



*INTERNATIONAL COLLOQUIUM*  
Sarajevo, Bosnia and Herzegovina June 03-04, 2009

## **CALL FOR PAPERS**

**B&H CIGRE National Committee, with CIGRE SCs, B2 -Overhead Lines-, B1 -Insulated Cables-, B3 -Substations-, B4 -HVDC and Power Electronics-, C3 -System Environmental Performance- and C4 -System Technical Performance- are organizing an International Colloquium on**

**“Power Frequency Electromagnetic Fields – ELF / EMF”**

### **SARAJEVO**

The Colloquium will take place in Sarajevo, capital of Bosnia and Herzegovina State. Sarajevo is also the Olympic City where the Winter Olympic Games were held in 1984



### **OBJECTIVES**

The objectives of the Colloquium are:

- To address the technical aspects related to the characterization, the calculation and the measurement of ELF/EMF, as well for AC as for DC installations
- To address the biological effects
- To inform on the international Standards and requirements
- To share experience and practices

### **PROGRAMME**

The Symposium will be held over 2 days, with a combination of workshops and paper presentations. A technical/tourist visit is planned the day after the event.

- Workshops conducted by leading experts of CIGRE
- Keynotes lectures
- Individual presentations of papers, invited or selected by the Technical Committee and general discussion
- Closing Panel

The final programme will be drawn up after reception selection of the papers.

### **CONTACTS**

For any information please contact:

**Mrs Jasmina Jakic**  
Secretary General BH K CIGRE  
[cigre@bhkcigre.ba](mailto:cigre@bhkcigre.ba)

**Mr Bernard Dalle**  
Chairman of SC B2 - Overhead Lines  
[Bernard.dalle@rte-france.com](mailto:Bernard.dalle@rte-france.com)

### **PARTICIPANTS**

The Symposium is directed toward electric transmission and Distribution system operators, generators, manufacturers, design engineers, universities and regulators.

## MAIN TOPICS

The main topics include:

### 1. AC Electric and Magnetic fields

- Characteristics of Electric and magnetic fields
- EMF calculations - 2D and 3D
- Mitigation techniques: OHL, cables, substations
- Measurements - Best practices

### 2. DC Electric and Magnetic fields

- EMF generated by DC lines, stations- up to 800kV
- Corona and Ions production
- Harmonics

### 3. Biological Effects of EMF – International standards

- Results of Medical Studies
- Evaluation of human exposition: calculation of current density, and internal field induced
- Standards and Guidelines
- Impact of European Directive on work on substations, OHL; on live work
- Medical implants and exposure to ELF-EMF

## SUBMISSION OF PAPERS

Participants wishing to present written contributions are invited to submit their abstract (500 words) before **30<sup>th</sup> November 2008**, to:

[cigre@bhkcigre.ba](mailto:cigre@bhkcigre.ba)

Each abstract must indicate the topic(s) that will be addressed (see above). The name, title, (company affiliation), e-mail of the author(s) should also be given. The Technical Committee will communicate its agreement or comments to the authors by 31<sup>st</sup> December 2008.

## TECHNICAL COMMITTEE

### Organising and Selection Committee

M. Veledar	SC C4 (B&H)	Chairman
B. Dalle	SC B2 (France)	Co-Chairman
J. Hoeffelman	SC C4 (Belgium)	Co-Chairman
B. Andersen	SC B4 (United Kingdom)	
F. Rüter	SC B1 (Sweden)	
A. Wiersma	SC B3 (The Netherlands)	
A. Negri	SC C3 (Italy)	
E. Salinas	(United Kingdom)	
J. Voršič	(Slovenia)	
A. Sekso	SC C4 (Croatia)	
P. Vukelja	(Serbia)	
O. Marković	(B&H)	
S. Čaršimamović	(B&H)	
S. Nuić	(Croatia)	
P. Osmokrović	(Serbia)	
P. Cruz Romero	(Spain)	

## DEADLINES

Authors are kindly requested to take note of the following deadlines:

Receipt of abstracts:	<b>30<sup>th</sup> November 2008</b>
Notification of acceptance:	<b>31<sup>st</sup> December 2008</b>
Receipt of full papers:	<b>15<sup>th</sup> March 2009</b>

## PUBLICATION OF PAPERS

The papers will be published a CD to 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.

## LANGUAGE

The papers must be written in English.

## REGISTRATIONS

Registration forms and the detailed program of the Symposium will be sent out by February 2009.

Further information on the Colloquium can be found on [www.cigre.org](http://www.cigre.org) and [www.bhkcigre.ba](http://www.bhkcigre.ba)