

## **DATE 2012 in Dresden attracts 950 submissions highlighting Embedded Systems**

DATE2012 again was able to continue with the very high number of submissions for its conference, thus further strengthening its worldwide leadership. "With 950 submissions we even exceeded the very good level of DATE 2011" says DATE's General Chair Professor Wolfgang Rosenstiel. "This shows that DATE has established a sustained success story with its concept of choosing the key European semiconductor sites of Grenoble in 2011 and of Dresden in 2010 and again in 2012 as DATE venues," Professor Lothar Thiele, Program Chair of DATE 2012, adds: "The boost in submissions by 37% and 18% in the Embedded Systems Software and the Applications Track reflects the key importance of software and applications for a wealthy economy and underlines the leading role of DATE in these increasingly important fields."

DATE proudly announces keynotes by Bosch's Klaus Meder and GLOBALFOUNDRIES' Mojoy Chian

DATE is proud to announce the two keynote speakers for the opening of the DATE conference. Klaus Meder - President of the Automotive Electronics Division of Bosch - and Mojoy Chian - Senior Vice President Design Enablement of GLOBALFOUNDRIES - will set the scene for DATE 2012. Rosenstiel is very happy that two speakers of such high caliber and prestige found the time and are willing to share with the DATE audience their views on new challenges and opportunities for the progress of the semiconductor technologies as key for the electronics industry: leading edge deep submicron development, 3D integration, analog-mixed-signal and power.

In his speech "The mobile society - chances and challenges for Micro- and Power Electronics" Klaus Meder will demonstrate how the increasing society's request for a widespread mobility together with the need to save energy resources generates opportunities for a broad spectrum of new electronic systems - as well as some challenges for the KETs Design, semiconductor technologies and assembly. Bosch is the leading automotive supplier worldwide with more than 280 manufacturing sites including a semiconductor fab in Reutlingen, Germany.

Mojoy Chian will give an outlook on the future development and role of foundries presenting "New Foundry Models - Accelerations in Transformations of the Semiconductor Industry", focusing on the new collaborative approach in technology development and high-end manufacturing. GLOBALFOUNDRIES is the first foundry with global footprint and leading edge manufacturing sites in Dresden, Germany, Singapore and the US.

Special Day on More than Moore

"More-than-Moore" (MtM) is a concept coined by Europe to stress the importance of

non-digital functions which add value in the packaged system. This domain is a strength of Europe and it does make sense to dedicate a full-day Special Session of DATE in Dresden to this topic” outlines CEA-Leti’s Michel Brillouët, chair of this Special Day.

This Special Day will start with three tutorials setting the More-than-Moore scene, in terms of present and future technologies (resp. Dr. Mart Graef from TU Delft and Dr. T. Skotnicki from STMicroelectronics) and from the application perspective.

Dedicated talks will then focus on specific MtM fields: analog mixed signal (Dr. H. Graeb from TU Munich), rf and power (Prof. Lothar Frey from FhG-IISB) will be detailed as emblematic examples of MtM technologies.

The emerging field of heterogeneous integration will be addressed from the technology, design and test perspectives. Examples of 3D developments in Dresden (J. Wolf from FhG/IZM) and Grenoble (M. Scannell from CEA-Leti) will be given, followed by presentations on design techniques (Ass. Prof. Yuan Xie from Penn State University) and test challenges (E.J. Marinissen from IMEC).

Finally few applications have been selected illustrating the “More-than-Moore” domain. Silicon photonics is generating an increasing interest and will be detailed by L. Fulbert from CEA-Leti both from the technology and design perspective. The wide field of MEMS/NEMS will be then covered before Professor G. Fettweiss from TU Dresden addresses the critical field of high-speed ultra-low power design for healthcare applications.

## Special Day on E-Mobility

DATE 2012 will take up the results of recent international e-mobility activities and will bring them to the next level by providing a unique platform for all stakeholders. For the first time the whole supply chain, ranging from EDA to car manufacturers Audi and Peugeot Citroën Automobiles and their suppliers like Robert Bosch GmbH and Infineon Technologies, will meet and work together on designing electronic systems for building hybrid and fully electrical cars that can drive longer distances and excel on robustness.

“Leading technical experts and management of these manifold types of suppliers will debate about the necessity of multidisciplinary R&D to significantly increase the driving range and to master the emerging challenges in automotive electronics to be solved across the entire supply chain”, says Oliver Bringmann, Special Day Chair e-Mobility.

In several hot topic sessions the latest achievements and new requirements will be presented in the areas of optimized energy management and recovery, batteries and battery management systems, robustness challenges caused by combining high and low voltage electronics, and qualification of semiconductors in electric power trains. Moreover, at DATE 2012 EDA market leaders Synopsys, Cadence and Mentor will team up with the tool providers of the automotive industry like AVL and will discuss in a dedicated panel session the role of EDA in the development of

electric vehicles.

On top of that, DATE 2012 is providing a demonstration area and a creative park for electric vehicles to all attendees and representatives from e-mobility projects of the European Green Car Initiative, Germany's BMBF-funded initiative "STROM" and other important national R&D initiatives.

## General Information on DATE 2012

In 2012 DATE will take place in the ICC, Dresden, Germany. The Saxony state capital is, with its 500.000 inhabitants, an attractive and energetic modern city connecting east and west Europe. Dresden has an historic but modern flair, offering an excellent environment for DATE 2012.

The International Congress Center Dresden is one of the most modern of its kind in Germany and Europe and fully meets the requirements for cutting-edge seminar, conference and event technology.

The Congress Center and adjoining Maritim Hotel are situated in the heart of the city, only a few steps away from most sights of Dresden and are easily accessible from Dresden Klotzsche Airport by train, tram or car. This purpose built venue is located approximately 15 minutes from the airport and 5 minutes from the city centre.

It is adjacent to the Maritim hotel which will provide some competitively priced hotel rooms. The DATE committee are working with Silicon Saxony (a registered industry association of approximately 300 companies in the microelectronics and related sectors) to maximise quality visitor attendance to the event and highlight the presence of DATE.

For further information please visit: [www.date-conference.com](http://www.date-conference.com) [1]

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[1] <http://www.date-conference.com>