

29th Annual SEMI Advanced Semiconductor Manufacturing Conference

April 30 - May 3, 2018
Saratoga Springs, New York

Post Show Report

Event Highlights

Three Day Program
408 Registrants

Keynote Speeches:

- *Semiconductor Innovations for the AI Era*
Dr. Mukesh Khare, VP, Semiconductor Technology Research, IBM Research
- *Semiconductor Inflexion Points at 3nm and Beyond*
Anda Mocuta, Director, Technology Solutions & Enablement, imec
- *China Chips - Trade, Taiwan & Technology*
Robert Maire, President, Semiconductor

Tutorial:

'Big Data Analytics and the Smart Factory in Microelectronics Manufacturing'

Professor James Moyne, Associate Research Scientist, Mechanical Engineering, University of Michigan; Applied Materials - Global Services

Technical Sessions:

Advanced Equipment and Materials Processes & Emerging Technologies, Advanced Metrology, Advanced Process Control (APC), Contamination Free Manufacturing (CFM), Defect Inspection, Equipment Reliability and Productivity Enhancement, Factory Optimization, Yield Enhancement/Yield Learning

Panel:

[Industry 4.0 and the Evolution of Smart Semiconductor Manufacturing](#)

Panelists:

- Nancy Greco, Director, DE, Research Cognitive IoT Solutions, Next Generation Computing, IBM Watson Research
- Carson Henry, Fab Director, Micron Technology
- Julie Jacob, Executive Director, Ernst & Young
- James Moyne, Associate Research Scientist, Mechanical Engineering, University of Michigan; Applied Materials
- Dave Mayewski, Regional Industry Director, Rockwell Automation
- Paul Werbaneth, Global Product Marketing Director, Intevac (moderator)

Special Event:

Women in Semiconductors at ASMC 2018 - 'Growing the Representation of Women in Leadership'

Networking receptions/luncheons



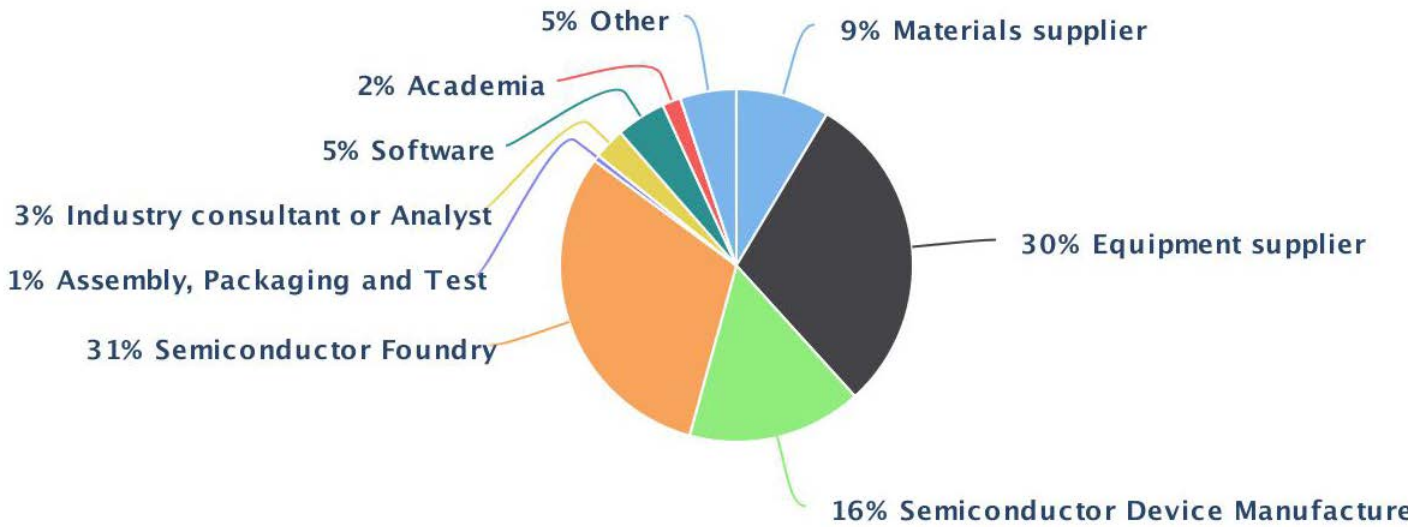
ASMC features welcome and poster receptions. The annual Saratoga reception, a social highlight of the conference was held and co-hosted again by the Saratoga County Prosperity Partnership is a social highlight of the conference. The receptions and luncheon provide a perfect opportunity to network with customers, supplier and industry peers.

Program Summary

For close to 30 years, ASMC has brought together device manufacturers, equipment and materials suppliers, and academics during a strategically focused conference. The Conference provides attendees with opportunities to expand their professional knowledge base and to network with industry colleagues from around the world in a positive business setting. ASMC has been a leading international technical conference for exploring solutions to improve the collective microelectronics manufacturing expertise. Solving the challenges presented by semiconductor manufacturing is an ongoing collaborative effort by users, device makers, equipment and materials suppliers and academia. Efficient forum for exchanging engineering lessons-learned, and for disseminating and absorbing novel, practical solutions to wafer fabrication manufacturing issues. ASMC provides an unparalleled platform for semiconductor professionals to network and learn the latest information in the practical application of advanced manufacturing strategies and methodologies.

Peer-reviewed technical papers presented at ASMC highlight industry innovations with specific results. Because ASMC call for papers is developed by a committee representing a large cross section of the device, equipment/materials industry and academia, technical presentations are a result of an industry-wide call for papers, the peer-reviewed and accepted abstracts reflect manufacturing issues which are significant and current.

Attendee Demographics



Survey Results

Overall Satisfaction

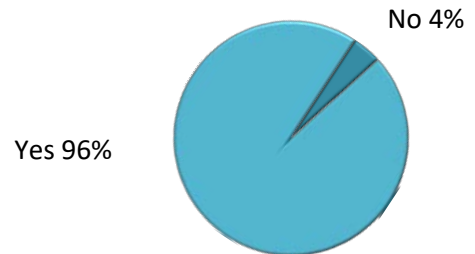
- Program Structure and Content * * * *
- Tutorial * * * *
- Keynote speakers * * * * *
- Networking * * * *

Satisfaction (1 - 5 Stars)

Benefits provided by ASMC 2018 rated as *'Important to Extremely Important'* by over 90% of respondents:

- ✓ Learning new manufacturing processes and challenges; learning from peers
- ✓ Hearing specific speakers and/or topics
- ✓ Networking opportunities with peers, customers and/or suppliers

Would you recommend this conference to your colleagues and business associates?



*based on 179 respondents

What attendees said about the conference:

'Excellent venue for learning, sharing, and helping provide guidance for our future generations of manufacturing leaders!'

'Outstanding show this year. Our experience presenting at the poster session exceeded our expectations. Really valuable interactions. The panel discussion was a highlight, as in previous conferences. Would like to see a little more time allocated to that if possible.'



Women in Semiconductors

'Women in Semiconductors at ASMC' continues to be rated highly by attendees, who appreciate the opportunity to meet with industry colleagues. This year's program included a keynote (#dontsettle) and panel discussion, as well as time for attendees to meet in an interactive breakout. This year's theme, 'Growing the Representation of Women in Leadership' touched on

- Moving into management
- Modern take on work/life balance
- Mechanics of mentoring

Our discussion will touch on:

- Aiding women in developing their skills and talents in a male dominated industry
- Supporting the development and advancement of high potential women
- Creating diverse opportunities within existing workforce structures
- Sustainable networking



"The breakout discussions gave me a lot of useful advice that I started to apply. For example expressing interest in a management role to management as they might not realize I'm interested and thus not put me in the candidate pool."

Attendee - Women in Semiconductors at ASMC 2018

ASMC 2018 Participating Companies

Abbie Gregg, Inc.
Advantest
Air Liquide Electronics
AMETEK Fluoropolymer Products
Analog Devices
Applied Materials
Applied Seals North America
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ASML
Automated Manufacturing
Solutions
Axcelis Technologies
BISTel America
Brewer Science, Inc.
Bruker Semi
Carl Zeiss
ChemTrace
Cimetrix Incorporated
Cleanpart Southwest LLC
CNW - Courier Network
Comet Technologies USA
CONVANIT
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Crest Technology
DR YIELD software & solutions
Dunn Strategy Group
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Landauer
Levitronix Technologies
Linde Electronics and Specialty
Gases
M+W Group
Macronix
Mandatum Consulting
Matheson
Mega Fluid Systems, Inc.
Mentor Graphics
Microchip
Microfier
Micron Technology
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Mohawk Valley EDGE
Nanotronics Imaging
Nexxia Agbo Abel & Co.
Nihon Pall Ltd.
Nikon Precision Inc.
Northrop Grumman
Nova Measuring Instruments Ltd.
NuFlare Technology, Inc.
Nye Lubricants
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Laboratory Co. Ltd.
Siconnex Customized Solutions
Silfex/Lam Research Corporation
Soitec
Sparetech
STMicroelectronics
SUMCO Phoenix Corp
SUNY Polytechnic Institute
Swagelok
SYSTEMA GmbH
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Texas Instruments
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Tokyo Electron Miyagi Limited
Transphorm
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ASMC 2018 Sponsors

The 29th Annual SEMI Advanced Semiconductor Manufacturing Conference was made possible, in record numbers through the generous support of our sponsors. SEMI and the ASMC Committee express sincere thanks to the following companies and organizations:



2019 Program

6 - 9 May 2018
Saratoga Springs, New York

The three-day program will consist of parallel technical sessions, keynotes, tutorials and a panel discussion. The Conference provides an exceptional opportunity to meet face-to-face with industry and academic representatives of local and global companies involved along the microelectronics value chain. The conference is accepting abstract submissions through October 9, 2018. For author information, visit [ASMC 2019 Call for Papers](#).

Why Become an ASMC Speaker?

- Recognition from industry peers
- Interaction with representatives from leading manufacturers, suppliers and academics
- Opportunity to share your knowledge, experiences and practical expertise
- IEEE Publication
- Consideration for ASMC 2019 Best Paper award (sponsored by Entegris)
- Consideration for ASMC 2019 Best Student Paper award (sponsored by GLOBALFOUNDRIES)

Abstracts are peer-reviewed by members of ASMC technical committee with the goal of developing a high quality, informative conference. All abstracts are evaluated on the strength of the abstract submitted, including content matter and relevance to semiconductor manufacturing.

Who Should Attend

This program is designed for industry professionals seeking to expand knowledge of microelectronics manufacturing. Attendees include:

- IC Manufacturers
- Equipment Manufacturers
- Materials Suppliers
- Chief Technology Officers
- Operations Managers
- Process Engineers
- Product Managers
- Academia

Speaking Opportunities

SEMI encourages industry thought leaders to share their expertise in semiconductor manufacturing in keynotes, tutorials or panel.

Sponsorship Opportunities

Companies seeking to reach out to decision makers involved in the all aspects of semiconductor manufacturing, microelectronics supply chain can leverage the many promotional opportunities available for this program. For information, contact Shane Poblete at spoblete@semi.org; +1.202.847.5983

For More Information

Please contact Margaret Kindling at mkindling@semi.org, telephone: +1.202.393.5552