



**INFORMATION SYSTEMS AND TELECOMMUNICATION**

**THE STUDY COMMITTEE D2 OF CIGRÉ (SC D2) AND ITS ANNUAL MEETING IN BUENOS AIRES**

Study Committee D2 of Cigré is in charge of monitoring emerging technologies and current practices in the fields of information systems and telecommunication for the Electric Power Industry (EPI), evaluating their possible impact on present and future needs of all players in the EPI.

In a broad sense, it deals with the principles, requirements, design, engineering, performance, operation and maintenance of IT and telecom systems such as:

- Telecommunication and information systems for voice, data, video services.
- Specialized solutions for teleprotection, SCADA, EMS and DMS systems.
- Information systems and networks for operational and business needs.
- Requirements and aspects of energy flow-control, security, economy, transparency, quality and regulation.

The SC D2 will hold its annual meeting in Buenos Aires, hosted by the Argentinean National Committee.

Besides the SC and Working Group meetings, an International Colloquium will be held in parallel, which will be open to the general public and will deal with subject of interest for the field of the SC. It will also be complemented with a Tutorial about issues of special interest in the region of the host country.

**OBJECTIVE OF THE COLOQUIUM**

To provide an international forum to share information between electric utilities, manufacturers, universities, standardizing bodies and authorities in selected topics in the field of information technology and telecommunications.

**COLOQUIUM PROGRAMME**

**Wednesday 19, 9-18 h and Thursday 20, 9-12 h**

The Colloquium is the biennial Technical Discussion Forum of the Study Committee for SC D2 members all over the world, associates and experts of the discipline from the host country. The Preferential Subjects that will be discussed are within the following scope:

**1. Communication Technologies and Solutions for core networks in Electric Power Utilities**

The technologies and solutions for core networks are evolving and the utilities are seeing an increasing number of new alternatives. Some of them will not result interesting for EPIs and some others are currently being incorporated gradually and will be widely used in the future. The papers for this preferential subject shall focus in the following areas:

- Applications
- Reliability and availability
- Experiences

**2. Access solutions to be implemented by Electric Power Utilities**

The increasing demand of new services, together with the evolution of the core networks, results in the implementation of access solutions that make use of a wide diversity of technologies, making network planners face new challenges. Specifically, the following areas can be mentioned:

- Substation and Protection access
- Wireless access
- Cyber-Security

**3. Information Systems to support data interchange between market participants**

Deregulated markets have proven to be strongly information demanding. The transactions, among players in this marketplace, require the interchange of a lot of real time information among information systems based on different technologies. The technologies to support these services, along with the challenges in the implementation, are to be discussed in this preferential subject, classified in:

- Requirements and architecture for data interchange applications
- Networking solutions for local and cross-border market participants

The Colloquium will be held on a two day session. The authors will present their technical papers, which will be published in advance, and will answer questions from the public and from the Special Reporters that have evaluated the papers.

**TUTORIAL – Thursday 20, 14 -18 h**

In the frame of the Colloquium a Tutorial will be carried on under the Title “Communications for Line Protection Relaying and System Integrity Protection Applications”, it will address the telecommunication requirements for the implementation of the IEC 61850 standard between substations to protect the HV lines and between substations and control systems.

The Tutorial includes the participation of international specialists that are currently leading working bodies of Cigré.

**REGISTRATION FOR THE COLOQUIUM AND TUTORIAL**

Due to organization issues and having in consideration that the vacancies are limited, the Registration in advance is mandatory before October 10th, sending First and Last Name, Company/Organization, Position, e-mail and phone number to [secretaria@cigreac.org.ar](mailto:secretaria@cigreac.org.ar)

**REGISTRATION COSTS\***

**Cigré Associates:**

Argentinean Residents: \$ 1200 – Non- residents: 300 USD

**Others:**

Argentinean Residents: \$ 1600 – Non- residents: 400 USD

- Indicated values include Colloquium and Tutorial.

**PAYMENT METHOD FOR NON RESIDENTS**

Cash in the registration desk of the event.

Groups (more than two persons): Please contact Cigré Argentina.

**PAYMENT METHOD FOR RESIDENTS**

Prior to the event in cash, check, transfer or bank deposit.

**Cigré Argentina - Secretary:**

For additional information on registration, please contact Argentinean Committee of Cigré:

**María Angélica Rudolf / Verónica Miralles**

E-mail: [secretaria@cigreac.org.ar](mailto:secretaria@cigreac.org.ar)

**Venue:**

**Hotel NH Crillón**

Avda. Santa Fe 796 - Buenos Aires, Argentina



October 19-20, 2011  
**CIGRE Colloquium & Tutorial Study Committee D2, Buenos Aires, Argentina**  
**Invitation**

**INFORMATION SYSTEMS AND TELECOMMUNICATION**

**COLLOQUIUM – APPROVED TECHNICAL PAPERS**

<b>COUNTRY</b>	<b>AUTHOR</b>	<b>TITLE</b>
Sweden	Anders Runesson	Nordbalt HVDC system with optical cable between Sweden and Lithuania
Argentina	Ariel Campos	Communication systems for extra long haul links on 500kV high voltage systems
Spain	Jaume Darné	Reliable and cost effective approach to long haul optical links
Argentina	Gabriela Gallo	Telecommunication systems over fiber optics – NOA-NEA
South africa	Cornelius Naidoo	Migrating from a TDM to a Next-generation Telecommunications Network in an Electrical Utility
France	Xavier Michaut	Optical infrastructure for security telecommunication network
Argentina	Carlos Di Palma	Optical Cables Management System for the 500kV Network
Japan	Hirofumi Onoda	Current Status of Migration of Electric Power Systems to IP Networks at Electric Power Companies in Japan
Brazil	Rodrigo Leal de Siquiera	Convergence Technological for Modernization of Telecommunications Network – Case CHESF
Spain	Juan Ramón Feijoo Martínez	Reliable operational telephony communications in a wide area high power grid
Slovenia	Matjaz Blokarič	Life-cycle Considerations Regarding the Scope of Telecommunication Inventory OSS in the EPU
Brazil	Alexander Pinhel Soares	Evaluation of the use of stationary lithium-ion batteries in Telecommunications in the Brazilian Electricity Sector
Thailand	Dr. Surat Tanterdtid	Enhancement of Switching Gear Maintenance using Unified Communication
Sweden	Anders Runesson	Telecommunications network for differential protection on long distance serial compensated power lines
Denmark	Henrik Riis	Communication Architecture for IP-based Substation Applications
Mexico	Francisco Javier González Guerra	Upgrade of Mexico City's downtown Distribution Network
Mexico	José Martín Gómez López	Communication technologies applied to smart metering and energy loss detection system
Mexico	J.García Hernández	An Analysis of Communications and Networking Technologies for the Smart Grid
Spain	Aitor Arzuaga	Enabling smart grid communications over MV lines
Japan	Kenji Shidou	Construction of Unified Access Infrastructure for In-house Business Systems in Teleworking and Mobile Environments
Uruguay	J. Costa	Information Security applied to the network access: a methodological approach
The Netherlands	Jens Tobias Zerbst	Graded approach to cyber security for EPUs: Clarifying the security levels and zones concepts
Italy	Giovanna Dondossola	Modelling of cyber attacks for assessing smart grid security
Switzerland	Frank Hohlbaum	Cyber Security requirements and related standards for Substation Automation Systems
Japan	Ryouta Ito	Privileged User Management System Development
Japan	Fuyuki Fujikawa	Approaches to Smart Grid Communications Networks at Electric Power Companies in Japan
Japan	Tarou Inaba	Undertaking to Realize Interconnection of Video Conference Systems between Various Companies
Mexico	Parra Isaac	Energy Management Information System – A data interchange application for partially deregulated energy market
The Netherlands	Marco Janssen	The Web2Energy project. Bringing IEC 61850 and the Smart Grid closer together
Japan	Yoshihiro Shiraishi	Development of Power Transmission Line Fault Information Network System
Spain	Daniel Gallego Sanz	Monitoring the quality of service in Metropolitan Area Networks



**TUTORIAL**

**“Communications for Line Protection Relaying and System Integrity Protection Applications”**

A Tutorial by Joint Working Group D2.B5-30

**Subjects to be developed:**

- **Introduction & Presentation of Participants**
- **Communication Service Requirements for Protection Applications CIGRE WGD2.26 and JWGD2.B5.30 (M. MESBAH - France)**
- **Impact of Communication System Impairments on Protections (J. ALVAREZ – Spain)**
- **IEC61850 – Packets in Protection Communications (H. SPIESS - Switzerland)**
- **TDM, Wavelength and Packet - Hybrid solutions for Protection Communications (J. DARNE - Spain)**
- **IEC 61850 - Coordinating Data Presentation from Substation to Control Centre (IEC 61850 /CIM) (T. LEFEBVRE - France)**
- **IEC61850 in Argentina and the Region (F. GONZALEZ – Argentina)**
- **Panel Discussion (Presenters + SC D2 Chairman + Argentinean Experts)**