Invitation to the EPE 2001 Exhibition

During the EPE 2001 Conference, a commercial exhibition will be organized. This is a unique opportunity for you to show your newest products. The aim of the exhibition is to promote technical discussions and business contacts between specialists in the field. In addition to the exhibition special products presentations can be organized at exhibitor seminars on request. More than 1000 decision makers, designers, technical staffs etc. are expected. At the EPE 2001 Conference, next to the regular topics, special attention will be devoted to semiconductor packaging. General discussion sessions (workshops) on these topics will be organized. The information included in this exhibition package will help you to arrange your participation in the exhibition. For further details do not hesitate to contact the EPE Secretariat (epe-association@etec2.vub.ac.be).

Message from the Conference Chairman

The 9th EPE Conference in Graz will follow the success of Brussels, Grenoble, Aachen, Florence, Brighton, Sevilla, Trondheim and Lausanne. The established high quality of the EPE conferences and the record number of contributions to be received from industry will make the EPE 2001 Conference the most important meeting point for interaction between specialists in the field.

Graz is the capital of Styria in the south-east of Austria with 250,000 inhabitants. Graz has been an important university city of international repute since 1585: University of Graz, Technical University Graz, University of Music and Drama in Graz. Graz offers a lot of cultural activities, will be the Cultural City of Europe 2003 and is a starting point for trips to the South Styrian Wine Route, the Piber Lipizzaner Stud Farm, the Erzberg, the Thermenland and many other beautiful locations.

EPE 2001 will be held at the GRAZER CONGRESS (Convention Center Graz, http://www.grazercongress.co.at) in the centre of the Old Town of Graz. All conference activities will be concentrated in this historical building which is within easy foot-walking distance of the main conference hotels.

Topics

Power electronics has become the enabling technology for the majority of power processing throughout electronic and electrical engineering. It is used in all areas of electrical power conversion and control, from switched and resonant mode power supplies, through industrial and traction drives. Recent innovations in packaging will be addressed with an additional special conference topic.

Topic 1: Devices
1a. Passive components
1b. Power semiconductor devices
1c. Hybrid power integration
1d. Monolithic power integration
1e. Device characterization and applications
1f. Thermal design
1g. New devices
1h. Reliability of devices
1i. Simulation and modeling of power devices

Topic 2: Power electronics converter circuits
2a. Soft switching converters (resonant, ZVS, ZCS)
2b. Power converter circuits and control
2c. Multilevel and matrix converters
2d. Modern line side converters
2e. Emerging topologies

Topic 3: Power supplies
3a. Uninterruptible power supplies (UPS)
3b. DC power supplies
3c. Switched and resonant-mode power supplies
3d. High frequency power converters
3e. Power factor correction
3f. Modelling and simulation, user application experiences

Topic 4. Application of control methods to electrical systems
4a. Optimal control, robust control, non-linear control
4b. Fuzzy control, neuronal control
4c. Open and closed loop system control, fault handling strategies

Topic 5. Modulation strategies and specific control methods for static converters
5a. Converter control sets and modulation strategies
5b. Converter control, current/voltage control

Topic 6: Electrical machines and adjustable speed drives
6a. Permanent magnet machines and drives
6b. Reluctance machines and drives
6c. Linear machines and drives
6d. A.c. and d.c. machines and drives
6e. Adjustable speed drive systems
6f. Sensorless techniques
6g. Estimation techniques
6h. Design and diagnoses
6i. Converter machine interactions
6j. Energy efficient drives
6k. Modelling and simulation
6l. Applications: locomotives, planes, boats, industrial applications, etc.

Topic 7: Motion control and robotics
7a. Servo drives; stepping, linear and brushless drives
7b. Actuators, transducers
7c. Piezo and electrostatic actuators
7d. Fieldbus systems for drives
7e. Applications
7f. Modelling and simulation

Topic 8: Measurements and sensors
8a. Components
8b. Measurements techniques
8c. Software for measurements and virtual instruments
8d. System integration and applications

Topic 9: Power electronics and drives in the automotive industry
9a. Power electronics in the conventional automobile
9b. Power electronics in electric and hybrid vehicles
9c. Battery charger, battery management, test bench
9d. Simulation
9e. Data transmission
Topic 10: Power electronics in generation, transmission and distribution of electrical energy
10a. Renewable energy systems
10b. HVDC
10c. FACTS
10d. Active filters and harmonics
10e. Adjustable speed generation systems
10f. Generator, excitation systems
10g. Modelling and simulation

Topic 11: Systems engineering
11a. EMC
11b. Energy system management, user applications experiences, modelling and simulation
11c. Power conditioning, power factor correction
11d. Reliability
11e. Diagnostics

Topic 12: Power electronic system design & packaging
12a. Thermal mechatronics
12b. Integrated design methodologies
12c. Interconnection methods
12d. Integration of FEA and lumped parameter methods
12e. Validation methods for design methodologies
12f. Integrated failure analysis and reliability methods

Topic 13: Education
13a. Education methodology
13b. Simulation software
13c. Education tools

List of Previous Exhibitors

ABB Industrie AG
ABB Semiconductors AG
Analogy AB
Anritsu Wiltron Norway
Applied Magnetics
Benning Power Electronics GmbH
Bergquist-ITC GmbH
BFI-IBEXSA Nordic AB
BIT Elektronik AS
Bo Holmgren AB
Boige & Vignal
CHS Engineering
CS Systems AS
Curamik Electronics GmbH
DSpace GmbH
Efore Oy
Eldre S.A.
Electronic Concepts Europe Ldt
Electronitel SA
Elis Elektro AS
Ericsson Component Distribution, Norway
Ferraz
Fuji Electric GmbH
Grundfos Electronics
Hans H. Schive A/S
Henaco A/S
Hitachi Europe Ltd.
Honeywell AS
IMV SA
Instrutek AS
IXYS Semiconductor GmbH
John Wiley & Sons
LEM SA
Micro-Beam SARL
Minimotor SA
Minnesota Power Electronics
Mitsubishi Electric
Mitsubishi Semiconductor Europe
Montena Components SA
Motorola Semiconductor
Nordic VLSI ASA
Power Electronic Measurement Ldt
Semikron AG
SEI/ The Hatteland Group
Sheco Component AS
Siemens AB, Siemens Components
Sigma Elektroteknisk AS
Simec GmbH & Co KG
Universidad de Oviedo
Visitron Feiring A/S
Ziehl-ebn as
ZM Communications GmbH
<table>
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<th>Conference</th>
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Exhibition Location

The exhibition will be integrated in the conference and is therefore located between the lecture and dialogue presentation area and the coffee break spots.

Numbering for exhibition positions:

Position number 1 to 102, 1 unit = 1 m x 2 m = 2 m²

Special position 1 to 10: Minimal number of units per booth accepted: 4
Special position 11 to 18: Minimal number of units per booth accepted: 3
Position 19 to 102: Minimal number of units per booth accepted: 2
**Description of the Exhibition Booth**

Each exhibition booth is composed of standard SYMA components. It consists of white walls of 2.5 m height and a front panel (30 cm high, white) with the exhibitor’s name (Arial letters, 10 cm high, red colour, 15 letters maximum). The following standard equipment is included in the 4 m\(^2\) and 6 m\(^2\) booth: two spotlights of 100 W, one table (1.4 x 0.7 x 0.7 m) and 2 chairs, one triple socket for power supply (230 V single phase 50 Hz). A three phase power supply (400 V, 50 Hz) and other additional components can be ordered separately with the application form. An e-mail room will be available for the participants and exhibitors.

![Standard exhibition booth with SYMA components, size 6 m\(^2\) (3 x 2 m) with front panel](image)

**Application for Space**

Intending exhibitors are requested to submit their completed application form as soon as possible. The space, especially a specific location (position number), will be reserved on the basis of first come – first paid – first served.

The basic deadline for application is March 1\(^{st}\), 2001. The deadline for receipt of payment is April 1\(^{st}\), 2001.

After application the EPE Association will invoice 100 % of the total sum applied for. The application will be considered as firm after payment of this invoice. 25 % of this deposit is non returnable except in the event of the total space available at the exhibition being over subscribed.

You are invited to apply for your preferences and every effort will be made to accommodate your needs. The reserved area for the exhibition is divided into 1 m x 2 m units numbered for choosing the desired booth location. Please reserve no booths smaller than 4 units for position 1 to 9, and 3 units for position 10 to 16 in the foyer area. If the invoice for the desired space is paid in full the space is guaranteed. Exhibitors will be notified in May 2001 of their booth position.

**Costs (excluding VAT)**

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<th>Standard booth size (m(^2))</th>
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<td>3,880,--</td>
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<td>18</td>
<td>4,365,--</td>
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</table>
VAT Information

The exhibitors have to remit the costs plus 20% Austrian VAT. If companies without a business location inside Austria can prove their company status the paid VAT for exhibition etc. can be refund from the Austrian financial agency on request. The forms will be handed out at the exhibition.

Reduction or Cancellation of Space

On acceptance of the stand allocation the exhibitor becomes liable to pay the whole of the charge for the booth to the EPE Association. Cancellations of accepted booths and reductions in booth space contracted for must be notified to the EPE Association in writing. A reduction in booth space shall be treated as a pro rata cancellation. The following percentages of booth cost booked or contracted for will be charged depending on the date when the written notice is received.

<table>
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<tr>
<th>Date Range</th>
<th>Percentage</th>
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<tr>
<td>Until April 20th, 2001</td>
<td>25 %</td>
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<td>Until May 18th, 2001</td>
<td>50 %</td>
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<td>Until June 15th, 2001</td>
<td>75 %</td>
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<td>Until July 13th, 2001</td>
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The EPE Association, at their discretion, may waive part of the total sum due in respect of cancellation charges. The EPE Association would consider each individual case on its own merits. In particular, the extent of any rearrangement of inconvenience caused would be considered and if any cancelled space should be re-let and allowance might be made.

Map of Communications

Graz is located 200 km by road (motorway A2) in the Southwest of Vienna (Wien) (see maps). The train between Vienna and Graz takes 2.35 h. The modern air-port Graz Thalerhof is located 15 km in the south of the downtown of Graz. There are direct flights from e.g. Vienna (0.50 h), Frankfurt (1.30 h), Zürich (1.45 h) and Budapest (1.30 h).
Graz located in Austria

**Secretariat**

**EPE Secretariat**
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EPE Association  
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Pleinlaan 2  
B-1050 Brussels  
Belgium  
Tel.: +32 2 629 28 19  
Fax: +32 2 629 36 20  
e-mail: epe-association@etec2.vub.ac.be

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Department of Electrical Engineering  
University of Leoben  
Franz Josef Strasse 18  
A-8700 Leoben  
Austria

Fax: +43 3842 402 318  
e-mail: epe2001@unileoben.ac.at

Most recent and additional information:

EPE Association: [http://www.epe-association.org](http://www.epe-association.org)  
Tourism: Graz and Steiermark  
[http://www.graztourismus.at](http://www.graztourismus.at)  
[http://www.steiermark.at](http://www.steiermark.at)