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## Provisional General Program

Date/Time	Activity
<b>Monday September 18 2017</b> 8:00 am - 9:00 am 9:00 am - 5:00 pm 8:00 pm - 11:00 pm	Registration Opening and Colloquium Dinner
<b>Tuesday September 19 2017</b> 9:00 am - 5:00 pm	Colloquium
<b>Wednesday September 20 2017</b> 9:00 am - 5:00 pm	Tutorials Company presentations WG meetings

## Dates, Venue & Accommodation

**Dates:** September 18 - 20, 2017  
**Venue:** University of Ljubljana, Faculty of electrical engineering, Ljubljana, Slovenia  
**Address:** Tržaška cesta 25 – 1000 Ljubljana, Slovenia

## Participation Fees

Participation	Fee* (Euros)
Attending Colloquium	380 (VAT included)

\*Note: The fee is to cover costs of colloquium venue, refreshments, lunches and a dinner for the event. It does not include the Tutorials attendance (100 Euro VAT included).  
For Student special fee please contact  
Miha Bečan [miha.becan@eimv.si](mailto:miha.becan@eimv.si)

## Contacts

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CONSEIL INTERNATIONAL DES GRANDS RÉSEAUX  
ÉLECTRIQUES (INTERNATIONAL COUNCIL ON  
LARGE ELECTRIC SYSTEMS)

**CIGRE Study Committee C4 on  
System Technical Performance**

**Presents**

## International Colloquium on Lightning and Power Systems



**September 18 - 20, 2017**  
**Faculty of Electrical Engineering- Ljubljana,**  
**Slovenia**

[http://www.cigre-cired.si/international\\_colloquium\\_on\\_lightning\\_and\\_power\\_systems\\_2017/](http://www.cigre-cired.si/international_colloquium_on_lightning_and_power_systems_2017/)

## CALL FOR PAPERS

**Organized by**  
**The Slovenian Association of Electric Power  
Engineers CIGRE & CIRED**

## Background and Scope

CIGRE Study Committee C4 on System Technical Performance is pleased to announce the organization of an international Colloquium on 'Lightning and Power Systems' in Ljubljana, Slovenia. The Colloquium is organized by The Slovenian Association of Electric Power Engineers CIGRE & CIRED with cooperation between University of Ljubljana, Faculty of electrical engineering and Electric Power Research Institute Milan Vidmar (EIMV). The three-day event will include two days of report/paper presentation followed by a Tutorial session.

The Colloquium will take place at the Faculty of electrical engineering of the Ljubljana University located in close vicinity of Ljubljana city centre.

Ljubljana, the capital city originates as the Roman town of Emona, and legacies of the Roman presence can be seen throughout the city with many of the pale-colored churches and mansions that earned the city the nickname 'White Ljubljana'.

Ljubljana has an international airport with several daily connections to main European airports and can easily be reached from other countries.

The Colloquium Lightning and Power Systems became a traditional one and is aiming at bring together CIGRE experts from all parts of the world having the opportunity to facilitate exchange of knowledge, experience and information towards further understanding phenomena associated with lightning and implementation of protective measures against its impact on electric power systems.

Engineering fraternities such as the CIGRE Study Committee C4 has an important role to play in promoting the research and expanding the knowledge on lightning and in identifying cost-effective solutions to minimize the impacts of lightning on power systems and thus the customers. This assignment appears to gain much more importance after the power system restructuring by introduction of mostly dispersed renewable sources, leading to its increasing vulnerability. We firmly believe that this colloquium will provide benefits to the

electric power industry and therefore would like to encourage participants to share their knowledge and experience in lightning and lightning protection related to electric power systems.

## Main Topics

The concept of the Colloquium is to create a meeting place of knowledge exchange for engineers involved in the fundamental study of lightning phenomena and protection application against its effects. In this session we plan to focus more specifically on:

- 1) Principles of lightning location, limitations and performance of existing systems;
- 2) Exploitation of data provided by lightning location systems (LLS), reporting and/or survey on authentic experiences, including correlation with otherwise obtained data;
- 3) Direct measurement of lightning currents using instrumented tall structures;
- 4) State-of-the art of LL methods and systems related to its applicability in case of power system emergency and restoration;
- 5) Numerical simulations in lightning related studies, including lightning shielding, induced lightning and overvoltage protection;
- 6) Protection from lightning impact on power plants' secondary I&C systems and on plants' auxiliary electrical systems;
- 7) Improvement of lightning protection of overhead lines, substation equipment, underground and submarine cables and other lightning impact related transient phenomena;
- 8) Electrical grounding including towers of transmission and distribution systems;

- 9) PQ monitoring and lightning including measures aimed at PQ improving;
- 10) Lightning protection elements, arrester application, monitoring and field experience including multi-impulse stresses.

Other topics related to lightning and protection systems against lightning will also be welcome.

The colloquium will start with keynote lectures providing the audience with latest views on basics of lightning and enabling the participants to fully understand the subjects which are to be presented.

## Submission of Abstract

Participants who intend to provide written contributions are invited to submit their abstract in English (at least 400 words) before January 15, 2017 by using the following web site:

[http://www.cigre-cired.si/international\\_colloquium\\_on\\_lightning\\_and\\_power\\_systems\\_2017/](http://www.cigre-cired.si/international_colloquium_on_lightning_and_power_systems_2017/)

Each abstract must indicate the topic that will be addressed (1 to 10 above or others related to lightning and protection systems against lightning), the paper title, company affiliation, e-mail and full address of the main author.

## Important Dates

**February 1<sup>st</sup>, 2017:** Deadline for abstract submission. Authors will be notified of acceptance before February 15, 2017.

**April 15, 2017:** Deadline for full paper submission.

**May 15, 2017:** Authors notified of paper acceptance and any modifications required.

**June 1<sup>st</sup>, 2017:** Final manuscript submission.

**September 18-20, 2017:** Colloquium – University of Ljubljana, Faculty of electrical engineering, Slovenia.