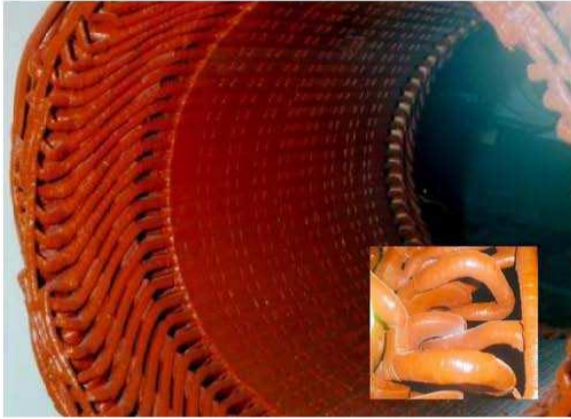


SEMINAR OBJECTIVES

- To learn about stator and rotor winding design and failure mechanisms
- To promote better understanding of condition based (predictive) maintenance



WHO SHOULD ATTEND?

The seminar is directed at engineering and maintenance personnel who purchase, test, maintain, and/or repair high voltage rotating machines. Consultants, manufacturers and repair shop personnel are also welcome.

INSTRUCTOR: Greg Stone

Dr. Greg Stone was one of the developers of on-line partial discharge test methods to evaluate the condition of the high voltage insulation in stator windings. From 1975 to 1990 he was a Dielectrics Engineer with Ontario Hydro, a large Canadian power generation company. Since 1990, Dr. Stone has been employed at Iris Power L.P. in Toronto Canada, a motor and generator condition monitoring company he helped to form. He is a past-President of the IEEE Dielectrics and Electrical Insulation Society, and continues to be active on many IEEE standards working groups. He is also active on several IEC rotating machine standards working groups, and from 2007-2012 was an elected member of the IEC's Council Board, its main governing body. He has published two books (one of which was translated into Chinese) and >200 papers concerned with rotating machine insulation. He has awards from the IEEE, Cigre and IEC for his technical contributions to rotating machine assessment. Greg Stone has a PhD in Electrical Engineering from the University of Waterloo (Canada), is a Fellow of the IEEE, a Fellow of the Engineering Institute of Canada and is a registered Professional Engineer in Ontario, Canada.

Seminar Overview

Day 1:

1. Synchronous rotor windings: design aspects of round rotors; failure processes, on-line detection problems using flux monitoring, basic interpretation
2. Induction motor rotor windings: design aspects, cage winding failure processes, use of on-line motor current signature analysis, basic interpretation.
3. Conventional stator windings: design aspects, basic partial discharge theory, main failure processes

Day 2:

4. Stator windings: on-line PD detection, basic interpretation
5. Stator windings supplied from PWM voltage source drives: additional failure processes, on-line PD detection, basic interpretation
6. Stator windings: failure caused by endwinding vibration, on-line detection using fiber-optic accelerometers, basic interpretation
7. Shaft current and voltage monitoring: purpose, basic interpretation
8. Integrated monitoring of rotors and stators: purpose, hardware and software platforms, application to planning maintenance including central company-wide predictive maintenance centers.

Name: _____

Company: _____

Address : _____

Postal Code _____

Telephone: _____

Email: _____

Mobile : _____

Special dietary needs: _____

ADMIN FEE: S\$250 (GST Applies)

Send completed registration to SALES & ADMIN at:
 sales@electtechno.com

Contact: Aaron Ng Mobile: 98261145

Venue: Furama City Centre

60 Eu Tong Sen Street Singapore 059804

Tel: (65) 6533 3888

Fax: (65) 6534 1489

www.fresh.furama.com

Note for Professional Engineers:

This Seminar is Pending Qualification for up to 10 PDUs by PEB of Singapore

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