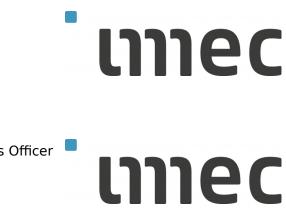
SEMICON[®] EUROPA

NOV 14-17, 2023 | MUNICH, GERMANY

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K. Marent EVP & Chief Marketing & Communications Officer imec, Leuven, Belgium

Biography

Katrien has an engineering degree in microelectronics. She joined imec in 1992 as analog design engineer and specialized in design of low-noise readout electronics for high-energy physics. In 1999, she became press responsible and scientific editor at imec's business development division and was responsible for authoring and editing the research organization's numerous company technical documents and publications. In 2001, she was appointed corporate communications director at imec. Her responsibilities expanded in August 2007, when she got the position of external communications director including corporate, marketing and outreach communications. In October 2016, she became VP corporate, marketing and outreach communication. Since April 2020 she is Executive Vice President & Chief Marketing and Communications Officer and member of the executive board of imec.

Towards Netzero for the IC industry





L.-A. Ragnarsson Program Director Sustainable Technologies and Systems (SSTS) imec, Leuven, Belgium



Abstract

Coming Soon

Biography

Lars Åke Ragnarsson received the M.S. degree and the PhD degree in electrical engineering from Chalmers University of Technology, Göteborg, Sweden, in 1993 and 1999, respectively. Between 2000 and 2002, he did postdoctoral studies with the IBM T.J. Watson Research Center, Yorktown Heights, NY, focusing mainly on the electrical characterization of high-k dielectrics. Since 2002, he has been with imec in Leuven, Belgium, focusing on the development of advanced technologies using high- κ dielectrics and metal gates. Today Lars-Åke is a scientific director in compute and memory technologies with a strong focus on the Sustainability of current and future technologies.

Semiconductor Sustainability Climate Consortium





M. Bhat VP Sustainability Programs SEMI, Milpitas, California, United States of America



Abstract Coming Soon

Biography

Dr. Bhat is a Semiconductor Expert who has held senior positions within the Semiconductor Industry, Motorola, GlobalFoundries and Micron to name a few over the last 25 years. She has a Ph.D. from the University of Texas at Austin, Masters from MIT and University of Maryland and an executive MBA from Stanford Business School. During her career she has led Transversal, cross functional and multicultural teams across various continents and has led transformation projects that require foundational culture changes.

She is also passionate about creating sustainable business practices and thereby creating an ecosystem of changemakers such as corporates, government, academia and society to accelerate social and economic parity through technological innovations.

In SEMI, within her role as VP of Sustainability Programs, she is responsible for leading teams, directing client engagements, and overseeing processes and deliverables in Environmental Stewardship, Supply Chain and Supplier Resilience, including Responsible Sourcing.

Building a Sustainable Semiconductor Value Chain with Technology and Collaboration

SAMSUNG



H. Hwang Head of the Environment Team Samsung Electronics, Seoul, Republic of Korea (South Korea)

SAMSUNG

Abstract

Demand for the silicon chips has never been greater and so is the global attention to sustainability. As such this growing industry is asked to take on more responsibility from diverse stakeholder across and beyond its supply chain. In response hundreds of businesses, including those within the semiconductor industry, have pledged to sustainability goals in aspiration to make tomorrow available and better.

Samsung Semiconductor also places sustainability a priority in our daily business to which in September 2022, we announced our "New Environmental Strategy" to join the global effort to tackle climate change and environmental challenges. As leader of the semiconductor industry we progress technology with our chips and also believe that technology can also be solutions to our path toward sustainability. Moreover, understanding that collaboration and collective commitment of the industry is essential for the task, Samsung Semiconductor engage and initiate discussions with various stakeholders to move toward sustainability. Through this session, Samsung Semiconductor's Environmental Team Leader, Dr. Hosong Hwang will share how the company incorporates sustainable technologies into our daily business to make tomorrow more sustainable and ways we collaborate across the value chain.

Biography

Dr. Hosong Hwang is Corporate Vice President and the Head of the Environment Team at Samsung Semiconductor.

As the Head of the Environment Team, Dr. Hwang's responsibilities include the Company's pollution control, resource circulation and ecosystem monitoring. In addition, he also overlooks sustainable management practices in regards to the environment such as climate change response and renewable energy expansion. Prior to joining Samsung Semiconductor, Dr. Hwang successfully led the Environment Team at Samsung Institute of EHS Strategy where he developed and implemented various environmental policies for the Samsung Group. There, he also contributed to the Company's research on the climate change matters, as well as environment assessments, and safety management practices.

Dr. Hwang's main area of expertise is in environmental development and management strategy on both the local and global scale with an extensive insights on global carbon measures, sustainable development and nature conservation.

Dr. Hwang received B.S. degree in Mineral and Petroleum Engineering and M.S. degree in Environmental Geochemistry both from Seoul National University, and earned his Ph.D on Environmental Policy at Imperial College London, UK.

The Challenge to Reduce Emissions during a Period of Growth





C. Jones Environmental Solutions Business Development Manager Edwards, London, United Kingdom



Abstract

The establishment of the Semiconductor Climate Consortium underscores the semiconductor industry's unwavering dedication to confronting both its unique and shared challenges concerning greenhouse gas emissions. Given the longevity of many of these gases in our atmosphere, their management is crucial and will also gain heightened significance over time. We will examine releases from our industry using both a top-down and bottom-up approach and juxtapose them with efforts from other sectors. Central to our discussion will be emissions management strategies that resonate with the Consortium's emphasis on holistic collaboration across the value chain, bolstered by the active involvement of myriad external stakeholders.

Biography

With a Ph.D. in chemistry and nearly four decades of dedication to Research and Development and Environmental Protection, Chris has been at the forefront of creating solutions for industries ranging from semiconductor and nuclear to military and pharmaceutical. He's crafted methods to keep our air and water clean and is currently Edwards' Environmental Solutions Business Development Manager. Always eager to share his knowledge, Chris is passionate about helping fab owners grasp their operations' local and global environmental impacts. He's genuinely committed to a greener future!

High NA EUV introduction – the more sustainable choice? - joined presentation with ASML and imec



E. Gallagher Principal Member of Technical Staff imec, Leuven, Belgium

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Abstract Coming Soon

Biography

Emily Gallagher is a Principal Member of Technical Staff at imec, focusing on sustainability in semiconductor manufacturing, EUV pellicle membrane development, and advanced patterning. Emily earned her PhD in physics from Dartmouth College where she studied free electron lasers. After graduation, she joined IBM and became immersed in semiconductor technology. She held many wafer fabrication roles at IBM from functional characterization to process integration; the last was leading the EUV mask development effort. She joined imec in 2014 to continue EUV development work. Emily has authored over 100 technical papers, holds over 20 patents, is an SPIE Fellow and co-leads the SEMI SCC Scope1 Working Group.

Carlo Luijten joint ASML in 1999 as a System Engineer, after finishing his PhD in Applied Physics. Over the years he worked on various topics such as Focus control, cost of goods and machine conditioning. In 2005 he left ASML for a University position pursuing research on clean engines, fuels and sustainable mobility, then returned to ASML in 2011. From 2018 onwards he has been involved with energy consumption of EUV tools, initially from a System Engineering position. After joining ASML's ESG Sustainability Strategy team in 2021, his main role is now to define and drive the CO2 emissions reduction roadmap of ASML

Catalyzing a Brighter Future for the Chip Industry





F. Godemel Executive VP Schneider Electric, Marktheidenfeld, Germany



Abstract

Chipmakers and the surrounding industry have two major responsibilities. The first is allowing other industries to digitalize by ensuring a healthy flow of chips to market. The second is to clean up their own act. Both obligations are mandatory for energy transition and, contrary to popular belief, can be met in ways that are both economically and environmentally profitable. Join this talk to see how the correct approach and the right relationships put these achievements well within reach.

Biography

Frederic Godemel joined Schneider Electric in 1990. Since then, his career has developed mostly around the power business in both low and medium voltage.

•Frederic has held operational functions in France, China and more recently in Dubai, he is now back in France. He was appointed Executive VP for Global Field Services back in 2018, EVP for Power Systems in January 2019 and more recently in July 2020 Executive VP for Power Systems and Services.

Frederic is participating in speaking and panel opportunities on behalf of Schneider Electric, the most recent were TAQA in Abu Dhabi, TSIA in Orlando, CERA Week Houston, Reuters London and Semicon South East Asia. Topics around Decarbonization, Sustainability, Electricity 4.0, Semiconductors, Mobility, Power & Grid and Energy Efficiency.

•Frederic graduated from the Ecole Centrale Nantes in electrical engineering and holds an MBA from ESSEC Business School.

The Journey to Sustainable Intelligent System Design

cādence®



K. Nisewaner Corporate VP, General Counsel & Corporate Secretary Cadence, London, United Kingdom

cādence[®]

Abstract

The world is converting to data-driven everything, enabled by a seemingly endless stream of amazing semiconductor technological innovations. But the Earth is struggling to keep up, and a mindset of sustainable design is taking its rightful place near the top of the list of priorities. The promised value is tremendously exciting, yet how will we meet the demands of information gathering and knowledge extraction within the global energy envelope?

As Moore's Law is increasingly unable to keep up with the steep transistor scaling challenges ahead, purpose-built intelligent systems and computational software are rapidly becoming the pathway to extracting actionable business insights from exascale datasets. But even the processing Goliaths are challenged to bring these intelligent systems forward, increasingly overcome by an engineering skills shortage and resource and time-to-market constraints.

Cadence general counsel and corporate secretary Karna Nisewaner will provide a glimpse of how Cadence engages in sustainable best practices and offers state-of-the-art generative AI system design strategies that will empower and embolden designers, accelerate innovation, and widen the path to a sustainable future.

Biography

Karna Nisewaner joined Cadence in 2011 and has served as general counsel and corporate secretary since September 2022. She is responsible for Cadence worldwide legal operations. In this role, she owns the creation of the company's annual environmental, social, and corporate governance (ESG) report. Prior to this role, she was corporate vice president and deputy general counsel at Cadence where she led many key functions in the legal department.

Karna received her BSE in civil engineering and operations research from Princeton University and her Juris Doctor degree from UCLA Law School.

Qualcomm's Approach to Carbon Net-Zero and the Transformative Role of 5G for a Greener Economy





B. Sokolowski Managing Director & VP Government Affairs EMEA Qualcomm, Munich, Germany



Abstract Coming Soon

Biography

Benjamin Sokolowski is Qualcomm's Vice-President Government Affairs EMEA and Managing Director for Germany since July 2022. In this role, he oversees the company's government relations in Germany and Austria and supports Qualcomm's growth in the digital transformation of new industries such as automotive and industrial IoT.

Before joining Qualcomm, Mr. Sokolowski was Head of Government Relations for the enlarged Europe at Stellantis since 2020. Additionally, he was in charge of developing Stellantis' carbon neutrality agenda and worked on the company's digital transformation and electrification projects.

Mr. Sokolowski was also Head of Government Relations at Groupe PSA for Germany and Europe (2017-2020), Head of the Berlin Office for General Motors/Opel (2015-2017) and Vice-President Public Policy at FleishmanHillard (2010-2015).

He has an MBA from the University of Applied Sciences in Berlin, a Diploma in Public Policy and Management from the University of Potsdam and participated in a Leadership Program at the London Business School.



J.-H. Mohr Managing Director & Partner Boston Consulting Group, Munich, Germany





Biography

Jan-Hinnerk Mohr is Managing Director and Partner at Boston Consulting Group, co-leading BCG's European semiconductor practice, and is based in Berlin, Germany.

Jan has a deep passion for technology. He has served BCG's semiconductor clients for more than a decade – his experiences covers in particular strategy & PMI, marketing & sales, and sustainability and digital. Jan has also helped many application industries in semiconductor-related questions, e.g. in the automotive industry with the digitalization/softwarization of vehicles.

His passion for passion led to several publications in the tech and semiconductor space, e.g. most recently on CO2 emissions (scope 1,2 *and 3*) in the semiconductor industry. Prior, Jan has served as an ambassador to the World Economic Forum to push the thinking of Future Mobility and self-driving cars, and presented the results at the Annual Meeting in Davos in 2015.

Jan holds a Master's degree in Business Administration & Econometrics with distinction from Mannheim University. Besides, Jan has studied in London, Shanghai and the United States.

Coming Soon





, SVP Air Liquide Advanced Materials (ALAM), Paris, France



Abstract Coming Soon

Biography

Jean-Marc Girard, Ph.D. is the CTO and Sr. VP of Manufacturing Technologies at Air Liquide Advanced Materials (ALAM), which has become a leading supplier and technology provider in the field of ALD/CVD materials and advanced Dry Etching gases (the enScribe[™] product line). He has been appointed Air Liquide Group Fellow in 2012, and is a co-inventor to ~50 patents, mainly related to semiconductor processing, materials and dispense technologies.

Within ALAM, Jean-Marc globally manages the Research and Development (from inception to scale up of novel materials), oversees strategic engagements and collaborations with leading customers, equipment companies, and research institutes, and supervises the Intellectual Property generation and portfolio management associated with this activity.

Prior to this position, Jean-Marc has 10 years of experience of semiconductor R&D in Japan and Europe. Jean-Marc holds a B.Sc. in Physical Chemistry and a Ph.D. from the CEA / Université Paris-Sud in Plasma Physics.

Coming Soon



E. Shekel SVP Service Strategy and Excellence TEL, Crawley, United Kingdom



Abstract

Coming Soon

Biography

Eyal is a thirty year veteran in the Semiconductors industry. Upon his graduation as a Mechanical Engineer from the Technion (Israel technical institute) started his career in a leading company. In 1997 he has joined Tokyo Electron, served as the Regional Service Manager of Israel, and soon after appointed as the company General Manager.

Since 2005 Eyal has been part of the TEL European senior management, and up to 2019 was responsible for the Service and Support Operations for TEL Europe as a Senior Vice President.

In 2019 Eyal has transferred this responsibility onwards, and is now SVP for Service Strategy and Excellence, with both European and Global challenges. Eyal co-leads the corporate Global customer Service organization in TEL Japan.

Starting 2023 as part of a TEE EU mission, Eyal is leading the sustainability activity for TEE in Europe and has joined the TEL global committee on sustainability.