

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

Participants Profiles

Conference Country	Trondheim EPE'97			Lausanne EPE'99			Graz EPE 2001 (estimated)		
	No. of participants			No. of participants			No. of participants		
	Indust.	Univ.	Total	Indust.	Univ.	Total	Indust.	Univ.	Total
Algeria	0	0	0	2	1	3	1	1	2
Armenia	0	2	2	0	0	0	0	0	0
Australia	1	2	3	0	4	4	0	4	4
Austria	1	7	8	4	7	11	10	30	40
Belgium	10	10	20	9	19	28	10	10	20
Bosnia a. Herzegovina	0	0	0	0	1	1	0	1	1
Brazil	0	4	4	1	5	6	0	4	4
Bulgaria	0	0	0	0	0	0	0	3	3
Canada	1	2	3	1	4	5	1	2	3
Chile	0	3	3	1	3	4	0	3	3
China	0	0	0	1	3	4	0	2	2
Croatia	0	1	1	0	4	4	2	6	8
Czech Republic	3	5	8	4	4	8	2	6	8
Denmark	17	10	27	10	9	19	10	9	19
Egypt	1	0	1	0	3	3	0	3	3
Estonia	0	1	1	0	1	1	0	1	1
Finland	8	12	20	8	14	22	4	7	11
France	56	69	125	66	80	146	56	69	125
Germany	71	78	149	102	86	188	102	86	188
Greece	0	2	2	0	1	1	1	1	2
Hong Kong	0	3	3	0	2	2	0	2	2
Hungary	1	4	5	1	3	4	3	7	10
Iceland	0	1	1	0	1	1	0	1	1
India	0	0	0	4	5	9	4	5	9
Iran	0	0	0	0	1	1	0	1	1
Ireland	1	6	7	2	2	4	2	2	4
Israel	0	0	0	0	1	1	0	1	1
Italy	18	28	46	19	33	52	18	28	46
Japan	12	39	51	7	49	56	7	49	56
Korea	8	11	19	1	8	9	5	12	17
Latvia	0	3	3	0	2	2	0	3	3
Malta	0	0	0	0	1	1	0	1	1
Mexico	0	0	0	2	0	2	2	0	2
Moldavia	0	1	1	0	1	1	0	1	1
New Zealand	3	2	5	0	0	0	2	2	4
Norway	62	13	75	10	5	15	10	5	15
Poland	0	24	24	1	27	28	3	32	35
Portugal	1	15	16	5	10	15	5	10	15
Romania	0	4	4	1	9	10	1	9	10
Russia	4	7	11	0	0	0	1	4	5
Slovak Republic	0	3	3	2	6	8	3	9	12
Slovenia	0	2	2	0	1	1	2	6	8
South Africa	0	2	2	1	3	4	1	3	4
Spain	6	21	27	5	38	43	6	21	27
Sweden	25	28	53	15	21	36	15	21	36
Switzerland	38	15	53	85	65	150	40	20	60
Syria	0	0	0	0	1	1	0	1	1
Taiwan	0	2	2	0	2	2	0	2	2
Tanzania	0	1	1	0	0	0	0	1	1
The Netherlands	13	8	21	11	10	21	11	10	21
Tunisia	0	3	3	0	2	2	0	2	2
Ukraine	0	0	0	0	1	1	0	3	3
United Kingdom	17	35	52	19	37	56	19	37	56
USA	10	20	30	6	6	12	8	13	21
Venezuela	0	5	5	1	3	4	1	3	4
Yugoslavia	0	1	1	0	1	1	0	2	2

All countries	Indust.	Univ.	Total	Indust.	Univ.	Total	Indust.	Univ.	Total
No. of participants	388	515	903	407	606	1013	368	577	945

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 m² and 6 m² 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 m² (3 x 2 m) with front panel

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 1st, 2001. The deadline for receipt of payment is April 1st, 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)

Standard booth 4 m ² (2 units)	970,-- EURO	Standard booth 12 m ²	2.910,-- EURO
Standard booth 6 m ²	1.455,-- EURO	Standard booth 14 m ²	3.395,-- EURO
Standard booth 8 m ²	1.940,-- EURO	Standard booth 16 m ²	3.880,-- EURO
Standard booth 10 m ²	2.425,-- EURO	Standard booth 18 m ²	4.365,-- EURO

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.

Until April 20th, 2001 25 %
Until May 18th, 2001 50 %

Until June 15th, 2001 75 %
Until July 13th, 2001 100 %

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 Europe



Graz located in Austria

Secretariat

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Most recent and additional information:

EPE Association: <http://www.epe-association.org>
 The conference : <http://epe2001.unileoben.ac.at>
 The host: <http://epe2001.wamisoft.be>
 Tourism: Graz and Steiermark
<http://www.graztourismus.at>
<http://www.steiermark.at>