



IEEE Technology Time Machine

Symposium on Technologies Beyond 2020

Time: May 23 to May 25, 2012

Location: Hilton Hotel Dresden, Germany

Organizer: The Institute of Electrical and Electronics Engineers (IEEE), headquartered in **New York City**, represents more than **400,000 members** in more than **150 countries** and is the world's largest technical association of engineers in the electronics and information technology industries. The association is divided into various societies covering the entire spectrum of electronics and information technologies and focuses on developing and promoting standardized techniques, hardware and software worldwide.

The Event: The symposium IEEE **Technology Time Machine** intends to initiate an interdisciplinary dialogue between experts about technological visions and their impact on societies worldwide. The event aims to be a platform for the industry, science and politics by presenting, discussing and connecting the various field's different views and perspectives.

Speakers and

Participants: IEEE TTM will gather approximately 300 CEOs, CTOs and CIOs, managers, leading scientists and media representatives from all over the world. IEEE TTM also welcomes corporate senior managers, as well as their corporate think tanks from a wide variety of branches and industries: Technology enterprises, the energy and automobile industries, healthcare and medical technology branches, and even banks, insurance companies and consulting agencies will attend the event.

Partners: Technical University Dresden, Silicon Saxony e.V., Free State of Saxony, Saxony Economic Development Corporation, the City of Dresden

For more information visit: www.techbeyond2020.tu-dresden.de

Why should I attend IEEE Technology Time Machine?

CEOs, CTOs

and CIOs:

CEOs are pioneers. They must recognize tomorrow's trends before their competitors do. The IEEE TTM symposium offers a wide thematic range of ideas and impulses for company decision makers to pick up - in a short amount of time - on exclusive information, presented by leading international companies, research facilities and organizations. Intensive dialogue with like-minded professionals broadens the personal horizons creating an expanded view reaching beyond branch-specific borders, and will enable access to knowledge that cannot be achieved by personal research on Google.

Sponsors:

The future will be shaped by those companies offering new technologies and services to solve the issues created by the mega-trends of our globalized world. But today, entrepreneurial motivation alone is not enough. Only the ideas of those who are able to legitimize their actions in society will be active and influential in the future.

IEEE is an ideal dialogue platform to present your visions and ideas. The circle of like-minded professionals allows for in-depth discussion, reflection and immediate feedback on a personal level.

Integrated international media representatives will make their visions known and companies presenting their ideas at IEEE will be automatically recognized as opinion leaders in their respective fields.

Science:

For scientists this high-level event represents the intersection between science and industry at Europe's leading location for micro- and nano-electronics. It offers an opportunity to gain different viewpoints on scientific questions; since only those who recognize cooperation and interdisciplinary collaboration as integral factors for scientific excellence will achieve what science magazines call a "scientific breakthrough".

Politics/Administration:

Science and industry develop technological visions, but they cannot realize them in empty space. By attending IEEE TTM political and administrative representatives gain deeper insight into economically promising fields of the future. From these insights they can prepare to support and advance potential and newly developing research and R&D intensive branches through appropriate programs, while maintaining and fostering sustainable and endogenous economic practices. Moreover, the knowledge gained at the symposium will prove to be a critical prerequisite for competently implementing those future technologies into concrete infrastructures – whether it be projects concerning mobility and public transportation in cities or intelligent energy networks for a local energy supplier.

Media:**Hot Topics**

Collective Intelligence
Intelligent Energy Networks
Cyber Physical Systems
Future Medical Technologies
Intelligent Transportation and Logistics Systems
Modern Communication Networks
The Future of Microelectronics
Cloud Computing and Security

Top Players:

Google, IBM, DLR, NASA, Nokia Siemens Networks, Alcatel-Lucent, Telx, SAP, Actix, ZMDI, Kofler Energies, Siemens, Enel, Associated Press, Vodafone, Infineon, Tata Motors, Giesecke & Devrient, Sensys Networks, Oracle, EIT ICT Labs, Foster+Partners, Volkswagen, National Instruments, VDE und Fraunhofer HHI, FOKUS, IIS are sending management representatives and their technological forerunners to Dresden.

Top Speakers:

- Franco Accordino, European Commission
- Siavash Alamouti, Director, Vodafone R&D
- Peter Bauer, CEO, Infineon
- Lorraine Cichowski, CIO, Associated Press
- Frank Fitzek, Aalborg University
- Thomas Form, Volkswagen Group research
- Carl-Peter Forster, former CEO, Tata Motors Ltd
- Steve Griffiths, Executive Director, Masdar Institute of Science and Technology
- Amine Haoui, CEO, SenSys Networks
- Jürgen Häpp, Fosters + Partners
- Albert Heuberger, Executive Director, Fraunhofer IIS
- Markus Hofmann, Head of Bell Labs Research, Alcatel-Lucent
- Dean Jacobs, Chief Dev. Architect, SAP
- Stefan Launer, Vice President Advanced Concepts and Technologies, Phonak AG
- Michael Lowak, CEO, Kofler Energies Power AG
- Thomas Magedanz, Director of Competence Center, Fraunhofer FOKUS
- Roberto Minerva, manager, Telecom Italia
- Alberto Moreira, Director, DLR
- Karsten Ottenberg, CEO, Giesecke & Devrient
- Len A. Pagano, President & CEO, Safe America Foundation
- Kamal Sarabandi, Director of the Radiation Laboratory, University of Michigan
- Roberto Saracco, Node Director, EIT Italy
- Eric Sedlar, Technical Director, Oracle Labs
- Thilo von Selchow, CEO, ZMDI
- Gernot Spiegelberg, Technical Director, Oracle Labs
- James Truchard, CEO, National Instruments
- Jakob J van Zyl, NASA
- Alberto Sangiovanni-Vincentelli, University of California at Berkeley
- Joe Weinman, Senior Vice President, Telx
- Thomas Wiegand, Fraunhofer HHI

Other Topics:**1. What will the future look like?**

The question of which technologies will be commonly used in our daily life beyond 2020 is a key point of discussion. A look back reveals that certain tendencies and scenarios, once thought through, will become reality in the future. The question is ‘when’ and ‘how’, as well as ‘who’ in society will profit most from certain technological developments? The New York Times’ recent technology timeline “Predicting the Future of Computing” reveals, in an impressive way, which technologies became reality and also offers stimulating insights into future developments.

Link: <http://www.nytimes.com/interactive/2011/12/06/science/20111206-technology-timeline.html>

2. Is the trip to Dresden for the IEEE TTM worth it?

Taking the trip to Dresden is definitely worth it. In addition to high-level speakers and an interesting and engaging range of topics, national and international media representatives will have the opportunity to get to know Europe’s center for micro- and nanoelectronics, its actors and specific issues. Furthermore, the IEEE organizers have prepared an exciting framework program including visits and guided tours to the region’s leading chip manufacturers as well as other high-tech companies.

Another highlight is getting to know the Leading-Edge Cluster for Energy Efficiency in micro- and nanoelectronics, Cool Silicon. The cluster is based in Silicon Saxony, the region around Dresden, and has taken on the challenge of developing more energy efficient ICT products while maintaining the branch’s growth levels and simultaneously contributing to the reduction of global energy consumption.

Media representatives can also seize the opportunity to conduct additional research on the TU Dresden’s (IEEE cooperator) application for excellence, which will be decided on June 15, 2012, while in town for the symposium.