

Lubrication for Performance

A Practical Approach to the Technology of Power Plant Lubrication

Tuesday 16th to Wednesday 17th October 2012

Castrol Technology Centre, Pangbourne, Berks, UK. RG8 7QR

A two day workshop, specially designed for Young Engineers
Facilitating knowledge transfer by engaging with experienced professionals
Empowering Young Engineers for Lifelong Continuous Professional Development (CPD)

Workshop cost: £300+vat (early applicants £250+vat)

Includes workshop dinner and hotel accommodation for Tuesday 16th October 2012

Limited places; early booking recommended to avoid disappointment

Early applicants' reduction if booked by Wednesday 12th September 2012
Complete the Workshop Application Form and email to enquiries@idgte.org.

Course introduction

Lubrication of a power plant represents only a small percentage of the lifetime cost of operation but is one of the key elements in achieving peak plant performance. Getting it wrong, on the other hand, can make a huge impact on profitability and sometimes equipment failure.

This practical and informative course is a unique opportunity to learn first-hand from the experts how to effectively manage lubrication of the plant and make a significant contribution to reliability and availability.

The course is highly interactive involving syndicate work on real case-studies and includes a fascinating tour of the Castrol Technology Centre including laboratories, engine test facility and climate controlled rolling-road test bed.



Course content overview

- *Basic principles of lubrication*
- *Lubricant technology – properties and performance requirements*
- *Why do we need so many different oils and greases?*
- *Turbine lubrication/oil failure: How and why do oils fail? What can be done to extend service life?*
- *Analytical test methods. What are the tests and what do the results mean?*
- *The practice of lubrication – how, what, why, when, where?*
- *An introduction to oil condition monitoring*
- *Best practice: Practical aspects of lubrication*
- *Health, safety and environmental considerations*
- *Tour of the Test Laboratory and facilities*
- *Interactive analysis of case studies with experts*

Workshop timetable

Day 1: Tuesday 16 th October 2012	Day 2: Wednesday 17 th October 2012
<p>11.00: Arrival and Registration</p> <p>Lubricant technology: The basics</p> <p>Properties, performance requirements</p> <p>Turbine lubrication/failure modes</p> <p>Case studies and group work with Castrol specialists</p> <p>17.00: Day 1 Close</p> <p>19.30: Course Dinner</p>	<p>8.30: Case study reviews</p> <p>Analytical test methods</p> <p>Tour of Technology Centre</p> <p>Oil condition monitoring – an introduction</p> <p>Interpretation of sample results</p> <p>Best practice - practical aspects of lubrication</p> <p>Young Engineers CPD competition launch</p> <p>15.30: Day 2 Close</p>

Workshop specifically designed for Young Engineers and for:

- Young Engineers (approx 20-30 years) either graduate or technician qualified at first or second appointment stage in career, looking for Continuous Professional Development (CPD) opportunities
- Young Engineers wishing to have personal contact with specialist engineers and build a strong network of other young engineers within the power generation or machinery industry
- Engineers wishing to expand their technical knowledge regarding the selection and specification of lubricants and who wish to have a clear appreciation of how to add value to the operation through an effective lubrication programme.
- Operatives who are involved with oil sampling and evaluation of analysis results including action taken on the basis of oil analysis results

Workshop leaders and specialists:

Workshop Coordinator

Judith Packer MA, CEng, MIMechE, MIDGTE (Parsons Brinckerhoff)

Judith's 25 year career commenced in gas turbine manufacturing where she saw first hand the valuable role the manufacturing industry played in providing a sound foundation for young engineers and how engineering improves the lives of individuals and society around the world. Having spent some time in contracting and as a developer, she has been a Project Manager to help clients develop and construct new gas turbine power plants in Europe.

Lubrication Specialists

John Platt B.Sc. (Hons), AMIMechE, FIDGTE (Castrol Power)

John is widely regarded as a leading expert in the lubrication of power plant. Having spent over 30 years in the power generation industry he has a wealth of knowledge and experience of lubrication problems and their solutions and has wide practical experience of setting up and running effective lubrication programmes.

Peter Bowles BSc (Hons), C Chem, MEI, MASTM

A career analytical chemist, Peter has spent more than 20 years in the testing and analysis of lubricants of all types. This includes used oil condition monitoring, lubricant development and problem solving. He is manager of the Analytical Laboratory at Pangbourne and runs the BP worldwide lubricants laboratories network.

Tom Hoyes B.Sc. (Hons)

Tom has spent 25 years in the lubrication industry, in a range of product technology areas. He has more recently specialised in the development and technical support of industrial products, in particular those relating to the power generation industry, and provides a key interface between field engineering and the extensive technical resources at the Pangbourne Technology Centre.

Geoff Littlewood CEng, FIMME, CSTLE

Geoff has spent the majority of his 30 year career working in the mining industry from apprentice through to Colliery Chief Engineer. He has vast experience with heavy industrial plant, hydraulic systems and heavy rotating machinery.

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