

IEEE Technology Time Machine

Symposium on Technologies Beyond 2020

A Future Directions Event | 23 – 25 May 2012 | Dresden, Germany

IEEE TTM is a unique event for industry leaders, academics and decision making government officials who direct and plan R&D programs, or manage product roadmaps. The core of the Symposium is the presentation and discussion of potential high impact emerging technologies, application scenarios for the next decade, and visions for our future world.



Join us and share
your views on setting future
trends and directions!

The Symposium brings together world renowned experts to discuss the evolutionary and revolutionary advances in technology landscapes as we look forward to 2020. It will also provide the opportunity to visit leading German research institutes and industries.

Plenary Speaker

- Peter Bauer (CEO), **Infineon**, DE
- Karsten Ottenberg (CEO), **Giesecke & Devrient**, DE
- James Truchard (CEO), **National Instruments**, USA
- Alf Henryk Wulf (President), **VDE**, DE

Panel Topics and Keynotes

Visionary Keynotes

- Karl Leo, **TU Dresden**, DE
- Wolfgang Lehner, **TU Dresden**, DE

Future of Media

- Lorraine Cichowski (CIO), **Associated Press**, USA
- Varadharajan Sridhar, **Sasken Communication Technologies**, IN
- Thomas Wiegand, **Fraunhofer HHI**, DE
- Leo Kärkkäinen, **Nokia Research Center**, FI

Electronics beyond CMOS

- Paul Farrar (VP), **IBM**, CA
- Laurent Malier (CEO), **CEA-LETI**, FR
- Jim Prendergast, **IEEE**, USA
- Kazuhiko Matsumoto, **Osaka University**, JP

Cloud Computing

- Dean Jacobs (Chief Dev. Architect), **SAP**, USA
- Joseph B. Lyles (Program Director), **National Sciences Foundation**, USA
- Peter Magnussen, **Google**, USA
- Eric Sedlar (Director), **Oracle Labs**, USA
- Joseph Weinman, **Telx**, USA

Smart Transportation

- Thomas Form (Head of Electronics and Vehicle Research), **Volkswagen**, DE
- Amine Haoui (CEO), **SenSys Networks**, USA
- Josef F. Krems, **TU Chemnitz**, DE
- Christian Müller, **EIT ICT Labs**, DE
- Gernot Spiegelberg (Head of Concept Dev. electric Mobility), **Siemens**, DE

Future Applications

- Franco Accordino, **European Commission**, BE
- Pasi Hurri, **BaseN**, FI
- Thomas Magedanz, **Fraunhofer FOKUS**, DE
- Roberto Minerva, **Future Centre Telecom Italia**, IT
- Roberto Saracco (Director Italian Node), **EIT ICT Labs**, IT

Smart Power

- Livio Gallo, **Enel**, IT
- Steve Griffiths, **Masdar Institute of Science and Technology**, AE
- Albert Heuberger, **Fraunhofer IIS**, DE
- Marting Hierholzer, **Infineon**, DE
- Michael Lowak (CEO), **Kofler Energies Power**, DE
- Thilo v. Selchow (CEO), **ZMDI**, DE

Cyber Physical Systems

- Clas A. Jacobson, **United Technologies**, USA
- Edward A. Lee, **UC Berkeley**, USA
- Jie Liu, **Microsoft Research**, USA
- A. Sangiovanni-Vincentelli, **UC Berkeley**, USA
- Dirk Wristers (VP Process Tech. R&D), **Globalfoundries**, DE

Networks supporting Future Applications

- Siavash Alamouti (Director), **Vodafone R&D**, UK
- Frank Fitzek, **Aalborg University**, DK
- Markus Hofmann (Head of Bell Labs Research), **Alcatel-Lucent**, USA
- Bill McHale (CEO), **Actix**, UK
- Lauri Oksanen (Head of Research), **Nokia Siemens Networks**, FI

Advanced Medical Technologies

- Richard Funk, **TU Dresden**, DE
- Stefan Launer (VP), **Phonak AG**, CH
- Thomas Schmitz-Rode, **RWTH Aachen**, DE
- Richard Sieben, **Intel-GE Care Innovations**, USA
- Olaf Such, **Philips Research Europe**, NL

Collective Intelligence

- Jürgen Häpp, **Foster + Partners**, UK
- Alberto Moreira, **DLR**, DE
- Hans Müller-Steinhagen (Rector), **TU Dresden**, DE
- Kamal Sarabandi, **University of Michigan**, USA
- Jakob van Zyl, **NASA**, USA



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Registration Fees	On/Before 18 May 2012	After 18 May 2012
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Speakers, Committee Members, and paid attendees requiring visa assistance letters must contact:

Bjoern Almeroth – 2012 IEEE TTM Conference Program Committee Member

Email: bjoern.almeroth@ifn.et.tu-dresden.de Phone: +49 351 463 41040

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