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IMAT

ELEVATING PERFORMANCE TOGETHER

October 20–23, 2025 | Detroit, Michigan

SPONSORED BY: SOLVE INVENT THE FUTURE

Executive Leadership Forum

Featuring Industry, Academia & Government Perspectives

MONDAY, OCTOBER 20 | 8:00 – 11:00 A.M. | HUNTINGTON CONVENTION CENTER | DETROIT, MI

ASM President Navin Manjooran has launched this groundbreaking NEW executive leadership forum at IMAT 2025—bringing together leaders from industry, academia, and government to shape the future of materials science, engineering, and technology. This forum showcases how these sectors drive innovation, shape policy, and accelerate research and commercialization through strategic collaboration.

What to Expect:

- Insights into cutting-edge materials advancements and real-world applications
- Perspectives on sustainability, commercialization, and workforce development
- Deep dives into policy, funding, and global innovation trends
- Strategies for fostering collaboration across sectors

CHAIR

DR. NAVIN MANJOORAN

PH.D., MBA, C. ENG., FASM, FACERS, FIIM, FIEI, FIMMM, FIIE, FAEM, HOF-VTAEE
CHAIRMAN, SOLVE
PRESIDENT & CHAIR OF THE BOARD OF TRUSTEES, ASM INTERNATIONAL

A global leader in materials science, energy, and healthcare innovation, Dr. Manjooran has held executive roles at Siemens AG and contributed to major win-win collaborations worldwide. His advanced education are in engineering and business from institutions including Virginia Tech, the University of Florida, University of Chicago, and Harvard. With >200 publications/presentations, 12 books, and 12 patents/disclosures, he has received >100 prestigious awards and been named a Fellow of 7 global professional societies. He has served on multiple boards, including Virginia Tech, University of Chicago, and MIT Energy Initiative. He has been inducted into the Hall of Fame of Virginia Tech-*The Virginia Tech Academy of Engineering Excellence,* for his sustained impact in engineering and leadership. Out of more than including 80,000 living alumni of college of engineering, he is one of only 190 individuals to receive this pinnacle honor, recognizing sustained excellence and lasting impact in the field, since the university was founded in 1872.

MODERATORS

RENEE PARENTE

ADVANCED MICRO DEVICES (AMD)
DIRECTOR OF TECHNOLOGY AND PRODUCT ENGINEERING
MODERATING: INDUSTRY

- Leads strategic initiatives and workforce development programs
- President of ASM's Electronic Device Failure Analysis Society

DR. ZI-KUI LIU, FASM

THE PENNSYLVANIA STATE UNIVERSITY
DOROTHY PLATE ENRIGHT PROFESSOR IN MSE
MODERATING: ACADEMIA

- Leading expert in computational materials science and design
- Founding director of the NSF Center for Computational Materials Design
- Coined the term 'Materials Genome®'; past ASM International President

DR. DAVID GOTTHOLD

PACIFIC NORTHWEST NATIONAL LABORATORY (PNNL)
STRATEGIC ADVISOR
MODERATING: GOVERNMENT

- Strategic Advisor with extensive experience in federal research strategy and technology transition
- Focused on materials innovation

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PANELISTS – INDUSTRY

DR. AZIZ ASPHAHANI, FASM
QUESTEK INNOVATIONS
CHAIRMAN AND CEO
- Recognized for breakthroughs in corrosion-resistant alloys
- Pioneer in Integrated Computational Materials Engineering (ICME)

DR. DAVID FURRER, FASM
PRATT & WHITNEY
PRINCIPAL FELLOW AND DISCIPLINE LEAD FOR MATERIALS AND PROCESSES
- Expert on aerospace materials
- Focused on development, qualification, and lifecycle engineering

JOHN R. (CHIP) KEOUGH, PE, FASM
LIGHTSPEED CONCEPTS / JOYWORKS LLC
CHAIRMAN / PRESIDENT
- Inventor on 12 U.S. patents, prolific speaker and author, and active leader on multiple materials education and industry boards
- Decades of leadership in heat treating and 3D printing for metal casting

DR. DEHUA YANG, FASM
EBATCO
PRESIDENT
- Expert in advanced materials testing and nanotechnology
- Supports industrial innovation through analytical services
- ASM International Board of Trustees Member

PANELISTS – ACADEMIA

DR. VIOLA L. ACOFF
UNIVERSITY OF MISSISSIPPI
DEAN OF ENGINEERING
- Expert in welding and additive manufacturing
- Published more than 80 peer-reviewed papers and secured more than $13 million in externally funded grants
- Member of the TMS presidential rotation

DR. HANCHEN HUANG, FASM
OKLAHOMA STATE UNIVERSITY
DEAN OF ENGINEERING AND ENDOWED CHAIR PROFESSOR
- Fellow of four major societies with leadership roles at Northeastern, UNT, and UMass Dartmouth
- Member of the ASM International Board of Trustees

DR. JAGDISH NARAYAN, FASM
NORTH CAROLINA STATE UNIVERSITY
DISTINGUISHED CHAIR PROFESSOR IN THE DEPARTMENT OF MSE
- Distinguished Visiting Scientist at Oak Ridge National Laboratory
- Pioneer in materials synthesis and nanostructure engineering
- Developed transformative techniques for advanced materials

DR. DAVID B. WILLIAMS, FASM
THE OHIO STATE UNIVERSITY
EMERITUS DEAN
- Renowned materials science researcher
- Authored over 450 publications in materials characterization
- Led major academic and economic development initiatives

PANELISTS – GOVERNMENT

MIKE BUDINSKI, FASM
NATIONAL TRANSPORTATION SAFETY BOARD (NTSB)
ACTING DIRECTOR OF THE OFFICE OF RESEARCH AND ENGINEERING
- Previously served as chief of the NTSB's Materials Laboratory Division
- Contributed to more than 1600 accident investigations, providing key insights through metallurgical and materials failure analysis

DR. ELLEN CERRETA, FASM
LOS ALAMOS NATIONAL LABORATORY
ASSOCIATE LABORATORY DIRECTOR FOR PHYSICAL SCIENCES
- Researches microstructure-property relationships under extreme conditions
- Leads programs in materials performance and dynamic behavior

DR. RAM EVANATHAN
PACIFIC NORTHWEST NATIONAL LABORATORY
DIRECTOR OF ENERGY PROCESSES AND MATERIALS DIVISION AT PNNL
- Advances materials for energy efficiency and sustainability
- Focused on national energy security and resilience

DR. ERIC K. LIN
NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY (NIST)
ACTING ASSOCIATE DIRECTOR FOR INNOVATION AND INDUSTRY SERVICES
- Leads U.S. manufacturing and innovation programs
- Drives public-private partnerships to enhance industrial competitiveness