



Interactive Workshop on Rotating Electrical Machines - Recent Developments

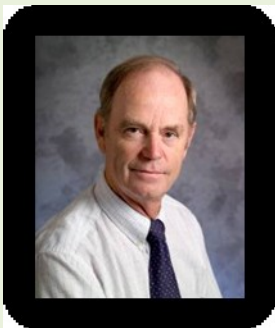
30th - 31st July, 2012
at Conference Hall, Central Board of Irrigation & Power
Malcha Marg, Chanakyapuri, New Delhi

ANNOUNCEMENT

The Committee for CIGRE India in its capacity as National Committee for CIGRE and Central Board of Irrigation and Power are organizing an Interactive Workshop on Rotating Electrical Machines - Recent Developments on 30th – 31st July, 2012 at Conference Hall Central Board of Irrigation & Power, Malcha Marg, Chanakyapuri, New Delhi.

The workshop is being planned with the aim to take advantage of the presence of International speaker and also to provide a forum for open discussions and exchange of information on the latest state-of-the-art technology to come out with positive/ concrete recommendations on the subject.

KEY INTERNATIONAL SPEAKER



Dr. Greg C. Stone,
CANADA

Key National Speakers



A.K. Gupta,
GM, NTPC &
Chairman of CIGRE NSC A2 on
Rotating Machines



D.K. Chaturvedi, DGM,
NTPC



Sudhanshu Gupta
Area Sales Director
Qualitrol

TOPICS

Beside the International Speaker the experts from organization like NTPC, BHEL, NHPC, BEE, THDC, NJPC, BBMB, Crompton Greaves, Tata Power, Lanco, Kirloskar, Siemens, Alstom, Havels and ABB are expected to make presentations during the workshop. The presentations will cover the following topics

- Design improvements of rotating electrical machines for better efficiency.
- Site testing of HV Electrical Rotating Machines and their diagnosis.
- Partial Discharge monitoring system for large electric machines.
- Condition based monitoring (CBM) of hydro generators & motors.
- Review of O&M aspects and Field Testing of motors
- Site testing of large Generators For Residual Life Assessment (RLA)
- Design requirements of motors for VFD (Variable Frequency Drive) application
- Machine Design
- Energy Efficient motors and Incentives
- Vibration Problem encountered in Hydro Generators
- Enhancing Efficiency in HPP
- Case Studies on Renovation, Modernisation and Uprating (RMU) of Power House
- O&M Problems encountered in Power Station
- Design Improvements in Large Turbo Generators

ABOUT SPEAKERS

Dr. Greg C. Stone, Ph.D. in electrical engineering from the University of Waterloo, Canada. has worked for the Research Division of Ontario Hydro the largest electric power utility in North America and was also responsible for the testing of high voltage equipment such as the 1200 large motors and generators. He is developers of new tests to evaluate stator insulation systems and also on-line partial discharge tests to evaluate the condition of the high voltage insulation in stator windings. Some of the tests developed by him have since become IEEE and IEC standard test methods. Mr. Greg Stone is the principle author of a book entitled "Handbook to Assess the Insulation Condition of Large Rotating Machines", published by EPRI in 1989, as well as the principle author of a book entitled "Electrical Insulation for Rotating Machines -Design, Evaluation, Aging, Testing and Repair", published by IEEE Press-Wiley in 2004.

He was the principle instructor of two in-depth courses on rotating machine design, testing and maintenance (one on motors, the other on hydrogenerators) for EPRI, the American utility organization. He has also presented seminars on rotating machines for IEEE, CIGRE and various universities and research institutes around the world. He has chaired several IEEE committees that created standards for evaluation and testing of rotating machines. He is past President of the IEEE Dielectrics and Electrical Insulation Society, and continues to be active on many other IEEE committees. He represented Canada on the International Electrotechnical Commission's IEC 2J (Rotating Machine Insulation), and later became TC 2J Chair. The IEC creates international standards for electrical equipment. In 2007 he was elected to the IEC Council Board, which serves as the Board of Directors of the IEC. He is also a member of various CIGRE working groups.

In 1992 Dr. Stone was elected as a Fellow of the IEEE for "contributions to the development on on-line partial discharge measuring systems for rotating machines". In 1984 he was the only Canadian selected as Outstanding Young Engineer by the IEEE. In 1993 he was awarded the IEEE Forster Distinguished Service Award for "Outstanding Contributions and Sustained Leadership in the Advancement of the Field of Electrical Insulation and Dielectrics". He was selected to receive the IEEE Third Millennium Medal in 2001. In 2012 Dr. Stone was given the IEEE Dakin Award for his development of the on-line partial discharge test for machines. This is the highest technical award the IEEE offers in the electrical insulation field. Dr. Stone also received the 2011 Technical Committee Award from CIGRE, for his contributions to the CIGRE Rotating Machine Subcommittee, as well as the "1906 Award" in 2008 for his standards development work with IEC. He won the grand prize for Best Paper at the 1989 IEEE Electrical Insulation Conference in Chicago. Dr. Stone was also one of the authors of a paper on turbine generator partial discharge testing which was selected as the 1994 IEEE Power Engineering Society Best Paper. In 1993, he was the sole recipient of EPRI's "Principle Investigator Award", for his "contributions and leadership in developing EPRI's diagnostic tools for insulation systems in electrical power equipment". Dr. Stone is a registered professional engineer in Ontario, Canada.

Mr. ANAND KUMAR GUPTA, General Manager, NTPC is Bachelor of Engineering (Electrical) in Year1980 from National Institute of Technology Allahabad. As head of Electrical department of largest power utility of India , having 30,000MW plus generation capacity, he has been fully involved in all developments & standardization work in the country with respect to rotating Machines. He has been responsible for Technology selection, Finalizing technical specification, Design review & testing of all turbine generators & other rotating machines for Thermal, Hydro & Gas based power projects of NTPC, besides other responsibilities. He has been involved in many failure analysis & rectification measures adopted for various generators in NTPC. He also has experience of Operation & Maintenance of Large turbo generators during his tenure as head of Operation & Maintenance at Feroz Gandhi Unchahar thermal project of NTPC.

Mr. D.K. Chaturvedi is 1981 batch graduate in Electrical Engineering from the IIT Roorkee. He has done Master of Engineering in Electrical Engineering from IIT Roorkee in 1985. He is presently working in NTPC Ltd. as DGM (Elect.) and responsible for Main Plant Electrical System. His area of specialization is Rotating Electrical Machines, Excitation System, Variable frequency Drives and High Current Bus-bar Systems. He is member of CIGRE working committee on Machine Diagnostics and IEC working committee on Rotating Electrical Machines. He is member of BIS committee ET-15 on 'Rotating Electrical Machines' and ET-02 Electrical Insulation System. He has played vital role in finalization of Standard on Energy Efficient Motors IS 12615 and harmonizing of Indian standards of ET-15 with IEC standards. He has been actively contributing new ideas to CIGRE and emphasizing for implementation of proven practices and concepts into our system.

Mr. Sudhanshu Gupta is working with Qualitrol Company LLC, USA as Area Sales Director – Indian Subcontinent and based in Noida. He is an Electronics Engineer graduated from Delhi College of Engineering, Delhi. He has having 14 years working experience in power industry and expertise in testing and diagnostics of EHV substation equipments.

REGISTRATION FEE

Fee is Rs. 10,000/- per participant. Concessional fee for CBIP & CIGRE members will be Rs. 9,000/- per participants. Registration fee shall cover the registration kit, and Tea/ coffee / lunch during the workshop. The registration shall start at 0900 hrs on 30st July 2012 at the venue.

PAYMENTS

All payments be made through DD/at par cheque in favour Of Central Board Of Irrigation And Power.

WHO SHOULD ATTEND

The professionals from Power Utilities / Corporations / State Governments, Nodal Agencies, Energy Planners, Private Entrepreneurs, Manufacturers, Development Consultants, Research / Academic Institutions, Construction Companies and Financial Institutions, Engineers and Managers from Large Scale, Medium Scale and Small Scale Industries, Railways, Oil & Gas Industries, Petrochemicals, Refineries and Power Plants

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2	Sponsor	1.00	4	1Page
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ORGANISERS



Central Board of Irrigation & Power



CIGRE India

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