

UNIVERSITA' DEGLI STUDI DI PADOVA

UIE - International Union for Electricity Applications

AEI - Associazione Elettrotecnica Italiana

IEEE - IAS/IES/PELS North Italy Joint Chapter

## HES-10

*International Symposium on*

# Heating by Electromagnetic Sources

**Induction, Conduction,  
Dielectric and Microwaves  
& EMP**

**Padua, May 19-21, 2010**

Organized by the  
Department of Electrical Engineering  
University of Padua (Italy)

*First Announcement  
and call for papers*

### Purpose of the Symposium

Following the international scientific meetings **IHS-98 Induction Heating Seminar**, **HIS-01 Heating by Internal Sources**, **HES-04 and HES-07 Heating by Electromagnetic Sources** held at the University of Padua in 1998, 2001, 2004 and 2007, the Department of Electrical Engineering organises in Padua the

#### International Symposium HES-10 Heating by Electromagnetic Sources.

The latest results of research and industrial development activities in the field of

**Induction, Conduction, Dielectric and Microwaves Heating & EMP (Electromagnetic Processing)**

will be presented and discussed by researchers, international experts and engineers from industry.

#### Main Topics

- Heating of metal billets, strips and wires
- Heat treatments of metals
- Melting of metals
- MHD problems in metallurgical processes
- EM stirring, casting, shaping, forming, levitation
- Modelling for electromagnetic processing
- Modern power supply
- Microwaves and RF Modelling and Processing
- Processes for new and innovative products
- Biomedical Applications

*Papers on research developments and applications in the suggested topics or other latest research developments are solicited.*

#### Language

The official language of the symposium will be English.

### Time and location

The Seminar will be held at Padua University on May 19-20-21, 2010. Padua is in the north-east of Italy, 30 km from Venice and Venice airport, with frequent train and bus connections. Padua can be reached also by train from Milano, Bologna, Verona (another convenient airport) and Rome.

Hotel accomodation will be organized in Padua; reservations could be done through the Symposium Secretariat.

### Organizing and Scientific Committee

- Prof. S.Asai, Nagoya University, Japan
- Prof. E.Baake, Hannover University, Germany
- Prof. J.Barglik, Silesian Univ. of Technology, Poland
- Prof. Yu.Blinov, ETU - St.Petersburg Univ., Russia
- Prof. E.Dede, University of Valencia, Spain
- Prof. D.Lavers, University of Toronto, Canada
- Prof. V.Demidovich, ETU - St.Petersburg Univ., Russia
- Prof. Y.Fautrelle, INP Grenoble/CNRS, France
- Prof. C.Leonelli, Univ. of Modena-Reggio Emilia, Italy
- Prof. B.Nacke, Hannover University, Germany
- Prof. V.Nemkov, Center for Induction Technology, USA
- Dr.Ing. B.Paya, EDF - Centre des Renardières, France
- Prof. K.Van Reusel, Katholieke Univ. Leuven, Belgium
- Prof. F.Dughiero, Scientific Secretariat, Padua, Italy
- Dr.Ing. M.Forzan, Scientific Secretariat, Padua, Italy
- Prof. S.Lupi, Chairman, University of Padua, Italy

### Deadlines

- |  |                |
|--|----------------|
| - Submission of abstracts                    | Dec. 01, 2009  |
| - Notification of acceptance                 | Feb. 01, 2010  |
| - Paper submission and<br>Early-Registration | March 20, 2010 |
| - Distribution of final programme            | April 01, 2010 |

## Submission of Papers

Researchers and engineers interested to contribute are requested to submit an extended abstract written in English, including preliminary results, (not exceeding two typewritten A4 pages). The abstract should contain: a) topic(s) for which the paper is being submitted; b) title of paper; c) name(s) and affiliation of the Author(s), full address, telephone, fax number and e-mail address of the responsible Author; d) abstract.

Use Times New Roman font and 10-point type; single space; top and bottom margins of 1", left and right margins of 1.25".

**Abstracts should be sent via e-mail (both in Doc and Pdf format) to:**

[hes10@die.unipd.it](mailto:hes10@die.unipd.it)

Contributions accepted for presentation at the Symposium will be printed in the Seminar Proceedings. Selected papers will be published on **COMPEL** and the journals **ELEKTROWÄRME International** and **HEAT PROCESSING**.

## Participation Fee

Early-registration and binding registration fee for authors, covering the Symposium material, coffees, proceedings and social activities will be of EURO 425 +VAT until March 20, 2010. Normal rate registration fee after March 10 will be of EURO 500+20% VAT.

## Exhibition area

A table-top display exhibition area will be available on request for Manufacturers and Research Institutes for presentation of latest developments and products.

## Further information

Will be available (from July 01, 2009) at the following URL address:

[www.die.unipd.it/dipartimento/eventi/hes10](http://www.die.unipd.it/dipartimento/eventi/hes10)

or will be received sending the reply form to:

**Universita' degli Studi di Padova  
Dipartimento di Ingegneria Elettrica  
Secretariat of HES-10  
Via Gradenigo, 6/a  
35131 - PADOVA (Italy)  
tel. +39-049-827.7520/7591/7708/7506  
fax. +39-049-827.7599**

e-mail: [hes10@die.unipd.it](mailto:hes10@die.unipd.it)



**Padua - Piazza del Santo**  
**The famous equestrian statue of the captain of fortune**  
**Erasmus da Narni called "Gattamelata",**  
**sculptural masterpiece of Donatello – 1454**

## Reply Form

### **HES-10** **Heating by Electromagnetic Sources** **International Symposium**

Family name:

First name:

Title:

Position:

Affiliation:

Address:

Phone:

Fax:

E-mail:

**I intend to attend the Symposium:**

- **Presenting a paper:**
- **Without presenting a paper:**