porous ceramic membranes
Jang-Hoon HA, Korea Institute of Materials Science, Changwon, REPUBLIC OF KOREA

Co-authors: Hong-Joo LEE ⁽¹⁾; Jongman LEE ⁽¹⁾; In-Hyuck SONG ⁽¹⁾

Affiliations: 1 : Korea Institute of Materials Science, Changwon, REPUBLIC OF KOREA

16:50 O-226 High-Performance MoS₂ Nanofiltration Membrane for Dye Separation: Experimental and Modeling Analysis

Zakarya CHAFIQ ELIDRISSI, University of Lorraine and University of Hassan II Casablanca, Nancy

Co-authors: Brahim ACHIOU ⁽¹⁾; Sabine RODE ⁽¹⁾; Bouchra BELAISSAOUI ⁽¹⁾; Saad ALAMI YOUNSSI ⁽²⁾; Mohamed OUAMMOU ⁽²⁾

Affiliations: 1 : University of Lorraine, Nancy, FRANCE ; 2 : University of Hassan II, Casablanca, MOROCCO



AMPHI A

Gas filtration / Session

16:30 - 17:30

Personal protective equipment

- 16:30** O-228 Efficiency of Powered Air-Purifying Respirators in simulated wearing conditions
Sandrine CHAZELET, INRS, Vandoeuvre-Les-Nancy
Co-authors: Jean-Christophe APPERT-COLLIN ⁽²⁾; Stéphanie PACAULT ⁽¹⁾
Affiliations: 1 : INRS, Vandoeuvre-les-Nancy, FRANCE ; 2 : Laboratoire Réactions et Génie des Procédés, CNRS UMR 7274, Nancy, FRANCE
- 16:50** O-230 Ultrathin transparent PTFE membrane prepared by mechanical exfoliation for efficient air aerosol filtration
Yuxin ZHAO, Nanjing Tech University, Nanjing, CHINA
Co-authors: Shasha FENG ⁽¹⁾; Yutang KANG ⁽¹⁾; Zhaoxiang ZHONG ^(1,2,3); Weihong XING ^(1,3,4)
Affiliations: 1 : State Key Laboratory of Materials-Oriented Chemical Engineering, National Engineering Research Center for Special Separation Membrane, Nanjing Tech University, Nanjing, CHINA ; 2 : School of Environmental Science and Engineering, Nanjing Tech University, Nanjing, CHINA ; 3 : Suzhou Laboratory, Suzhou, CHINA ; 4 : Jiangsu University, Zhenjiang, CHINA
- 17:10** O-230bis Respiratory Masks: New Developments, Opportunities, and Trends
Mohammad Mehdi SHIRMOHAMMADI, Ambassador, World Filtration Institute (WFI); R&D Director, Termeh Co., Dubai, UNITED ARAB EMIRATES

ROOM D

Gas filtration / Session

16:30 - 17:30

Comparison methods

- 16:30** O-231 Comparison of performance evaluation methods for air cleaners
Chih-Chieh CHEN, National Taiwan University, Taipei, TAIWAN
Co-authors: Yu-Mei KUO ⁽²⁾; Hui-Jing LI ⁽¹⁾; Pei-Yao TSAI ⁽¹⁾; Ruei-Chun LIN ⁽¹⁾; Sheng-Hsiu HUANG ⁽¹⁾; Chih-Wei LIN ⁽¹⁾
Affiliations: 1 : National Taiwan University, Taipei, TAIWAN ; 2 : Chung Hwa University of Medical Technology, Tainan, TAIWAN
- 16:50** O-232 Effect of the competitive gases in the performance evaluation for Gas-phase air cleaning devices (GPACD)
Xin FENG, China Academy of Building Research, Beijing, CHINA
Co-authors: shaoyang ZHOU ⁽¹⁾; Bin LU ⁽¹⁾; yanguo ZHANG ⁽¹⁾; Hui ZHANG ⁽¹⁾; Ang LI ⁽²⁾
Affiliations: 1 : China Academy of Building Research, Beijing, CHINA ; 2 : China National Accreditation Service for Conformity Assessment, Beijing, CHINA
- 17:10** O-233 Influence of test parameters to the comparability of test results of air filter elements
Martin SCHMIDT, Palas GmbH, Karlsruhe, GERMANY

PROGRAM

AMPHI B

Membrane / Session

16:30 - 17:30

Membrane fouling / regeneration

16:30 O-234 Cross-membrane sensing of milk fouling on an immersed flat sheet module by measuring thermal conductivity in real time

Louise MIKKELSEN, Center for Membrane Technology, Aalborg, DENMARK

Co-authors: Ben KRØYER ⁽²⁾; Simon JENSEN ⁽²⁾; Carsten KALLESØE ⁽²⁾; Jan BENDTSEN ⁽²⁾; Morten CHRISTENSEN ⁽¹⁾; Mads JØRGENSEN ⁽¹⁾

Affiliations: 1 : Center for Membrane Technology, Aalborg, DENMARK ; 2 : Department of Electronic Systems, Aalborg, DENMARK

16:50 O-235 Probing the fouling induced by biomolecules of a polymer microfiltration membrane using 3D cryo-FIB/SEM

Estelle COUALLIER, CNRS, Saint-Nazaire

Co-authors: Hélène ROBERGE ^(1,2); Philippe MOREAU ⁽²⁾; Patricia ABELLAN ⁽²⁾

Affiliations: 1 : CNRS- Nantes University - GEPEA, Saint-Nazaire, FRANCE ; 2 : Nantes Université, CNRS, Institut des Matériaux de Nantes Jean Rouxel, IMN, Nantes, FRANCE

17:10 O-236 Enzymatic detergents vs alkaline detergents: which are better for cleaning PES/PVP ultrafiltration membranes fouled by skim milk?

Murielle RABILLER-BAUDRY, Université de Rennes, Rennes

Co-authors: Sophie KAVUGHO MISSION ⁽¹⁾; Lucie LE PETIT ⁽¹⁾; Sara EL MORR ⁽¹⁾; Anna PRUDHOMME ⁽¹⁾

Affiliations: 1 : Univ Rennes, CNRS, ISCR (Institut des Sciences Chimiques de Rennes) - UMR 6226, Rennes, FRANCE

AMPHI C

Membrane / Session

16:30 - 17:30

Membrane formation / structure

16:30 O-237 3D Printed TPMS-Structured Ceramic Membranes for High-Temperature Industrial Exhaust Filtration

Yuanhui GAO, Nanjing Tech, Nanjing, China, CHINA

Co-authors: Ze-Xian LOW ⁽¹⁾; Dong ZOU ⁽²⁾; Zhaoxiang ZHONG ^(1,2,3); Weihong XING ^(1,3,4)

Affiliations: 1 : State Key Laboratory of Materials-Oriented Chemical Engineering, National Engineering Research Center for Special Separation Membrane, Nanjing Tech University, Nanjing, 211816, China, Nanjing, China, CHINA ; 2 : School of Environmental Science and Engineering, Nanjing Tech University, Nanjing 211816, China, Nanjing, China, CHINA ; 3 : Suzhou Laboratory, Suzhou, 215125, China, Suzhou, China, CHINA ; 4 : Jiangsu University, Zhenjiang, 212013, China, Zhenjiang, China, CHINA

16:50 O-238 Auxetic highly stretchable all-ceramic nanofibrous membranes for high-temperature industrial emission filtration

Wentai HE, Nanjing Tech University, Nanjing, CHINA

Co-authors: Yiqing ZENG ⁽²⁾; Yutang KANG ⁽²⁾; Shasha FENG ⁽¹⁾; Ze-Xian LOW ⁽¹⁾; Zhaoxiang ZHONG ^(1,2,3); Weihong XING ^(1,3,4)

Affiliations: 1 : State Key Laboratory of Materials-Oriented Chemical Engineering, National Engineering Research Center for Special Separation Membrane, Nanjing Tech University, Nanjing, CHINA ; 2 : School of Environmental Science and Engineering, Nanjing Tech University, Nanjing, CHINA ; 3 : Suzhou Laboratory, Suzhou, CHINA ; 4 : Jiangsu University, Zhenjiang, CHINA

17:10 O-239 Development and selective adsorption characteristics of molecular imprinted Chitosan composite membrane

Ying FENG, Shen Yang University of Chemical Technology, Shen Yang, CHINA

Co-authors: Jianwei ZHANG ⁽¹⁾; zhuo WANG ⁽¹⁾; YUju XIE ⁽¹⁾; xin DONG ⁽¹⁾

Affiliations: 1 : Shenyang University of Chemical Technology, Shen Yang, CHINA



ROOM E

Sustainable development / Session

16:30 - 17:30

BioPolymer

16:30 O-241 Enhanced treatment of olive mill wastewater using infiltration-percolation with low-cost adsorbents

Soufiane BAKRI ALAOUI, École de biologie industrielle, Cergy

Co-authors: Mounia ACHAK ^(3,4); Edvina LAMY ⁽²⁾; Imane MAGDI ⁽²⁾; Rabah AZOUANI ⁽¹⁾

Affiliations: 1 : École de Biologie Industrielle, CERGY, FRANCE ; 2 : University of Technology of Compiègne, Compiègne, FRANCE ; 3 : National School of Applied Science, El Jadida, MOROCCO ; 4 : University Mohammed VI Polytechnic, Bengurire, MOROCCO

16:50 O-266bis Forward osmosis to concentrate blood platelets : optimising process conditions

Aka DOCHE, Laboratoire de Génie Chimique, Toulouse

Co-authors: Christel CAUSSERAND ⁽¹⁾; Yannick HALLEZ ⁽¹⁾; Pierre ROBLIN ⁽¹⁾; Antoine VENAULT ⁽²⁾; Chung-Jung CHOU ⁽²⁾; Yung CHANG ⁽²⁾; Patrice BACCHIN ⁽¹⁾

Affiliations: 1 : Laboratoire de Génie Chimique, Université de Toulouse, CNRS, INPT, UPS, Toulouse, FRANCE ; 2 : R&D Center for Membrane Technology and Department of Chemical Engineering, Chung Yuan Christian University, Taoyuan, TAIWAN

ROOM F

Liquid filtration / Poster presentation

17:30 - 18:15

17:30 P-10 CFD-DEM simulation of micro-mechanisms between particles and filter medium by solid-liquid separation

Nikolai BENZ, University of Kaiserslautern-Landau, Kaiserslautern, GERMANY

Co-authors: Vanessa PUDERBACH ⁽²⁾; Kilian SCHMIDT ⁽²⁾; Sergiy ANTONYUK ⁽¹⁾

Affiliations: 1 : University of Kaiserslautern-Landau, Kaiserslautern, GERMANY ; 2 : IT for Engineering GmbH, Kaiserslautern, GERMANY

17:40 P-06 Effect of Different Filter Materials on Filtration Process of Polymer Flooding Produced Water: A Numerical Simulation Study

Lin LIU, Northeast Petroleum University, Daqing, CHINA

17:50 P-39bis Reverse osmosis membranes coated with silk-derived materials to enhance anti-scaling and storage stability via a waste-to-resource approach

Jaewoo LEE, Jeonbuk National University, Jeonju, REPUBLIC OF KOREA

Co-authors: Yonghee JUNG ⁽¹⁾

Affiliations: 1 : Jeonbuk National University, Jeonju, REPUBLIC OF KOREA

PROGRAM

ROOM H

Membrane / Poster presentation

17:30 - 18:15

- 17:30** P-27 Sandfilter Backwash Water Treatment - Piloting at a municipal German freshwater producer
Timo ROTHAUSEN, Boll & Kirch Filterbau GmbH, Kerpen, GERMANY
Co-authors: Pranav SHARMA ⁽¹⁾; Antonio VINCIGUERRA ⁽²⁾
Affiliations: 1 : Boll & Kirch Filterbau GmbH, Kerpen, GERMANY ; 2 : APATEQ - PWT S.A., Luxembourg, LUXEMBOURG
- 17:40** P-38 Are membrane cascades an efficient tool for the enhancement of RO desalination performances either for brackish or seawaters ?
Youness KOUZI, University Hassan II of Casablanca, Casablanca, MOROCCO
Co-authors: Fatima Zohra CHARIK ^(1,2); Saad ALAMI YOUNSSI ⁽²⁾; Murielle RABILLER-BAUDRY ⁽¹⁾
Affiliations: 1 : Univ Rennes, CNRS, ISCR (Institut des Sciences Chimiques de Rennes) - UMR 6226, F-35000, Rennes, FRANCE ; 2 : Laboratory of Materials, Membranes and Environment, Faculty of Sciences and Technologies of Mohammedia, University Hassan II of Casablanca, Casablanca, MOROCCO
- 17:50** P-29 Evaluation of chemical and mechanical resistance of FO and RO dense membranes for improved lifetime and recycling
Gaetan BLANDIN, University of Girona, Girona, SPAIN
Co-authors: Bianca ZAPPULLA SABIO ⁽¹⁾; Anaëlle POUPLIN ⁽¹⁾
Affiliations: 1 : University of Girona, Girona, SPAIN
- 18:00** P-41 High-purity water recovery from industrial effluents using membrane distillation
Cejna Anna QUIST-JENSEN, Aalborg University, Aalborg East, DENMARK
Co-authors: Hussein FAIROUSHA SULAIMAN ⁽²⁾; Cejna Anna QUIST-JENSEN ⁽¹⁾
Affiliations: 1 : Department of Chemistry and Bioscience, Aalborg University, Aalborg, DENMARK ; 2 : AAU Energy, Aalborg University, Aalborg, DENMARK

AMPHI A

Gas filtration / Poster presentation

17:30 - 18:15

- 17:30** P-11 A microwave sensor for droplet contents measurement in high-pressure natural gas pipelines
Junxian CHEN, China University of Petroleum, Beijing, Beijing, CHINA
Co-authors: Zhongli JI ⁽¹⁾; Ao LI ⁽¹⁾; Zhen LIU ⁽¹⁾; Tianyu ZHANG ⁽¹⁾
Affiliations: 1 : China University of Petroleum, Beijing, Beijing, CHINA
- 17:40** P-17 Approach for dimensioning a lab-scale wet scrubber for analysis of gas-particle-droplet interactions
God JEAN, IMT Atlantique, Nantes
Co-authors: Ala BOUHANGUEL ⁽¹⁾; Elisabeth LYS ⁽¹⁾; Marc HENRY ⁽²⁾; Aurelie JOUBERT ⁽¹⁾
Affiliations: 1 : IMT Atlantique, Nantes, FRANCE ; 2 : Séché Environnement, Saint-Vulbas, FRANCE
- 17:50** P-18 Integrated application of cyclone separation and deep filtration in natural gas defoaming
Deli LIU, Shanghai Research Institute of Chemical Industry Co., LTD, Shanghai, CHINA
Co-authors: Yayun LU ⁽¹⁾; Jia XIE ⁽¹⁾
Affiliations: 1 : Shanghai Research Institute of Chemical Industry Co., LTD, shanghai, CHINA



ROOM D

Membrane / Poster presentation

17:30 - 18:15

17:30 P-34 Reverse Osmosis and Scientific Issues for Seawater Desalination in West Africa - Osmose Inverse et Enjeux Scientifiques pour le Dessalement de l'Eau de Mer en Afrique de l'Ouest

Courfia DIAWARA, université Assane Seck, Ziguinchor, SENEGAL

Co-authors: Saidou Nourou DIOP ⁽¹⁾ ; Mouhamadou Abdoulaye DIALLO ⁽²⁾ ; Vanessa Millan GABET ⁽³⁾ ; Javier Acerete NAVARRO ⁽³⁾ ; Baltasar Penate SUAREZ ⁽³⁾

Affiliations: 1 : Université Assane Seck, Ziguinchor, SENEGAL ; 2 : Université Cheikh Anta Diop, Dakar, SENEGAL ; 3 : Instituto Tecnológica De Canarias, Canarias, SPAIN

17:40 P-40 Contribution to the Surface Water Quality Assessment: A Case Study of the Microfiltration and Reverse Osmosis Systems applied to the Kivu Lake Water In The Province Of South Kivu In DR Congo.

Soumana GAGARA, United Nations Support Office in Somalia, Mogadishu, SOMALIA

AMPHI B

Membrane / Poster presentation

17:30 - 18:15

17:30 P-25 Next level optimization of your Dynamic Crossflow Filter (DCF) performance with digital twins

Maximilian AMTHOR-STAHN, Andritz Separation GmbH, Vierkirchen, GERMANY

Co-authors: Joel RAUHUT ⁽¹⁾

Affiliations: 1 : Andritz Separation GmbH, Vierkirchen, GERMANY

AMPHI C

Membrane / Poster presentation

17:30 - 18:15

17:30 P-24 A study on the feasibility of hemodialysis application through lab-scale hemodialyzer made of ceramic hollow fiber membranes by removing uremic toxins

Jae Yeon HWANG, Dongguk University, Seoul, REPUBLIC OF KOREA

Co-authors: JUNGHOON PARK ⁽¹⁾

Affiliations: 1 : Dongguk University, SEOUL, REPUBLIC OF KOREA

17:40 P-41bis Dead-End Ultrafiltration of Sugar Beet Juice Extracted from Cold Electrically Pre-Treated Slices: Influence of Membrane Polymer on Fouling Mechanisms and Permeate Quality

Houcine MHEMDI, ESCOM/UTC, Compiègne, Compiègne

Co-authors: Zhu ZHENZHOU ⁽²⁾ ; Eugène VOROBIEV ⁽¹⁾

Affiliations: 1 : EA 4297 TIMR (UTC/ESCOM), Université de Technologie de Compiègne, Centre de Recherche de Royallieu, B.P. 20529-60205 Compiègne Cedex, France, Compiègne, FRANCE ; 2 : School of Food Science and Engineering, Wuhan Polytechnic University, Wuhan 430023, China, Wuhan, CHINA

17:50 P-42bis High-performance MoS₂-based composite membrane for efficient dye removal: Experimental and theoretical analysis

Zakarya CHAFIQ ELIDRISSI, University of Lorraine and University of Hassan II Casablanca, Nancy

Co-authors: Brahim ACHIOU ⁽²⁾ ; Sabine RODE ⁽¹⁾ ; Saad ALAMI YOUNSSI ⁽²⁾ ; Bouchra BELAÏSSAOUI ⁽¹⁾ ; Mohamed OUAMMOU ⁽²⁾

Affiliations: 1 : University of Lorraine, Nancy, FRANCE ; 2 : University of Hassan II Casablanca, Casablanca, MOROCCO

PROGRAM

ROOM E

Sustainable development / Poster presentation

17:30 - 18:15

- 17:30** P-28 Mamb'Eaux Project Assessment of the life span of membranes in an MBR for the treatment of urban and industrial wastewater
Christel CAUSSERAND, University of Toulouse FRANCE, Toulouse
Co-authors: Sabrina GUERIN ⁽²⁾; Amar NAJI ⁽²⁾; Yannick FAYOLLE ⁽³⁾; Pascal GINISTY ⁽⁴⁾
Affiliations: 1 : Laboratoire de Génie Chimique, University of Toulouse, CNRS, INPT, UPS, TOULOUSE, FRANCE ; 2 : SIAAP Direction Innovation, Colombes, FRANCE ; 3 : Université Paris-Saclay, INRAE, PROSE, Anthony, FRANCE ; 4 : IFTS, Foulayronnes, FRANCE
- 17:40** P-30 Understanding the effect of organic load on aerobic ceramic membrane bioreactor: performance, fouling propensity and machine learning algorithm
Mohamed TAKY, Laboratory of Advanced Materials and Process Engineering, Faculty of Sciences, Ibn Tofail University, Kenitra, MOROCCO
Co-authors: Hafida AYYOUB ⁽¹⁾
Affiliations: 1 : Laboratory of Advanced Materials and Process Engineering, Faculty of Sciences, Ibn Tofail University, P.O. Box 1246, Kenitra, Morocco, kenitra, MOROCCO ; 2 : International Water Research Institute, Mohammed VI Polytechnic University, Lot 660, Hay Moulay Rachid Ben Guerir, 43150 - Morocco, Ben Guerir, MOROCCO
- 17:50** P-46 - Utilization of jenitri as a biosorbent for produced-water in oil fields
Muhammad Khairul AFDHOL, Universitas Islam Riau, Kampar, INDONESIA
Co-Authors : Rika Lala SAPUTRI ⁽¹⁾; Nordin RAZIF MUHAMMED ⁽²⁾; Fiki HIDAYAT ⁽¹⁾; Adiella Zakky JUNEID ⁽³⁾
Affiliations : 1 : Universitas Islam Riau, Pekanbaru, INDONESIA ; 2 : Universiti Teknologi MARA, Perlis, MALAYSIA ; 3 : Universitas Riau, Pekanbaru, INDONESIA

ROOM G

18:15 - 19:15

SF2P meeting (by invitation)

PALAIS DE LA BOURSE

20:00 - 23:00

Gala dinner





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PROGRAM

	ROOM F	ROOM H	AMPHI A	
8:00 - 11:00				
9:00 - 10:00	AMPHI A			
10:00 - 10:30				
	FILTRATION/SEPARATION APPLICATIONS 2	MEMBRANE MATERIALS	NANOFIBERS	
10:30 - 10:50	O-243 Avner ADIN Particle filtration long-term research experience in water reuse	KEYNOTE: Sang Yong NAM Novel Preparation of Enhanced Organic Solvent Nanofiltration Membranes	O-253 Wallace LEUNG Filtering Sars-CoV-2 virus aerosols with electret nanofiber filter	
10:50 - 11:10	O-244 J. MASCARADE. Methodology for the selection and qualification of a solid-liquid separation process for high-level radioactive sludge		O-254 Joan GAO High Performance Nanofiber Media for HVAC and Clean Room Application	
11:10 - 11:30	O-246 Abdoulaye DOUCOURE New trends in biopharmaceutical filtration technologies - What's in it for Africa?	O-250 Nándor NEMESTÓTHY Study of Membrane Gradostate Reactors	O-255 Joshua MANASCO Nanofiber composites for high efficiency air filtration	
11:30 - 11:50		O-251 Hannah Faye AUSTRIA Advanced fouling prevention in self-cleaning piezoelectric PVDF-Graphene membranes for sustainable water purification and resource recovery	O-256 Alessia NICOSIA Electrospinning of cellulose acetate for the production of efficient air-filtering systems	
11:50 - 12:10		O-249 Salaheddine ELMOUTEZ Enhanced Pollutant Removal and Antifouling in AeCMBR Using Bentonite for Pharmaceutical Wastewater	O-257 Mônica AGUIAR Development of High-Efficiency Air Filters from Recycled PET Nanofibers Embedded with Single-Walled Carbon Nanotubes for Nanoparticle Filtration	
12:10 - 12:30	AMPHI A			
14:00 - 18:00				



FRIDAY, 4 JULY 2025

■ Liquid filtration ■ Gas filtration ■ Membrane ■ Sustainable development

	ROOM D	AMPHI B	AMPHI C	ROOM E
Registration and Exhibition open				
Plenary Lecture: Kenneth WINSTON A look at the technology-drivers and projects today, including technologies for reducing and reusing Carbon Dioxide to Green and Renewable Fuels & Chemicals				
Coffee Break - Exhibition - Poster				
	OIL MIST FILTRATION	CASE STUDY	MODULE / PROCESS DESIGN	MICROPOLLUTANT
	O-258 Robin MANDIC Influence of operating conditions on the internal and rear-side drainage behavior in oil mist filters	O-264 Mustapha TAHAIKT Electrodialysis for groundwater defluoridation: Insights into membrane selection and anion competition	O-268 S. Ranil WICKRAMASINGHE Tangential Flow Filtration Using Reverse Asymmetric Membranes for Virus Harvesting	O-273 Cang LI Nano/Microplastics: Small Particles Big Problems
	O-259 Cheng CHANG Filtration performance of surface modified coalescence filters with asymmetric wettability	O-265 Mit Prohim YOU Mitigating membrane fouling in anaerobic membrane bioreactors through minimal-mixing: A sustainable approach for energy efficiency and performance stability	O-269 Murielle RABILLER-BAUDRY Cascades with internal recycling: a tool to enhance membrane separation performances in different industrial sectors	O-274 Mathieu DELAHAYE Optimization of GAC filtration to remove micropollutants in wastewater treatment
	O-260 Yihang DING Preparation and performance optimization of superoleophobic coalescence filter materials	O-266 Lebea NTHUNYA Membrane distillation crystallization towards recovery of fresh water and minerals from acid mine drainage	O-270 David BROKL «Greener» nanofiber membranes from electrospinning	O-275 Dominik HERPER Microplastics from tire wear - Filtration in the field
	O-261 Di WANG Double-gradient Janus filters with oil-guiding layer for enhanced oil aerosol filtration performance	O-267 Vincent BLAZY, Mathilde RAOUL Performance of Reverse Osmosis for the treatment of pretreated hazardous wastewater containing PFAS		O-276 Marc VALAT Cork as a new sustainable solution for micropollutants adsorption in water treatment
				O-277 Daniel RATTINGER Multi-layer composite membranes for selective micropollutant removal
Closing Ceremony				
TECHNICAL TOURS				



PROGRAM

WELCOME AREA

08:00 - 14:00 **Welcome attendees**

AMPHI A

09:00 - 10:00 **Plenary session**

A look at the technology-drivers and projects today, including technologies for reducing and reusing Carbon Dioxide to Green and Renewable Fuels & Chemicals

Kenneth WINSTON, Calgon Carbon Corporation, Pittsburgh, UNITED STATES

ESPACE PLURIEL

10:00 - 10:30 **Coffee break - Visit the exhibition and the poster area**

ROOM F

Liquid filtration / Session

10:30 - 12:10 **Filtration/Separation Applications 2**

10:30 O-243 Particle filtration long-term research experience in water reuse
Avner ADIN, The Hebrew University of Jerusalem, Herzliya, ISRAEL

10:50 O-244 Methodology for the selection and qualification of a solid-liquid separation process for high-level radioactive sludge

Jérémy MASCARADE, Commissariat à l'Énergie Atomique et aux Énergies Alternatives - Centre de Marcoule, Bagnols Sur Cèze

Co-authors: Lucas LIOTAUD ⁽¹⁾

Affiliations: 1 : Commissariat à l'Énergie Atomique et aux Énergies Alternatives - Centre de Marcoule, Bagnols sur Cèze, FRANCE

11:10 O-246 New trends in biopharmaceutical filtration technologies - What's in it for Africa?
Abdoulaye DOUCOURE, African Membrane Society, Roanoke, UNITED STATES

Co-authors: Chimezie ANYAKORA ⁽²⁾

Affiliations: 1 : African Membrane Society, Roanoke, UNITED STATES ; 2 : Pan Atlantic University , Lagos, NIGERIA



ROOM H**Membrane / Session****10:30 - 12:10****Membrane materials**

- 10:30** Keynote lecture - Novel Preparation of Enhanced Organic Solvent Nanofiltration Membranes
Sang Yong NAM, Gyeongsang National University, Jinju-Si, REPUBLIC OF KOREA
- 11:10** O-250 Study of Membrane Gradostate Reactors
Nándor NEMESTÓTHY, University of Pannonia, Veszprem, HUNGARY
Co-authors: Pirooska LAJTAI-SZABÓ ⁽¹⁾; Veronika KALAUZ-SIMON ⁽¹⁾; Péter BAKONYI ⁽¹⁾
Affiliations: 1 : University of Pannonia, Veszprem, HUNGARY
- 11:30** O-251 Advanced fouling prevention in self-cleaning piezoelectric PVDF-Graphene membranes for sustainable water purification and resource recovery
Hannah Faye AUSTRIA, National Taiwan University of Science and Technology, Taipei City, TAIWAN
Co-authors: Rachele SARDOME ⁽²⁾; Owen SETIAWAN ⁽¹⁾; Tsung-Han HUANG ⁽¹⁾; Wen-Ching LEI ⁽¹⁾; Xin-Yuan TIAN ⁽¹⁾; Chien-Chieh HU ⁽¹⁾; Juin-Yih LAI ^(1,3); Wei-Song HUNG ⁽¹⁾
Affiliations: 1 : National Taiwan University of Science and Technology, Taipei City, TAIWAN ; 2 : Mapúa University, Manila, PHILIPPINES ; 3 : Chung Yuan Christian University, Taoyuan, TAIWAN
- 11:50** O-249 Enhanced Pollutant Removal and Antifouling in AeCMBR Using Bentonite for Pharmaceutical Wastewater
Salaheddine ELMOUTEZ, Mohamed VI polytechnic university, Benguerir, MOROCCO
Co-authors: Hafida AYYOUB ⁽²⁾; Mohamed CHAKER NECIBI ⁽¹⁾; Azzedine ELMIDAQUI ⁽¹⁾; Mohamed TAKY ^(1,2)
Affiliations: 1 : Mohamed VI polytechnic university, Benguerir, MOROCCO ; 2 : faculté des sciences, Kenitra, MOROCCO

AMPHI A**Gas filtration / Session****10:30 - 12:10****Nanofibers**

- 10:30** O-253 Filtering Sars-CoV-2 virus aerosols with electret nanofiber filter
Wallace LEUNG, Hong Kong Polytechnic University, Duluth, UNITED STATES
Co-authors: Qiangqiang SUN ⁽¹⁾
Affiliations: 1 : Hong Kong Polytechnic University, Hong Kong, HONG KONG
- 10:50** O-254 High Performance Nanofiber Media for HVAC and Clean Room Application
Joan GAO, NFT Purification Technology, Missouri City, UNITED STATES
Co-authors: Turner YANG ⁽¹⁾
Affiliations: 1 : NFT Purification Technology, Missouri City, UNITED STATES
- 11:10** O-255 Nanofiber composites for high efficiency air filtration
Joshua MANASCO, Elmarco sro, Liberec, CZECH REPUBLIC
Co-authors: Ivan PONOMAREV ⁽¹⁾
Affiliations: 1 : Elmarco sro, Liberec, CZECH REPUBLIC
- 11:30** O-256 Electrospinning of cellulose acetate for the production of efficient air-filtering systems
Alessia NICOSIA, National Research Council of Italy (CNR), Bologna, ITALY
Co-authors: Fabrizio RAVEGNANI ⁽¹⁾; Alicia ROMERO ⁽²⁾; Maria BLANES ⁽²⁾; Maria Jose GISBERT ⁽²⁾; Carlos PASCUAL ⁽²⁾; Bruno MARCO ⁽²⁾
Affiliations: 1 : Institute of Atmospheric Sciences and Climate (ISAC) of the National Research Council (CNR) , Bologna, ITALY ; 2 : Centro de Investigación e Innovación / Research & Innovation Center (AITECH) , Alcoy (Alicante), SPAIN
- 11:50** O-257 Development of High-Efficiency Air Filters from Recycled PET Nanofibers Embedded with Single-Walled Carbon Nanotubes for Nanoparticle Filtration
Mônica AGUIAR, Federal University of São Carlos, São Carlos, BRAZIL
Co-authors: Gabriela B. MEDEIROS ⁽¹⁾; Daniela S. DE ALMEIDA ⁽²⁾
Affiliations: 1 : Federal University of São Carlos, São Carlos, BRAZIL ; 2 : Federal University of Technology - Paraná, Londrina, BRAZIL

PROGRAM

ROOM D

Gas filtration / Session

10:30 - 12:10

Oil mist filtration

- 10:30** O-258 Influence of operating conditions on the internal and rear-side drainage behavior in oil mist filters
Robin MANDIC, KIT, Karlsruhe, GERMANY
Co-authors: Jörg MEYER ⁽¹⁾; Achim DITTLER ⁽¹⁾
Affiliations: 1 : KIT, Karlsruhe, GERMANY
- 10:50** O-259 Filtration performance of surface modified coalescence filters with asymmetric wettability
Cheng CHANG, China University of Petroleum-Beijing, Beijing, CHINA
Co-authors: Qianmei LYU ⁽¹⁾; Yihang DING ⁽¹⁾; Yunlan YANG ⁽¹⁾; Xiaolin WU ⁽¹⁾; Zhongli JI ⁽¹⁾
Affiliations: 1 : China University of Petroleum-Beijing, Beijing, CHINA
- 11:10** O-260 Preparation and performance optimization of superoleophobic coalescence filter materials
Yihang DING, China University of Petroleum-Beijing, Beijing, CHINA
Co-authors: Cheng CHANG ⁽¹⁾; Xiaolin WU ⁽¹⁾; Zhongli JI ⁽¹⁾
Affiliations: 1 : China University of Petroleum-Beijing, Beijing, CHINA
- 11:30** O-261 Double-gradient Janus filters with oil-guiding layer for enhanced oil aerosol filtration performance
Di WANG, South China University of Technology, Guangzhou, CHINA
Co-authors: Zhiqiang ZHOU ⁽²⁾; Yun LIANG ⁽¹⁾; Min TANG ⁽¹⁾
Affiliations: 1 : South China University of Technology, Guangzhou, CHINA ; 2 : Zhejiang Sci-Tech University, Hangzhou, CHINA

AMPHI B

Membrane / Session

10:30 - 12:10

Case Study

- 10:30** O-264 Electrodialysis for groundwater defluoridation: Insights into membrane selection and anion competition
Mustapha TAHAÏKT, universit  Ibn Tofail, facult  des sciences, K nitra, MOROCCO
Co-authors: fatima zahra ADDAR ⁽¹⁾; Idrisse MOHAMED ⁽¹⁾; mohamed TAKY ^(1,2)
Affiliations: 1 : Laboratory of Advanced Materials and Process Engineering, Faculty of Sciences, Ibn Tofail University, P.O. Box: 1246, K nitra, MOROCCO ; 2 : International Water Research Institute. Mohammed VI Polytechnic University, Lot 660, Hay Moulay , benguerir, MOROCCO
- 10:50** O-265 Mitigating membrane fouling in anaerobic membrane bioreactors through minimal-mixing: A sustainable approach for energy efficiency and performance stability
Mit Prohim YOU, Seoul National University of Science and Technology, Seoul, REPUBLIC OF KOREA
Co-authors: Roent Dune A. CAYETANO ^(1,2); Hyun-Suk OH ^(1,2)
Affiliations: 1 : Department of Environmental Engineering, Seoul National University of Science and Technology, Seoul, REPUBLIC OF KOREA ; 2 : Institute of Environmental Technology, Seoul National University of Science & Technology, Seoul, REPUBLIC OF KOREA
- 11:10** O-266 Membrane distillation crystallization towards recovery of fresh water and minerals from acid mine drainage
Lebea NTHUNYA, University of South Africa, Johannesburg, SOUTH AFRICA
Co-authors: Bhek  MAMBA ⁽¹⁾
Affiliations: 1 : University of South Africa, Johannesburg, SOUTH AFRICA
- 11:30** O-267 Performance of Reverse Osmosis for the treatment of pretreated hazardous wastewater containing PFAS
Vincent BLAZY (Rennes, FRANCE), Mathilde RAOUL (Le Mans, FRANCE)
Co-Authors : Anne PREMEL ⁽¹⁾; Julien BLANVILLAIN ⁽²⁾; S bastien GEORGE ⁽³⁾; Manon GRANGER-DELACROIX ⁽⁴⁾
Affiliations : 1 : EMO, RENNES, FRANCE ; 2 : SEMEO, Br al-sous-Vitr , FRANCE ; 3 : SARPI-VEOLIA, Le MANS, FRANCE ; 4 : SARPI-VEOLIA, Limay, FRANCE



AMPHI C

Membrane / Session

10:30 - 12:10

Module / process design

10:30 O-268 Tangential Flow Filtration Using Reverse Asymmetric Membranes for Virus Harvesting

S. Ranil WICKRAMASINGHE, University of Arkansas, Fayetteville, UNITED STATES

Co-authors: Xiaolei HAO ⁽¹⁾; Xianghong QIAN ⁽¹⁾

Affiliations: 1 : University of Arkansas, Fayetteville, UNITED STATES

10:50 O-269 Cascades with internal recycling: a tool to enhance membrane separation performances in different industrial sectors

Murielle RABILLER-BAUDRY, Université de Rennes, Rennes

Co-authors: Fatima Zohra CHARIK ^(1,2); Dawry Javier CAPELLAN BATISTA ⁽¹⁾; Youness KOUZI ^(1,2); Saad ALAMI YOUNSSI ⁽²⁾; Thierry RENOARD ⁽¹⁾

Affiliations: 1 : Univ Rennes, CNRS, ISCR (Institut des Sciences Chimiques de Rennes) - UMR 6226, Rennes, FRANCE ; 2 : Laboratory of Materials, Membranes and Environment, Faculty of Sciences and Technologies of Mohammedia, University Hassan II of Casablanca, , Mohammedia, MOROCCO

11:10 O-270 «Greener» nanofiber membranes from electrospinning

David BROKL, Elmarco sro, Liberec, CZECH REPUBLIC

Co-authors: Miloslav MASOPUST ⁽¹⁾; Ivan PONOMAREV ⁽¹⁾; Joshua MANASCO ⁽¹⁾

Affiliations: 1 : Elmarco sro, Liberec, CZECH REPUBLIC

ROOM E

Sustainable development / Session

10:30 - 12:10

Micropollutant

10:30 O-273 Nano/Microplastics: Small Particles Big Problems

Cang LI, Kinetico, Incorporated, Suwanee, UNITED STATES

10:50 O-274 Optimization of GAC filtration to remove micropollutants in wastewater treatment

Mathieu DELAHAYE, Suez, Paris La Defense

Co-authors: Romain MAILLER ⁽¹⁾; Olivier DANIEL ⁽²⁾; Mar ESPERANZA ⁽²⁾; Jean BERNIER ⁽¹⁾; Sophie COURTOIS ⁽²⁾; Adriana GONZALEZ-OSPINA ⁽¹⁾

Affiliations: 1 : Suez International, Paris La Defense, FRANCE ; 2 : SUEZ CIRSEE, Le Pecq, FRANCE

11:10 O-275 Microplastics from tire wear – Filtration in the field

Dominik HERPER, GKD - Gebr. Kufferath AG, Düren, GERMANY

Co-authors: Daniel VENGHAUS ⁽¹⁾

Affiliations: 1 : GKD - Gebr. Kufferath AG, Düren, GERMANY

11:30 O-276 Cork as a new sustainable solution for micropollutants adsorption in water treatment

Marc VALAT, I2M, Bordeaux

Co-authors: Clémence MARAIS ⁽¹⁾; Pascal GINISTY ⁽¹⁾; René PEINADOR ⁽¹⁾; Tarik ELJADDI ⁽¹⁾; Jean LACHAUD ⁽²⁾; Benoît TEYCHENE ⁽³⁾

Affiliations: 1 : IFTS, Foulayronnes, FRANCE ; 2 : I2M, Bordeaux, FRANCE ; 3 : IC2MP, Poitiers, FRANCE

11:50 O-277 Multi-layer composite membranes for selective micropollutant removal

Daniel RATTINGER, MCI The Entrepreneurial School, Innsbruck, AUSTRIA

Co-authors: Jana MARX ^(1,2,3); Jan BACK ⁽¹⁾; Tung PHAM ⁽²⁾; Rania BAKRY ⁽³⁾; Martin SPRUCK ⁽¹⁾

Affiliations: 1 : MCI The Entrepreneurial School, Innsbruck, AUSTRIA ; 2 : Research Institute of Textile Chemistry and Textile Physics, University of Innsbruck, Dornbirn, AUSTRIA ; 3 : Institute of Analytical Chemistry and Radiochemistry, University of Innsbruck, Innsbruck, AUSTRIA

AMPHI A

12:10 - 12:30

Closing ceremony

WELCOME AREA

14:00 - 18:00

Technical tours

POSTERS

TOPIC 1 SOLID/LIQUID

P-01 Produce drinking water wherever you need it with the ANDRITZ mobile filtration unit (AMFU)

Etienne FROGER, ANDRITZ Euroslot SAS, Scorbé Clairvaux

P-02 Enhancing Automotive Cabin Air Filtration Efficiency Using Short Cellulose Acetate Nanofibers

Mônica AGUIAR, Federal University of São Carlos, São Carlos, BRAZIL

Co-authors: Paulo Augusto MARQUES CHAGAS (1); Wanderley P. OLIVEIRA (2)

Affiliations: 1: Department of Chemical Engineering/University Federal of São Carlos, São Carlos - SP, BRAZIL; 2: Faculty of Pharmaceutical Sciences of Ribeirão Preto/University of São Paulo, Ribeirão Preto, BRAZIL

P-03 Recycling of polymeric substances from sewage via membrane technologies

Da-Qi CAO, Beijing University of Civil Engineering and Architecture, Beijing, CHINA

Co-authors: Zhen WANG (1); Xin SONG (1); Xiao-Min FANG (1); Jing-Yi JIN (1); Xiu-Zhen SUN (1); Jia-Lin HAN (1); Hui LIU (1); Yan JIN (1); Xiao-Di HAO (1)

Affiliations: 1: Beijing University of Civil Engineering and Architecture, Beijing, CHINA

P-05 Influences and Characteristics of Back-washing for Double-layer Filter Materials in Filtration Treatment of Polymer Flooding Produced Water

Lin LIU, Northeast Petroleum University, Daqing, CHINA

P-06 Effect of Different Filter Materials on Filtration Process of Polymer Flooding Produced Water: A Numerical Simulation Study

Lin LIU, Northeast Petroleum University, Daqing, CHINA

P-08 Analysis on the development and Standardization System Construction of Separation Machinery Industry in the Context of Dual Carbon Goals

Cuilong CHEN, Sinomach General Machinery Science & Technology Co., Ltd., Hefei, CHINA

Co-authors: DEYOU ZHANG (1)

Affiliations: 1: Secretariat of National Technical Committee for Standardization of Separation Machine, Hefei, CHINA

P-10 CFD-DEM simulation of micro-mechanisms between particles and filter medium by solid-liquid separation

Nikolai BENZ, University of Kaiserslautern-Landau, Kaiserslautern, GERMANY

Co-authors: Vanessa PUDEBACH (2); Kilian SCHMIDT (2); Sergiy ANTONYUK (1)

Affiliations: 1: University of Kaiserslautern-Landau, Kaiserslautern, GERMANY; 2: IT for Engineering GmbH, Kaiserslautern, GERMANY

TOPIC 2 GAS

P-11 A microwave sensor for droplet contents measurement in high-pressure natural gas pipelines

Junxian CHEN, China University of Petroleum, Beijing, Beijing, CHINA

Co-authors: Zhongli JI (1); Ao LI (1); Zhen LIU (1); Tianyu ZHANG (1)

Affiliations: 1: China University of Petroleum, Beijing, Beijing, CHINA

P-12 Evaluation of the efficiency of bag filters with different filter media

Mônica AGUIAR, Federal University of São Carlos, São Carlos, BRAZIL

Co-authors: Ana Cristina Coelho VIEIRA (1); Rafael SARTIM (2,3)

Affiliations: 1: Federal University of São Carlos, São Carlos, SP, BRAZIL; 2: Federal University of Espírito Santo, Vitória, ES, BRAZIL; 3: ArcelorMittal, Serra, ES, BRAZIL

P-13 Production of triple-layer filter media from recycled polyethylene terephthalate (rPET) and polystyrene (rPS) using the electrospinning technique: Evaluation of air nanoparticle filtration and permeability

Mônica AGUIAR, Federal University of São Carlos, São Carlos, BRAZIL

Co-authors: Felipe de Aquino LIMA (1); Paulo Augusto Marques CHAGAS (1); Vádila Giovana GUERRA (1)

Affiliations: 1: Federal University of São Carlos, São Carlos, BRAZIL

P-14 Application of graphene oxide on nonwoven microfibrils as a promising air purification nanocomposite for removal of particulate matter

Simone POZZA, University of Campinas - UNICAMP, Limeira, BRAZIL

Co-authors: Manoel MEIRA (1); Marcos LOREVICE (2); Joyce CRISTALE (1); Diego MARTINEZ (2)

Affiliations: 1: University of Campinas - UNICAMP, Limeira, BRAZIL; 2: Brazilian Center for Research in Energy and Materials (CNPq), Campinas, BRAZIL

P-15 Study of the particle loading behavior and dendrite growth characteristics on a single fiber

Tianle YOU, South China University of Technology, Guangzhou, CHINA

Co-authors: Zhengyuan PAN (2); Min TANG (1); Yun LIANG (1)

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P-16 Modeling nonwoven filters and application to airflow study and pressure drop prediction

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P-16bis A 5 nm to 10 micrometre Condensation Particle Counter suitable for testing all air filter grades

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P-17 Approach for dimensioning a lab-scale wet scrubber for analysis of gas-particle-droplet interactions

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P-18 Integrated application of cyclone separation and deep filtration in natural gas defoaming

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TOPIC 3 MEMBRANE

P-19 Enhanced separation of C-phycoerythrin and allophycocyanin using a coupled filtration and precipitation methods

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P-20 Hybrid modeling approach for the prediction of potential fouling in filtration based on viscosity

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P-23 Development of Antifouling gamma-Al₂O₃/alpha-Al₂O₃ Nanofiltration Membranes for Enhanced Wastewater Treatment Efficiency

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P-24 A study on the feasibility of hemodialysis application through lab-scale hemodialyzer made of ceramic hollow fiber membranes by removing uremic toxins J

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P-25 Next level optimization of your Dynamic Crossflow Filter (DCF) performance with digital twins

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P-27 Sandfilter Backwash Water Treatment - Piloting at a municipal German freshwater producer

Timo ROTHHAUSEN, Boll & Kirch Filterbau GmbH, Kerpen, GERMANY

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P-28 Mamb'Eaux Project Assessment of the life span of membranes in an MBR for the treatment of urban and industrial wastewater

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P-29 Evaluation of chemical and mechanical resistance of FO and RO dense membranes for improved lifetime and recycling

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P-30 Understanding the effect of organic load on aerobic ceramic membrane bioreactor: performance, fouling propensity and machine learning algorithm

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P-34 Reverse Osmosis and Scientific Issues for Seawater Desalination in West Africa - Osmose Inverse et Enjeux Scientifiques pour le Dessalement de l'Eau de Mer en Afrique de l'Ouest

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P-37 Protein concentration from microalgae using stirred-cell ultrafiltration

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P-38 Are membrane cascades an efficient tool for the enhancement of RO desalination performances either for brackish or seawaters ?

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P-38bis FLUORMIDABLE: A Fluorescence-Based Strategy for In Situ Detection and Mapping of Micro- and Nanoplastics in Coastal and Marine Environments

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POSTERS

P-39bis Reverse osmosis membranes coated with silk-derived materials to enhance anti-scaling and storage stability via a waste-to-resource approach

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P-40 Contribution to the Surface Water Quality Assessment: A Case Study of the Microfiltration and Reverse Osmosis Systems applied to the Kivu Lake Water In The Province Of South Kivu In DR Congo.

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P-41 High-purity water recovery from industrial effluents using membrane distillation

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P-41bis Dead-End Ultrafiltration of Sugar Beet Juice Extracted from Cold Electrically Pre-Treated Slices: Influence of Membrane Polymer on Fouling Mechanisms and Permeate Quality

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P-42bis High-performance MoS₂-based composite membrane for efficient dye removal: Experimental and theoretical analysis

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TOPIC 4 SUSTAINABLE

P-43 Removal of active pharmaceuticals ingredients from water using modified halloysite particles

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P-45 Modification of polypropylene filters with amphiphilic cyclodextrins by dip coating for PFAS removal

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P-45bis Enhancing Crystal Violet Removal through Glass-Based Phosphate: A Custom Design-Based Response Surface Methodology for Process Variable Optimization

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P-46 Utilization of jenitri as a biosorbent for produced-water in oil fields

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COMPANY INFORMATION

ACS Industries, Inc.

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Company description: ACS manufactures critical components used in systems assemblies for a wide range of products spanning Green Energy, Clean Air Exhaust, Vehicle Safety and more. ACS is the world's preeminent manufacturer of pyrotechnic airbag inflator filters. We are the only company to offer all the preferred filter media of knitted wire mesh, woven wire mesh, micro expanded metal, and sintered wound-wire. We also offer a wide array of automotive exhaust components from hot and cold end filters to sintered urea mixers and more. ACS is driving down the cost of H2 production by improving the design of mesh components in Electrolyzer Anodes and Cathodes and further breakthroughs from our world-class R&D department are on their way.

Ahlstrom

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Company description: In the world of filtration, our high-performance materials set the standard for efficiency, reliability, and innovation. We power transportation, energy storage, and a vast range of industrial air and liquid filtration applications with cutting-edge filtration solutions.

Our filter materials deliver superior filtration performance across industries. For transportation, we have a comprehensive portfolio of solutions that provide clean, contaminant-free air and liquids, essential for today's vehicles, including electric and fuel cell technologies. In industrial applications, our high-quality materials purify air and liquids while safeguarding people and the environment, driving towards more sustainable world today and tomorrow

AMES

BOOTH N° 19

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Company description: AMES manufactures AmesPore® sintered metallic filters and porous components at its specialized AMES Solsona plant in Spain, which is certified according to the ISO 9001, ISO 14001 and ISO TS 16949 quality standards.

The AMES Solsona factory has a Technical Department specialized in filters and porous sintered parts, fully equipped to determine the filter properties of (porosity, pore size, bubble point, filtering efficiency, permeability, metallography, corrosion resistance, mechanical characteristics, etc.) and to simulate their behaviour in service and useful life.

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ATECH INNOVATIONS GMBH

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Company description: atech innovations gmbh has been active since 1989 in the distribution, and since 1992, also in the development and production of high-quality ceramic membranes for a wide variety of industrial applications in the chemical, biotechnological, food and beverages industries and in the waste water treatment / recycling industry. Our range of products includes tubular membranes in various geometries and channel diameters as well as associated pressure vessels made of s/s or plastic. The designs comply with international standards and also take into account hygiene requirements such as 3A- Sanitary Standard design.

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BEKAERT FIBER TECHNOLOGIES

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Company description: Bekaert pioneers sustainable solutions and services with creativity beyond steel. Our products range from wire transformations to coating technology and everywhere in-between. And filtration is no exception. Their 40+ years of experience in filtration proves Bekaert knows fibers. In fact, Bekipor® metal fiber filter media stands as a true testament to their commitment.

Beot (Shijiazhuang) Inorganic Membrane Separation Equipment Co., Ltd.

BOOTH N° 87

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Company description: For more than 25 years, BEOT has been a leader in the development, production and innovation of Sintered Porous Powder Metal filters, Wedge Wire Filters, Gas Diffusers, Components, and Engineered Assemblies.

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COMPANY INFORMATION

BEVERLIN SPECIALTY TUBE

BOOTH N° 34

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Company description: Perforated metal element cores, tubing and fabricated metal assemblies used across the global filtration and oil and gas industry applications.

Cambustion

BOOTH N° 62

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Company description: Cambustion develops high-grade instrumentation for a range of gas and particle applications, including filtration and indoor air quality.

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CEREX Advanced Fabrics, Inc.

BOOTH N° 57

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Company description: Global leader in the production of innovative polyamide 66 spunbond non-woven fabrics.



CHOQUENET SAS

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Company description: Choquenet is a renowned filter-press manufacturer active since its creation in 1925.

Our range goes from pilot units (with 250 x 250 plates) up to industrial installations with 2600 x 2500 mm plates.

In-house design and manufacture in our workshop in France with the following competitive edges: quick cake release, 100 % automatic, scraping...

Customer satisfaction and support are one of our main concerns, Choquenet has a number of branches and sales agencies located around the globe.

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With more than 5000 filter- presses in operation all over the world, Choquenet is currently a world key player when you are looking for a partner offering reliability and high productivity.

CHUNG AH FILTER CO., LTD.

BOOTH N° 113

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Company description: CHUNG AH FILTER CO., LTD. is the 1ST and ONLY Manufacturer of PES/PS membrane flat sheet in Korea. PES Membrane manufactured since Jan. 2008.

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- Capsule Filter (AW, XW, SC series)



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Company description: Daegu, KOREA is the ideal host city for WFC 2028.

As Korea's hub for water and filtration industries, Daegu is home to the Korea Water Cluster and the Water Technology Certification Center, driving innovation and excellence.

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We look forward to welcoming the global filtration community to Daegu for WFC 2028.

Dalian HuaYang Bicoweb Technology Co.,Ltd

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Company description: Dalian HuaYang Bicoweb Technology Co.,Ltd is a global supplier of non-wovens, the company is mainly engaged in the R&D, production and sales of Bi-component spun-bond air-through bonding filament nonwovens. BICOWEB series nonwoven is a kind of special material with high performance, wide application, high technology content, it can be used as filtration material, geotextiles, construction&waterproofing material, carpet lining backing, automotive forming, decoration & packaging material, reinforcement materials, etc.

Demcon convergence

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Company description: Demcon convergence is a leading supplier of sophisticated membrane characterization systems. We provide a wide range of pre-engineered yet customizable systems designed to evaluate membrane performance effectively. Our membrane inspectors are equipped with high-quality components sourced from leading manufacturers in flow control and tailored to meet the specific requirements of your project needs.



DrM, Dr. Mueller AG

BOOTH N° 52

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Company description: We are an industrial machinery manufacturer that specializes in solid/liquid separation, vibratory mixing and single-use solutions. Our flagship products, the FUNDABAC® and CONTIBAC® candle filters, count over 3,500 units in operation worldwide, with around 150 new systems installed annually. These technologies serve diverse sectors including Chemicals, Oil & Gas, Pharmaceuticals, Food, and Electronics. Our FUNDAMIX® vibromixers are widely used in pharmaceutical and biotech applications. The latest in our portfolio, FUNDALOO®P, is tailored for the biopharma industry. With its multi-cycle functionality, it extends the lifespan of high-performance filter bags while lowering operating costs.

DuPont de Nemours

BOOTH N° 41

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Company description: DuPont™ Xavan® is a strong, easy-to-use media carrier for multi-layer filter structures. It combines optimal stiffness with excellent air and liquid permeability, without compromising the performance of the effective filter media, even under most demanding conditions.

ECM COMPONENTS

BOOTH N° 103

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Company description: ECM COMPONENTS produces gas components. The brand PORAL produces and sales sintered metallic filters, which can be used in different filed such as medical, aeronautic, agrifood and many others. We can offer you standard shapes but we also can provide with personalised filters that meets your needs better.



COMPANY INFORMATION

Elmarco

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Company description: Elmarco is a global leader in industrial-scale nanofiber production equipment. Our Nanospider™ machines support the full spectrum of applications, from lab-scale research to high-volume manufacturing. Since entering the market in 2004 with patented free-surface electrospinning technology, we've continually advanced nanofiber innovation. Our portfolio includes the LINEA line for air filtration and functional textiles, the INFINITY line for HEPA/ULPA and liquid filtration, and the NS LAB, a versatile R&D tool for experimental work and product development. Elmarco delivers complete technology solutions, enabling customers to scale seamlessly.

Fibertex Nonwovens A/S

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Company description: Fibertex Nonwovens, a global leader in nonwovens manufacturing, offers a range of HVAC and cabin air media plus nanofibre membranes. Company introduces a new range of Pleatex® - an innovative 100% synthetic, inherently pleatable filter media that sets new standards in filtration. Designed for both air and liquid filtration, Pleatex® offers a customizable platform for filter manufacturers including sustainable solutions using recycled fibres and natural fibres as well.

FILTECH

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Company description: FILTECH is a global event and platform that focuses on the filtration industry and adjacent sectors. It is the largest and most significant event of its kind worldwide, showcasing the latest technological advancements and innovations in the field of filtration and separation. FILTECH brings together experts, industry professionals and researchers from various sectors to address pressing issues such as environmental pollution, water and wastewater treatment, desalination, clean air, health hazards, energy transition, and the optimization of solid and liquid separation tasks/targets in industrial processes.



Filtration + Separation

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Company description: Filtration + Separation has long been established as the leading publication and information tool for filtration users worldwide.

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Filtration Group SAS

BOOTH N° 44

Address: Le Mas d'Auriac
84100 Orange - France

Phone: +33 4 32 85 95 40 - +33 6 33 79 80 73

Contact: Magalie NOEL

E-Mail: magalie.noel@filtrationgroup.com

Website: <https://www.globalfilter.com/en-eu/>

Company description: Filtration Group SAS is a leading European manufacturer in industrial filtration. Subsidiary of Filtration Group Corp (USA), we have been active since the 1930s with the Eurofiltec, amafilter® and now Global Filter brands. Filtration Group is committed to making the world a safer, healthier and more productive place, and we provide efficient and innovative industrial filtration solutions to the most challenging problems. Specialized in solid-liquid filtration, we offer filter cartridges, bags and filter vessels adapted to a large number of applications (chemical, food & beverage, cosmetic, energy, ...). We are experts in several applications including the nuclear, active pharmaceutical ingredients and beverage industries.

G. BOPP + Co. AG

BOOTH N° 36

Address: Bachmannweg 21
8046 Zurich - Switzerland

Phone: +41 44 377 66 66 - +41 44 377 66 09

Contact: Patrick VÖGELI

E-Mail: pvoegeli@bopp.ch

Website: <https://www.bopp.com>

Company description: For decades, the BOPP Group has been a world leader in the production of steel mesh for challenging and diverse applications. Our meshes are often vital components in highly complex processes, both in industry and chemicals, pharmaceuticals, glass, ceramics, plastics, mechanical engineering, environmental technology and even space travel. With its headquarters in Switzerland, we operate subsidiaries in Germany, England, Italy, Sweden, USA, Korea and China and have a worldwide network of representatives.



COMPANY INFORMATION

GACHES CHIMIE

BOOTH N° 56

Address: 8 rue Labouche, ZI Thibaud
31084 TOULOUSE - France

Phone: +33 5 61 44 67 67 - +33 6 62 28 24 41

Contact: Carinne MANGERUCA

E-Mail: cmangeruca@gaches.com

Website: <https://www.gaches.com/>

Company description: GACHES CHIMIE offers chemicals and related services in several fields, and more particularly for water treatment : drinking water, process water, irrigation and swimming pool.

The company produces GARO®Filtre, glass granules for filtration.

GESSNER

BOOTH N° 54

Address: Weidacher Str. 30
83620 Feldkirchen-Westerham - Germany

Phone: +49 8062 703 0

Contact: Christina SUTTER

E-Mail: gessner@mativ.com

Website: <https://www.gessner-filtration.com/>

Company description: GESSNER is a global leader in the filtration industry. We're protecting people, machineries & the environment with our filtration solutions to ensure a better, cleaner, and healthier world.

Our highly engineered papers, films, nets, nonwovens, cores, tubes, and machined parts are designed and manufactured using natural fibers and polymers for a variety of industries and applications, such as Transportation Filtration, Water Filtration, Air Filtration, Industrial Processes, and Life Science.

GUANGZHOU HUILONG FILTER CO.,LTD

BOOTH N° 68

Address: Rm.4013, No.660, Middle of Huangpu Avenue, Tianhe District,
Guangzhou, China (510655)
510655 Guangzhou - China

Phone: +020 8258 0895

Contact: Fen LIU

E-Mail: filter3@hlfilter.com

Website: www.hlfilter.com

Company description: We are one of the leading manufacturer of the liquid filtration and air filtration since 1985 with 3 factories produce dust filtration products and liquid filtration products, located in Guangde city, Anhui province, Guangzhou city, Guangdong province and Suzhou city, Jiangsu province.

60000M2 and 6 offices, totally around 320 staff most of staff working more than 10 years, serving more than 40 countries customer. welcome OEM & ODM cooperation.



Guangzhou Sun Holy Wind Air Cleaning Products Co., Ltd

BOOTH N° 109

Address: No.1 Fengxi Industrial Zone, Fenghe V., Renhe Town, Baiyun District, Guangzhou, China 510470 Guangzhou - China

Phone: +20 864 59 939

Contact: Peili YIN

E-Mail: market.helen@shwfilter.com

Website: www.shwfilter.com

Company description: Guangzhou Sun Holy Wind Air Cleaning Products Co., Ltd. is one professional manufacturer of air filter media in Guangzhou China since 2003. Our main products are pre-filter, ceiling filter, paint stop, high temperature resistance filter, HEPA filter, overspray filter, pocket filter, panel filter, pleated filter, nylon mesh filter, metal mesh filter and so on. We have exported to Korea, Japan, Indonesia, Turkey, Lebanon, Saudi Arabia, Germany, France, Italy, Spain, Netherlands, Belgium, Australia, New Zealand, South Africa and so, more than 60 countries and regions.

Haver & Boecker OHG

BOOTH N° 88

Address: Ennigerloher Straße 64
59302 Oelde - Germany

Phone: +49 2522 304 33

Contact: Sven LOHMANN

E-Mail: s.lohmann@haverboecker.com

Website: <https://www.haverboecker.com>

Company description: Haver & Boecker is a leading manufacturer of woven wire cloth and filtration solutions for industrial applications. With over 135 years of experience, we develop high-precision wire mesh for water purification in wastewater treatment plants and automatic filters. Our filter elements ensure efficient separation of solids, long service life and optimised operational management. We offer customised solutions that combine performance and sustainability.

HIFYBER

BOOTH N° 63

Address: Sumer Mahallesi Cal Caddesi No:78
20020 Denizli - Turkey

Phone: +90 258 251 50 57 - +90 533 814 33 54

Contact: Kagan ERDEM

E-Mail: kagan.erdem@hifyber.com

Website: <https://www.hifyber.com/>

Company description: HIFYBER is a leading manufacturer specializing in polymeric nanofiber-based filter media. With a global presence, we are a trusted supplier in the industry. Thanks to our well-equipped facilities, we can serve a wide range of filtration demands with confidence.

What sets us apart is our commitment to delivering top quality, reliability, and performance. We meet high-volume demands with short lead times, ensuring fast delivery without compromising standards.

Our nanofiber technology supports cleaner air across HVAC, Power Generation Systems, Industrial Air Quality, and Mobility—empowering partners to achieve superior filtration with confidence.



COMPANY INFORMATION

Hollingsworth & Vose GmbH

BOOTH N° 55

Address: Friedbergerstr. 191

61118 Bad Vilbel - Germany

Phone: +49 1511 4624 215

Contact: Sonja ZINKE

E-Mail: Sonja.zinke@hovo.de

Website: <https://www.hollingsworth-vose.com>

Company description: At Hollingsworth & Vose (H&V), we are a manufacturer of advanced materials for filtration, energy and industrial applications. Over our more than 100 years in business, our company has undergone numerous expansion efforts that have ultimately led to us being a trusted source for materials in various markets across the world. Today, we maintain 13 facilities in strategic locations across three continents, North America, Europe and Asia – a footprint that lets us serve the unique requirements of global and regional customers efficiently, accurately and cost effectively.

IFTEX 2025 TURKIYE

BOOTH N° 45

Address: CAGLAYAN MAH. ZENGİN SK.

34000 Istanbul - Turkey

Phone: +90 542 429 22 82

Contact: Baris SALUR

E-Mail: baris@b2b-fairs.com

Website: <https://www.iftexhibition.com/>

Company description: The Istanbul Filter Technology Exhibition-IFTEX, taking place from August 28-30, 2025 in Istanbul, Turkiye, is a premier event dedicated to the filtration and separation industry. This exhibition will bring together global leaders, innovators, and experts to showcase the latest technological advancements, products, and services in air and liquid filtration. Attendees will have the opportunity to explore cutting-edge solutions, engage in insightful discussions, and build valuable connections with industry professionals.

IFTS

BOOTH N° 5

Address: Rue Marcel Pagnol
47510 FOULAYRONNES France

Phone: +33 6 84 01 35 25

Contact: Eric LEMOINE

E-Mail: eric.lemoine@ifts-sls.com

Website: <https://www.ifts-sls.com>

Company description: A Technology Transfer Centre at the service of innovation, our know-how at the heart of your competitiveness.

Our international Research and Test centre, with headquarters and main labs in France serves both manufacturers and users of fluid-particles separation equipment. The knowledge developed at IFTS applies to all industries: aerospace, food-processing, automotive, chemical, environmental, mechanical, nuclear, pharmaceutical, etc. Our labs offer standard testing, R&D and tailor-made test solutions and industrial-scale performance assessment facilities. IFTS is a key partner with all companies that need to develop their testing facilities : we design and manufacture test benches and lab equipment to perform standard tests



INDA MEDIA

BOOTH N° 2

Address: 1100 Crescent Green Dr
27518 Cary - United States

Phone: +1 919 459 3715

Contact: Vickie SMEAD

E-Mail: vsmead@inda.org

Website: <https://www.filtnews.com>

Company description: INDA Media is the b2b publishing arm of INDA, Association of the Non-woven Fabrics Industry. Our brands reach a vast network of professionals who employ fibers, filaments, and filtration systems to optimize their application environments.

INTERMAS

BOOTH N° 26

Address: Ronda Collsabadell, 11
8450 Llinars del Vallés - Spain

Phone: +34 656 85 94 23

Contact: Baptiste GINDRE

E-Mail: industry@intermas.com

Website: <https://www.intermas.com>

Company description: European leader in the manufacturing of high-performance, recyclable netting solutions for industrial applications: filtration, composites, protection & separation, and customized projects. INTERMAS combines innovation, technical expertise, and sustainability to meet the most demanding industrial needs.

J. Rettenmaier & Söhne GmbH + Co KG

BOOTH N° 38

Address: Holzmühle 1
73494 Rosenberg - Germany

Phone: +49 7967 1520

Contact: Riera ALISA

E-Mail: info@jrs.de

Website: <https://www.jrs.de/de/filtration/index.php>

Company description: JRS is the leading manufacturer of environmentally friendly filter aids and process additives that are more economical than diatomaceous earth, perlite or bleaching earth and are made from natural, renewable raw materials.

Filter aids from JRS are used in many industries as an efficient, environmentally friendly and economical alternative to mineral products such as diatomaceous earth or perlite. They offer a number of technical and economic advantages, are environmentally friendly, harmless and non-abrasive and, depending on the application, can be utilized instead of having to be disposed of.



COMPANY INFORMATION

Jowat SE

BOOTH N° 84

Address: Ernst-Hilker-Straße 10-14
32758 Detmold - Germany

Phone: +49 523 174 90

Contact: Michael DRESSLER

E-Mail: michael.dressler@jowat.de

Website: <https://www.jowat.com>

Company description: Adhesives

KJ Filtration Technologies Ltd

BOOTH N° 40

Address: No.149 Haishan Rd, Sec 2, Luchu Dist
33856 Taoyuan City - Taiwan

Phone: +88 633 547 040 - +88 698 822 9506

Contact: Lee FU

E-Mail: leefu@kjfiltration.com

Website: <https://www.kjfiltration.com.tw/>

Company description: KJ Filtration Technologies was founded in 1998, with a vision to develop and utilize sustainable technology to bring the world cleaner air. We focused our energies on 5 important sectors: triboelectric media, activated carbon media, pocket filter media, high loft polyester media and self-pleatable media. Research and development has been the cornerstone of KJ Filtration from the beginning. Today, KJ Filtration Technologies is a leading air filter media manufacturer, managing programs for the world's most prominent filter manufacturers with accuracy and precision.

Lenzing Filtration

BOOTH N° 83

Address: Werkstrasse 2
4860 Lenzing - Austria

Phone: +43 7672 701 3479 - +43 664 853 2308

Contact: Wolfgang WATZINGER

E-Mail: w.watzinger@lenzing.com

Website: <https://www.lenzing-filtration.com/>

Company description: Lenzing Filtration is specialized in the development and manufacturing of high-quality filtration devices for solid-liquid separation. Our wide product range offers PREMIUM self-cleaning patented filtration systems by our three umbrella brands OptiFil, ViscoFil and Cake-Fil, and also a wide disposable filtration portfolio with our CoreLine. The product range AutoLine accomplishes our business lines by conventional automatic filtration systems.

Having our own laboratory and technical center at place, we are able to analyze many kinds of low to highly viscous fluids and thus are able to offer the perfect filtration system for our customers. Besides pilot-installations, our wide repertoire also ranges up to turnkey large-scale plants.



LUM GmbH

BOOTH N° 50

Address: Justus-von-Liebig-Str. 3
12489 Berlin - Germany

Phone: +49 30 678 06 030 - +49 30 678 060 404

Contact: Jessica FRÖHLICH

E-Mail: event@lum-gmbh.de

Website: <https://www.lum-gmbh.com/>

Company description: LUM GmbH, founded in 1994 by Prof. Dr. Dr. Dietmar Lerche in Berlin, is a global leader in particle characterization, dispersion analysis, and materials testing. With subsidiaries in the USA, China, and Japan, and a lab in France, LUM provides cutting-edge solutions for industry and research. Our STEP-Technology enables rapid, precise filtration and membrane testing via analytical photocentrifugal filtration (ACF) in LUMiSizer, while SPLS-Technology in LUMiSpoc ensures accurate particle concentration and size analysis. We empower customers to optimize processes and innovate, staying true to our motto: «The Next STEP in Dispersion Analysis and Materials Testing.»

Magnera Corporation

BOOTH N° 10

Address: 9335 Harris Corners Parkway, Suite 300
28269 Charlotte - United States

Phone: +1 866 744 7380

Contact: Sandra GARCIA

E-Mail: sandragarcia@magnera.com

Website: <https://magnera.com/>

Company description: Magnera Corporation (NYSE: MAGN) serves 1,000+ customers worldwide, offering a wide range of material solutions, including components for absorbent hygiene products, protective apparel, wipes, specialty building and construction products, and products serving the food and beverage industry. Operating across 46 global facilities, Magnera is supported by over 9,000 employees.

Magnera's purpose is to better the world with new possibilities made real. For more than 160 years, the company has delivered the material solutions their partners need to thrive.

MAISHI MFG.

BOOTH N° 90

Address: SINOCHEN BUILDING, NO.707 LIANMENG
50071 Shijiazhuang - China

Phone: +86 159 311 286 91

Contact: Simon SU

E-Mail: sales@maishimfg.com

Website: <https://www.maishimfg.com>

Company description: MAISHI is a leading manufacturer of high-tech wire mesh products.

Through our dedication to customer-centric innovation and over 30 years development, MAISHI products have been exported to over 95 countries, serving more than 30 of the top 500 enterprises. MAISHI's vision is to support every customer achieving better development.

By leveraging our experience and expertise in production, MAISHI produce top quality products and creates green solutions that enable the customers to win market.



COMPANY INFORMATION

Math2Market GmbH

BOOTH N° 74

Address: Richard-Wagner-Strasse 1
67655 Kaiserslautern - Germany

Phone: +49 631 205 60 50 - +49 176 2335 5440

Contact: Philipp EICHHEIMER

E-Mail: filtration@math2market.de

Website: <https://www.math2market.com>

Company description: MATH2MARKET is a worldwide leader in software and consulting for designing advanced filter media, cartridges, full systems, and room-scale filtration. Our GeoDict software creates detailed 3D digital microstructures from user input, CT/FIB/SEM scans, or CAD models, simulating materials like nonwovens, meshes, foams, ceramics, and membranes. GeoDict predicts pore size, pressure drop, fluid flow, particle capture, MPPS, clogging, coalescence, adsorption and more—factoring in real-world physics like Brownian motion, adhesion, and electrostatics. It enables fast, non-destructive digital testing, reducing R&D costs and time to market, helping clients innovate and stay competitive in filtration technology.

NANTONG GATHER EXCELLENCE-CLEANING MEDICAL MATERIALS CO., LTD

BOOTH N° 102

Address: NO.100-1,KAIYUAN ROAD,HAIAN TOWN,HAIAN COUNTY,JIANGSU
226600 Jiangsu - China

Phone: +513 6887 9088

Contact: MENG YU

E-Mail: 421918214@qq.com

Website: <http://www.nthyj.cn/>

Company description: Nantong Gather Excellence-Cleaning Medical Materials Co., Ltd. own two lines with 160cm and 320cm width, which is produce ss, sms, smms, smmms nonwoven fabric. Annual capacity is 13,000 tons. We own three laminating lines with 280cm width, which is produce film and laminating. Annual capacity is 4,500 tons. We own two composite lines with 240cm and 320cm, which is produce bonding breathable film. Annual capacity is 10,000 tons. We own 9 melt-blown lines, which is produce electric and water electric melt-blown, quality of products meet the standard of Europe and the US, such as BFE 99%, VFE 99% and PFE 99%, FFP2, FFP3 filtration efficiency. Annual capacity is 6,000 tons.

PACO Group | Paul GmbH & Co. KG

BOOTH N° 115

Address: Auf der Hohle - Industriegebiet West
36396 Steinau an der Straße - Germany

Phone: +49 6663 9780 - +49 6663 978 196

Contact: Marie HEINGLE-SUIGNARD

E-Mail: Marie.Heinle-Suignard@paco-online.com

Website: <https://www.pacogruppe.de>

Company description: Founded in 1953, the PACO Group has evolved into a leading supplier of metal filter media and finished products – all «Made in Germany». With over 70 years of experience, PACO develops high-performance, resource-efficient filter technologies. Together with HETA Verfahrenstechnik, a member of the PACO Group and a globally operating engineering specialist and manufacturer of complete, highly specialized systems for demanding filtration and separation solutions, the PACO Group has grown to the only manufacturer in Germany that offers weaving, filtration and process technology from a single source.



Palas GmbH

BOOTH N° 104

Address: Siemensallee 84 | Building 7330
76187 Karlsruhe - Germany

Phone: +49 7219 62 130

Contact: Martin SCHMIDT

E-Mail: martin.schmidt@palas.de

Website: <https://www.palas.de/en/>

Company description: Since its foundation in 1983, Palas GmbH has been a leading manufacturer and developer in aerosol technology. It covers the entire spectrum: from generation and measurement to characterization of airborne particles. Fine dust and nanoparticle measuring instruments, aerosol spectrometers, generators and sensors, filter test stands, and associated systems, as well as software solutions, are all Made in Germany. From the beginning, the company has been committed to innovation and has continuously developed high-precision instruments for various applications. The company holds more than 30 active patents worldwide.

Palas GmbH located in Karlsruhe, Germany operates internationally with offices in Asia and numerous distributors worldwide.

Poretech Instrument Inc.

BOOTH N° 65

Address: 2F., No. 12, Sec.1, Zhongxing Rd., Wugu Dist., Taipei, Taiwan
24872 Taipei - Taiwan

Phone: +886 2 8976 9566

Contact: Hazel CHIN

E-Mail: hazel_chin@poretechinst.com

Website: <https://poretechinst.com/>

Company description: Poretech Instrument Inc., (PTI) founded in 2021 by Kevin Ku, former head of the Asia-Pacific region at PMI (US), along with his technical team with over 20 years of experience in pore structure analysis, offers comprehensive consulting services. Our expertise spans quality assurance (QA) for incoming materials, quality control (QC) of finished products, and research and development (R&D) in industrial applications. We provide clients with advanced testing technology, professional skills, and data analysis consulting. PTI's high-precision pore analysis instruments support critical stages of product development, enhancing performance and ensuring production stability across the industry.



COMPANY INFORMATION

Porometer / Aptco Technologies

BOOTH N° 60

Address: NIEUWE STEENWEG 20A
9810 Nazareth - Belgium

Phone: +32 9 252 25 35 - +32 499 64 53 27

Contact: Eline PATTYN

E-Mail: eline.pattyn@porometer.com

Website: <https://www.porometer.com/>

Company description: Porometer (brand of Aptco Technologies), is a Belgium-based company founded in 2007 to revolutionize porometry. Since then, we have been transforming the field by delivering the most advanced and reliable porometers.

Our commitments:

1. Provide the highest quality porometers on the market.
2. Support our customers in designing and producing superior filter media.

Unique is that our PoreSmart software and instruments are designed and engineered in-house. Additionally, we measure all types of samples daily in our labs, enabling us to assist our customers in measuring and analysing their samples in the most optimal way.

AT is also home to LUXOR, SEM sputter coaters, and MemSystems, offering advanced membrane laboratory solutions

Purenat

BOOTH N° 58

Address: 9 rue Pierre Georges Latecoere
64100 Bayonne - France

Phone: +33 5 59 01 11 64 - +33 6 34 42 85 12

Contact: Camille TEIXEIRA

E-Mail: cteixeira@pure-nat.com

Website: <https://www.pure-nat.com>

Company description: Purenat révolutionne la dépollution de l'air grâce à un média filtrant biomimétique qui ne se contente pas de piéger les polluants et les odeurs mais les transforme en molécules de base. Résultat ? Un air plus pur, des coûts réduits, une consommation d'énergie moindre, une perte de charge plus faible, moins de déchets et un impact environnemental accru. Véritable alternative au charbon actif, ce média est polyvalent, facile d'entretien et efficace contre une large gamme de polluants. Purenat propose une solution clé en main : un projet pilote déjà adopté en France et en Europe.

Résultats : jusqu'à 100 % de réduction de certains COV, baisse des coûts, conformité facilitée, environnement plus sain. Prenons rendez-vous dès maintenant !



PUYANG HUITONG NEW MATERIALS CO., LTD

BOOTH N° 107

Address: pucheng area,henan
457000 Pyang - China

Phone: +86 1663 936 9903

Contact: Robin WU

E-Mail: robin.wu@pyhuitong.com

Website: <https://htfiberglass.com>

Company description: Micro-fiberglass and micro-fiberglass filter paper manufacturer;our main products:

- Micro-fiberglass Air filter media HEPA ULPA filter media : F6-F9, H10-14,U15.
- hydraulic oil filter media/paper : Used for filter in Hydraulic station, hydraulic engineering machinery
- oil-gas separation media/paper : Used for filter element in air compressors, centrifuges, industrial freezers
- Customized Micro-fiberglass paper
- High water resistance paper
- High temperature resistant fiberglass paper

Revue TSM

BOOTH N° 21

Address: ASTEE, 12 rue de l'industrie- CS 30152
92416 Courbevoie Cedex - France

Phone: + 33 6 70 39 99 31

Contact: Pascale MEESCHAERT

E-Mail: pascale.meeschaert@astee.org

Website: <https://astee-tsm.fr/>

Company description: TSM, 1ère revue francophone à comité de lecture faite par et pour une communauté déchet-eau-environnement

- Repose sur une communauté d'auteurs engagés aux expertises complémentaires dans 6 domaines : Milieux, Eau potable, Eaux urbaines, Déchets, Air et Sol, Infrastructures et territoires.
- S'appuie sur un Comité de lecture qui offre un haut niveau d'expertise et de bienveillance pour évaluer l'approche rigoureuse et originale, et la répliquabilité des résultats.

Une revue de référence pour les publications scientifiques

- Avec vos études en libre accès
- Grâce à l'attribution des DOI, un référencement dans les bases de données reconnues et internationales



COMPANY INFORMATION

Roth Composite Machinery GmbH

BOOTH N° 8

Address: Forststrasse 3
35099 Burgwald - Germany

Phone: +49 6451 719 180 - +49 6451 7191 841

Contact: Winfried SCHÄFER

E-Mail: winfried.schaefer@roth-industries.com

Website: <https://www.roth-composite-machinery.com>

Company description: Roth Composite Machinery is a worldwide acting company having experience in the special machinery design of more than 100 years. We develop, design and manufacture machines and production lines for the filter industry. Our extensive product range includes mechanically and servo-motor controlled knife pleating machines as well as rotary pleating machines and minipleat systems.

We are known for first-class product quality and powerful engineering, as well as fast and excellent service, ensured by a global network of representatives. Our pleating machines are available for all standard working widths and pleat heights. One of our key strengths is the application-specific design and customization of machines to meet customer requirements.

Ruian Jundingda Machinery Co., Ltd

BOOTH N° 29

Address: Building 2, Hongchuangyuan, Dongshan Street,
Rui'an City, Wenzhou, Zhejiang Province
325200 Ruian - China

Phone: +577 6580 9762

Contact: Liu CHEN

E-Mail: chancy@jddmachinery.com

Website: www.jddmachinery.com

Company description: Established in 2011 and located in Ruian City, Wenzhou City, Zhejiang Province, China, Ruian Jundingda Machinery Co., Ltd. is a modernized machinery manufacturing enterprise integrating research and development, design, manufacturing, sales and service. Since its inception, the company has always focused on hot melt adhesive equipment and related automation machinery technology innovation, is committed to providing customers with efficient, environmentally friendly, intelligent production solutions.

The main products of Jundingda include hot melt adhesive machine, foaming hot melt adhesive machine, filter production equipment, spray adhesive laminating machine, carbon cloth laminating machine, automated dispensing system, etc., which are widely used in many industries such as filtration materials, medical protection, packaging materials, non-woven laminating, sanitary products, automobile manufacturing, automobile filters, household appliances and home textiles. The company pays special attention to the automation and intelligence of the equipment, and has formed a complete product system, which can meet the individual needs of different customers.

The company has a professional technology research and development team, equipped with advanced processing and testing equipment, strict implementation of the ISO quality management system, from design to assembly every link in the pursuit of excellence. Through continuous technology upgrading and service improvement, Jundingda's products have won a good reputation in the domestic and international markets, and are exported to Southeast Asia, the Middle East, Russia, Europe and other countries and regions.

In addition, the company has always been adhering to the "quality first, customer first, continuous innovation" business philosophy, focusing on long-term cooperation with customers and common development. We not only provide high-quality equipment, but also provide perfect after-sales service and technical support to help customers improve production efficiency and reduce operating costs.

In the future, Ruian Jundingda Machinery Co., Ltd. will continue to increase investment in research and development, constantly optimize the product structure, promote industrial upgrading, and is committed to becoming the world's leading manufacturer of hot melt adhesive and laminating machinery and equipment.



SF2P

BOOTH N° 4

Address: 1 rue Grandville, BP 20 451
54001 Nancy - France

Phone: +33 6 30 65 36 55

Contact: Pierre-Yves PONTALIER

E-Mail: pierreyves.pontalier@ensiacet.fr

Website: <http://sf2p.separation.free.fr/base.html>

Company description: SF2P, Société Française Séparation Fluide Particule (French Filtration Society), is composed of scientists, researchers, lecturer and industrial partners. Its aim is to develop scientific and technical knowledge of the fundamental principles, processes, equipment and products used to separate a fluid (liquid or gaseous) from the solid or liquid particles it contains, and to disseminate this knowledge by all appropriate means. It encourages partnerships and projects between scientists, and between scientists and industry.

SHANGHAI GERMAN TYPICAL FILTECH CO.,LTD

BOOTH N° 73

Address: Building 12, Weiqi Road, Yongqiao District, Suzhou, Anhui, China
234000 Suzhou - China

Phone: +18 72 1660 554

Contact: Peter WANG

E-Mail: peter@gtfiltra.com

Website: www.gtfiltra.com

Company description: Shanghai German Typical Filtech Co., Ltd is the most specialized filter bag making machine manufacturer integrating development, manufacturer and sales in China.

Through several years of hard pioneering, we have formed a Shanghai based, nationally distributed and internationally expanding strategic structure.

By cooperation with internationally famous filter bag manufacturers, we have made our quality administration perfect.

We are a truly powerful filter bag machines manufacturer

Stockmeier Urethanes GmbH & Co. KG

BOOTH N° 64

Address: Im Hengstfeld 8
32657 Lemgo - Germany

Phone: +49 5261 660680 - +49 151 544 591 81

Contact: Frank STEEGMANN

E-Mail: f.steegmanns@stockmeier.com

Website: <https://www.stockmeier.com/de/stockmeier-urethanes/>

Company description: With over 30 years of experience, STOCKMEIER Urethanes is a family-owned, globally active manufacturer of high-performance polyurethane systems tailored to customer needs. With a wide range of solutions, we serve various industries like filtration, automotive, construction, electronics, sports, and leisure.

With Stobicoll® F, we provide a trusted sealing, bonding, and casting system developed for advanced filter applications. Our mission is to deliver innovative and high-quality PU systems that meet the highest technical demands. We believe in strong partnerships, flexibility, and continuous development.

Let's connect and discuss how we can support your next challenge.



COMPANY INFORMATION

TAIWAN TEXTILE RESEARCH INSTITUTE

BOOTH N° 67

Address: No.6, Chengtian Rd., Tucheng Dist. 236 New Taipei City Taiwan

Phone: + 886-2-22670321

Contact: Vincent HU

E-Mail: mchu.0814@ttri.org.tw

Website: <https://www.ttri.org.tw>

Company description: Create Taiwan Textile Research Institute (TTRI) as the integrator of technology and leadership of industry. We supply a variety of textile businesses with customized service, the multi-integrated and transform service. The major developments in filtration include the R&D of nanofiber and melt-blown and filter testing.

Testing Service

Testing Products

- HVAC Filter (ISO 16890; EN 779; ASHRAE 52.2)
- Medical Face Mask (ASTM F2100; EN 14683)
- Disposable Dust Respirators (42 CFR 84)
- HEPA/ULPA Filter (EN 1822; IEST)
- Automotive Air Filter (ISO 11155-1; ISO 5011)
- Oil Filter (ISO 16889; ISO 19438; ISO 4548-12...)
- Filter Media (EN 1822; TSI 8130...)

Setup of Testing Equipment

- EN 1822-4 Automated Filter Scanning Test System
- Test Rig per ASHRAE 52.2 and EN 779
- Engine Filter Testing Rig per ISO 11155-1
- Filtration Media and Face Mask Test Rig

Research & Development

Meltblowing Technology

- Profits: 400mm Pilot Trial Line
- Spinneret: Nozzle Size 0.2~0.5mm
- Max. Temperature: 460
- Capabilities: Low and High MFR

Electrospinning Technology

- Profits: Lab. Equipment 40cm Pilot Production 1.6m Mass Production
- Capabilities: Functional Membranes of polymeric materials, chemical modification»

TECOLITE EUROPE SL

BOOTH N° 13

Address: C/ SALVADOR DE BAHIA, N.º 5

Planta 3, Puerta 2

04740 Roquetas de Mar,

Almería - Spain

Phone: +34 6 63 71 24 44

Contact: Ziya TELLIOGLU

E-Mail: ziya@tecolite.eu

Website: <https://www.tecolite.eu>

Company description: «Tecolite Europe S.L.» is specialized in industrial filtration, delivering high-performance and top-quality filter perlite manufactured using advanced technology.



The Vita Group

BOOTH N° 16

Address: Oldham Rd, Middleton, Manchester M24 2DB, UK
M24 2DB Manchester - United Kingdom

Phone: +44 161 643 1133 - +31 6 203 340 59

Contact: Gabriele NOTTEN

E-Mail: gabriele.notten@thevitagroup.com

Website: <https://www.thevitagroup.com>

Company description: The Vita Group is a leading innovator in advanced material solutions with over 75 years of expertise. We offer a wide range of products that serve diverse industries, driving excellence through innovation and sustainability. With 37 facilities across Europe and 4 state-of-the-art innovation centres, we serve global customers. Vita partners with filter manufacturers to deliver customizable polyurethane reticulated foam and chemical functionalities that enhance product performance. By focusing on innovation, energy efficiency, and cost-efficiency, we empower our partners to deliver superior filtration solutions.

Our filtration capabilities include:

Reticulation

Impregnation

Functionalized filtration

Lamination

Precision cutting

Thermo-Clean

BOOTH N° 9

Address: Route de Ravel 3039
69440 Saint-Laurent d'Agny - France

Phone: +33 4 78 19 36 36 - +32 472 72 77 91

Contact: Senne GEERAERTS

E-Mail: sales@thermoclean.com

Website: <https://www.thermoclean.com/fr>

Company description: Le Groupe Thermo-Clean est devenu l'une des références mondiales sur le marché du décapage thermique ou chimique de métal et d'autres matériaux. Par ailleurs, nous nous spécialisons également dans le nettoyage thermique d'échangeurs thermiques, l'enlèvement de plastique de pièces techniques et dans le nettoyage de filtres.

Topas GmbH

BOOTH N° 35

Address: Gasanstaltstraße 47
1237 Dresden - Germany

Phone: +49 351 216 6430

Contact: Dinah JONAS

E-Mail: marketing@topas-gmbh.de

Website: <https://www.topas-gmbh.de>

Company description: Since more than 30 years, technology-oriented particle, analysis and sensor systems have been developed, designed and manufactured under the name Topas. They can be used to generate, condition and analyze test and reference aerosols. Also, more than 60 series devices and 20 test systems of the medium-sized Saxon company have been widely used and proven for the classification and testing of filters and filter media in worldwide industry and basic research for decades. We are currently focusing on the further development of many areas of application: These include standardized testing systems for molecular filters, testing in ongoing production and testing EPA, HEPA and ULPA filters, to name just a few. Let's find a solution for your tasks!



COMPANY INFORMATION

TSI France

BOOTH N° 80

Address: Hotel Technologique, BP 100, Technopôle de Château-Gombert
13382 Marseille - France

Phone: +33 1 41 19 21 99 - +33 6 78 72 33 11

Contact: Eric FILIMUNDI

E-Mail: eric.filimundi@tsi.com

Website: <https://tsi.com/research-and-development/applications/filter-testing>

Company description: TSI is a global leader in filter testing solutions, providing trusted equipment for quality control, compliance, and R&D. Our advanced filter testers are trusted by manufacturers and certification agencies worldwide and help ensure optimal filter performance across industries like air quality, pharmaceuticals, and manufacturing. From HEPA and ULPA filters to respiratory protection and HVAC applications, TSI solutions meet rigorous international standards. Visit us at booth # 80 to learn how our automated filter testers enhance efficiency, accuracy, and reliability in filter performance validation.

ULPATEK AIR FILTERS

BOOTH N° 59

Address: Akpınar Sanayi Bölgesi, Yassiören, Hadımköy Cd. No:158, Arnavutkoy
34277 Istanbul - Turkey

Phone: + 90 5385 962 525 - +90 2126 230 300

Contact: Ferhat GURER

E-Mail: ferhatgurer@ulpatek.com

Website: <https://www.ulpatek.com/>

Company description: Ulpatek is a leading manufacturer of Air Filters in Turkey. Produces HVAC (Coarse, Medium, Fine) Filters, HEPA Filters and cleanroom equipment (Laminar Flow Units, Bag in Bag Out Systems, Fan Filter Units etc.). Ulpatek exports more than 80 countries in the world and increases this capacity incrementally, has a dedicated export department in service for all countries and industries.

WANNER Pumps

BOOTH N° 129

Address: Wanner International Limited, Units 8-10 Fleet Business Park, Sandy Lane
GU52 8BF Church Crookham - United Kingdom

Phone: +44 1252 816 847 - +44 7860 352 505

Contact: Antoine MICHOT

E-Mail: antoine@wannerint.com

Website: <https://wannerpumps.com>

Company description: For over 50 years, WANNER™ has manufactured HYDRA-CELL® packing-free, seal-less, industrial process pumps. Our next generation HYDRA-CELL PRO® has been designed to achieve a higher standard of pump performance and energy efficiency with 20+ years of expected service life.

By understanding customers' processes and recognising their needs and goals, WANNER and our global partners have built an extensive knowledge base of many different applications.

Let us use our knowledge and experience to help you with your specific challenges from industrial wastewater reverse osmosis (IWRO) to pharmaceutical filtration processes.



World Filtration Institute

BOOTH N° 6

Address: 105 Shenandoah Street
37043 Clarksville - United States

Phone: +1 931 647 3531 - +1 865 384 0154

Contact: Christine SUN

E-Mail: sun@wfius.org

Website: <https://www.wfius.org/>

Company description: The World Filtration Institute (WFI) is a global non-profit organization dedicated to propelling the filtration and separation industry and advance the sciences and technologies of filtration and separation processes towards a cleaner, healthier, and more sustainable future.

Xiamen Zhongchuang Environmental Technology Co., Ltd

BOOTH N° 30

Address: 1178-1188 Chunguang Road,XianganIndustrial Zone,Xiamen
361101 Xiamen - China

Phone: +592 607 9973

Contact: Wendy LI

E-Mail: filter@savings.com.cn

Website: www.savings.com.cn

Company description: Xiamen Zhongchuang Environmental Technology Co., Ltd is the first high temperature bag-type dust removal listed company in China. Our main products including PPS, P84, PTFE, ARAMID, POLYESTER, HOMO-ACRYLIC filter fabric and filter bags, which are widely used in Power Plant, Cement, Waste Incineration, Steel and Chemical industries.

Zhejiang Heading Environment Technology Co

BOOTH N° 99

Address: #8 Yuannan Road Pingqiao Tiantai County Zhejiang Province China
317203 Zhejiang - China

Phone: +86 576 8367 0886

Contact: Yulu ZHANG

E-Mail: filter@headingfilter.com

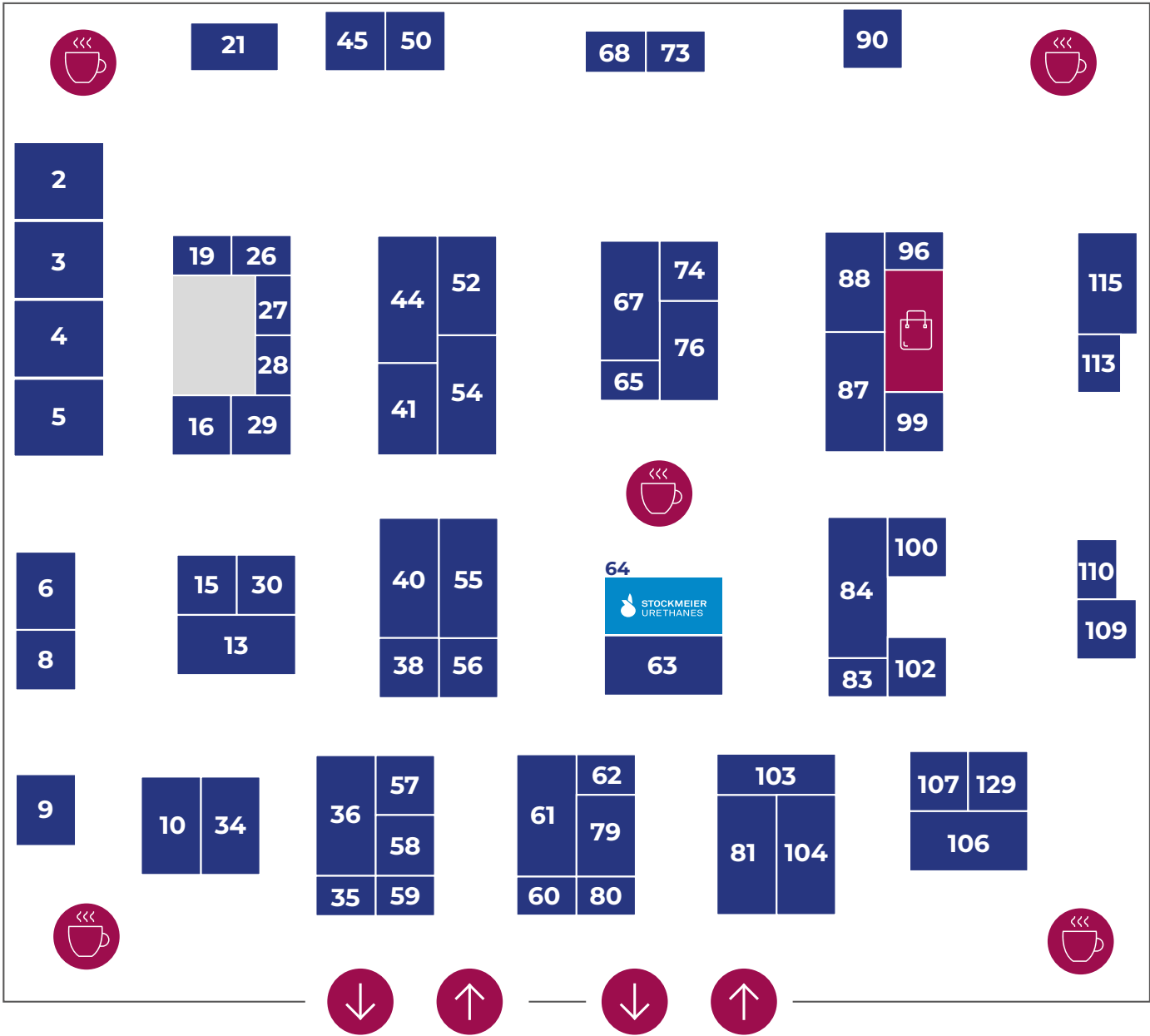
Website: www.headingfilter.com

Company description: Zhejiang Heading Environment Technology Co. Ltd.is a national high-tech enterprise, a national «specialized, refined, unique and new» little giant enterprise, and a China PTFE filter material research and development center, which specializes in the research, development, production, sales and technical services of industrial textile filter materials, atmospheric flue gas treatment and other environmental protection equipment.



EXHIBITION AREA

ESPACE PLURIEL



 bag pick-up



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NOTES

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**WFC's committees thank
the following partners for their support**



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Nouvelle-
Aquitaine**





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beverlin.com and
perftubes.com or call
us at 616.949.5990.**



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