

CALL FOR PAPERS

2nd International Conference on EMF-ELF PARIS, MARCH 24th & 25th, 2011

DEADLINE

Submission of abstracts: **15 July, 2010**

Submission of texts: 15 January, 2011





EMF-ELF-2011

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2nd International Conference on Extremely Low Frequency Electric and Magnetic Fields

PARIS, FRANCE 24 - 25 MARCH, 2011

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Submission of texts: 15 January, 2011

Organised by:

- CIGRE French National Committee
- S.E.E. Société de l'Électricité, de l'Électronique et des TIC

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Objectives:

What is EMF-ELF-2011?

EMF-ELF'11 is intended to be an international forum for the exchange of information in the fields of research, measurement, computation and modelling, mitigation relating to electric and magnetic fields coming from AC or DC overhead lines, AC or DC underground cables or submarine cables, AC or DC substations and converting stations.

Why is EMF-ELF-2011 important?

Despite the publication of hundreds of studies over the last 3 decades, EMF effects continue to be a controversial issue. It involves a number of different and connected aspects related to technology, medicine, biology, and also economy, sociology, psychology, communication, and ethics. Besides the crucial dilemma of whether extremely low frequency electric and magnetic fields are really a health risk other questions were raised such as: Why is the public perception so different from the evaluation of scientists? How can knowledge and information including exposure standards rationale be improved? What can we do to reduce exposure? To what extent are precaution measures justified?

EMF-ELF-2011 will allow in-depth analysis of the state-of-the-art : solutions are needed to disseminate scientific information, to improve technical measures to reduce exposure when necessary, to implement in practice the exposure standards (including the recent European Directive), and to establish an effective dialogue between all stakeholders.

Who will be taking part in EMF-ELF-2011?

As in the past EMF-ELF conference held in 2009, *EMF-ELF-2011* should prove very useful to health professionals, researchers, engineers, decision-makers, utilities, manufacturers, installers and users.

The following topics will be discussed:

1. AC and DC Electric and Magnetic fields and induced currents generated by overhead lines, underground cables, submarine cables, substations and DC converters

- The characterization, the calculation and the measurement of ELF/EMF for AC and DC installations
- Induced currents and contact currents : characterization, calculations, measurement, steady state versus transients
- Regular ion, corona, interference from harmonics, ground currents form dc systems, sea electrodes, ions concentrations and current densities under DC lines ...
- Impact of influencing parameters, ...

2. Mitigation techniques for EMF & contact (induced) currents

- AC, DC cables
- AC, DC Overhead lines
- Substations
- Live work

3. Biological effects of AC and DC installations

- Occupational and public exposure to electric and magnetic fields and related contact currents
- Exposure assessment : computer modelling/calculation of internally induced current densities and fields
- Innovative methods for calculating exposition for epidemiologic studies
- Results of Medical Studies : DC fields ; AC fields; Air ions
- Medical implants and exposure to EMF-ELF
- Effects on animals (grazing stock...)

4. Evolution of international Standards, guidelines and requirements

- Standards and experience with their application in practice
- Guidelines and experience with their application in practice
- Impact of the European Directive on work in substations and on OHL, including live work
- Management of Professional exposition taking into account the new Standards and Directive
- Are precautionary measures justified?
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5. Risk, knowledge and information management

- Public information
- Media information
- Public authorities information
- Law officers information
- Innovative solutions for information : EMF meters,...
- Risk management and communication
- Experimental farms
- ...

Nota : As electric and magnetic fields have already been covered in SARAJEVO, mainly innovative reports will be selected for this colloquium.

Official Languages:

The official languages at *EMF-ELF-2011* will be **French** and **English**. Simultaneous translation will be provided in both languages.

Abstracts:

*All abstracts for proposed papers should be sent to papers@emf-elf.org in **English**, by email (as an attachment in .doc format (97 or 2003) as well as in paper form by the deadline **15 July, 2010**.*

*The abstract should be adequately detailed and present a synopsis of the paper (in 500 words maximum, one single page as far as possible) **emphasising any new ideas**, with title, author's names, their affiliations and emails.*

It is recommended to use the template available on the site www.emf-elf.org

A booklet containing all the abstracts of papers accepted for presentation will be issued to all conference delegates registered in advance.



Full Papers:

Authors whose papers have been accepted will be informed by 15 October, 2010.

Full texts in **English** should reach papers@emf-elf.org by **15 January, 2011.**

The conference programme will be finalized by 30th October, 2010.

Proceedings : The papers will be published. A CD will be handed to all registered participants. A report on the colloquium will be drafted by the technical Committee. It will be published in Electra and on the CIGRE SC websites.

Registration:

Registration fees will be specified at a later date. These will include attendance to the conference and a copy of the abstracts and proceedings.

Please note that authors of papers to be presented are not exempt from registration fees.

Administration:

EMF-ELF-2011 Secretariat

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17 rue Hamelin

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FRANCE

Conference Venue:

EMF-ELF-2011 will be held in PARIS

SEE YOU IN PARIS !



You are requested to complete and return this form as soon as possible to the following address :

EMF-ELF-2011 - SEE – 17 rue Hamelin – 75783 PARIS CEDEX 16 - FRANCE

Tel + 33(0)1 56 90 37 02 - Fax : + 33(0)1 56 90 37 08

Email : infos@emf-elf.org

I am interested in attending the EMF-ELF-2011 Conference

- Please send me further information : YES NO
- I wish to present a paper : YES NO

on the following topic No :

.....

Provisional title :

.....

Family name : First name :

Address (Company/Organization) :

No : Street :

.....

Postal code & city :

Country : Tel.:

Fax : E-mail: