

## E = T<sub>e</sub>M<sup>2</sup> and EPE 2001, do not miss our next events

### E = T<sub>e</sub>M<sup>2</sup>

When you will read this page, we will be in the last days of registration. I included the full programme as it was known early February. To know the actual version of the programme, have a look at our Internet site. In any case, do not wait any longer to return the registration form if you are interested by the evolution perspectives of teaching electrical engineering.

This is a new type of event. It is based on panel discussions, dialogue sessions, forum discussions and demonstrations. Two prominent keynote speakers will introduce the debates.

Prof. Jufer, vice-president education at EPFL will give a global picture of the situation in our field, the lack of students, the introduction of IT technologies,... Many why's and how's actually. So what will be the future?

Prof. Robert Lorenz, of the University of Madison, Wisconsin will share his 10 years of experience with distance learning, give examples and explain how the University used this technology as a strategic element of its success.

Interested? It is still time to sign up!

### EPE 2001 - the provisional programme unveiled!

The provisional programme is building up. Papers have been reviewed and authors are invited to submit their full paper no later than 30 April. Scrupulous following of the guidelines is mandatory.

#### Keynotes!

We have invited for the three keynotes, outstanding industrialists. See for yourself!

**Markus Bayegan**, Senior Corporate Officer, Research and Development, ABB, will give a keynote on "Power Electronic Technologies for Distributed Power".

*Power Electronics is a key element in alternative energy systems. It is indispensable for energy management inside the system itself, providing highest efficiency of the respective generating unit. It also is used to connect the various systems to the grid and to the end user and by that ensuring highest power quality.*

Dr. Bayegan, 53, joined ABB in 1981 through the company's predecessor in Norway - EB Corporation - and in 1987 he was appointed head of corporate research there. In January 1998 he was promoted to Senior Corporate Officer, head of Group R&D and Technology, and in January 2001 to Chief Technology Officer. A Norwegian citizen, Dr. Bayegan has extensive experience as a research scientist and systems engineer with various organisations. He was a Visiting Research Scientist at Stanford University in the U.S. from 1980-81 and since 1985 has held the position of Professor of Electronics Manufacturing at the Norwegian Institute of Technology in Trondheim, from which he holds a PhD in computer-aided design. Dr. Bayegan has written a number of books in the area of microelectronics and information technology and has a graduate degree in electronics from the Technical University of Vienna, Austria.

**Dieter Gerling**, Robert Bosch GmbH, will give a keynote on "Challenges and perspectives of electric drives in the automotive industry".

*Electrical drives are known in automobiles since the very beginning of building cars. Currently, there are more than 100 electrical drives in a modern passenger car of the luxury class, with a tendency of even increasing numbers.*

*The keynote will analyse the current status of electrical drives in the automotive industry and describe upcoming trends. Some exemplary future applications will illustrate the challenges and perspectives of this part of the electrical industry.*

Dr. Gerling received his PhD. in electrical engineering from RWTH Aachen, Germany in 1992. In 1986 he joined the Philips Research Laboratories in Aachen, Germany, as Research Scientist in the department "Electromechanics and Power Circuitry". As Project Leader he was responsible for several projects concerning electrical drives for the consumer industry as well as for the automotive and medical industry. In January 1999 he has been appointed "Senior Scientist". Since joining the division "Automotive Body Electronics" of Robert Bosch GmbH in Bülh, Germany in October 1999 he is responsible for the department "Advanced Development and Product Engineering Electrical Drives".

**Dietrich Stephani**, Head of SICED, Erlangen, Germany will talk about "Silicon Carbide, on the Threshold of a New Era in Power Electronics".

*For many years Silicon Carbide was proposed as the outstanding material for power electronic devices. However, due to the many hurdles which had to be overcome in crystal growth, device technology and device design SiC power devices were - as ever - proposed for the future. The recent announcement of Power Semiconductors in Silicon Carbide by Infineon Technologies indicates a significant change of this situation.*

*The presentation will give the audience an insight into the status of the development and the prospects of SiC power devices and how their characteristics do and will affect power electronics.*

Dietrich Stephani received the Dipl.-Ing. and the Ph. D. degrees in Electrical Engineering from the Technical University of Aachen in 1974 and 1981, respectively. In 1984 he joined the Corporate Technology of Siemens AG. From 1984 to 1991 he worked on semiconductor technology, thin film technology and on microsystems. In 1991 he became the head of the Department Silicon Carbide Switching Technology. In March, 2000 he was appointed as managing director of SICED Electronics Development GmbH & Co. KG, a joint venture of Siemens AG and Infineon Technology AG.

There will be much more in Graz from 27 to 29 August 2001! Mark your agenda!



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