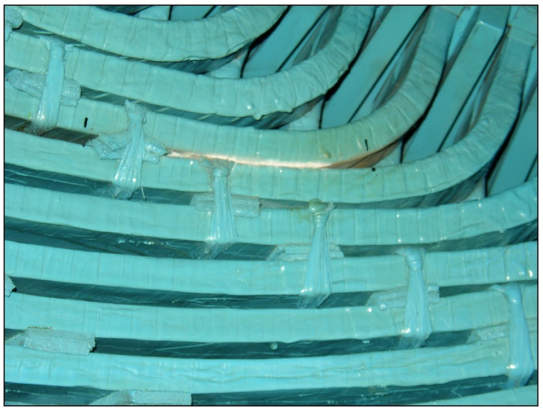
PARTIAL DISCHARGE COURSE

May 19-21, 2020
Manchester, UK

Partial discharges (PD) are small electrical sparks that occur as the stator winding insulation deteriorates. By measuring PD, one can plan when to do maintenance or when to rewind a stator.

Seminar Objectives

- to understand the basics of stator winding insulation systems and why they deteriorate
- to understand basic PD theory
- to understand how PD detection devices work
- to interpret the test data collected and relate the data to specific failure mechanisms, to enable you to plan maintenance



Who Should Attend?

The course is designed for engineering and maintenance personnel who either purchase, install, test, maintain and/or repair motors and/or generators. Consultants, manufacturers and repair shop personnel would also benefit from this course. The course is mainly intended for those involved with motors or generators rated 3kV and above.

Instructor: Dr. Howard Sedding

Dr. Howard Sedding graduated with a BSc in electrical and electronic engineering at the University of Strathclyde and then acquired MSc and PhD degrees. Most of Dr. Sedding's career was spent working at the Research Division of Ontario Hydro, later known as Kinectrics. Howard was involved in, or responsible for, numerous projects related to the specification, testing, monitoring and maintenance of solid, liquid and gaseous electrical insulation systems in a wide range of high voltage electrical equipment. He is an active member of numerous technical committees, and has contributed to many IEEE and IEC standards concerned with electrical insulation. Specifically, he is the Chair of the Canadian committee for IEC TC112 (Evaluation and qualification of electrical insulating materials and systems), the International Secretary of IEC TC42 (High voltage and high current test techniques) and is the Canadian representative for Cigre SC A1 (rotating machines). Howard has authored and co-authored more than 150 technical papers. Currently, Howard is employed as an Insulation Engineer at Iris Power

AGENDA

Day 1

8:30 a.m. – 4:30 p.m.

Motor & Generator Stator Windings

- Stator Winding Design
- Coil Manufacturing Process
- Failure Mechanisms

Day 2

8:30 a.m. – 4:30 p.m.

PD Theory

- PD as a Symptom
- Partial Discharge or Corona
- Void Formation
- Electrical Discharges

PD Detection

- On-line and Off-line testing
- PD sensors
- Noise Cancellation

Day3

8:30 a.m. – noon

Interpreting Test Results

- Data Presentation
- Trend Analysis
- Polarity Predominance
- Load Effect
- Temperature Effect
- Non-classic PD pulses
- Multiple Failure Mechanisms
- PD Characteristics of Failure Mechanisms

Please refer to registration form on page 2

IRIS POWER
A QUALITROL Company

Iris Power LP - Qualitrol
3110 American Drive, Mississauga, Ontario, L4V 1T2 Canada
www.irispower.com

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To register for the seminar please send completed form with credit card information to fax 905-677-8498 or e-mail to khoward@qualitrolcorp.com.

Name: _____

Title _____

Company: _____

Address: _____

_____

City, State _____

Postal/Zip: _____ Phone: _____

E-mail : _____

Special Dietary needs: _____

Please print e-mail address clearly

Payment made via:(check one box)

Master Card ☐ P.O. # _____

Visa ☐

Card # : _____

Expiration Date: _____ CVS # _____

Card Holder Name: _____

Signature: _____

REGISTRATION
Only 15 seats available, so register now.

Registration includes lunch and breaks daily. A complete set of notes is also included.
PRICE DOES NOT INCLUDE HOTEL ACCOMMODATIONS.

Confirmation will be issued upon receipt of payment.

COST
$1295.00 USD

Send registration to:
Karen Howard
Fax: 905-677-8498
Phone: 905-364-4568
khoward@qualitrolcorp.com

LOCATION/VENUE

DoubleTree by Hilton Hotel
Manchester-Piccadilly
One Piccadilly Place,
1 Auburn Street,
Manchester, M1 3DG
Tel: +44 161 24210000

CANCELLATION POLICY

Cancellation received 30 days prior to seminar date will result in a $75.00 US processing fee. Withdrawal received up to one week prior to the seminar will be subjected to a charge of $150.00 US. There will be no refunds a week prior to the seminar. Delegate substitution is permitted.