



28th Annual SEMI Advanced Semiconductor Manufacturing Conference

May 15-18, 2017
Saratoga Springs, New York

Post Show Report

Event Highlights

Three Day Program
382 Registrants

Keynote Speeches:

- *Future Trends of Smart Car & Associated Electronics*
Roberto Rapp, Vice President of Technology, Robert Bosch GmbH
- *Technology and Data in the Fabless World*
William Miller, Vice President of Engineering, Qualcomm
- *A New Paradigm in the Tech Sector: Bids, Booms or Bust?*
Robert Maire, President, Semiconductor Advisors

Tutorial:

Overview - Piezoelectric MEMS

Prof. Gianluca Piazza, ECE Department; Director of Nanofabrication Facility,
Carnegie Mellon University

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, Green Factory, Yield Enhancement/Yield Learning, 3D and Power Technologies

Panel:

Next Big Thing - Technology Drivers for Next Gen Manufacturing: Where will the Road take us?

Panelists:

- Jayachandran Bhaskaran, Vice President, Infineon Technologies AG (automotive)
- Subramanian S. Iyer, Distinguished Chancellor's Professor, Electrical Engineering, UCLA (Heterogeneous Integration Roadmap)
- William Miller, Sr. Vice President of Engineering, Qualcomm (5G/Communications)
- Rob O'Reilly, Senior Member Technical Staff, Analog Devices (IoT)
- Thomas Sonderman, Vice President & General Manager, Software Business Unit, Rudolph Technologies (Smart Manufacturing)
- Paul Werbaneth, Global Product Marketing Director, Intevac (moderator)

Special Event:

Women in Semiconductors at ASMC 2017 - 'The Power of Talk: Getting a Seat at the Table'

Networking receptions/luncheons



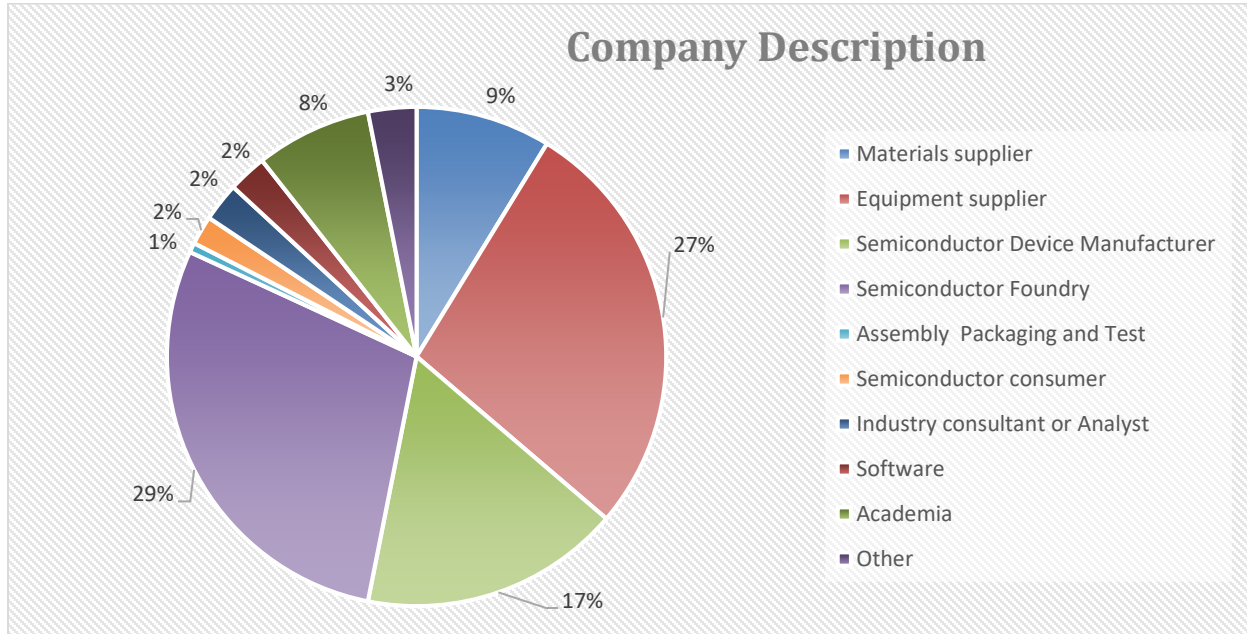
ASMC features welcome and poster receptions. The annual Saratoga reception, co-hosted by the Saratoga County Prosperity Partnership at the historic Canfield Casino is a social highlight of the conference. The receptions and luncheon provide a perfect opportunity to network with customers, supplier and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

Program Summary

For almost 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

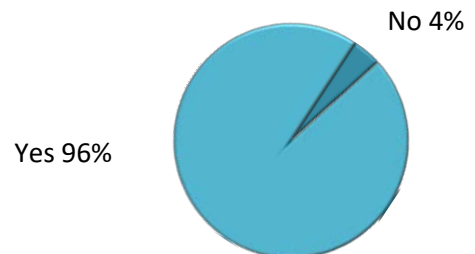
- Program Structure and Content * * * *
- Tutorial * * * *
- Keynote speakers * * * *
- Networking * * * *

Satisfaction (1 - 5 Stars)

Benefits provided by ASMC 2017 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?

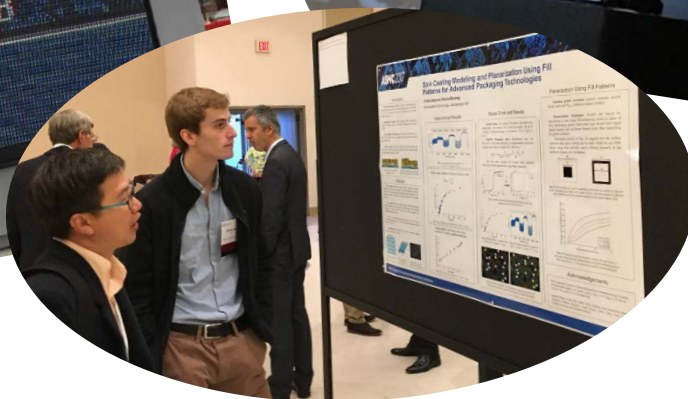


*based on 160 respondents



'I had the honor and privilege to serve, once again, as the panel discussion moderator at SEMI ASMC 2017 which was held, once again, in lovely Saratoga Springs, NY, the week of 15 May. Along with record attendance this year and a very high quality to the papers, posters, keynote talks, tutorial, and networking opportunities at the conference, ASMC 2017 featured two panelists squaring off, so to speak, on prospects for the 7nm process node.'

Paul Werbaneth, Intevac (writing for 3D InCites)



Women in Semiconductors

Attendees at the inaugural event in 2016 ranked this dialog as one of the most relevant topics to the future of their business and the industry as a whole. The 'Women in Semiconductors at ASMC 2017' addressed 'The Power of Talk: Getting a Seat at the Table', with a focus on effective communication skills in a male-dominated industry, who gets heard and why. The program attracted over 100 attendees and provided women and men an opportunity to discuss issues such as dynamics of gender styles, managing biases, and negotiating to win.



"It was very nice to actually understand that many women share very similar experiences and it is not my own personal issues. It is sometimes not very obvious, but gender bias do exist and has impact in my work situations. I am more aware from this workshop..."

Women in Semiconductors attendee

ASMC 2017 Participating Companies

Air Liquide Electronics US
Analog Devices
AOVtech
Applied Materials
Applied Research & Photonics
Applied Seals North America
Arc Machines Inc
Arizona State University
Aselsan Electronic Industries
ASML
Atotech USA
Automated Manufacturing Solutions
Axcelis Technologies
BISTel America
Brewer Science
Bright Red Systems
Busch Vacuum Pumps & Systems
Camfil AB
Carl Zeiss
Carl Zeiss Microscopy
Carnegie Mellon University
CEA Leti MINATEC
ChemTrace
Cimetrix Incorporated
Coventor
Dow Chemical
DR YIELD software & solutions
Dunn Strategy
DuPont
Dynaloy
E. A. Fischione Instruments
Ebara Technologies
Ecole des Mines de St-Etienne
Edwards Vacuum
EKKSC
Entegris
EV Group
FEI
Festo BV
Fraunhofer IISB
General Electric
GLOBALFOUNDRIES
Greene, Tweed
HAMAMATSU PHOTONICS
HHGRACE
Hitachi High-Technologies
HORIBA Scientific
IBM
IBM Research
II-VI M Cubed
imec
Infineon
Intel
Intevac
JSR Micro
KLA-Tencor
KMG Chemicals
KRISS
Lam Research
Levitronix
Liberty University
Linde Electronics and Specialty Gases
M+W Germany
Macronix
Matheson
MCG MELLOR Consulting Group
Microfier
Micron Technologies
MIT
Morgan Advanced Materials
Nikon Precision Inc.
Northrop Grumman Mission Systems
Nova Measuring Instruments
NuFlare Technology
ON Semiconductor
OSRAM Opto Semiconductors (Malaysia)
Pall Corporation
Park Systems Inc.
PEER Group
Performance Motion Devices
PeroxyChem
Praxair Electronics
Process Technology
PSK
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Quantum Analytics
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SEMILAB
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SilcoTek Corporation
Silfex - A Division of Lam Research Corporation
SIMONA AMERICA
SK hynix
Solvay Specialty Polymers
Sparetech
SSOE Group
Stevens Institute of Technology
STMicroelectronics
SUMCO Phoenix Corp
Sumitomo Heavy Industries
Sungkyunkwan University
SUNY Polytechnic Institute
Swagelok Albany
Synopsys
Systema
Technetics Group
TEL
Telit
Texas Instruments
The Engineers' Daughter
Thermo Fisher Scientific
TNO
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The 28th Annual SEMI Advanced Semiconductor Manufacturing Conference was made possible through the generous support of our sponsors. SEMI and the ASMC Committee express sincere thanks to the following companies and organizations:



ASML



BISTel



Supporting organizations



2018 Program

30 April - 3 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, 2017. For author information, visit [ASMC 2018 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 2018 Best Paper award (sponsored by Entegris)
- Consideration for ASMC 2018 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