



UNIVERSITA' DEGLI STUDI DI
PADOVA



UIE - International Union for
Electricity Applications



AEIT - Elettrotecnica, Elettronica,
Automazione, Informatica e
Telecomunicazioni



IEEE - IAS-PELS-IES
North Italy Joint Chapter



AMPERE
Association for Microwave Power in
Europe for Research and Education



COMUNE DI PADOVA



Padua, Scrovegni Chapel – 'Cappella degli Scrovegni' (1303-1305)
Giotto (1267-1337)



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

HES-16

International Conference on Heating by Electromagnetic Sources

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

Padua, May 24-27, 2016

**First Announcement
and call for papers**

Purpose of the Conference

Following the international scientific meetings IHS-98 Induction Heating Seminar, HIS-01 Heating by Internal Sources, HES-04, HES-07, HES- 10 and HES-13 Heating by Electromagnetic Sources held at the University of Padua in 1998, 2001, 2004 2007, 2010 and 2013, the Department of Industrial Engineering organises in Padua the:

International Conference HES-16 Heating by Electromagnetic Sources

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

**Induction, Conduction, Dielectric, Microwaves
Heating and 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
- Food Industry Applications
- Sensors and actuators in electroheat processes
- Optimization and process control

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

Organizing and Scientific Committee

- Prof. E. Baake, Hannover University, Germany
- Prof. J. Barglik, Silesian Univ. of Technology, Poland
- Prof. Yu. Blinov, ETU, St.Petersburg Univ., Russia
- Prof. V. Bojarevics, University of Greenwich, UK
- Prof. P. Bocher, ETS, Canada
- Prof. P. Di Barba, University of Pavia, Pavia, Italy
- Prof. V. Demidovich, ETU, St.Petersburg Univ., Russia
- Prof. Y. Fautrelle, INP Grenoble/CNRS, France
- Dr.Ing. G. Gerbeth, Helmholtz Zentrum Rossendorf, DE
- Prof. C. Leonelli, Univ. of Modena-Reggio Emilia, Italy
- Prof. Ó. Lucía, University of Zaragoza, Spain
- Prof. A. Jakovics, University of Riga, Latvia
- Prof. J. Monzò Cabrera, Univ. Politec. Cartagena, Spain
- Prof. B. Nacke, Hannover University, Germany
- Prof. V. Nemkov, Center for Induction Technology, USA
- Dr.Ing. B. Paya, EDF, Centre des Renardières, France
- Prof. Yu. Pleshivtseva, Samara State Tech. Univ., Russia
- Prof. A. Thess, DLR, Germany
- Prof. K. Van Reusel, Katholieke Univ. Leuven, Belgium
- Prof. E. Wang, Northeastern University, China
- Prof. F. Dughiero, Chairman, Padua, Italy
- Dr.Ing. M. Forzan, Scientific Secretariat, Padua, Italy
- Prof. S. Lupi, Honorary Chairman, Padua, Italy

Deadlines

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| - Submission of abstracts | Sept. 30, 2015 |
| - Notification of acceptance | Nov. 15, 2016 |
| - Paper submission | Jan. 15, 2016 |
| - Early-Registration payment and Final programme | March 31, 2016 |

Time and location

The Conference will be held in Padua on May 24-27, 2016. 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, Bergamo, Bologna, Verona and Rome. Hotel accommodation will be organized in Padua; hotels will be suggested on the web site.

Language

The official language of the symposium will be English.

Submission of Papers

Researchers and engineers interested to contribute are requested to submit one-page abstract written in English, including preliminary results. 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 2,5 cm, left and right margins of 3 cm (A4 format).

Abstracts should be sent via e-mail (both in .doc and .pdf format) to:

hes16@dii.unipd.it

Papers accepted for presentation at the Conference and submitted in due time will be printed in the Conference Proceedings Book (ISSN 2385-2933). Paper will be published in the conference proceedings subject to the early-registration fee payment. Selected papers (up to 40) will be published in a special issue of international indexed ISI and SCOPUS journals: IJAEM and COMPEL.

Participation Fee

Early-registration and binding registration fee for authors, covering the conference material, coffee breaks, lunches, Conference Proceedings Books and social activities will be of EURO 590,00 (485,00 + 22% VAT) until March 31, 2016. Regular rate registration fee after March 31 will be of EURO 690,00 (565,00 + 22% VAT). A registration fee covers until 2 papers. An additional accepted paper will be printed subject to an extra-fee of EURO 120,00.

For Ph-D students (a certificate is required) a special fee, that covers only one paper, will be of EURO 440,00 (360,00 + 22% VAT) until March 31, 2016 and will be of EURO 490,00 (400,00 + 22% VAT) after March 31.

Exhibition area

A table-top display exhibition area will be available on request for Manufacturers and Research Institutions for presentation of latest developments and products. For further information and fee you could contact directly the secretariat.

Further information

More information will be available (from September, 2015) at the following URL address:

<http://hes16.dii.unipd.it>

or the Conference Secretariat:

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