



## Call for papers

### INTERNATIONAL COLLOQUIUM

Sarajevo, Bosnia and Herzegovina

May 13–16 2012

Hotel Europe, Sarajevo

BiH CIGRÉ National Committee, with CIGRÉ SC C4–System Technical Performance  
are organizing an International Colloquium on

# *Power Quality and Lightning*



## 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.

## BACKGROUND AND SCOPE

CIGRÉ Study Committee C4 on System Technical Performance is pleased to announce a colloquium on "Power Quality and Lightning" that will be held in Sarajevo in May 2012. This event is organized by the Bosnia and Herzegovina National Committee of CIGRÉ (BH K CIGRÉ). The three day event will include two days of report/paper presentation and a technical visit.

Lightning has a major impact on the quality of electricity supply as it is the main cause of faults leading to voltage dips.

Customers are expecting a continuous supply of electricity and a near perfect voltage waveform at their premises be them residential, commercial or industrial. Therefore, it is important that engineers dealing with lightning protection exchange information, and share their knowledge and experience with those in power quality area and vice versa. This would facilitate expansion of their knowledge and would help to identify cost-effective solutions enabling to minimize the impact of lightning on power quality.

It is our firm belief that this colloquium is a step forward in bringing together experts in both these areas and will benefit the electricity power industry in general.

## CONTACTS

For any information please contact:

**Mrs. Jasmina Jakić**

Secretary General BH K CIGRÉ  
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## MAIN TOPICS

### The main topics include

1. Measurement of the regional lightning activity
  - lightning location systems (LLS) technology;
  - lightning attachment;
  - use of LLS for the improvement of power quality;
  - lightning imaging sensor (LIS) technology;
  - lightning density maps obtained either through LLS and LIS.
  - correlation between lightning impacts and power quality (long and short outages);
  - influence of regional lightning activity on the reliability and aging of MV and LV apparatus.
2. PQ monitoring systems and lightning
  - what prompts the utilities to install PQ monitoring systems;
  - choice of the location where to install them;
  - analysis of the results provided by PQ monitors and consequent actions;
  - are the results looked at in a coordinated fashion?
  - PQ monitoring systems in conjunction with lightning location systems.
3. Simulation tools, methods, and modelling
  - PQ and lightning simulation tools and methods;
  - data storage and exploitation;
  - surge transfer through transformers;
  - modelling of electro-technical components.
4. Transmission line lightning performance
  - lightning performance evaluation;
  - techniques to reduce the flashover rate of OHL;
  - grounding of towers;
  - use of line arresters;
  - investigation of the possibility of lightning strokes to initiate evolving faults.
5. Transmission and distribution system lightning performance and protection
  - induced lightning;
  - lightning electromagnetic field calculation;
  - protection of transmission and distribution apparatuses against lightning overvoltages.

## SUBMISSION OF PAPERS

Participants wishing to present written contributions are invited to submit their abstract (500 words) before **30<sup>th</sup> November 2011**, to

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

Each abstract submission must indicate the topic(s) that will address along with the name, title, affiliation and e-mail of the author(s).

Decision on submissions with appropriate comments to the authors will be communicated by The Technical Committee by **31<sup>st</sup> December 2011**.

## TECHNICAL COMMITTEE

### Colloquium Chairman

Rusmir Mahmutćehajić (Bosnia and Herzegovina)

Alain Xemard (Chairman)	France
Zia Emin (Co-chairman)	UK
Branko Antunović	Bosnia and Herzegovina
Maks Babuder	Slovenia
Philippe Carer	France
Delmo de Macedo Correia	Brazil
Salih Čaršimamović	Bosnia and Herzegovina
Masaru Ishii	Japan
Emmanuel de Jaeger	Belgium
Miroslav Mesić	Croatia
Carlo Alberto Nucci	Italy
Stephan Pack	Austria
Sarath Perera	Australia
Farhad Rachidi	Switzerland
Bernhard Richter	Switzerland
Salih Sadović	France
Milan Savić	Serbia
Takatoshi Shindo	Japan
Sreten Škuletić	Montenegro
Ivo Uglešić	Croatia
Meludin Veledar	Bosnia and Herzegovina

## DEADLINES

Authors are kindly requested to take note of the following cut-off dates:

Receipt of abstracts: **30<sup>th</sup> November 2011**

Notification of acceptance: **31<sup>st</sup> December 2011**

Receipt of full papers: **15<sup>th</sup> March 2012**

## PUBLICATION OF PAPERS

The papers will be published on a CD-ROM and will be handed to all registered participants. A Report on the Colloquium will also be drafted by the Technical Committee to be published in ELECTRA and on the CIGRÉ SC websites.

## LANGUAGE

The language of the colloquium will be English and papers must be written in English

## REGISTRATION

Registration forms for the colloquium and accommodation along with a detailed program will be available by February 2012. Further information on the Colloquium can be found on

[www.cigre.org](http://www.cigre.org)

and

[www.bhkcigre.ba](http://www.bhkcigre.ba)