

Opening Ceremony & Keynote

Semiconductors for the Connected World - Safe, Secure and Smart



K. Sievers
Executive VP and General Manager of the
Automotive business, NXP Semiconductors &
chairman of electronica board
NXP Semiconductors, Hamburg, Germany



Abstract

The Internet of Things is transforming our personal lives – and the semiconductor industry. As everything gets connected, new levels of security are required to prevent manipulations and attacks. Next to security, Artificial Intelligence is a key ingredient for realizing this transformation. On the market side, several of the traditional growth drivers of the past years, such as PCs, Smartphones, and Tablets, have slowed down, ensuing a wave of industry consolidation. Automotive remains a highly attractive market, as increasing autonomy, electrification, and connectivity will result in tripling the semiconductor content per car. Kurt Sievers' keynote speech will address the technological requirements, challenges, and opportunities on this route, while providing insights into the IoT, Automotive, and Cybersecurity markets.

Biography

Kurt Sievers is executive vice president and general manager of the Automotive Division of NXP Semiconductors, the world's largest semiconductor supplier for the automotive industry and a leader in cybersecurity solutions. He is also managing director at NXP Germany GmbH.

After getting his master's degree in physics and Information Technology, Kurt Sievers began his career in 1995 at Philips Semiconductors in product marketing, later he became general manager of the car radio business. After the founding of NXP in 2006, he was responsible for strategy and business development in the Automotive & Secure Identification business.

Since 2009, Kurt Sievers has headed the worldwide automotive business of NXP and has served as a member of NXP's board of management. Kurt Sievers also serves as a member of the Executive Board of the Central Association of the German Electrical Engineering and Electronics Industry (ZVEI). He heads up the advisory board of the Messe electronica and, as member of the supervisory boards of Aeneas and Penta, he is playing a key role in shaping European private-public R&D programs in the field of microelectronics.

New perspectives creating radical innovation



L. Van den hove
President and CEO
imec, Leuven, Belgium



Abstract

The era of digital transformation brings endless opportunities for businesses and society: opportunities powered by the advances in nanoelectronics and digital technology, opportunities that require cross-linking of expertises. Radical innovation can only happen by approaching the challenges our society is facing from new perspectives, with an open mind that gets inspired from unexpected fields. Radical innovation can happen. Innovation that will transform our health, mobility, environment, ... Innovation that will transform our data-driven society into a sustainable data-driven society for everyone.

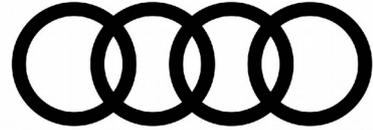
Biography

Luc Van den hove is President and CEO of imec since July 1, 2009. Before he was executive vice president and chief operating officer. He joined imec in 1984, starting his research career in the field of silicide and interconnect technologies. In 1988, he became manager of imec's micro-patterning group (lithography, dry etching); in 1996, department director of unit process step R&D; and in 1998, vice president of the silicon process and device technology division. In January 2007, he was appointed as imec's EVP & COO. Luc Van den hove received his PhD in electrical engineering from the KU Leuven, Belgium. He has authored or co-authored more than 200 publications and conference contributions.

Tomorrow's Digital Mobility Experience - Enabled by Semiconductors



T. M. Müller
Executive Vice President, Development Electrics/
Electronics, CarIT
AUDI AG, Ingolstadt, Germany



Abstract

The progressively rising importance of semiconductors in automotive applications is a known fact. Semiconductors will enable a completely new mobility experience and facilitate new business models. New data driven in-vehicle architectures with a secure end-to-end cloud connection as well as the ability to update and upgrade vehicles are just two upcoming applications. How do the automotive and the semiconductor value chain face these challenges? How do these industries need to cooperate and collaborate to ensure speed and joint success in a fast changing global environment of mobility?

Biography

Dr. Thomas M. Müller studied Physics and started his professional career in 1999 at BMW Group in Munich. There he worked internationally in different strategic and operative management positions, for example in the development of electrical and electronic systems. In the area of business IT Dr. Müller accelerated the digitization of business processes. From 2009 to 2012 he was Director Connected Car at BMW Group. Subsequently, Dr. Müller went on to Volvo Car Group as the Vice President Electrical & Electronic Systems Engineering. In 2014 he additionally took over responsibility for the unit E-Propulsion (electric drive) and from 2015 he has held the position of Vice President Electrics/Electronics & Chassis. Since December 2016 Dr. Thomas M. Müller is Head of Electrics/Electronics, CarIT of AUDI AG and drives out of this role the digitalization of the vehicles and mobility services.