

# **American Filtration and Separations Society Spring Conference (AFS FiltCon 2019)**

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# CONFERENCE SCHEDULE

TIME	TUESDAY, APRIL 2, 2019			
7:00 am – 8:00 am	Speaker/Moderator Breakfast – Invitation only Terrace			
7:30 am– 8:00pm	Exhibits Open – Riverside Pavilion			
8:00 am	Welcome			
8:30 am	P1 – Prof. Wallace Leung <i>Clean Air with Novel Nanofiber Technologies</i> • Grand Ballroom C			
9:15 am	P2 – Don Largent <i>Advancements in High Purity Filtration Membrane Media Technology</i> • Grand Ballroom C			
10:00 am	Break – Exhibit Hall Riverside Pavilion			
	<b>Track 1 – Liquid</b>	<b>Track 2 – Air/Gas</b>	<b>Track 3 – Filter Media</b>	<b>Track 4 – Filter Media Testing</b>
	<b>S1.1 Modeling &amp; Simulation 1</b> Tom Carr & George Chase Grand Ballroom C	<b>S2.1 New &amp; Alternative Filtration &amp; Separation Technologies</b> Len Castellano Crystal 3	<b>S3.1 Filtration in Electric Vehicles</b> Godwin Severa Crystal 1 & 2	<b>S4.1 Test Standards – Liquid &amp; Media Characterization</b> Vincent Ebery Grand Ballroom A
10:20 am Presentation 1	<i>Multi Scale Modeling and Simulation of Filters with Geodict</i> Mehdi Azimian...1	<i>Microplastics from Tire Wear – Approaches for Retention and Analysis</i> Markus Knefel...191	<i>Protecting Proton Exchange Members Fuel Cells from Contaminants in Reactant Streams</i> Jean St. Pierre...352	<i>Pore Size Measurements of Fine Filtration Membranes by Capillary Flow, Thermoporometry and Evaporometry</i> Wilson Poon...495
10:45 am Presentation 2	<i>Droplet Adhesion to Hydrophobic Nonwoven Fibrous Surfaces</i> Mohammad Jamali...15	<i>How Sensors Enable Sustainability</i> Jorge Velazquez...204	<i>Innovative Filtration &amp; Separation Solutions for Electrified Powertrains</i> Martin Lehmann...364	<i>On the Adhesion Force between a Droplet and a Single Fiber</i> Hooman Tafreshi...506
11:10 am Presentation 3	<i>Fluid and Particle Transport through Fibrous Media and Fibrous Coatings</i> Hooman Tafreshi...26	<i>High Performance Metal Filter Cloth – New Developments in Woven Wire Filtration Media</i> Friedrich Edelmeier...216	<i>Demonstration of Fuel Cell Electric Bus Operation in Hawaii Volcanoes National Park</i> Scott Higgins...380	<i>Investigation: The Effect of Thickness on the Performance of the Coalesced Glass Fiber Media</i> AbdulAziz AlGhamdi...515
11:35 am Presentation 4	<i>CFD (Computational Fluid Dynamics) Modeling to Predict Adsorption Performance of Fixed Bed &amp; AMC (Airborne Molecular Contamination)</i> Amlan Chakraborty...37	<i>Simulation-Enhanced Bubblepoint Testing for Woven Wire Meshes</i> Markus Knefel...N/A	<i>Advances in Gas Filtration Materials Research: Fuel Cell Air Purification Challenge?</i> Godwin Severa...386	Panel Session

# CONFERENCE SCHEDULE

12:05 pm	AFS Awards Lunch Grand Ballroom B			
	<b>S1.2 Liquid Filtration</b> Ashish Bandekar Grand Ballroom C	<b>S2.2 Gas Phase</b> Saravanan Andan Crystal 3	<b>S3.2 Media</b> Optimization Andrew Goodby Crystal 1 & 2	<b>S4.2 Modeling &amp; Simulation 2</b> Martin Lehmann Grand Ballroom A
1:20 pm Presentation 1	<i>Fully Synthetic Filter Media for Automotive Oil Filtration</i> Xu (Marshall) Zhang...49	<i>SAAF™ Tech Tools: Decision Science Solutions for Gas Phase Filtration Applications</i> Jonathan Rajala...231	<i>Further Expanding Wetlaid Filtration Media Performance Through Innovation and Enhanced Product Testing</i> Andrew Goodby...401	<i>Characterizing Nonwoven Fibrous Materials via Realistic Microstructural Simulation</i> Ali Moghadam...527
1:45 pm Presentation 2	<i>Oil Removal from Oily Wastewater Using Electro-Coagulation</i> Yousef Alanezi...64	<i>Granular Filtration of Airborne Carbon Nanotubes</i> Chao Tan...241	<i>Composite Solutions in Process Filtration</i> James Sandy...412	<i>Effects of Electrospinning Parameters on Microstructure of Polystyrene Fibrous Mats</i> Sina Yousefi...540
2:10 pm Presentation 3	<i>How to Select Right System for Liquid Solid Separation</i> Kalyan Roy...N/A	<i>Review of New Publication: Astm E2814-18 Standard Specification for Industrial Woven Wire Filter Cloth</i> Ken Beyer...N/A	Panel	<i>Developing 3D Fully Parametric Multi-Scale Computational Model for Nonwoven Simulations</i> Emrah Demirci...552
2:35 pm Presentation 4	Panel	Panel		<i>Formal Solutions of Mathematical Models Governing Filtration with Applications Relevant to Nasa Mars Missions</i> Christopher Cox...565
3:00 pm	Break – Exhibit Hall Riverside Pavilion			
	<b>S1.3 Membranes</b> Peter Cartwright Location: Grand Ballroom C	<b>S2.3 Exhaust &amp; Air Filtration</b> Achim Dittler Crystal 3	<b>S3.3 Advanced Nonwoven Filter Media</b> Christine Sun Crystal 1 & 2	<b>S4.3 Nanofibers</b> Dr. Dmitry Luzhansky Location: Grand Ballroom A
3:20 pm Presentation 1	<i>Hollow Fiber Ultrafiltration – A Powerful Water Treatment Tool</i> Larry Zinser...80	<i>Bekipor Metal Fiber Media for Exhaust Filtration</i> Jeremie De Baerdemaeker...249	<i>The Nylon Advantage</i> Jay Forcucci...N/A	<i>Controlling Structures and Filtration Properties of High Surface Area Spunbound Nonwovens</i> Eunkyoung Shim...578

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3:45 pm Presentation 2	<i>The Ins &amp; Outs of Membrane Separations Technology</i> Peter Cartwright...95	<i>Cleaning and Validation of Metal Filters</i> Sue Reynolds...257	<i>Novel Pleatable, Full Synthetic Filter Media for HVAC and Furnace</i> Luuk van der Molen...419	<i>Faraday Bucket Measurement of Charged PVDF Nanofibers</i> Harshal Gade...597
4:10 pm Presentation 3	<i>A Novel Technology for the Prevention of Fouling in Membrane Filtration</i> Jie Lu...113	Panel	<i>Trends for Nonwoven Filter Media Development</i> Christine Sun...N/A	<i>Transparent Nanofiber Mat by Electrospinning: Preliminary Results</i> Zhangchao Tan...609
4:35 pm Presentation 4	Panel		Panel	Panel
5:00 pm – 6:00 pm	<b>Corporate Sponsors Meeting and Reception</b> Grand Ballroom B			
6:00 pm – 8:00 pm	<b>Student Poster Competition</b> Riverside Pavilion Foyer			
6:00 pm – 8:00 pm	<b>Networking Reception</b> Riverside Pavilion			
<b>TIME</b>	<b>WEDNESDAY, APRIL 3, 2019</b>			
7:30 am – 3:30 pm	<b>Exhibits Open</b> Riverside Pavilion			
7:00 am – 8:00 am	<b>Speaker/Moderator Breakfast – Invitation only</b> Terrace			
8:15 am	<b>Poster Award Announcements</b> Grand Ballroom C			
8:30 am	<b>P3 – Prof. Achim Dittler, Karlsruhe Institute of Technology</b> <i>Gas Cleaning in Demanding Applications – New Insights, Challenges &amp; Opportunities</i> Grand Ballroom C			
9:15 am	<b>P4 – Charles Vaillant, MANN+HUMMELL, GmbH</b> <i>Building New Business Models to Excel in Today's Competitive Market</i> Grand Ballroom C			
10:00 am	<b>Break – Exhibit Hall • Riverside Pavilion</b>			
	<b>Track 1 - Liquid</b>	<b>Track 2 – Air/Gas</b>	<b>Track 3 – Filter Media</b>	<b>Track 4 – Filter Media Testing</b>
	<b>S1.4 Cake Filtration</b> Wenping Li Grand Ballroom C	<b>S2.4 Air Intake 1</b> Ming Ouyang Crystal 3	<b>S3.4 Metal Media</b> Jeremie De Baerdemaeker Crystal 1 & 2	<b>S4.4 Testing &amp; Test Standards – Air/Gas</b> Martin Schmidt Grand Ballroom A
10:20 am Presentation 1	<i>Influence of Filter cloth, Backwashing Pressure and Filter Cake Thickness during Backwashing Treatment into Gas Phase</i> Patrick Morsch...N/A	<i>An Experimental Study of Spatial Distribution of Air Flow on Outlet Sides of Air Filter Elements</i> Jeremiah Cupery...269	<i>10 Micron Wedge Wire</i> Florian Van Assche...431	<i>Filter Media Testing in Accordance with ISO 16890</i> Daniel Bachman...618

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12:05 pm – 12:35 pm	<b>Lunch</b> <b>P5 – Peter Cartwright, Cartwright Consulting</b> <b>New Membrane Technologies for Water Treatment • Grand Ballroom B</b>			
	<b><i>S1.5 Adsorptive &amp; Metal Media</i></b> <b>Ted Yang</b> <b>Grand Ballroom C</b>	<b><i>S2.5 Air Intake 2</i></b> <b>Ming Ouyang</b> <b>Crystal 3</b>	<b><i>S3.5 Process Filtration</i></b> <b>Lin Zhou &amp; Patrick McGough</b> <b>Crystal 1 &amp; 2</b>	<b><i>S4.5 LATEST &amp; GREATEST</i></b> <b>John Hancock</b> <b>Grand Ballroom A</b>
1:20 pm Presentation 1	<i>Nanostructured Marshmallow Gels for Separations</i> Patricia Ignacio-de Leon...N/A	<i>Influence of Pleat Geometry on the Filtration and Cleaning Characteristics of Filter Media</i> Shihang Li...308	<i>Design of Multi-Cycle Single Use Filters</i> Brad Moakler...469	<b>Latest &amp; Greatest Session</b>
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