

LEAN AND EFFICIENT ENGINEERING IN THE PHARMACEUTICAL INDUSTRY.

Institution of
**MECHANICAL
ENGINEERS**

Learn how to make the difference

21 June 2011
London

Book now:
www.imeche.org/events/S1586



BY ATTENDING THIS EVENT YOU WILL:

- Enhance your operational efficiency by applying best-practice industry methods
- Develop more cost-effective maintenance plans as well as best practice in calibration
- Improve and maintain regulatory compliance
- Identify opportunities and implement them to optimise plant operations
- Understand the negative effect of reducing key services
- Discover where the best opportunities for cost savings lie and gain a competitive edge

LEAN AND EFFICIENT ENGINEERING IN THE PHARMACEUTICAL INDUSTRY

Do you want to avoid the impact of budget cuts whilst maintaining profitability?

Attend this event to understand best practice and learn how engineering departments can add value within their companies.

Industry leaders will present real-life examples of significant improvements delivered in operational efficiency whilst at the same time maintaining regulatory compliance. Such savings can be made by implementing cost-effective maintenance plans as well as applying best practice in calibration.

Maintaining a business position with pressures from overseas competitors, generic manufacturers and cost cutting is a real challenge. In this climate of austerity, there is no better time for engineers to prove the value they deliver to their business and to the environment.

THIS EVENT WILL ATTRACT:

- Engineering Department Managers
- Maintenance Managers
- Plant Engineers
- Equipment Engineers
- Reliability Engineers
- Project Engineers
- Lead Mechanical Engineers
- Improvement Engineers
- Production Engineers

TECHNICAL ADVANTAGES:

- Understand how to apply operational excellence and improve customer satisfaction
- Maintain and improve regulatory compliance
- Identify opportunities for optimising plant operations
- Understand how innovative thinking can benefit your organisation
- Enhance your operational efficiency by applying best-practice industry methods
- Develop more cost-effective maintenance plans as well as best practice in calibration

SPONSORSHIP AND EXHIBITION OPPORTUNITIES

Your involvement with our events is an effective way to get into the minds of key decision makers, helping you capture your chosen audience when they are in the frame of mind to do business.

Our flexible opportunities allow you to:

- Showcase new products
- Raise awareness of your operation
- Improve perception of your brand
- Influence other organisations' spending plans

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for Bulk Solids Handling Technology
at The University of Greenwich

LEAN AND EFFICIENT ENGINEERING IN THE PHARMACEUTICAL INDUSTRY

21 JUNE 2011

ONE BIRDCAGE WALK, LONDON, SW1H 9JJ

09:00 REGISTRATION AND REFRESHMENTS

09:30 CHAIRMAN'S WELCOME AND INTRODUCTION

09:40 LEAN PHARMACEUTICAL BUSINESSES – THE FUTURE

- Operations in the pharmaceutical industries face a number of major challenges and opportunities
- The business model is changing, with a focus on the delivered cost to the customer
- Lean operations and supply chains will be essential for survival
- Benchmarking existing performance and comparing it with world-class standards is a key enabling step to improvement and survival

Professor Roger Benson FEng, Chairman, Perceptive Engineering

Roger Benson is a Chemical Engineer with an MSc and PhD in Process Control. During his long career in the process industries, he held positions at ICI as Chief Engineer of Engineering Technology, head of the manufacturing technology capability and head of the control/electrical function. He also worked for ABB as the Technology Manager of ABB analytics and advanced solutions. In 1999 he was appointed a Fellow of the Royal Academy of Engineering. In 2008 he was a member of rae2008 Sub Panel 26 (Chemical Engineering). In 1999 he published the IChemE book on Benchmarking Process Manufacturing.

10:05 AIRCRAFT MAINTENANCE & OPERATORS; THE ACTIVE INGREDIENTS OF LEAN RELIABILITY

- How maintenance thinking has evolved
- Early pioneers of RCM
- Combining Lean with RCM to make value added maintenance
- Lean RCM at AstraZeneca Packaging Operations - Presented with Simon Lee; Maintenance Excellence Engineer, AstraZeneca Packing Operations, Macclesfield

Richard Kelly, Managing Director, EMS Ltd

Richard Kelly is the founder and Managing Director of EMS. He has a BSc Hons in Chemical & Process Engineering and is a renowned UK expert in application of lean reliability centred maintenance processes. He has 25 years' manufacturing, maintenance and engineering experience. His career background includes FMCG industry originally with Mars, then Printing & Packaging and Chilled Foods.

Richard has trained several hundred engineers, maintainers and production team members in the theory and application

of Lean RCM and has facilitated successful asset reliability improvement programmes in diverse sectors including food, pharmaceuticals, plastics, printing and utilities.

10:30 Q&A SESSION

10:45 COFFEE

11:10 HOW TO DEVELOP A WINNING STRATEGY WITH VALUE DRIVEN MAINTENANCE

- Learn how a maintenance organisation can add economic value to the business
- Understand how the maintenance performance can be measured with KPIs and benchmarks
- Discover the latest best practices in maintenance and asset management
- Observe how other pharmaceutical companies have established impressive business results using VDM

Mark Haarman, Managing Director, Mainnovation

Mark Haarman has a Master's in Mechanical Engineering and an MBA. After working at Ernst & Young Consulting for several years, he established Mainnovation in 2000, which is now one of the leading maintenance consultancies in the Benelux and the inventor of the Value Driven Maintenance® methodology. In the course of his career, Mark has become a maintenance expert in various maintenance methods (eg RCM and TPM), benchmarking and optimising maintenance organisations and selecting and implementing EAM/CMMS systems. He was involved in projects in various pharmaceutical industries. Mark is the author of the book Value Driven Maintenance®, New faith in maintenance.

11:55 EFFICIENT INNOVATION WITH TRIZ

- How to generate high-quality ideas fast
- IP development and patent protection
- Introduction to the TRIZ approach to innovation and problem-solving

Lilly Haines-Gadd, Managing Director, Oxford Creativity

Lilly Haines-Gadd is an experienced TRIZ practitioner, and delivers training and facilitates innovative problem-solving workshops full time for Oxford Creativity. She has worked with diverse teams across many areas of engineering, including aerospace, defence, energy, oil; but has worked particularly closely with a team of medical device engineers within the pharmaceutical industry for several years, working on projects such as generating innovative design concepts, solving design and manufacturing problems, strengthening IP and patent breaking.

12:30 Q&A SESSION

12:45 LUNCH



A VARIED AND INTERESTING
SNAPSHOT OF THE PRESENT-
DAY PHARMACEUTICALS
INDUSTRY AND THE
CHALLENGES IT FACES.

KEN BELL

ABB ENGINEERING SERVICES,
PRINCIPAL CONSULTANT
SPEAKING ABOUT PHARMACEUTICAL
MANUFACTURING SURVIVAL IN
THE 21ST CENTURY SEMINAR 2010

13:35 A RISK BASED APPROACH TO CALIBRATION MANAGEMENT

- Overview on the concepts of the above guide for the pharmaceutical industry
- Guidance in setting up a calibration management system, which will give a structured approach to:
 - Instrument risk assessment
 - Calibration program management
 - Documentation
 - Corrective actions essential to regulatory compliance
- The guide has been updated to address the changing environment, while still satisfying international GxP regulatory expectations

Mark Foss, Head of Engineering, Lonza UK

Mark Foss is a Fellow of the Institute of Measurement and Control and the Institution of Engineering and Technology. He was the former head of Engineering at Boehringer Ingelheim from 1999 – 2010 and has 35 years experience in the Pharma and Nuclear Industries.

Mark is part of the Council and Steering Committee of ISPE GAMP as well as being a permanent member of the ISPE Technical Documents Steering Committee. He is also Chairman of GAMP UK, Calibration Special Interest Group (SIG), Good Engineering Practice SIG and the Decommissioning Task Team. All of these groups have or are in the process of producing industry guidance.

14:15 GSK ENERGY REDUCTION PROGRAMME

- GSK's Global Climate Change & Energy Reduction Programme
- Targets, objectives, progress
- Programme organisation, resourcing, funding, use of consultants/suppliers
- Energy-saving projects and techniques

David Featherston, Head of Energy Management, Manufacturing, GSK

David is a Fellow of the Institute of Chemical Engineers, a Chartered Engineer, Chartered Scientist and a graduate of Imperial College London. His background includes Process Engineering and Technical & Project Management. David has spent 27 years with GSK working at manufacturing sites in the UK and Singapore. His current role involves travel to many of the 80 worldwide manufacturing sites in GSK.

14:40 SUSTAINABLE COMPETITIVE ADVANTAGE THROUGH A CULTURE OF OPERATIONAL EXCELLENCE

- Antidotes to operational excellence initiative failure
- Simplicity as a means to success
- Realising your organisation's potential

Nick Ustianowski, Product Facilitator and Master Black Belt, Pfizer Ireland

Nick Ustianowski is a Product Facilitator and Master Black Belt in Six Sigma and Lean.

He has been instrumental in the development of a high-performing team based business model and organisation, that has consistently outperformed more traditional organisations.

Nick has a background in operations management, and has consistently sought opportunities to deliver real and sustainable competitive advantage.

He is currently employed by Pfizer and prior to this worked for Abbott Laboratories in Production and Laboratory Management.

15:05 Q&A SESSION

15:20 TEA BREAK

15:45 CONDITION BASED MAINTENANCE APPLIED TO A SECONDARY PROCESS PLANT

Thomas Clayton, Technical Director, Monition

Tom Clayton has been employed by Monition for over 12 years and remains involved in both the application and strategic development of reliability and performance improvement methods. During his employment at Monition he has attained a master's degree in Maintenance Engineering and Asset Management. Tom has a wealth of experience in Condition Based Maintenance (CBM) technologies and maintenance development techniques. Tom has helped to both develop and adopt relevant approaches of reliability based maintenance to different applications in order to achieve the full benefits that these techniques and technologies can provide.

16:10 IF THEY CAN, WHY CAN'T WE? (IT'S DIFFERENT IN PHARMACEUTICALS – AN ENGINEER'S VIEW)

- Compared with leading-edge industries, the pharmaceutical industry is about 30 years behind in terms of manufacturing efficiency and effectiveness and the application of quality systems that ensure the achievement of "right first time, right every time" quality
- The presentation will show that this need not be the case

Robert J (Bob) Hayes, Director, SeerPharma (UK)

Bob Hayes has worked in the pharmaceutical industry for 30 years in production and engineering management, new product development, factory design, supply chain management, validation and a variety of support functions. He has a special interest in the use of modern quality and manufacturing methodologies, including risk management. He has also worked in a range of other industries, including aerospace, precision engineering, FMCG, insurance and e-commerce.

Bob is Vice-Chair of the Pharmaceuticals Committee, Institution of Mechanical Engineers. He is a Chartered Engineer and a Fellow of IMechE and IET. He runs the UK arm of SeerPharma – a provider of a broad range of GxP training, consultancy and product solutions to the healthcare industry and its suppliers.

16:35 Q&A SESSION

16:50 CHAIRMAN'S CLOSING STATEMENT

17:00 CLOSE OF SEMINAR

This programme is subject to change.

The Institution is not responsible for the views or opinions expressed by individual speakers.

Process Industries Division; Pharmaceutical Committee Organising Committee:

David Palmer, Maintenance Manager, Lonza UK

The Committee would like to thank the following supporters:

Engineering in Medicine and Health Division
Manufacturing Industries Division
Safety and Reliability Group

FORWARD THINKING

19 MAY 2011

TEESSIDE

REDUNDANT PLANT: ENGINEERING AND SAFETY

If you have to take a plant out of service, make sure you're fully aware of the engineering and safety implications. This seminar will enable you to prepare, plan and specify the work necessary for when a plant is to be taken out of service.

www.imeche.org/events/S1568

11 OCTOBER 2011

LONDON

THE APPLICATION OF NANOTECHNOLOGY IN THE FOOD AND FOOD PACKAGING INDUSTRIES

This one day seminar will help you to understand Nanotechnology and the impact that it has within the Food Industry. Key industry professionals will discuss in depths the different types of packaging and how you can approach and implement the technology, as well as current and future legislation and controls.

www.imeche.org/events/S1569

19-20 OCTOBER 2011

LONDON

CARBON CAPTURE AND STORAGE THE LEADING EDGE

This seminar will present on the leading edge of carbon capture technology. Key industry leaders will cover the latest position and the implications across the regulatory, financial and process technology spectra.

www.imeche.org/events/S1606

TUESDAY 25 OCTOBER 2011

LONDON

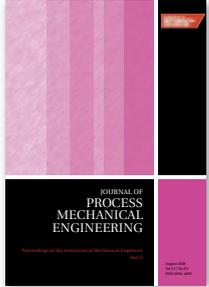
PROCESS SAFETY: AVOIDING MAJOR DISASTERS ARE YOU DOING ENOUGH?

Industry thinking in the effective management of major hazards has moved on significantly; stakeholders are becoming less tolerant of risk, and expect to see organisations minimise their exposure to such events. This seminar will enable businesses to understand ways they can develop a 'safety' culture and manage major accident risk more effectively.

www.imeche.org/events/S1616

JOURNALS

Professional Engineering Publishing is the publisher for the Institution of Mechanical Engineers. For more information about our magazines, journals and conference proceedings visit www.uk.sagepub.com/imeche



You may be interested in:

- **Journal of Process Mechanical Engineering (Proceedings of the Institution of Mechanical Engineers, Part E)**

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The Institution of Mechanical Engineers is the professional body representing over 94,000 mechanical engineers worldwide. As a Learned Society, the Institution seeks to be a source of considered, balanced and impartial information.

Institution of Mechanical Engineers

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Institution of MECHANICAL ENGINEERS

Manufacturing Excellence promotes and supports the best of manufacturing in the UK through:

- An in-depth self-assessment of your business with a FREE benchmarking report
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LEAN AND EFFICIENT ENGINEERING IN THE PHARMACEUTICAL INDUSTRY. BOOKING FORM

One form per person only (forms may be photocopied)

For added convenience, you can also book online at:

www.imeche.org/events/S1586

REGISTRATION (PLEASE COMPLETE IN CAPITALS)

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Membership No _____ Institution _____
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Do you have any special requirements? _____

How did you hear about this event? Direct Mail Website Colleague Other

FEES AND CHARGES (PLEASE COMPLETE THE APPROPRIATE BOX)

Registration fees include entry to the sessions, refreshments, lunch and a copy of the event proceedings.

	Fee	VAT	Total	£
Institution of Mechanical Engineers Member	£245.00	£49.00	£294.00	_____
Member of Supporting Organisations	£245.00	£49.00	£294.00	_____
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Extra Items				
Invoice Charging (if applicable)	£10.00	£2.00	£12.00	_____
			Total	_____

Please do not send payment separately from this booking form.

By submitting this registration form, you will be indicating your consent to periodically receiving information on our events and publications, unless you indicate an objection to receiving such information by ticking this box

PAYMENT DETAILS

Payment must accompany this registration form. Registration will be confirmed only on receipt of full payment.

Please indicate method of payment: Cheque Credit Card BACS Invoice (see below)

Cheques should be made payable to IMechE and crossed. Please note overseas 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.

Credit Card: Visa MasterCard (please note we cannot accept American Express, Diners Club or Maestro)

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Amount to be Deducted _____ Signature _____

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BACS bank transfers can be made to: IMechE Current Account, NatWest Charing Cross Branch.

Sort code: 60-40-05 Acc No: 00817767

A copy of the draft must accompany this form.

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Fax +44 (0)20 7222 9881

For registration enquiries call
Tina Churcher on +44 (0)20 7973 1258
or email t_churcher@imeche.org

Please read the information listed below as each booking is subject to IMechE's standard terms and conditions.

Conditions of Booking

Completed application forms should be returned to the address below, along with the correct payment. Attendance at the event will be confirmed on receipt of the full balance. All participants are advised to bring a copy of their confirmation with them on the day, to ensure the fastest possible entry.

Special Requirements

Please inform us of any special requirements ie dietary or access, on the relevant section of this form.

Cancellation

For a refund (minus £25 + VAT admin charge), cancellations must be received at least 14 days prior to the event. Replacement delegates are welcome at any time. The IMechE reserves the right to cancel any event. In this case, the full fee will be refunded unless a mutually convenient transfer can be arranged. In the event that IMechE postpones an event for any reason and the delegate is unable or unwilling to attend on the rescheduled date, you will receive a full refund of the fee paid.

IMEchE is not responsible for any loss or damage as a result of a substitution, alteration or cancellation/postponement of an event. IMechE shall assume no liability whatsoever in the event this conference is cancelled, rescheduled or postponed due to a fortuitous event, Act of God, unforeseen occurrence or any other event that renders performance of this conference impracticable, illegal or impossible. For purposes of this clause, a fortuitous event shall include, but not be limited to: war, fire, labour strike, extreme weather or other emergency.

Please note that while speakers and topics were confirmed at the time of publishing, circumstances beyond the control of the organisers may necessitate substitutions, alterations or cancellations of the speakers and/or topics. As such, IMechE reserves the right to alter or modify the advertised speakers and/or topics if necessary without any liability to you whatsoever. Any substitutions or alterations will be updated on our web page as soon as possible.

Supporting Organisations

Members of the supporting organisations listed on page 2 can register at our members' rates.

Venue

This event will be held at 1 Birdcage Walk, Westminster, London, SW1H 9JJ
Details will be sent upon registration.

Liability

The organisers do not accept liability for any injuries or losses of any nature incurred by delegates and /or accompanying persons, nor for loss or damage to their luggage and/or personal belongings.

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Enquiries

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email a_kahouadji@imeche.org

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