

## KEY SPEAKERS

International eminent speakers will address the Seminar with their immense technical knowledge and also present practical case studies. The following renowned experts in field have confirmed to deliver the lecture during the seminar :



**Hein Putter**, was born in 1980 in the Netherlands. He received his M.Sc. degree in Electrical Engineering from the Delft University of Technology in 2007. His thesis project "Investigation of Water Treeing – Electrical Treeing Transition in Polymeric Insulation of Service Aged Power Cables" handled about determining the condition of service aged cables using several diagnostic techniques. In 2007 he joined SebaKMT Germany as technical support engineer for testing and diagnosis. Currently, since the market for diagnosis is increasing rapidly, he is working as Product Manager for testing and diagnosis.



**Henning Oetjen** received his Master and PhD in Chemistry from the University of Tuebingen, Germany. While working on PhD thesis he had a full time assignment for teaching graduate students in chemistry. Following his university education he worked 5 years as a R&D engineer for Reliance Electric in the field of High Voltage and Specialty Insulation Systems for Motors and Generators at the Corporate R&D Center in Cleveland, OH USA. The following 10 years he was with Draeger Safety in Pittsburgh, PA, first as R&D Manager and later as its President, manufacturing personal safety & gas detection equipment. In 1998 he joined HDW Electronics in Bethlehem, PA as its President. HDW was the US Subsidiary of SebaKMT, one of the world leading manufacturers of cable test and underground utility fault locating equipment, headquartered in Germany. Following the acquisition of SebaKMT/HDW by Megger in June of 2012 he has assumed the position as Product Mgr Cable Products for Megger and is located at the Megger Valley Forge facility in PA. He is member of the IEEE/ and also an active member of the IEEE400.2, F03D Very Low Frequency Testing in the Field – IEEE 400.2 as well as Subcommittee Field Testing. He is the joint holder of US Patent 6,683,459 B2 for Sectionalizing power cables in Distribution Loops. He has conducted numerous customer seminars in the US, Mexico and Canada regarding diagnostics of power cables. In addition he has been the author of numerous papers about power cable diagnostic at a number of international conferences.



**Peter Herpertz**, Born 1958 in Germany, Graduation in Electrotechnical and Communication Engineering, Employed since 1990 with SebaKMT, Starting from Salzgitter Electronics, Hagenuk, Hagenuk KMT, SebaKMT and now Megger, From 1990 until 2005 Sales Director Until 2000 for Central Europe, then for the Americas, Scandinavia, China, South Africa, Since 2005 Product Manager responsible for Systems and Tools.

Besides Experts from POWERGRID, DTL and other Centre and State Utilities are also likely to make presentations during the seminar.

*Information Bulletin*

## National Colloquium & Technical Seminar on Cable Fault Location, Testing and Diagnostics and Fault Location on Overhead Transmission Lines

Date : 24<sup>th</sup> – 25<sup>th</sup> September 2014

### VENUE

Conference Hall, Central Board of Irrigation & Power  
Malcha Marg, Chanakyapuri, New Delhi



Organised by



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and Power



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**Megger.**

## ANNOUNCEMENT

Underground power cables have been widely implemented due to reliability and environmental concerns. To improve the reliability of a power system, accurate identification of a faulted segment is required in order to reduce the interruption time during fault, i.e., to restore services by determining a faulted segment in a timely manner. In the conventional way of detecting fault, an exhaustive search in larger scale distance has been conducted. This is time consuming and inefficient, not only that the manpower resources are not utilized, but also the restoration time may vary depending on the reliability of the outage information. As such deriving an efficient technique to locate a fault can improve system reliability. Power utilities need an accurate and automatic fault location method for restoring the supply. The trend of transmission line construction from overhead to underground is increasing even though the underground system costs more for initial construction. However, the underground system requires faster detection and correction of accidental faults along the lines for more reliable service. Fault location detection is finding exact fault position of cable when there were any unwanted accidents like short circuit, open circuit, insulation breakdown etc.

Various methods have been developed to reduce damage and inference. But most of fault detection methods have shortcomings. Some have low accuracy, some are difficult to apply because of surrounding environment, and some give unwanted damage to healthy neighbouring cable and facilities.

Various cable system diagnostic testing technologies were developed to detect cable system detection. The results of diagnostic tests are used to identify potential failures within cable systems and then again, after repair, to verify that the repair work performed did indeed resolve the problem(s) detected.

Today energy producers, providers and service companies in the field of Cable maintenance and fault location are obliged to ensure high quality supply of energy to customers. When a fault arises, it is challenge to reconnect the affected consumers to the network quickly, as it cost both time and money. There are new, sophisticated and safe techniques available that meet all requirements for diagnostics and testing. With the aim to discuss the above issues CBIP jointly with CIGRE India & Megger organizing this National Colloquium & Technical Seminar on 'Cable Fault Location, Testing and Diagnostics and Fault Location on Overhead Transmission Lines'.

## TOPICS TO BE COVERED WITH CASE STUDIES:

1. Cable testing Basics, standards and recommendations
2. Hipot Test- Pros and Cons
3. Sheath test on MV/HV cables
4. Very Low testing VLF
5. Routine testing of OEM cables
6. Partial discharge testing in XLPE cables
7. HVDAC systems for Cable Diagnostics
8. Cable Fault pre-location, various techniques
9. LV cable test, what to look for
10. Challenges in Overhead Transmission fault detection systems

## DATE AND VENUE

The National Colloquium & Technical Seminar will be held on 24-25 September 2014 (Wednesday & Thursday) in the Conference Hall of Central Board of Irrigation and Power, Malcha Marg, Chanakyapuri, New Delhi - 110021 (Phone: +91 11 26116567/26115984; Fax: +91 11 26116347; E-mail: batra@cbip.org; cbip@cbip.org)

## CALL FOR CASE STUDIES

Experts who desire to participate for making presentations/case studies on the above subject are requested to furnish the write-ups to reach CBIP office latest by 10th September 2014.

## REGISTRATION FEE

The perspective participants, desirous of attending the Workshop may register themselves by sending the following details to CBIP along with necessary payments:

Delegate Name : \_\_\_\_\_  
Designation : \_\_\_\_\_  
Organisation : \_\_\_\_\_  
Mailing address : \_\_\_\_\_  
Phone/Fax/E-mail : \_\_\_\_\_

The registration fee for attending the Seminar is given below:

**(i) Rs. 12,000/- per participant.**

**(ii) Rs. 10,000/- per participant for members of CBIP and CIGRE**

***Service Tax 12.36% extra***

Registration fee shall cover the registration kit, and Tea/ coffee / lunch during the seminar. Participants will have to make their own arrangement for travel, boarding and lodging, etc. All payments should be made by cheque at par/ Demand Draft drawn in favour of "Central Board of Irrigation and Power", payable at New Delhi or by transfer the amount to HDFC Bank, Address: G-3/4, Suryakiran Building, 19 K.G. Marg, New Delhi 110 001; Saving Bank Account No. : 00031110004411; Swift Code: HDFCINBBDEL; IFSC : HDFC 0000003; MICR Code : 110240001.

Hurry for registrations, to book a seat please mail to batra@cbip.org

## ADDRESS FOR CORRESPONDENCE

**V.K. Kanjlia**

*Secretary*

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