

FiltXPO™ 2020

Tuesday, February 25, 2020

Filter Media Training Course

9:00 AM - 6:00 PM

Wednesday, February 26, 2020

Filter Media Training Course

9:00 AM - 3:00 PM

Wednesday, February 26, 2020

Biopharmaceutical I

9:00 AM - 11:00 AM

Ruben Carbonell, Ph.D.
North Carolina State University

Chair

Michael Phillips, Ph.D.
MilliporeSigma

*Current Challenges, New Technologies
and the Future Prospects of Novel Filters
for
Biopharmaceutical Separations*

Ales Strancar
BIA Separations D.O.O.

*Progress and Future Potential of
Monolithic Chromatographic Resins in
Bioseparations*

Break

11:00 AM - 11:45 AM

Biopharmaceutical II

11:45 AM - 12:45 PM

Lunch

12:45 PM - 2:00 PM

Membrane Technologies I

2:00 PM - 4:00 PM

Behnam Pourdeyhimi, Ph.D. **Chair**
North Carolina State University
The Nonwovens Institute

Jang-Hoon Ha, Ph.D. *Preparations and characterizations of*
Korea Institute of Materials Science *low-cost porous ceramic membranes for*
potential microfiltration applications

Brendan Smith, Ph.D. *Antifouling Silicon Nanofiltration*
MIT *Membranes for Molecular-Scale*
Separations in Harsh Environments

Air/Gas Filtration I

2:00 PM - 4:00 PM

Paul Marold **Chair**
Lydall Performance Materials, Inc.

Michael O'Laughlin *Gas Phase and Particulate Filtration:*
Lydall Performance Materials, Inc. *Delivering Advanced Solutions with*
Performance Materials

Xin Feng *A Novel Long-life Air Cleaning Unit and*
China Academy of *Its Continuous Operation Performance*
Building Research *Analysis*

R. Vijayakumar, Ph.D. *Testing and Estimating Efficiencies of*
Aerfil, LLC *Ventilation Filters at PM2.5 and 10*

Break

4:00 PM - 4:45 PM

Membrane Technologies II

4:45 PM - 5:45 PM

Fred Lybrand
Hollingsworth & Vose Company

Title TBA

Behnam Pourdeyhimi, Ph.D.
North Carolina State University
The Nonwovens Institute

PLA Filter Media

Air/Gas Filtration II

4:45 PM - 5:45 PM

Carlos Lora
AAF International

*Airborne Pathogen Protection in
Livestock Operations*

Neeraj Shukla
Welspun India Limited

*An Innovative Filter Media for Hot Gas
Filtration Application*

Thursday, February 27, 2020

Nanofiber Media I

9:00 AM - 11:00 AM

Alexander L. Yarin, Ph.D.
University Of Illinois

Chair

Eliton Medeiros, Ph.D.
Federal University of Paraíba

*Production of Micro and Nanofibers by
Solution Blow Spinning: Current Status*

Alexander L. Yarin, Ph.D.
University Of Illinois

*Metallized Nanofibers: Pollutants
Removal and Medical Applications Based
on Filtration*

Stanislav Petrik
Technical University of Liberec

Title TBA

Break

11:00 AM - 11:45 AM

Nanofiber Media II

11:45 AM - 12:45 PM

Peter Kofinas, Ph.D.
Maryland Energy Innovation
Institute - University of Maryland

Title TBA

Andrew McDowell
NXTNANO

Title TBA

Lunch

12:45 PM - 2:00 PM

Water Filtration I

2:00 PM - 4:00 PM

Hervé Buisson
Veolia Water

Chair

Filter Media Modeling I

2:00 PM - 4:00 PM

Hooman V. Tafreshi, Ph.D.
Virginia Commonwealth University

Chair

Hooman V. Tafreshi, Ph.D.
Virginia Commonwealth University

*Understanding Airborne Dust and
Droplet Filtration via Multiscale
Modeling and Experiment*

Ben Mullins, Ph.D.
Curtin University

*Microscale Simulation of Gas-Liquid and
Liquid-Liquid Filtration*

Christopher Cox, Ph.D.
University of Tennessee
at Chattanooga

*Modeling to Design Filtration Processes
with Application to Crewed Missions in
Deep Space*

Break

4:00 PM - 4:45 PM

Water Filtration II

4:45 PM - 5:45 PM

Filter Media Modeling II

4:45 PM - 5:45 PM

Andreas Wiegmann
Math2Market GmbH

*Machine Learning-based Segmentation
and Identification of Individual Fibers
and Binders in μ CT Images of Fibrous
Media*

Dietmar Hietel, Ph.D.
Fraunhofer-Institute For
Industrial Mathematics (ITWM)

*Modeling and Simulation of Meltblown
Processes for Fine Fibre Nonwovens*

Chris Hogan, Ph.D.
University of Minnesota

*Modeling Heterogeneous Filter Structure
and Pressure Drop Evolution*

Friday, February 28, 2020

Separation & Manufacturing I

9:00 AM - 11:00 AM

Taylor Sulmonetti, Ph.D.
Exponent

Chair

Shagufta Patel, Ph.D.
Parker Hannifin Company

Title TBA

Carl Shenk
MYCELX Technologies Corporation

Title TBA

Hal Alper
MYCELX Technologies Corporation

The Problem with Inventors (They Are Not Smart) - Case Study in the Development and Use of PFAS and Other Fluorinated Hydrocarbons and the Resulting Ecological Mayhem

Break

11:00 AM - 11:45 AM

Separation & Manufacturing II

11:45 AM - 12:45 PM

Lothar Kaierle
American Truetzschler, Inc.

Filtration and Filter Media Production in a Changing World

Ray Piasek
Beckmann Converting, Inc.
& Sandel International

Textile Composites: Important Considerations for Performance and Manufacturability