

# TUTORIALS - EPE2001

**Saturday, Aug. 25th, 2001**

## **T01**

### **Electromagnetic Compatibility (EMC) within Power Electronics**

by Jacques Laeuffer, PSA Peugeot Citroën, France, and Prof. Cnam, Paris, France

Full day (9 a.m. to 4 p.m.)

Location: University of Leoben

including sightseeing: Egypt-exhibition or Mining museum (Erzberg)

## **T02**

### **Modern Simulation Based Design Methods for Power Electronic Systems**

by Dr. Arendt Wintrich, Semikron, Dr. Lutz Zacharias, SIMEC GmbH & Co KG

Full day (9 a.m. to 4 p.m.)

Location: University of Leoben

including sightseeing: Egypt-exhibition or Mining museum (Erzberg)

## **T03**

### **Energy-Storage and Applications with Supercapacitors**

by Roland Gallay Montena, Components SA Rossens, Prof. A. Rufer EPFL Lausanne ,  
Dr. Philippe Barrade, EPFL Lausanne, Switzerland

Half day (9 a.m. to 12 a.m.)

Location: Semriach

including sightseeing: Lur-Grotte or Stübing (old farming houses open air museum)

## **T04**

### **Integrated Passive Components**

by Eberhard Waffenschmidt, Philips Research Aachen, Prof. J. A. Ferreira, Delft University  
of Technology, P.M. Closkey, PEI

Half day (1 p.m. to 4 p.m.)

Location: Semriach

including sightseeing: Lur-Grotte or Stübing (old farming houses open air museum)

## **T05**

### **Power Quality Mitigation using Custom Power Devices**

by Dr. P. Bauer (TU Delft) and Dr. JHR Enslin (KEMA)

Full day (9 a.m. to 4 p.m.)

Location: Seggau

including sightseeing: Seggau and wine yard

## **T06**

### **Understanding and Designing of Switch-Mode Power Electronics Simplified using a Building-Block Approach (assisted by Computer Simulations)**

by Ned Mohan, William P. Robbins, Dept. of Electrical and Computer Engineering,  
Minneapolis; Tore Undeland, NTNU, Trondheim, Norway and Frede Blaabjerg,  
Aalborg University, Denmark

Full day (9 a.m. to 4 p.m.)

Location: Seggau

including sightseeing: Seggau and wine yard

**Sunday, Aug. 26th, 2001**

## **T11**

### **The Design and Application of Fast Recovery Diodes in IGBT Circuits**

by Munaf Rahimo, ABB and Josef Lutz, Semikron

Full day (9 a.m. to 4 p.m.)

Location: University of Leoben

including sightseeing: Egypt-exhibition or Mining museum (Erzberg)

## **T12**

### **Modelling and Simulation for Power Electronics and Electrical Drives**

by Pavol Bauer, Delft University of Technology, The Netherlands, and Peter van Duijsen, Simulation Research, The Netherlands

Full day (9 a.m. to 4 p.m.)

Location: University of Leoben

including sightseeing: Egypt-exhibition or Mining museum (Erzberg)

## **T13**

### **10 Good Reasons to use DSP processors in Power Electronics and Intelligent Motion Applications**

by Dr. S. Colombi, IMV Invertomatic Technology, Switzerland, Dr. M. Nicollerat, CHS Engineering, Switzerland.

Full day (9 a.m. to 4 p.m.)

Location: Semriach

including sightseeing: Lur-Grotte or Stübing (old farming houses open air museum)

## **T14**

### **Sensorless Control of Induction Motors and Permanent Magnet Synchronous Motors**

by Prof. Manfred Schrödl, University of Vienna, Austria

Full day (9 a.m. to 4 p.m.)

Location: Semriach

including sightseeing: Lur-Grotte or Stübing (old farming houses open air museum)

## **T15**

### **Power Electronics and Power Quality: a Strong Connection**

by Prof. Medhat M. Morcos, Kansas State University, USA and Juan C. Gómez, Universidad Nacional De Rio Cuarto, Argentina

Full day (9 a.m. to 4 p.m.)

Location: Seggau

including sightseeing: Seggau and wine yard

## **T16**

### **Three-phase High Power Factor Rectifiers**

by Prof. Johann W. Kolar, Technical University Vienna, Austria and Jian Sun, Rockwell Coliins, Inc, Cedar Rapids, USA

Full day (9 a.m. to 4 p.m.)

Location: Seggau

including sightseeing: Seggau and wine yard

**Sunday, Aug. 26th, 2001**

**T17**

**Understanding of Electric Drives using a Unique Physical Approach:  
From Basics to Vector and Sensorless Control and Modelling Using  
SIMULINK™**

by Ned Mohan, William P. Robbins, Dept. of Electrical and Computer Engineering,  
Minneapolis; Tore Undeland, NTNU, Trondheim, Norway and Frede Blaabjerg,  
Aalborg University, Denmark

Full day (9 a.m. to 4 p.m.)

Location: Bad Blumau

including sightseeing/wellness: Therme Blumau

**T18**

**~~Design of Small Inductors and Transformers for Use in High Frequency Power  
Converters and SMPS~~ CANCELLED BY THE AUTHORS**

**T19**

**Description and Control of Multimachine Multiconverter Systems (MMS)**

by Dr. Alain Bouscayrol, Electrical Engineering Laboratory of Lille (L2EP), Scientific  
and Technology University of Lille, Prof. Bernard de Fornel, Electrical Engineering  
Laboratory of Toulouse (LEEI), Institut National Polytechnique de Toulouse, France

Half day (9 a.m. to 12 a.m.)

Location: University of Leoben

including sightseeing: Egypt-exhibition and Mining museum (Erzberg)