AUSTRALIAN NATIONAL COMMITTEE of CIGRE LTD

NEWSLETTER

June 2009

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Date and Venue of ANC 2009 Meeting

This year's meeting will be held on Thursday 26 November in Fremantle, WA. This will be the 58th meeting of the Australian National Committee since its formal establishment in 1951. The meeting will include a partner's tour on Thursday 26 November and a technical tour for members and partners on Friday 27 November.

There will be an option for members to travel to the Margaret River area following the technical tour on Friday, returning to Fremantle on Sunday 28 November. Members will receive the program and registration form for the meeting in July 2009.

At the meeting a number of Directors and Australian Panel Conveners will be retiring after having completed their terms, in accordance with the constitution.

SC A1 (Rotating Electrical Machines) Meeting in Australia, 2009

ANC will be hosting the CIGRE Study Committee A1 Meeting and Colloquium over 20 -25 September 2009 in Sydney.
Study Committee A1 covers the field of Rotating Electrical Machines including power generation and large motors for power stations. It also covers the application of materials technology relevant to machines.

The Study Committee will hold a colloquium during the meeting that will be open to interested people from utilities, universities, suppliers and other industry participants. The topics being considered by the Study Committee for the colloquium include:
- Asset management (condition assessment; refurbishment; upgrading; uprating; remnant life assessment)
- Large (>100MW) air-cooled generators: (design; life expectancy; maintenance issues).
- Grid connection aspects and issues.
- New developments in generator and motor design (insulation; cooling; materials)

ANC members are invited to participate in the event, which will bring strong experience and knowledge to Australia from the international membership of this committee

ANC has arranged a technical tour and partners' tour for SC members and their companions.

The program for the meeting is:
Sunday 20 September – Welcome Reception.
Monday 21 September – Working and Advisory Group Meetings.
Tuesday 22 September – Technical Tour.
Wednesday 23 September – Colloquium, Meeting Dinner.
Thursday 24 September – Study Committee Meeting.
Friday 25 September – Study Committee Meeting (am).
Members will shortly receive more information on the meeting and colloquium.

CIGRE 2010 Session Update

The response for the Call for Papers resulted in a large number of paper synopses being received from ANC members. Synopses for 14 papers have been forwarded to CIGRE for selection for the Session. The authors came from utilities, manufacturers, assets owners, universities and consultants.

The Session will be held in Paris, France, from 22 to 27 August 2010.

CIGRE Technical Committee Presentation

CIGRE's Technical Committee recently met in New Zealand, and Transpower NZ took the opportunity to invite the Technical Committee members to its headquarters and participate in a forum for Transpower personnel and invitees.

The Chairman of the Technical Committee, Dr Klaus Fröhlich opened the forum with a brief overview of CIGRE's key activities which were the biennial Session, in Paris, worldwide Symposiums, Colloquiums and Tutorials. At the present time there were over 200 working groups active whose outcomes would be Technical brochures, WG reports and reports in Electra.

He went on to describe the main challenges faced by the industry worldwide, which fell under the main headings of:

- Environmental Pressure;
- Changing Customer demands
- Regulation, Legislation and Targets;
- Maintaining & Expanding Electrical Power Systems;
- New and Developing Technologies.

These challenges framed the Technical Committees main strategic directions of:

- Future networks;
- Focus on environment & sustainability;
- Making the best use of existing systems.

In addition the goal was to now cover all voltage levels (transmission through to distribution as far as it concerns system aspects), and the availability of electricity for everyone.

The Technical Committee had also reviewed and enhanced its procedures covering interdisciplinary tasks being carried out across Study Committees; enhancing value of Electra through additional articles; increasing the number of tutorials; inviting young engineers to participate in working groups and events; arresting the loss of knowledge in the electrical power industry; and establishing stronger ties with national committees.

He also described the close co-operation between CIGRE and IEC. This involved IEC in reviewing work and publications produced by CIGRE to identify the need for a standard or an update and then proceeding to develop the standard for the industry.

The T C Chairman's presentation was followed by presentations by the Chairmen of Study Committees A2 Transformers), A3 (High Voltage Equipment), B1 (Insulated Cables) B2 (Overhead Lines), B3 (Substations), B4 (HVDC and Power Electronics), and B5 (Protection and Substation Automation). Their presentations covered the present work activities of their Study Committees, trends in technology, and strategic directions.

Members can view the presentations on the ANC website, www.cigre.org.au

SC B4 (HVDC & Power Electronics) Meeting in Australia, 2011

An organising committee drawn from members of Australian Panel B4 has been established to organise and manage the meeting of the CIGRE international Study Committee B4 (HVDC and Power Electronics). SC B4 accepted the invitation from ANC to hold its 2011 meeting in Australia.

Initial plans are for the SC meeting, including Working Groups, and the technical tour to be held in Melbourne, while a colloquium associated with the meeting would be held in Brisbane. Basslink has kindly offered to make its Loy Yang Converter Station available for the technical tour. The date being considered for the meeting is October 2011.

New CIGRE Working Groups

CIGRE has recently announced the formation of the following working groups:

SC A2 - Transformers

A2.40 – Copper Sulphide Long-Term Mitigation and Risk Assessment.

SC A3 – High Voltage Equipment

A3.27 – The Impact of the Application of Vacuum Switchgear at Transmission Voltages.

SC B1 – Insulated Cables

B1.30 – Review of Cable Systems Electrical Characteristics.

SC B4 – HVDC and Power Electronics

B4.51 – Study of Converter Voltage Transients Imposed on the HVDC Converter Transformers.

B4.52 – HVDC Grid Feasibility Study.

SC C1 – System Development and Economics

C1.19 – Green Field Network, Designing Future Networks Ignoring Existing Constraints.

SC C2 – System Control and Operation

C2.34 – Capabilities and Requirements of a Control Centre in the 21st Century – Functional and Human Resources View.

C2.33 – Control Centre Operator Requirements, Selection, Training and Certification.

SC C4 – System Technical Performance

CIGRE/CIRED Joint Working Group C4.207 – EMC of Communication Circuits, Low Voltage Systems and Metallic Structures in the Vicinity of Power Systems.

C4.408 – Lightning Protection of LV Networks.

C4.502 – Power System Technical Performance Issues Related to the Application of Long HV Cables.

SC C6 – Distribution Systems and Dispersed Generation

C6.16 – Technologies Employed in Rural Electrification.

SC D2 – Information Systems and Telecommunications

D2.26 – Telecom Service Delivery Model, Architecture, Management and Support in the Electrical Power Utility.

D2.27 – Power Line Carrier Channel Modelling, Planning, and Usage.