

## STRUCTURE OF THE CONFERENCE

The EHE 2014 Conference will run according to the following structure:

- Invited Oral Plenary Sessions.
- Oral Sessions.
- Poster Sessions, posted on stands in one room for all the participants.

## COMMUNICATIONS

Prospective authors are invited to submit previously unpublished papers relevant to the conference topics.

Papers will be accepted upon a maximum of 2 pages A4 size double column digests in Adobe Acrobat (.pdf) or MSWord (.doc). These digests are not simple abstracts or proposals of intention but should include all the information for an adequate evaluation by the Scientific Committee.

The digests shall be produced according to the instructions for the complete version of the communication and the submission done only via internet. The digests will be reviewed by the International Scientific Committee that will select them according to originality and scientific/technical content. The accepted digests will be included in the EHE 2014 Proceedings. Authors of accepted digests will be asked to submit a full version (up to 6 pages) of the papers for inclusion in the Conference proceeding CD-Rom.

The complete communications are accepted on the basis of the accepted digests and will be presented either in oral or poster format. An award will be delivered to the three best Posters.

Oral Sessions will be oriented for presentation of a more general type work, whereas Poster Sessions will be oriented for a more specific audience. These latter will allow the presentation of research work, projects executed or under development. There will be no difference between the papers presented in either oral or poster sessions, regarding publication submission done via internet only.

## PUBLICATIONS

There will be a Special Issue on COMPEL Journal which will have a title: "Special Issue on Electromagnetic Fields, Health and Environment", and will be Issue 3, Vol. 34, of COMPEL in 2015, and another Special Issue on PIE Journal (Progress in Industrial Ecology) for original papers presented at this Conference.

## IMPORTANT DATES

<b>15 Nov.</b>	<b>2013</b>	Digest Submission due
<b>01 Dec.</b>	<b>2013</b>	Acceptance notification
<b>31 Dec.</b>	<b>2013</b>	Reduced Registration Fee due
<b>31 Jan.</b>	<b>2014</b>	Registration Final Paper Submission, Payment
<b>24-26 Apr.</b>	<b>2014</b>	Conference Days

## SOCIAL EVENTS

- Civic Reception: 24th April
- Gala Dinner: 25th April

## REGISTRATION AND FEES (in Euros only)

Type of Registration	Up to 31/12/2013	After 01/01/2014
- Authors (1 paper)/Members	430€	500€
- Each additional page (up to +2)	20€	25€
Additional Communication	120€	140€
- Students (MSc, PhD)	300€	400€
- Participants	460€	520€
- Accompanying Persons	210€	250€

The payment is to be done via Bank Transfer (Please add extra 10€ for Bank charges).

The fees for authors and participants covers full attendance to all the Conference Sessions, the Lunches, Coffee Breaks, Civic Reception, Gala Dinner and Documentation.

The registration fee for Accompanying Persons includes Lunches, Civic Reception and Gala Dinner.

Cancellation of the registration is accepted if informed by e-mail or by fax until 14th March 2014. It will be reimbursed 90% of the amount received, and the other 10% will be kept to cover handling and administration costs. The reimbursement will be done after the Conference.

After 14th March 2014, cancellation requests will not be accepted and reimbursements are not allowed, although the documentation will be mailed to the participants that made the payment of registration fees.

## CORRESPONDENCE AND INFORMATIONS

For information please contact

### EHE 2014 Conference Secretariat:

**A.P.D.E.E.** - Associação Portuguesa para a Promoção e Desenvolvimento da Engenharia Electrotécnica

Rua Eládio Alvarez, 3030-281 Coimbra, Portugal  
Telf. 239-701869 Fax. 239-701543

**Website:** [www.apdee.org/conferences/ehe2014](http://www.apdee.org/conferences/ehe2014)

**Facebook:** [www.facebook.com/pages/APDEE/165047723554339?fref=ts](https://www.facebook.com/pages/APDEE/165047723554339?fref=ts)

**E-mail:** [ehe2014-secretariado@apdee.org](mailto:ehe2014-secretariado@apdee.org)

## 5th International Conference on Electromagnetic Fields, Health and Environment

# EHE 2014

24th - 26th April 2014

## Porto - PORTUGAL



Organized by:

A.P.D.E.E. - Associação Portuguesa para a Promoção e Desenvolvimento da Engenharia Electrotécnica

## OBJECTIVES

The levels of the electromagnetic fields (EMF) in the environment as a consequence of our modern life and way of living are increasing everyday and so the Public exposure to EMF due to different sources is also increasing. There is an increasing public concern and awareness of the potential health effects due to these artificial fields.

The objective of this International Conference is to establish and consolidate a preferred forum where a multi-discipline audience with various backgrounds, as researchers, physicians, engineers, ecologists, consultants, decision and opinion makers, public authorities, meet together to present and discuss the new developments and their significance to the human health and increase the awareness of the public in this strategic area for the modern world.

The main targets of this Conference are thus, to review, present and discuss the recent innovations in the EMF Modelling, Measurement and Simulation; to analyse the Bioeffects of EMF; to discuss and analyse Environmental Safety and Policy issues as well as International Standards; to provide a forum for exchange of experiences and discussion of results promoting joint international cooperation between R&D groups.

This Conference is now in its 5th edition after successful previous Conferences held in Funchal-Portugal (2006), Wrocław-Poland (2007), S.Paulo-Brazil (2009), Coimbra-Portugal (2011), and now in Porto-Portugal in 2014.

## VENUE

Porto is one of the most ancient cities of Europe, with an unequalled landscape, combining harmony with the urban structure and presenting a frame of rare beauty. The historic center of the city was classified as World Heritage by UNESCO in 1996.

The "Ribeira", is delightful, with narrow streets, typical and picturesque houses recently restored, and excellent bars and restaurants with typical food. Porto is known too for the excellent and world renowned wine (Porto wine), the bridges, and for many and varied monuments like the Clerics Tower, Santa Clara Church, São Francisco Church. Porto has too a number of outstanding buildings like the Stock Exchange, São João Theatre, the São Bento railway station considered one of 16 most beautiful railway stations in the world. Recently, the Lonely Planet, a world leader in tourist guides, put Porto's city in 4th place in a group of 10 destinations.

## CONFERENCE LANGUAGE

The Conference official language is English, and this will be the only accepted working language which will be used for all printed material, presentations and discussions.

## ORGANIZATION

The Organization of the EHE 2014 is the responsibility of:

**A.P.D.E.E. - Associação Portuguesa para a Promoção e Desenvolvimento da Engenharia Electrotécnica**

### Chairman:

**Carlos Lemos Antunes**, Prof. Dr., University of Coimbra, FCTUC, President of APDEE, Portugal

## COMMITTEES

### International Scientific Committee

Lemos Antunes, C. (Portugal) (Chair)	Mild, K. (Sweden)
Almeida, P. (Portugal)	Mohammed, O. (USA)
Berberović, S. (Croatia)	Muhlen, S. (Brazil)
Botelho, F. (Portugal)	Naarala, J. (Finland)
Calheiros, J. (Portugal)	Ohkubo, C. (Japan)
Caseiro Alves, F. (Portugal)	Pereira Miguel, J. (Portugal)
Cieslar, G. (Poland)	Pioli, C. (Italy)
Costa, Nascimento (Portugal)	Ravazzani, P. (Italy)
Fátima Reis, M. (Portugal)	Rodrigues, A. (Portugal)
Gajsek, P. (Slovenia)	Rongen, E. V. (Holland)
Gandhi, O. (USA)	Rossi, P. (Italy)
Hameyer, K. (Germany)	Rowley, J. (UK)
Hietanen, M. (Finland)	Santos-Rosa, M. (Portugal)
Ishihara, Y. (Japan)	Sartori, C. (Brazil)
Keshvari, J. (Finland)	Siéron, A. (Poland)
Kost, A. (Germany)	Skorek, A. (Canada)
Krawczyk, A. (Poland) (Vice-Chair)	Song, K. D. (USA)
Lagorio, S. (Italy)	Sykúlski, J. (UK)
Lagroye, I. (France)	Trlep, M. (Slovenia)
Leszczynski, D. (Finland)	Ubeda, A. (Spain)
Malo Machado, V. (Portugal)	Vaz, P. (Portugal)
McCaig, C. (UK)	Vecchia, P. (Italy)
Micu, D. (Romania)	Wood, A. (Australia)

## THEMATIC AREAS

The Conference covers a wide spectrum of topics in three thematic areas like, Electromagnetic Fields Modelling, Measurement and Simulation, Bioeffects of Electromagnetic Fields, Electromagnetic Fields, Environment and Policies. These three areas include among other, but not limited to, the following topics:

### AREA 1: Electromagnetic Fields Modelling, Measurement & Simulation

- Computational Electromagnetics, Electromagnetic Compatibility (EMC).
- Computation of EMFs in the Living Organism.
- ELF EMF produced by High Voltage AC Power Cables.
- EMFs in Radio and Wireless Communications (Mobile Phones).
- EMFs Produced by Microwave Devices.
- EMFs Produced by MRI Devices.
- EMFs at Home and Workplaces.
- EMFs Interaction with Biological Systems.
- EMC Teaching, Mitigation Techniques.
- Electromagnetic Interference with Medical Devices.
- Instrumentation, Measurement Techniques.
- Radiation, Dosimetry Measurements and Instrumentation.

### AREA 2: Bioeffects of EMFs & Health Implication

- Electromagnetic Fields at Workplaces.
- Epidemiologic Studies (RF and ELF).
- EMF and Immunology.
- Biomedical Application of EMFs.
- EMF Therapy and Clinic Applications.
- Endogenous Electric and Magnetic Fields.
- Biological Laboratory Studies (In vivo/in vitro).
- Health Impacts of MRI Devices.
- Health Impact of Mobile Phone/Base Stations.
- Health Impact of Overhead High Voltage Power Lines.
- Health Impact of Lasers, UV.
- Exposure and Cancer.
- Behavior Sensitivity to EMFs.
- Pathophysiological and Biochemical Aspects of EMFs.
- Effects of EMFs on the Central Nervous System.
- Cardiovascular and Thermophysiological Effects of EMFs.
- Ultraviolet Exposure and Cancer Risk.
- UV Sunbeds and Legislation.
- Electromagnetic Hypersensitivity (Scientific Evidence, Treatment).

### AREA 3: EMFs, Risk Assessment & Policies

- Development of EMF Safety Standards & Directives.
- Public Concerns of Health Risks from Exposure to EMFs.
- Environmental Safety and Policy.
- Risk Communication.
- International Standards Harmonization.
- Occupational/Residential Exposure and Risk.
- Research Projects and International Cooperation.

