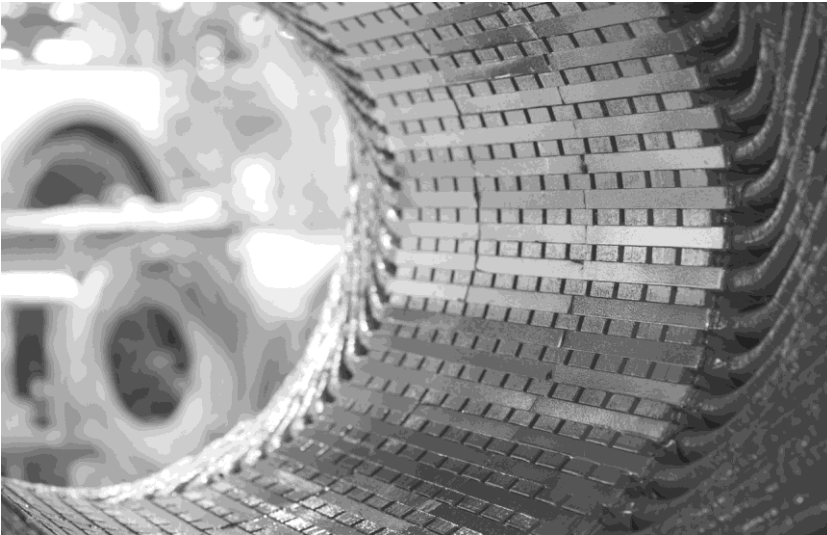


COURSE OBJECTIVES

- to understand common failure mechanisms of rotor windings and stator windings of machines rated 3.3kV and above
- to understand basic flux monitoring to detect rotor winding problems
- to understand basic Partial Discharge, Endwinding vibration monitoring of stators
- to understand Shaft Voltage and Current
- to collect and interpret data and relate the data to specific failure mechanisms



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.

AGENDA 9:00 am - 5:30 pm

Seminar Overview

Condition-based Monitoring

- Online Monitoring

Rotor Windings

- Design and Failure
- Flux Monitoring to detect shorted turns

Stator Winding

- Design and Failure
- Partial Discharge Testing
- Endwinding Vibration Monitoring

Shaft Voltage and Current

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.

Location

Radisson Blu Edwardian Heathrow

140 Bath Road

Hayes, Middlesex

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