

COMPRESSORS AND FANS WORKSHOP

Institution of
**MECHANICAL
ENGINEERS**

**LIMITED TO
15 PLACES**

**BOOK EARLY
TO AVOID
DISAPPOINTMENT**

See over for programme
& booking form

Fluid Machinery Group
Workshop

27 November 2014

One Birdcage Walk, London

Presented by **Dr H B Carrick**

Consultant and former Chairman of the
Fluid Machinery Group

www.imeche.org/events/W6151

This one-day course is designed to help you analyse and understand the principles associated with gas compressors and fans.

This event will be of particular interest to developing engineers, designers, technicians, first line managers and anyone whose role now includes responsibilities for gas machinery.

The workshop is made up of lectures and group exercises covering:

- An introduction to the range and types of machines and their operating characteristics and applications
- A foundation in the issues of compressor system design
- An introduction to machine specifications and standards
- An outline of safety issues and statutory regulations relevant to the technology

This workshop will be supported by comprehensive notes covering a wide range of rotating equipment and the related technical issues. The approach is informal and the number of delegates is kept low to encourage active discussion during the presentations. Dr Carrick has wide experience in the specification and design of compressor and fan systems together with hands-on expertise in problem solving and maintenance.

For more information please visit **www.imeche.org/events/W6151**
Alternatively contact our enquiries team on +44 (0)20 7973 1258 or
email **eventenquiries@imeche.org**

COMPRESSORS AND FANS WORKSHOP

PROGRAMME

9:00 Registration

MORNING SESSION

9:00-10:45

- Introduction: types of fans and compressors
- Definitions and basic concepts; fluid properties, fluid flow, thermodynamics
- Group exercise

10:45 Refreshments

- Fans: characteristic curve, dimensional analysis, stability, control
- Group exercise

12:30 Lunch

AFTERNOON SESSION

13:00-14:45

- Compressor characteristics
- Selection of compressor type
- Group exercise
- Fluid dynamic compressors: characteristics, stability, control

14:45 Refreshments

- Positive displacement compressors: characteristics, control
- Safety considerations
- Assessment questionnaire

16:30 Close

OBJECTIVES

Book your place and find out how to:

- Describe the properties of gases and the implications for gas compression
- State the main terms used in defining gas and fan systems
- Identify the main types of compressors and fans (their characteristics, features, basic principles, capacity control methods, selection staging, etc)
- Make a preliminary selection of compressor or fan type
- Understand the basic safety issues of compressors and fans including lubricated air compressors, prevention of fires and explosions
- Explain the legal requirements relating to machinery safety



BOOKING FORM

REGISTRATION FEE (Inc. refreshments and lunch)

Institution members £319.00+VAT **Non-members** £391.00+VAT

WORKSHOP CODE: W6151AB
COMPRESSORS AND FANS WORKSHOP
27 NOVEMBER 2014
LONDON

REGISTRATION & PAYMENT DETAILS Please complete in capitals.

Family Name _____ Title (Mr, Mrs, Miss) _____
First Name _____ Job Title _____
Membership No _____ Institution _____
Name of Organisation (for name badge) _____
Address for correspondence _____
Town/City _____ Postcode _____
Phone _____ Email _____

Do you have any special requirements? _____

Please indicate method of payment:

☐ **Cheque** Please make payable to "The Institution of Mechanical Engineers"

☐ **Credit Card** ☐ Visa ☐ MasterCard (Please note we cannot accept American Express, Diners Club or Maestro)

Card No _____ Valid From ____/____/____ Expiry Date ____/____/____

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☐ **Invoice** (UK only, please supply Purchase Order. Please note there is an invoice admin charge of £12.00 incl. VAT)

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Please note international delegates may pay only by credit card, BACS or banker's draft. A copy of the draft must accompany this form. It is the delegate's responsibility to pay any bank charges. **Payment must accompany this registration form. Registration will be confirmed only on receipt of full payment.**

Please complete and return with payment to:

Events Team
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