

**JULY 20-23, 2020**  
**VIRTUAL EVENT**

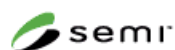
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## [LIVE] PROGRAMS AGENDA

**MONDAY, JULY 20, 2020**

9:00am-10:15am	<b>SEMI Annual General Body Meeting (SEMI Members Only)</b>		
10:00am-12:00pm	<b>LIVE EXPO HALL—Visit the Exhibits and Network</b>		
<b>PACIFIC TIME</b>	<b>KEYNOTES &amp; EXECUTIVE PANELS</b>		
10:30am-11:00am	<p>The Most Productive Half Century in History</p> <p><i>Stephen G. Newberry;</i> <i>James C. Morgan, Applied Materials;</i> <i>Stanley T. Myers, ST Myers Associates;</i> <i>Dave Toole, The Gig Economy Group;</i> <i>G. Dan Hutcheson, VLSI Research</i></p>		
11:00am-11:30am	<p>Collaborating on Innovation: The SEMI and imec Partnership</p> <p><i>Ajit Manocha, SEMI;</i> <i>Luc Van den hove, imec</i></p>		
11:30am-11:45am	<p>Presentation of SEMI Award to ASML</p> <p><i>Dave Anderson, SEMI Americas;</i> <i>Bill Bottoms, 3MTS</i></p>		



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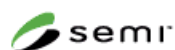
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## [LIVE] PROGRAMS AGENDA

**TUESDAY, JULY 21, 2020**

9:00am-3:00pm					<b>LIVE EXPO HALL—Visit the Exhibits and Network</b>					
<b>PACIFIC TIME</b>		<b>KEYNOTES &amp; EXECUTIVE PANELS</b>								
9:00am-9:15am		<b>Welcome Remarks</b> <i>Ajit Manocha, SEMI; Bertrand Loy, Entegris; Dave Anderson, SEMI Americas</i>								
9:15am-9:45am		<b>Keynote</b> The Honorable Al Gore in Conversation with Heather Clancy of GreenBiz.com <i>Presented by Applied Materials</i>								
9:45am-10:15am		<b>Keynote</b> Making Possible a Better Future <i>Gary Dickerson, Applied Materials</i>								
10:15am-11:00am		<b>Panel</b> Bending the Climate Curve: Enabling Sustainable Growth of Big Data, AI & Cloud Computing <i>Moderator: Eric Masanet, PhD, UC Santa Barbara; Ellie Yieh, Applied Materials; Rob Aitken, PhD, Arm; Cliff Young, PhD, Google; Samantha Alt, Intel; Moe Tanabian, Microsoft; Nicola Peill-Moelter, PhD, VMware</i>							<b>Visit the Test Vision Symposium Theater</b>	
<b>PACIFIC TIME</b>		<b>KEYNOTES &amp; EXECUTIVE PANELS</b>			<b>SMART MANUFACTURING</b>		<b>MATERIALS</b>		<b>TEST VISION SYMPOSIUM: Expanding the Role of Test</b>	
10:30am-11:00am					Full Stack Computational Optimization Through Virtual Fabrication <i>Joe Ervin, PhD, Coventor, a Lam Research Company</i>		Moore's Law Enablers Directed Self Assembly: Supply Chain Ecosystem Enablement <i>Chandrasekhar Sarma, Intel</i>		5G Wafer Test and the New Age of Parallelism <i>Daniel Bock &amp; Choon Beng Sia, FormFactor</i>	



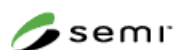
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11:00am-11:30am	<b>Keynote</b> Digital Matters: Why Semiconductor Will Improve Our Lives More in the Next Ten Years Than in the Last 50 Combined <i>Steve Brown, Possibility and Purpose</i>	Handling Data Sources, Velocity, and Volume for APC in Semiconductor Backend Assembly, Test, and Packaging Facilities <i>Chris Reeves, Applied Materials</i>	Heterogeneous Integration & Materials Applications <i>Bill Bottoms, 3MTS</i>	RF Test Strategies and Solutions for 5G Millimeter Wave Devices <i>George Hurtarte, Teradyne</i>
11:30am-12:00pm		Real-Time/In-situ Process Monitoring using Quartz Crystal Microbalance (QCM) Technology for Front-End Application <i>Dan Jakob, ON Semiconductor</i>		
12:00pm-12:30pm	SEMICON West Views & News Conference			
<b>PACIFIC TIME</b>		<b>SMART MANUFACTURING</b>	<b>ADVANCED PACKAGING &amp; HETEROGENEOUS INTEGRATION</b>	
12:30pm-1:00pm		Machine Learning Guided OCD Metrology Solution for Continuous Scaling of Semiconductor Devices <i>Yudong Hao, Onto Innovation</i>	HPC, Data Centers & Advanced Packaging <i>William Chen, PhD, ASE Group;</i> <i>Dale Becker, PhD, IBM;</i> <i>Ravi Mahajan, PhD, Intel;</i>	
1:00pm-1:30pm		Smart Manufacturing: Addressing Industry Challenges with Industry Analytics <i>Sam Wong, Keysight Technologies</i>	Future Communications & Aerospace & Defense <i>Tim Lee, Boeing;</i> <i>Jeff Demmin, Keysight Technologies;</i> <i>Amr Helmy, PhD, University of Toronto</i>	
1:30pm-2:00pm		Achieve Manufacturing Excellence Through Knowledge Empowerment <i>Tom Ho, BISTel America</i>	Medical/Health & SiP/Module <i>William Chen, PhD, ASE Group;</i> <i>Mark Poliks, PhD, Binghamton University;</i> <i>Klaus Pressel, Infineon Technologies AG</i>	



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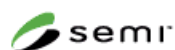
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## [LIVE] PROGRAMS AGENDA

**WEDNESDAY, JULY 22, 2020**

9:00am-3:00pm	<b>LIVE EXPO HALL—Visit the Exhibits and Network</b>			
<b>PACIFIC TIME</b>	<b>KEYNOTES &amp; EXECUTIVE PANELS</b>			
8:00am-8:30am	<p><b>Keynote</b></p> <p>50 Years—That Changed theWorld...And We're Just Getting Started</p> <p><i>John E. Kelly III, IBM</i></p>			
8:30am-9:00am	<p><b>Keynote</b></p> <p>The Semiconductor Industry—Creating a Hope-Filled, Dream Inspiring Society</p> <p><i>Terry Higashi, Tokyo Electron Limited</i></p>			
<b>PACIFIC TIME</b>	<b>KEYNOTES &amp; EXECUTIVE PANELS</b>	<b>SMART MOBILITY</b>	<b>ADVANCED MANUFACTURING PROCESSES</b>	<b>TEST VISION SYMPOSIUM: Expanding the Role of Test</b>
9:00am-9:30am	<p><b>Keynote</b></p> <p>NOAA Science &amp; Technology: Accelerating Innovation in the 21st Century</p> <p><i>RDML Tim Gallaudet, PhD, USN Ret., National Oceanic and Atmospheric Administration</i></p>	<p>The New ICE Age: The \$200B Opportunity for Automotive Semiconductors</p> <p><i>Scott Jones, KPMG; Mike Noonan, MixComm</i></p>	<p>EUV Lithography and Its Enablement of Future Generations of Semiconductor Devices</p> <p><i>Michael Lercel, PhD, ASML</i></p>	<p>5G NR Semiconductor Test Challenges</p> <p><i>Adrian Kwan, Advantest America</i></p>
9:30am-10:00am	<p><b>Keynote</b></p> <p>How Your Technology Will Protect Our World</p> <p><i>Lea Gabrielle, U.S. Department of State</i></p>	<p>Empowering the World With Level-4 Autonomous Driving Technology</p> <p><i>Jewel Li, PhD, AutoX</i></p>	<p>Advanced Interconnect Scaling: Cu Damascene Extendibility—How Far Can We Go?</p> <p><i>Chris Penny, PhD, IBM Research</i></p>	<p>Optimization of 5G OTA Antenna Production Test Interfaces</p> <p><i>Dylan Feng, Cohu</i></p>



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## [LIVE] PROGRAMS AGENDA

10:00am-10:30am	<p><b>Fireside Chat</b></p> <p>Discussion of How Tech Talent Will Manage the New Norm</p> <p><i>Abby Snay, California Labor &amp; Workforce Development Agency;</i> <i>Dave Toole, The Gig Economy Group</i></p>			
<b>PACIFIC TIME</b>	<b>KEYNOTES &amp; EXECUTIVE PANELS</b>	<b>SMART MOBILITY</b>	<b>ADVANCED MANUFACTURING PROCESSES</b>	<b>SMART WORKFORCE</b>
10:30am-11:00am	<p><b>Keynote</b></p> <p>Chasing Fire: Facing the Challenges of a 50-Year Revolution</p> <p><i>Paul Saffo, Forecaster for Large-Scale Technology Change</i></p>	<p><b>Automotive Startups and VC Panel</b></p> <p>Impact of COVID-19 on Global Automotive Industry</p> <p><i>Moderator: Junli Gu, PhD;</i> <i>Jeff Peters, PhD, Autotech Ventures;</i> <i>Vladislav Voroninski, PhD, Helm.ai;</i> <i>Yvonne Lutsch, PhD, Robert Bosch Venture Capital;</i> <i>Bibhrajit Halder, PhD, SafeAI;</i> <i>Miao Hong, PhD, Silicon Valley Future Capital;</i> <i>Yao Zhai, PhD, Ziiiko Robotics</i></p>	<p>Scaling DRAM Beyond 12nm</p> <p><i>Thy Tran, Micron Technology</i></p>	<p>The New Reality—Digital Internships</p> <p><i>Tina Revels, KLA</i></p>
11:00am-11:30am	<p><b>Fireside Chat</b></p> <p>Discussion of Where the Inspiration for Google's Hardware Design Comes From</p> <p><i>Ivy Ross, Google;</i> <i>Josh Makower, NEA Healthcare</i></p>		<p>Metrology for Conventional &amp; Quantum Devices in Few Nanometer to Single Atom</p> <p><i>Richard Silver, PhD, NIST</i></p>	<p>A Day in the Life of an Engineer</p> <p><i>Erika Hansen, Applied Materials</i></p>
11:30am-12:00pm	<p><b>Keynote</b></p> <p>Making Sense of the COVID-19 and Economic Crises for the U.S. and the World</p> <p><i>R. Nicholas Burns, Harvard Kennedy School of Government</i></p>			



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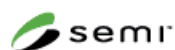
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## [LIVE] PROGRAMS AGENDA

**THURSDAY, JULY 23, 2020**

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9:00am-3:00pm	<b>LIVE EXPO HALL—Visit the Exhibits and Network</b>			
PACIFIC TIME	KEYNOTES & EXECUTIVE PANELS	SMART MEDTECH: Health & Medical Electronics Wearables	ARTIFICIAL INTELLIGENCE ARCHITECTURE & APPLICATIONS	TEST VISION SYMPOSIUM: Expanding the Role of Test
8:00am-8:30am	<p><b>Keynote</b> Semiconductor = Vitality <i>Moore's Law</i> <i>Aart de Geus, Synopsys</i></p>			
8:30am-9:00am	<p><b>Keynote</b> The Era of Equipment Intelligence— Advancing Technology That Advances the World <i>Tim Archer, Lam Research</i></p>			
9:00am-9:30am	<p><b>Keynote</b> The Autonomous Revolution: Reclaiming the Lives We've Sold to Machines <i>Bill Davidow, Executive, Investor, Author</i></p>	<p>Medical Wearables and Point of Care Devices: Toward Innovative Solutions to Meet Healthcare Challenges <i>Jérôme Mouly, Yole Développement</i></p>	<p>AI in an Academic Cleanroom Applied to Nanoelectromechanical Systems: Challenges and Rewards <i>Amit Lal, Cornell University</i></p>	<p>Unique Solution to Probe Constraints for High Current Limit Testing at Probe <i>Alex Saenz, Texas Instruments</i></p>
9:30am-10:00am	<p><b>Fireside Chat</b> Examining How Technology, Innovation and Smart Investing is a Pathway Forward in Times of Racial and Economic Injustice <i>Bob Pearson, The Next Practices Group; Gayle Jennings-O'Byrne, WOCstar Fund (Women of Color)</i></p>	<p>Wearable Technology and Blood Pressure Monitoring: Addressing the Global Hypertension Problem <i>Steven LeBoeuf, Valencell</i></p>	<p>Accelerating AI Compute With Wafer Scale <i>Dhiraj Mallick, Cerebras Systems</i></p>	<p>Test Cell Management for Enabling Smart Manufacturing <i>ZhiJun Xue, Advantest America</i></p>



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## [LIVE] PROGRAMS AGENDA

PACIFIC TIME	KEYNOTES & EXECUTIVE PANELS	SMART MEDTECH: Semiconductors Electronics & Medical Applications	QUANTUM TECHNOLOGY: From Research to Real World	DIVERSITY & INCLUSION
10:00am-10:30am	<p><b>Panel</b> The Great Reset of Work <i>Moderator: Gary Bolles, Singularity University;</i> <i>John Hagel, Deloitte Consulting, Center for the Edge;</i> <i>Jos Dirckx, Singularity University</i> <i>Dave Toole, The Gig Economy Group</i></p>			
10:30am-11:00am		<p>Highly Conductive Conformal Circuitry for Wearable and Implantable Medical Devices with Printed Electronics <i>Bryan Germann, Optomec</i></p>	<p>Fabricating Quantum Technologies: Supporting Research—Moving to Commercialization <i>Guilhem Ribeill, Raytheon BBN Technologies</i></p>	<p>Creating a Culture of Inclusivity <i>Debbie Gustafson, Energetiq;</i> <i>Lubab Sheet-Davis, Lam Research</i></p>
11:00am-11:30am		<p>Active on Skin Sensing Using Stretchable Substrates and Liquid Interconnects <i>Mark Ronay, Liquid Wire</i></p>	<p>A Path Towards the Automation of Superconducting Electronic and Quantum Systems <i>Jamil Kawa, Synopsys</i></p>	<p>Hiring Heroes—Creating a Path From Military to Civilian Life <i>Shawn Harbert, Lam Research;</i> <i>Kathryn H. Garner, TEL</i></p>
11:30am-12:30pm	<p><b>Bulls &amp; Bears Panel</b> <i>Moderator: Leslie P. Norton, Barron's;</i> <i>Jed Dorsheimer, Canaccord Genuity;</i> <i>C.J. Muse, Evercore ISI;</i> <i>Lori Keith, Parnassus Investments;</i> <i>Ulrike Hoffmann-Burchardi, Tudor Investment</i></p>			<p><b>Supplier Diversity Panel</b> We Hear You and Stand Together <i>Moderator: Adrienne Trimble, NMSDC;</i> <i>Jay Kerley, Applied Materials;</i> <i>Shaheen Dayal, Intel Corporation;</i> <i>Reginald Layton, Johnson Controls;</i> <i>Craig Cuffie, Salesforce;</i> <i>Larry Smith, TEL America;</i> <i>Mary Champagne, TEL;</i> <i>Dicran Arnold, WWT</i></p>