





SHOW GUIDE

Showcasing the very latest in high-performance materials technology and nanotechnology for cutting-edge commercial applications

October 11 - 12, 2022

David L. Lawrence Convention Center, Pittsburgh, PA

Sponsored by:









WORLD-CLASS CONFERENCE

Welcome to The Advanced Materials Show and The Nanotechnology Show Conference! We are delighted to have you back and would like to invite you to join us in welcoming our new co-located partner, the renowned MS&T event series.

In these pages you will find brand new sessions and speakers delivering fresh insight on the most important issues for materials and nanotechnology end users and their whole value chains. Moreover we hope you will agree that this conference is a key opportunity for industry peers to gather, network and discuss the brightest and best developments in materials and nano innovation, manufacturing and application.

After an exciting first iteration in New Jersey in 2021, our industry-focused programs for 2022 address materials and nanotechnology R&D, product commercialization, application-led innovation and strategic conversations that encompass the shifting global landscape, for both end-users and materials and nanotechnology manufacturing industries.

You will find the pivotal themes of sustainability, supply, affordability and performance thread through every session as the whole industry moves towards achieving more with less when it comes to global resources, something both sectors are well placed to contribute to given their superior performance at a smaller scale.

We are covering an exciting array of application-led developments too with sessions addressing R&D within materials and nanotechnology for aerospace, automotive and e-mobility, energy storage, coatings, defense, aerospace, electronics and sensors.

New for 2022, the program features a 'Pitch Perfect' session, showcasing some of the best and brightest new companies in short, Shark Tank-style pitches to a panel of leading strategic and financial investors. This has been included with a view to gaining critical and constructive feedback for the pitcher, potentially winning them investment and utilising the expert panel's insight to demonstrate to all in attendance how to commercialize a product, understand your value proposition and move up a level in the industry.

With a diverse array of session formats and speakers from across the value chain this is going to be a lively couple of days. We hope you have a fantastic week!

Brought to you by:



Olivia Ryan-Hill Conference Director Event Partners Ltd



FEATURED SPEAKERS



Anna Ivashko Researcher ExxonMobil



Dr. Chris BrownExecutive Director
Materials Discovery **Schrödinger**



Dr. Lirong BaoGlobal Science &
Technology Director,
Aerospace Materials **PPG**



Kjirsten Breure President HydroGraph Clean Power



Dr. Mano ManoharanChief Technologist - Industrialization **GE Aviation**



Chiara Venturini
Director General
Nanotechnology
Industries
Association



Colin Greenspon Co-Founder Narya



Dr. Bryce AnzelmoDirector of Product
Management **Lyten**



Dr. Hari HarikumarVP & GM Advanced
Carbon & Membranes
CHASMTek



Dr. Leroy Magwood Jr.Chief Technologist Officer **XG Sciences**



Ask our speakers questions and vote for the ones you want to hear answered - straight from your phone with Slido!

Go to www.sli.do and enter code AMU2022 or scan this OR code.





CONFERENCE AGENDA • DAY 1

TRACK 1 • ADVANCED MATERIALS TRACK

Keynote: Building a Resilient, Sustainable Materials Industry Amidst Global Upheaval

9:30 AM - 10:45 AM • TRACK 1

Dr. Mano Manoharan, Chief Technologist, GE Aviation

Dr. Ed Rakiewicz, Research Fellow, PPG





Pitch Perfect: On Stage Investment Showcase for Transformative Materials and Technologies

11:15 AM - 12:30 PM • TRACK 1

Jay Amarasekera, Senior Technology Manager, SABIC Ventures Colin Greenspon, Co-Founder, Narya Hongkai He, Managing Partner, Taihill Venture Kelli Booth, Co-Founder, Early Charm Ventures









Meeting the Increasing Demand for Advanced Materials in Electric Vehicles

1:45 PM - 3:00 PM • TRACK 1

Kurt Swogger, CEO, Molecular Rebar Design



Transforming Energy Storage with Innovative Materials

3:20 PM - 4:30 PM • TRACK 1

Dr. Bryce Anzelmo, Director of Product Management, **Lyten Andy Holwell**, Manager Business Sector Industrial Research, **Zeiss Dr. Jordan Swisher**, Director of High-Throughput Experimentation, **Stoicheia**







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TRACK 2 • NANOTECHNOLOGY TRACK

Keynote: Understanding the Macro Factors that Will Accelerate Nanotechnology Uptake

9:30 AM - 10:45 AM • TRACK 2

Kjirsten Breure, President, HydroGraph Clean Power

Landon Mertz, CEO, Cerion Nanomaterials

Paul Ferguson, Dir. of Business Development - Advanced Carbons, CHASMTek







Overcoming Perceived Environmental and Toxicological Concerns Around Nanotechnology

11:15 AM - 12:30 PM • TRACK 2

Dr. Leroy Magwood Jr., CTO, XG Sciences

Chiara Venturini, Director General, The Nanotechnology Industry Association

Dr. Robert Janssen, Partner, AdviLex Regulatory Compliance







The Technical Challenges of Scaling Up Manufacturing and Integration

1:45 PM - 3:00 PM • TRACK 2

CHAIR: Anna Ivashko, Researcher, ExxonMobil

James Sherrill, CEO, General Graphene

Dr. Matt Weimer, R&D Scientists, Forge Nano

Dr. Richard Collins, Research Director, North America Lead, IDTechEx

Dr. Hari Harikumar, VP & GM Advanced Carbon & Membranes, CHASMTek











How to Successfully Commercialize Nano and Other Advanced Materials

3:20 PM - 4:30 PM • TRACK 2

CHAIR: Dr. Ken Malone, CEO, Materic

Terrance Barkan, Executive Director, Graphene Council

Haley Keith, Founder and CEO, MITO Materials

Paul Glass, VP Engineering + Business Unit Director, B2C Products, Setex Technologies









CONFERENCE AGENDA • DAY 2

TRACK 1 • ADVANCED MATERIALS TRACK

Additive Manufacturing and Advanced Materials - Taking a More Sustainable Approach to Manufacturing?

9:30 AM - 10:40 AM • TRACK 1

Shawn Allan, VP. Lithoz America

Dr. Fan Zhang, Physicist, **U.S. Department of Commerce National Institute of Standards and Technology (NIST)**





Maximizing Digital Tools in Materials Development, Fabrication and Integration

11:10 AM - 12:20 PM • TRACK 1

CHAIR: Dr. Richard Collins, Research Director, North America Lead, IDTechEx

Anna Ivashko, Researcher, ExxonMobil

Dr. Chris Brown, Executive Director, Materials Discovery, Schrödinger







Advances in Coatings for Industrial Applications

1:30 PM - 2:45 PM • TRACK 1

Dr. Sean Clancy, Director of Coatings, HZO

Dr. Rakesh Kumar, VP - Technology, SCS Coatings

Penelope Burnham, Vice President North America, Nycote Laboratories Corporation US







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TRACK 2 • NANOTECHNOLOGY TRACK

Disruptive Materials for Electronic Devices and Sensors at the Micro and Nano Scale

9:30 AM - 10:40 AM • TRACK 2

Stephen Farias, CTO, Materic Richard Ploss, CEO, ACS Material, LLC

Dr. Anis Rahman, Chief Technology Officer and President, Applied Research & Photonics







Managing Critical Temperature and Pressure Extremes for the Aerospace Sector

11:10 AM - 12:20 PM • TRACK 2

Dr. Lirong Bao, Global Science & Technology Director, Aerospace Materials, PPG



Driving Materials and Nanoscale Innovation for Defense Applications

1:30 PM - 2:45 PM • TRACK 2

Landon Mertz, CEO, Cerion Nanomaterials



Conference agenda subject to change

