



WFI 2024 Recordings & Proceedings

Sustainable Filtration Solutions for a Cleaner and Healthier World

WORLD FILTRATION INSTITUTE



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Thank You WFI 2024 Speakers

 **WFI 2024**
LIVE  **DECEMBER 3-4**
8AM - 12PM ET



Speakers at WFI 2024, December 3-4

[WFI 2024 Highlights and Press Release](#)

WFI 2024 Programs at a Glance

Day 1 Tuesday, December 3, 2024, 8:00AM–12:00PM ET

8:00–8:10 Welcome Introduction

8:10–9:15 Session 1: Sustainable Filtration for a Healthier Indoor Environment

9:15–9:20 Coffee break

9:20–10:30 Session 2: Filtration Advances for Emerging Technologies

10:30–10:35 Coffee break

10:35–11:45 Session 3: Innovative Materials and Technologies for Sustainable Filtration

11:45–12:00 2024 Product of the Year Award Ceremony

Day 2 Wednesday, December 4, 2024, 8:00AM–12:00PM ET

8:00–8:10 Welcome Introduction

8:10–9:15 Session 4: Circular Economy and Sustainable Water Solutions

9:15–9:20 Coffee break

9:20–10:30 Session 5: Regulatory Trends and Standards Updates

10:30–10:35 Coffee break

10:35–11:45 Session 6: Artificial Intelligence in Advanced Filtration Solutions

11:45–12:00 CFSS 2024 Class Graduation Ceremony and Conclusion



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Dr. Stephanie Taylor
CEO and Founder.
Building4Health, US

Session 1

SUSTAINABLE FILTRATION FOR A HEALTHIER INDOOR ENVIRONMENT

8:10–8:25 1.1. *Bridging IAQ and IEQ Metrics with Health Outcome Metrics*

Dr. John McKeon, MD, CEO of the Indoor Air Innovation & Research (air) Group, US

8:25–8:40 1.2. *The Importance of Filtration Technologies in Governing IAQ: A Post-Pandemic Perspective*

Dr. Iyad Al-Attar, Strategic Director and Instructor, World Filtration Institute (WFI), CA

8:40–9:05 1.3. *Enhancing Health by Filtration of PM_{2.5} & Infectious Aerosols*

Dr. Mark Cree Jackson, IEQ Subject Matter Expert, Daikin Comfort Technologies NA, US

9:05–9:15 Q&A and Panel Discussion

9:15–9:20 Coffee break



[Session 1 Presentations](#)

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Dr. Bryan Haynes
Sr. Technical Director,
Kimberly- Clark, US

Session 2

FILTRATION ADVANCES FOR EMERGING TECHNOLOGIES

9:20–9:35 **2.1. Novel Filters for Personnel Protection**

Dr. Seshadri Ramkumar, Professor, Mirza Khyum, Texas Tech University, US

9:35–9:50 **2.2. *Hydro charging Equipment for Efficient Production of Single-Ply Meltblown Filter Media***

Dr. Ingo Maehlmann, Director Sales & Marketing, Nonwovens, Oerlikon Neumag, DE

9:50–10:05 **2.3. *Advances in Unicellular Protein Purification by Novel Membrane***

Dr. Pierre-Yves PONTALIER, WFC14 Chair, Professor at INPT Toulouse, FR

10:05–10:20 **2.4. *Creating a More Sustainable, High-Efficiency Spunbond Filter Media***

Dr. Behnam Pourdeyhimi, Executive Director and Distinguished Professor, NC State Univ., US

10:20–10:30 Q&A and Panel Discussion

10:30–10:35 Coffee break



[Session 2 Presentations](#)

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Mr. Mike Clark
President, Filtration
Division, H&V, US

Session 3

INNOVATIVE MATERIALS AND TECHNOLOGIES FOR SUSTAINABLE FILTRATION

10:35–10:50 3.1. *Innovative HVAC Filtration Media for a More Sustainable Future*

Dr. Cedric Vallet, Head of Business Development, Ahlstrom, FR

10:50–11:05 3.2. *Nanofiber Structure Innovation at Different Scales for Improved Air Filter Performance*

Dr. Qijun Zhang, Research Associate, Chinese Academy of Sciences, CN

11:05–11:20 3.3. *A Novel and Universal Product Line for All Respiratory Protection Filter Needs*

Ms. Samia Moore, Global Market Manager, H&V, US

11:20–11:35 3.4. *Sustainability Advances in Single-Use Beverage Filtration Materials and Applications*

Dr. Vishal Bansal, CTO and VP of R&D and Sustainability, Glatfelter, US

11:35–11:45 Q&A and Panel Discussion

[Session 3 Presentations](#)



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Dr. Thomas Peters
Sr. Director, Dr. Peters
Consulting, DE

Session 4

CIRCULAR ECONOMY AND SUSTAINABLE WATER SOLUTIONS

8:10–8:35 4.1. *Investing in Health Pays Back: The WELL Building Standard*

Dr. Whitney Gray, Senior Vice President Research at International WELL Building Institute

8:35–8:50 4.2. *Mission Zero – Disruptive & Sustainable Water Filtration Media*

Mr. Friedrich Edelmeier, Vice President, HAVERBROCK, DE

8:50–9:05 4.3. *Next-Generation, Sustainable Nanofiltration Membranes for NOM and Nutrient Removal from Drinking Water*, **Dr. Paul Wiper**, CTO, MolyMem, UK

9:05–9:15 Q&A and Panel Discussion

9:15–9:20 Coffee break



[Session 4 Presentations](#)

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Dr. Jenny Berens
Director of Filter Engineering
Freudenberg Filtration Tech, US

Session 5

REGULATORY TRENDS AND STANDARDS UPDATES

9:20–9:35 5.1. *New EN 16798-3 and its Impact on Particle and Molecular Filtration Requirements*

Mr. Tobias Zimmer, Vice President, Camfil, DE

9:35–9:50 5.2. *Future ISO Standards on Sustainable Air Filtration*

Dr. Thomas Caesar, Vice President, Freudenberg Filtration Technologies, DE

9:50–10:05 5.3. *Emerging Global Regulatory Trends in Water Filtration*

Mr. Sreenath Kariveti, Global Segment Manager, Mann+Hummel Water and Fluid Solutions, DE

10:05–10:20 5.4. *The Impact of Water Scarcity, Regulatory Trends and Innovation on the Filtration Industry*, **Mr. Scott Yaeger**, President, FAST, USA

10:20–10:30 Q&A and Panel Discussion

10:30–10:35 Coffee break



[Session 5 Presentations](#)



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Dr. Ellie Amirasr
Vice President
MANN+HUMMEL, DE

Session 5

ARTIFICIAL INTELLIGENCE IN ADVANCED FILTRATION SOLUTIONS

10:35–10:50 6.1. *AI Enabled Indoor Air Quality system*

Dr. Jatin Khanpara, Chief Technology Advisor, Research Products, US

10:50–11:05 6.2. *Polymers & Formulations Innovations - Recent Developments & Critical Next Steps*

Dr. Kim Chiho, CTO, Matmerize, Inc., US

11:05–11:20 6.3. *Deep Learning for Predicting Characteristics of Porous Materials from 2D Images*

Dr. Qisheng Ou, Senior Research Scientist, University of Minnesota, US

11:20–11:35 6.4. *AI-driven Approaches for Filter Media Characterization and Element Design*

Dr. Florian Keller, Director Engineering New Materials & Digitalization, MANN+HUMMEL, DE

11:35–11:45 Q&A and Panel Discussion



[Session 6 Presentations](#)

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2024 PRODUCT OF THE YEAR AWARDS CEREMONY



Mike Malloy
Communications Director
World Filtration Institute, USA

December 3-4, 2024, 8:00 AM - 12:00 PM ET

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Welcome to WFI 2024 Class Graduation Ceremony



Christine Sun, PhD, CFSS
President, World Filtration Institute

Wednesday, December 4, 2024, 11:45 am – 12:00 pm EST

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Uniquely Crafted for Continuous Career Advancement, Team-Building, and Rapid Business Growth in Filtration!

Thank You for Your Attention

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