



15 September TOTAL PRODUCTIVE MAINTENANCE

Training workshop introducing principles and practices of TPM, led by experienced implementer Roy Davis.
MPI, Kidderminster, Worsc.
www.mpiltd.co.uk

15 September SHAPING THE DIGITAL FUTURE

Over the next three years the government is investing £120 million in researching and developing digital technology. The University of Leeds is hosting a day of debate and presentations to spark ideas for new collaborations to take advantage. There will be presentations on artificial intelligence and computational systems.
Leeds, University of Leeds.
www.engineering.leeds.ac.uk/comp

15-16 September HAZARDOUS AREA EQUIPMENT, LEGISLATION AND SAFE PRACTICE

Sira Test and Certification's course offers a solid understanding of explosion-protected equipment, safety legislation and codes of practice. The programme will consider types of equipment, protection methods and maintenance.
Eccleston, Cheshire. Sira Test and Certification. www.siracertification.com

15-17 September PRACTICAL STRESS ANALYSIS AND FINITE ELEMENT METHODS

Guidance on how to judge which approximations are appropriate for solving a range of practical problems.
Stratford-upon-Avon. Nafems.
www.nafems.org/events

15-17 September METOCEAN AWARENESS

Professionals in the offshore and marine renewables industries need to be aware of the effects that the weather, waves, currents and water levels can have on their operations or design work. These influences are summed up in the term 'metocean'. This course is designed to bring greater awareness of metocean conditions and forecasting to project managers and engineers.

London. Institute of Marine Engineering, Science and Technology.
www.imarest.org/events

16 September ELECTRIFICATION OF THE IC ENGINE

Introduction to and integration of future electric and electronic systems into internal combustion engines.
IMEchE HQ, London. IMechE Combustion Engines and Fuels Group.
www.imeche.org/events/s1471

16 September CHAIRING MEETINGS

Designed to enhance engineers' abilities at chairing meetings and to develop their management skills. Participants should be able to prepare more effectively for meetings, use a range of strategies to resolve issues, and manage difficult people and situations more effectively.
Dublin. Engineers Ireland.
www.engineersireland.ie

**16 September
DYNAMICS TESTING AND
ANALYSIS WORKSHOP**
Presentations from a wide variety of industries on practical aspects of testing and analysis in relation to dynamics.
Bristol. Nafems. www.nafems.org/events

16-18 September FRICTION, WEAR AND LUBRICATION

This intensive course from the Cambridge Institute for Manufacturing offers an introduction to and overview of tribology. The key elements are complemented by case studies. The course includes surface topography and contact mechanics; hydrodynamic, elasto-hydrodynamic and boundary lubrication; rheology and lubricant chemistry; wear and friction of metals, ceramics and polymers; surface engineering, and test methods.
Cambridge. Cambridge Institute for Manufacturing. www.ifm.eng.cam.ac.uk

16-18 September COASTS, MARINE STRUCTURES AND BREAKWATERS 2009

Conference on breakwater design run by the Institution of Civil

Engineers and backed by the IMechE Process Industries Division.
Edinburgh. www.ice-breakwaters.com

17 September COMPRESSORS AND FANS

A course enabling developing engineers, designers, technicians and first-line managers to gain an understanding of the principles associated with gas compressors and fans. Includes an introduction to the range and types of machines, operating characteristics and applications, a foundation in the issues of compressor system design, an introduction to machine specifications and standards, and an outline of safety issues and relevant statutory regulations.
HO. IMechE Fluid Machinery Group.
www.imeche.org/events

17 September A CLEARER FUTURE

National conference on vehicle emissions and policies for reducing the emissions from local transport, organised by South Yorkshire's Care4Air air quality awareness campaign.
Sheffield. www.care4air.org

17-18 September UNDERSTANDING RISK IN THE GROWING COMPANY

Participants will be guided through the world of decision-making. They will explore the qualities of risk, negative and positive, and discover how these are being managed with more confidence by experienced stakeholders in several different enterprises. The workshop will look at risk from the perspective of shareholders and how they manage their exposure and express their risk appetite.

17 November DISTRIBUTED ENERGY SYSTEMS 2009

Distributed Energy Systems (DES) include local heat generation, energy generation and related distribution systems and involve an integrated range of plant types and plant sizes from micro to large scale. Implemented as part of a programme of demand-reduction and efficiency, these systems address a range of issues such as distribution losses, energy-price volatility and poor energy reliability and quality. The latter can arise from supply constraints upstream of centralised power stations. In addition to this, DES can enable greater local control over key energy resources, and provide energy for those communities which are off mains gas or electricity grids. With increasing pressure for low-carbon energy, DES also offers an opportunity to integrate renewable energy at appropriate scale close to the point of energy use.
HG Wells Centre, Woking, Surrey. IMechE Energy Environment and Sustainability Group. www.imeche.org/events/s1472

Brussels. European Institute for Industrial Leadership. www.eiil.net

17-18 September HIGH-PERFORMANCE COMPOSITES FOR A CHANGING WORLD

Technical conference to brief engineers and researchers on developments in high-performance composites for the aerospace industry.
Filton, Bristol. Society for the Advancement of Material and Process Engineering. www.sampe-europe.org

20-23 September PRESSURE VESSEL TECHNOLOGY - ICPVT-12

The latest in a series of triennial international conferences on pressure vessel technology in the field of structural integrity assessment, maintenance and life extension of pressurised process engineering plants. Topics will include design and analysis, materials and fabrication, inspection and testing, codes and standards, new technology for post construction, and new applications of pressure technology.
Jeju, Korea. International Council on Pressure Vessel Technology. www.icpvt12.org

22 September POWERTRAIN TESTING - MANAGEMENT AND EVALUATION

Highlighting techniques and developments in engine testing. Leading practitioners from aerospace and defence will share experience. The programme will cover advances in test-cell research and development; data management in the test-cell environment; test-cell operation and management; emissions

measurement, environmental legislation and technology; hybrid powertrain testing; and certification and aftermarket documentation.
HO. IMechE Automobile Division.
www.imeche.org/events

22 September WAVE AND TIDAL TECHNOLOGIES - WATTS 2009

The seventh annual Watts symposium will examine how the UK can maintain a lead in the marine renewables industry. The event will seek to present lessons from other countries. There will be a small accompanying exhibition.
Leasowe, Wirral, Merseyside. Renewable Energy Association. www.r-e-a.net

22-23 September NEGOTIATION SKILLS FOR ENGINEERS

An interactive course explaining the negotiation process including different forms of negotiating.
London. IET. www.theiet.org/careers/courses/professional

23 September TECHNICAL REPORT WRITING

"Refine your report-writing skills and communicate more effectively with readers," say the organisers of this course. On completing it, engineers should be able to plan reports with greater effect, recognise the generic structures underlying all report structures, overcome their own writing difficulties, structure reports more clearly, write with greater confidence, make more important decisions earlier in the reporting process, and, most critically, communicate written information in a reader-friendly style.
Dublin. Engineers Ireland.
www.engineersireland.ie

23 September
ANSYS ANSOFT UK 2009 USER CONFERENCE
 Free meeting for users and fans of the simulation software.
 Basingstoke. Ansys.
www.ansys.com/events/ansoftconference2009

24 September
AN INTRODUCTION TO STAINLESS STEEL
 Half-day workshop offering a comprehensive introduction to stainless steel. Topics include grades, finishes, corrosion, mechanical properties and applications.
 London. British Stainless Steel Association.
www.bssa.org.uk/events.php

24 September
SUSTAINABLE WASTE MANAGEMENT
 The seminar will offer the experience of technology suppliers and consultants operating in the field. Sessions will be devoted to municipal solid waste and biowaste.
 HQ. IMechE Energy, Environment and Sustainability Group.
www.imeche.org/events

24-25 September
CREATING OPPORTUNITIES FROM UNCERTAINTY – NAVIGATING INDUSTRIAL EMERGENCE
 Cambridge University's annual technology management symposium aimed principally at senior technology and innovation managers. Aspects covered will include the commercialisation of new science and technology,

investment, regulation, design, business start-up and supply networks.
 Cambridge. Centre for Technology Management. www.ifm.eng.cam.ac.uk/ctm/symposium15

24-25 September
CONFIGURING MANUFACTURING VALUE CHAINS – RESPONDING TO AN UNCERTAIN WORLD
 This year's Cambridge symposium on international manufacturing will focus on configuring manufacturing value chains. It will explore how firms respond to the uncertainties of global supply and the economic downturn. It will highlight their novel approaches as well as challenges from industry leaders in established and emerging economies.
 Cambridge. Institute for Manufacturing. www.ifm.eng.cam.ac.uk/cim/symposium2009

24-26 September
ADM2009
 A forum for researchers, academics and industrialists to share findings and achievements in design and manufacturing. A particular emphasis will be placed on industrial relevance and scientific innovation.
 Harbin, China. Nottingham Trent University with Harbin Engineering University. www.ntu.ac.uk/adbe/news_events/events

28-30 September
WORLD CLASS ASSET MANAGEMENT WITH SAP
 Conference explaining how companies can use strategies and techniques such as enterprise asset management, produced by the IT consultancy SAP, to optimise their maintenance processes and achieve world-class asset management. Case studies from big companies.
 Birmingham. T A Cook Conferences. www.tacook.co.uk

28-30 September
INTRODUCTION TO DESIGN FOR RELIABILITY
 Companies are challenged to achieve uniformly high reliability in their product and process designs while meeting shorter product development time schedules and lower budgets. Based around reliability and quality specialist ReliaSoft's reliability software suite, this covers tools that support the methodology from concept to production.
 Greater Manchester. Wilde Reliability. www.wildereliability.co.uk

28 September-16 October
FUNDAMENTALS OF ACCIDENT INVESTIGATION
 Includes preparation, response, evidence collection and analysis, reports and recommendations; working safely under supervision at an accident site; conducting witness interviews and collecting evidence; conducting an analysis for a report and recommendations; critically assessing strategies for working alongside emergency and legal services, pathologist, scientific support, news media, families and regulator.
 Cranfield, Bedfordshire. Cranfield University. www.cranfield.ac.uk/short/calendar.jsp

29 September
INTEGRATING TECHNOLOGIES FOR LOW CARBON
 Fourth in a series of seminars organised with Lotus to show how contributing technologies can be integrated to achieve significant gains in reducing CO₂.
 Hethel Engineering Centre, Norfolk. IMechE Automobile Division.
www.imeche.org/events/s1463

29 September
VEHICLE THERMAL MANAGEMENT SYSTEMS
 Presentations on advanced or alternative propulsion and thermal systems; alternative powertrain/hybrid battery thermal management; alternative refrigerants and air conditioning systems; heat exchanger design and manufacturing; powertrain cooling; simulation of thermal systems; thermal comfort and cabin air quality; thermal processes; underhood thermal management; vehicle climate control systems; and thermal system components.
 HQ. SAE International and IMechE.
www.imeche.org/events

29 September
ATEX FOR MANUFACTURERS
 Sira's course will offer a solid background in ATEX (explosive atmospheres) principles. It will be based on Directive 94/9/EC (Equipment and protective systems intended for use in potentially explosive atmospheres) and cover requirements and responsibilities.
 Eccleston, Cheshire. Sira Test and Certification. www.siracertification.com/training.aspx?page=6

30 September
21ST CENTURY CLEANROOMS
 One-day seminar to examine developments in the cleanroom industry, from energy consumption and "greener" cleanrooms, to the latest filtration standards and regulatory approval guidelines.
 IMechE HQ, London. IMechE Construction and Building Services Division. www.imeche.org/events/s1453

30 September
IN AT THE DEEP END
 Former IMechE president John Baxter, the group head of engineering at BP, reviews the

move into deepwater oil exploration and the technological challenges.
 IMechE Process Industries Division Offshore Engineering Committee.
www.imeche.org/events/L113

30 September
AREA CLASSIFICATION
 Plant operators and those tasked to implement and maintain DSEAR (Dangerous Substances and Explosive Atmospheres regulations) safety strategies will benefit from this course. Looking at technical and procedural issues, it covers the principles of area classification.
 Eccleston, Cheshire. Sira Test and Certification. www.siracertification.com/training.aspx?page=61

1 October
HAZARD APPRECIATION, RISK ASSESSMENT PREPARATION AND TRAINING OF PERSONNEL
 Sira's course offers an appreciation of aspects of DSEAR and guidance on how to conduct DSEAR risk assessments on-site.
 Eccleston, Cheshire. Sira Test and Certification. www.siracertification.com/training.aspx?page=61

1 October
WHAT HAS FORMULA ONE EVER DONE FOR US?
 IMechE Automobile Division chairman Jon Hilton is an engineer with significant experience of Formula One and of innovation within automotive industries. His chairman's address for the session tackles how Formula One can be a model for project delivery and innovation - and business success.
 IMechE HQ, London. IMechE Automobile Division. www.imeche.org/events/L112

1 October
OPERATIONS EXCELLENCE MASTER CLASS FOR MANUFACTURING AND ENGINEERING
 Change management expert Ron Moore leads a one-day event with lots of case studies of operational excellence in productivity, asset management and staff involvement.
 Runcorn. Reliable Manufacturing. www.reliable-manufacturing.com/public-events

8 October
DESIGNING PRODUCTS TO COMPLY WITH THE ENERGY-USING PRODUCTS DIRECTIVE
 The impact of the Energy-using Products directive is primarily on the design phase of products as it is considered that this is the determining stage affecting the resources used in a product. This course will explain the requirements of the directive, the status of implementation and look at studies on regulation of specific product groups, the key business issues, and practical ways in which a business can respond to minimise cost and risk.
 Leatherhead, Surrey. ERA Technology. <http://shop.era.co.uk>



29 September
ATEX FOR END USERS
 Half-day course in ATEX (explosive atmospheres) principles, based on Directive 94/9/EC (Equipment and protective systems intended for use in potentially explosive atmospheres) and cover requirements and responsibilities.
 Eccleston, Cheshire. Sira Test and Certification. www.siracertification.com/training.aspx?page=61