

Dresden/ New York, May 4, 2012

Technology/ Science/ Society

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## Reminder: Save the Date

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### **IEEE Technology Time Machine (TTM) – May 23-25, 2012 in Dresden (Germany)**

Ladies and Gentlemen, dear colleagues,  
We would like to remind you of an event that is taking place in the City of Dresden at the end of May:

### **IEEE Technology Time Machine (TTM) – Symposium on Technologies Beyond 2020**

The symposium IEEE Technology Time Machine (TTM) brings together around 200 CEOs, CTOs, CIOs, and leading scientists from all over the world at Europe's leading cluster for micro- and nanoelectronics, Silicon Saxony. All of them are connected to each other by their daily work: the development of intelligent future technologies.

The event's declared objective is to enable interdisciplinary discussions about societal impacts of new technologies and to trigger an extensive discourse on the contribution future technologies can make in the context of major global challenges of our times.

Come to Dresden, meet the following international experts and get to know future technologies such as:

#### **Electronic Brains**

The renowned scientist Prof. Dr. Leon Chua (University of California, Berkeley, USA) presents in his talk "*Memristor Brains*" a passive electronic device (memory + resistor) that he had already described back in 1971 for the first time. He explains why this component is the basis for designing brainlike machines that could someday outperform the human brain on executing complex tasks requiring superior intelligence.

#### **The City of the Future**

The architect Jürgen Häpp (Foster + Partners, London, UK) shows in "*City Design for a Sustainable Future*" what the city of the future will look like and explains how urban regions can be planned, built and maintained sustainably, while maintaining a high or even rising standard of living. One of architecture's newest and most challenging projects is Masdar City in Abu Dhabi, an example for how traditional construction methods and modern technologies merge into a sustainable metropolis.

#### **Learning Smartphones**

Dr. Leo Kärkkäinen (Nokia Research Center, Helsinki, Finland) discusses the future of mobile communications. His talk "*Creation, Sharing and Consumption of Content on Mobile Devices*" presents emerging technologies: 3D imagery, interactive elements like 3D-audio that takes into account the listener's head movement, images that refocus by gaze control, a foldable, a rollable device, and a personal pico-projector. The scientist also asks, which consequences the ubiquitous accessibility of high quality audio and video recordings have for both privacy and for (media) contents.

#### **Smart Healthcare**

Dr. Olaf Such (Philips Healthcare, Eindhoven, Netherlands) explains in his talk "*Global Healthcare Trends 2020 – on the Pathway towards Distributed Health*" one of the biggest challenges of the ageing society: health care. He shows how – with the help of technological advancements from consumer electronics and IT, intelligent data management, and modern clinical evidence creation – the medical care can be made more effective, efficient, and patient friendly.



The conference was held in Hong Kong in 2011 and this year brings together international industry representatives and technology experts in Dresden, Germany.

**Key Topics:** Collective Intelligence, Intelligent Energy Supply, Cyber Physical Systems, Intelligent Transportation and Logistics Systems, Modern Communications Networks, Advanced Medical Technologies, Micro Electronics of the Future, Cloud Computing and Security

**Top Actors:** Google, IBM, DLR, NASA, CEA-LETI, United Technologies, Microsoft Research, Phonak, Intel-GE Care Innovations, Philips Healthcare, Nokia Siemens Networks, Alcatel-Lucent, Telx, SAP, Actix, ZMDI, Nokia, Kofler Energies, Siemens, Enel, Associated Press, Vodafone, Infineon, Giesecke & Devrient, Sensys Networks, Oracle, EIT ICT Labs, Foster+Partners, Volkswagen, National Instruments, VDE und Fraunhofer HHI, FOKUS, IIS will be present in Dresden with management and technology forerunners.

**For more information and to register, please visit:** <http://ttm.ieee.org>

**Press Accreditation:** <http://bit.ly/HzCcuV>

**For further information on the organization and sponsorship opportunities call or email:**

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**About IEEE:**

The Institute of Electrical and Electronics Engineers (IEEE), headquartered in New York City and more than 400,000 members strong in more than 150 countries, is the world's largest technical association of engineers of the electro technology and informatics industries. The association, divided into various societies, covers the entire spectrum of electro and informatics technologies and focuses on developing and promoting standardized techniques, hardware and software worldwide. In addition, IEEE organizes professional symposia publishes several trade journals. IEEE regularly contributes high quality scientific articles to magazines and journals. The organization's own publication, IEEE Spectrum, promotes interdisciplinary information about new technologies and discussion of their consequences on society.



REPLY

## IEEE Technology Time Machine (TTM) – Symposium on Technologies Beyond 2020

May 23 through May 25, 2012 in Dresden

Please send the completed form to:

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- We are interested in the symposium's topics and look forward to receiving additional information
- We are interested in an interview with Prof. Dr. Gerhard Fettweis, Vodafone Chair Mobile Communications Systems, Technical University Dresden
- We would like to request accreditation for the symposium
- Unfortunately we will not be able to attend, but would appreciate additional information and materials

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(Signature)