

# *EPE Newsletter March 2007*

## Newsletter contents

1. In memoriam Professor Gaston Maggetto
2. Wind chapter Symposium postponed to September in Aalborg during EPE 2007 (2 to 5 September 2007)
3. European Seminar on "Power Converters for the Future European Electricity Network": Vienna, Austria, 25 May 2007
4. Positions available at the University of Nottingham, School of Electrical and Electronic Engineering
5. Call for papers for EPE journal, included in ISI and Compendex
6. Technically sponsored conferences

### 1. In Memoriam Gaston Maggetto



With deep sadness we have to announce the death of Professor Gaston Maggetto which has occurred in the night of Friday 9 February 2007. Professor Gaston Maggetto was at the very beginning of EPE. The Association organizes in Europe the largest and most important conference in the field of Power Electronics and its applications. At every issue about 1000 experts in the field meet to discuss on various important future oriented scientific topics. This became possible thanks to the work of Professor Gaston Maggetto. Professor Gaston Maggetto initiated in the early 80ies at multiple international conferences in Europe (IFAC, ICEM, PCIM, CONUMEL, IEE-PEMD...) the idea to join the efforts in one large, world known event. He has put major efforts in realizing this idea and had contacts with multiple well known scientists: Prof. Werner Leonhard, Prof. Hansruedi Bühler, Prof. John Murphy, Prof. Rex Davis, and many others. As a result, in 1985 the first EPE conference took place in Brussels, chaired by Professor Maggetto. After this event, the conference has been organized every odd year in different European cities: Grenoble, Aachen, Firenze, Brighton, Trondheim, Sevilla, Lausanne, Graz, Toulouse, Dresden. From 1998 on, the central/eastern European countries joined the idea and the PEMC conferences became EPE-PEMC to take place every even year.

In 1988, the EPE Association was officially founded, with first chairman Prof. Maggetto. After his two years term he passed this role to Professor J.C. Sabonnadière and continued to serve until now as the treasurer of the association. He organized the EPE secretariat in Brussels, giving the EPE association a permanent staff to evolve to a professional conference organizer and journal editor on its own. He played a key role in the EPE policy making, with great care for a good balance between financial matters and the meeting of high scientific standards, which is a well known tricky exercise for the non profit international organizations. During the EPE conference in Dresden in 2005, Professor Maggetto received a special award as key founding member. The name of Professor Maggetto will for ever remain associated with this important achievement.

A register for messages of sympathy has been opened at the following address

<http://etecmc10.vub.ac.be/maggetto>

### 2. Wind chapter Symposium postponed to September in Aalborg during EPE 2007

For practical organisation reasons, the Symposium planned in Brussels on 21-22 March 2007 has been postponed and will take place during the EPE 2007 Conference that will be held from 2 to 5 September 2007 in Aalborg, Denmark. The sessions devoted to the Chapter Symposium will be organized on Monday 3 September 2007.

### 3. European Seminar on "Power Converters for the Future European Electricity Network": Vienna, Austria, 25 May 2007

On Friday 25 May 2007, the day after closing of CIRED 2007 Conference, EPE Association organizes a half-day seminar on the topic "Power Converters for the Future European Electricity Network". Invited lectures from representatives of the European programmes Dispower, Fenix and UNIFLEX-PM will be presented and will lead to a workshop/panel discussion.

For information and registration: <http://www.eee.nott.ac.uk/uniflex>

#### **4. Positions available at the University of Nottingham, School of Electrical and Electronic Engineering Four Research Fellows in the Power Electronics, Machines and Control Research Group**

Applications are invited for Four Research Associates to work in the Power Electronics, Machines and Control Group in the School of Electrical and Electronic Engineering at the University of Nottingham. **These posts are an exciting opportunity to join a dynamic and internationally renowned research group currently numbering over 80 researchers.**

Candidates for all the posts should hold a good Honours degree in Electrical and/or Electronic Engineering or related discipline and have postgraduate (PhD) experience in the area of Power Electronics, Power Conversion, Power Systems, Machine Control or related areas. Candidates should have the ability to undertake simulation and experimental project work, to work independently and have good interpersonal and IT skills.

**Post 1.** This project will focus on the development of Power Supplies for High Power RF applications. The project is funded by a DTI grant in collaboration with leading industrial partners in this area. The successful candidate will have experience in the control, design and construction of Power Electronic Converters as well as a desire to work on high power/high voltage converters. Further information may be obtained by contacting Dr. Pat Wheeler ([pat.wheeler@Nottingham.ac.uk](mailto:pat.wheeler@Nottingham.ac.uk))

**Post 2.** An exciting opportunity for a Research Fellow exists in a EU funded project which is considering the future use of power conversion within the European electricity supply network. The ideal candidate will be expected to have previous experience in either power systems or power electronics and will be required to undertake the simulation, design, control and construction of a multi-level power converters for demonstration purposes within the project. The successful candidate will also be expected to travel to project meetings with the 8 other European partners in the project. Further information may be obtained by contacting Prof. Jon Clare ([jon.clare@Nottingham.ac.uk](mailto:jon.clare@Nottingham.ac.uk))

**Post 3.** This researcher will work on power electronics related to the "More Electric Aircraft" concept and is associated with the research group's large and expanding portfolio of research in aircraft electrical power systems following the recent start of a major EU funded Research project. The post is an excellent opportunity to become involved at the forefront of research in this exciting and rapidly developing technology area. Candidates are expected to be able to demonstrate an ability to simulate, design, build and test experimental power converters. Further information may be obtained by contacting Dr. Pat Wheeler ([pat.wheeler@Nottingham.ac.uk](mailto:pat.wheeler@Nottingham.ac.uk))

**Post 4.** This DTI funded project will focus on the design and control of a grid-interface power converter for a large motor drive application. The successful candidate will work as part of a team and will have a good knowledge of power electronics and motor drives. Further information may be obtained by contacting Dr. Pat Wheeler ([pat.wheeler@Nottingham.ac.uk](mailto:pat.wheeler@Nottingham.ac.uk))

The starting salary will be in the range of £20,842 - £28,009 per annum. Applicants should send, by email, a CV citing two referees by 23<sup>rd</sup> March 2007 to [Claire.parfitt@nottingham.ac.uk](mailto:Claire.parfitt@nottingham.ac.uk)

#### **5. Call for papers for EPE journal, included in ISI and Compendex**

EPE Journal is included in the Science Citation Index as well as in the Compendex. Send your best technical papers for publication to [bsnevers@vub.ac.be](mailto:bsnevers@vub.ac.be) (pdf file, without any mention of authors, full coordinates in the mail message)

#### **6. Technically sponsored conferences**

2-5 April 2007

**PCC Nagoya – The 4<sup>th</sup> Power Conversion Conference – Nagoya, Japan**

**Paper Submission Office of PCC-Nagoya 2007**

c/o ICS Convention Design., Inc.

Sumitomo Corporation Jinbocho Building

3-24, Kanda-Nishikicho, Chiyoda-ku,

Tokyo, 101-8449, Japan

Phone: +81-3-3219-3600 Fax: +81-3-3292-1811

e-mail: [pccnagoya@ics-inc.co.jp](mailto:pccnagoya@ics-inc.co.jp)

Website: <http://www.ics-inc.co.jp/pcc/>

3-5 May 2007

**International Electric Machines and Drives conference, Antalya, Turkey,**

Contact: Professor Okyay Kaynak, General Chair,

IEMDC'07, [kaynak@boun.edu.tr](mailto:kaynak@boun.edu.tr)

Professor Herbert L. Hess

Technical Chair, IEMDC'07

[hhess@ieee.org](mailto:hhess@ieee.org); <http://www.iemdc07.org>.

16-19 September 2007

**The Sixth International Symposium on Linear Drives for Industrial Applications**

**LDIA2007 SECRETARIAT**

Dr. S. Brisset

Ecole Centrale de Lille, Cité Scientifique - B.P.48, 59651

Villeneuve d'Ascq Cedex, France

Phone: +33(0)320 335 429

Fax: +33(0)320 335 454

E-mail: [ldia2007@ec-lille.fr](mailto:ldia2007@ec-lille.fr)

## 6. Technically sponsored conferences (continued)

26-27 September 2007

### International Conference AUTOMOTIVE POWER ELECTRONICS

Salons de l'Aveyron – PARIS

#### CALL FOR PAPERS AND FIRST ANNOUNCEMENT

Deadline for proposals: **30 March 2007.**

#### TOPICS TO BE ADDRESSED

They are expected to cover a wide range:

- Presentation of application requirements for passenger vehicles, buses and light duty vehicles
- Description of innovative technical solutions and development tools
- Power levels from 10 W up to 100 KW
- Applications for Internal Combustion Engine Vehicles (ICEV) and Hybrid Vehicles (HV)
- Take into account the 5 automotive stresses: Electrical, Thermal, Chemical, Vibration and EMC

**1- Automotive Standards:** technological trends

**2- Design and modelling tools for mechatronics:** power electronic design, thermal and EMC issues, simulation of electro-thermo-mechanical fatigue – *Special topic*

**3- Power electronic vehicle architecture:** powertrain alternative solutions, choice of network voltages, gateways between electrical and electronic networks

**4- Power Semiconductor devices and modules**

**5- Packaging and integration of power converters:** protection devices...

**6- Static power converters and systems**

**7- Passive components – *Special topic***

**8- Harnesses and connectors**

**9- Actuators and motors control and drives**

**10- Mechatronics integration**

**11- Power dissipation management / Cooling**

**12- Electro-magnetic issues:** impact of power electronics on in-vehicle architecture, new standards to come, electronic and harness design guidelines

**13- Preventive diagnosis:** failure prognosis, maintenance, thermal fatigue

**14- Reliability, safety and test:** limiting failure mechanisms, acceleration factors, high operating temperatures, test methods and tools, predictive reliability tools, dependability, robustness validation, requirement analysis – *Special topic*

**15- Manufacturing tools and industrial processes**

**16- End of life, Recycling and Eco-design**

#### Your contact

SIA – [st4@sia.fr](mailto:st4@sia.fr) – Tel: +33 (0)1 41 44 93 75

October 22 - 26, 2007

### The 7th International Conference on Power Electronics - ICPE '07

EXCO (Daegu Exhibition & Convention Center), Daegu, Korea

#### Call for papers still open

Important Dates

Deadline for Digests **April 30, 2007**

Author's Notification of Acceptance **June 15, 2007**

Deadline for Final Manuscripts **August 31, 2007**

#### Organized by

The Korean Institute of Power Electronics (KIPE)

**First Call for Papers** <http://www.icpe.or.kr>

**For Further Information, Please Contact**

ICPE'07 (KIPE)

Science & Technology B/D #408, 635-4, Yeoksamdong Kangnamku, Seoul, Korea, 135-703

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