

2021 PROCESS CONTROL AND APPLIEDPRO™ MASTER CLASS

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DAN HUTCHESON

*CEO and Chairman
VLSI Research, Inc.*

Dan is CEO and Chairman of VLSIresearch inc. He is a recognized authority on the semiconductor industry, winning SEMI's Sales and Marketing Excellence Award¹ in 2012 for "empowering executives with tremendous strategic and tactical marketing value" through his e-letter, *The Chip Insider*[®]; his book *Maxims of Hi-Tech*, and his many interviews of executives.

He is thought of as "the marketing voice and expert for the industry." "Dan has methodically captured the essence of the industry and produced it in such a way for all to benefit ... He has been such an integral part of the industry for so long, it is difficult to imagine the industry without his contributions."

Dan's public work on the industry has often focused on challenging predictions of the demise of Moore's Law that date back decades by demonstrating how doomsayers have been outpaced by emergent behavior through the innate ability of technologists to innovate. This has included invited articles for *Scientific American*, the *SIA*, and the Plenary at the *SPIE Advanced Lithography Conference*.

¹ Formerly SEMI's Bob Graham Award

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KEITH WELLS

Group Vice President

General Manager

Imaging and Process Control Group (IPC)

Keith Wells joined Applied Materials as General Manager of the Imaging and Process Control Group (IPC). He manages an executive team that oversees both the Process Diagnostics and Control Group (PDC) and the Process Optimization and Control Group (POC).

Prior to joining Applied, Mr. Wells spent two years at Lam Research and 27 years at KLA. At Lam, he held the title of Chief Engineer and CVP and he focused on developing analytical techniques and optical sensors for process control.

At KLA, Mr. Wells spent 27 years in the development of advanced optical and E-Beam wafer inspection tools. In his technical roles, he oversaw the development of light and electron optics, imaging sensors, high speed data acquisition, image computer development, and algorithm development including AI techniques for wafer inspection applications. In his business roles, he served as General Manager of the Electron Beam Division from 2006 to 2010 and then as the General Manager of the Optical Inspection Division from 2010 to 2015.

Mr. Wells holds a Bachelor of Science degree in Physics from Whitman College and holds a Master of Science in Solid State Physics from Washington State University.

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MAAYAN BAR-ZVI

Business Unit Head

Process Diagnostics and Control (PDC)

Maayan Bar-Zvi manages the Patterning Division of PDC, including eBeam metrology and next-generation process control products and solutions. He has 18 years' experience in PDC, and previously headed the SEMVision product group. Earlier, he held several leadership positions in PDC, including Application Technology Manager, Product Manager, and Product Line Head. He earned a B.S. in engineering from Tel-Aviv University.

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LIOR ENGEL

Corporate Vice President

GM Process Optimization and Control

Imaging and Process Control Group (IPC)

With more than 25 years of experience in the metrology and inspection market, Lior Engel heads development, marketing, and application of Applied's metrology portfolio to enhance the performance of Applied's process tools.

Joining the company as an application manager through the Orbot Instruments acquisition, he has subsequently progressed through several management positions, including product marketing for wafer inspection and key product unit head of the SEMVision defect review systems. He began his career as a new college graduate in the Lithography Department of Intel Corporation's Jerusalem fabrication facility. He holds an MBA from Boston University and a MS in physics from the Hebrew University of Jerusalem.

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MICHAEL SULLIVAN

*Corporate Vice President
Investor Relations*

Michael Sullivan is Corporate Vice President and head of Investor Relations. His team is responsible for investor relations and marketing communications including media relations, product and technology communications, and industry events.

Mr. Sullivan joined Applied in 2009 after working at Intel Corporation for 16 years. He was Intel's primary interface to equity analysts and the company's largest institutional shareholders in the U.S. and Europe. He also held corporate communications positions at the company's U.S. and European offices, where he drove corporate and competitive initiatives, new microprocessor introductions, computing platform campaigns, and flash memory PR.

Mr. Sullivan is past president of the Silicon Valley chapter of NIRI, the National Investor Relations Institute. He earned his MBA at Santa Clara University and his BA in Public Relations at San Jose State University.