

# Pharmaceutical Manufacturing Survival in the 21st Century

## Programme and Registration Brochure

5 June 2008

IMechE, 1 Birdcage Walk, London

[www.imeche.org/events/S1323](http://www.imeche.org/events/S1323)



Organised by the Pharmaceutical Committee  
Supported by Manufacturing Industries Division

Co-sponsored by:



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# Pharmaceutical Manufacturing Survival in the 21st Century

Ever-increasing cost pressures mean that a number of companies have moved their manufacturing operations to countries with lower labour costs. It doesn't have to be this way, not if established world-class methodologies are applied to pharmaceutical plants.

Many examples of best practice in other industries may be applied easily to the pharmaceuticals industry. Companies that have adopted these practices have improved performance significantly.

While regulatory compliance in the UK pharmaceutical manufacturing industry is generally very high, manufacturing efficiency is often lacking due to high costs, excessive lead times and inventory, inefficient staffing, poor process control and reliability. This event will offer advice, solutions and best practice for manufacturing pharmaceuticals.

## Attending will help you:

- Benefit from lessons of best practice from other manufacturing industries
- Build a competitive edge
- Reduce manufacturing overheads
- Become more efficient
- Apply lean manufacturing principles to your organisation
- Learn about Process Analytical Technology (PAT) and how it can be of great benefit
- Automate your operation as far as possible
- Successfully manage the human factors of manufacturing
- Understand why outsourcing to India or the Far East is not as effective as we might think
- Meet, greet and network with key industry players
- Find collaborators for future projects

## Who should attend

This event will appeal to anyone in the pharmaceuticals and related industries eg biotech, medical devices, healthcare, contracting services, equipment and control systems supply, with responsibility for or interest in manufacturing, performance, quality and related fields. General engineers, senior managers, departmental heads, directors and senior technical staff from manufacturing, engineering and quality disciplines will all find this seminar invaluable.

## Exhibition and sponsorship

Why not take this opportunity to display an exhibition stand, or provide inserts about your company in the delegate packs? For more information contact Aman Duggal on 020 7973 1309 or email [a\\_duggal@imeche.org](mailto:a_duggal@imeche.org)

## Organising Committee

Miss Karen Stevenson    Catalent Pharmaceutical Solutions (Event Chair)

Eur Ing Robert J Hayes    SeerPharma (UK) Ltd

Eur Ing Paul Merrick    Pharmaceutical Committee Chairman

## PROGRAMME

5 June 2008

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**9:30     Registration**

**10:00    Chair's welcome**

**10:10    Keynote Speaker**  
**'Offshoring' life science production is not the only answer**

*Prof Roger S Benson, Perceptive Engineering Limited*

Standing still is not an option - it will inevitably lead to asset closures due to excess manufacturing capacity in Western Europe. The steps to closure are exacerbated by moves to offshore manufacturing. The paper will demonstrate by analysis that it is possible for life science manufacturers in Western Europe to compete with low labour-cost manufacturers.

The key steps are:

- Continuously invest and deliver 'lean' manufacturing and supply chains
- Automate as much as possible to reduce impact of Western European wages
- Actively invest in developing and building 'distributed agile plants'
- Focus on outstanding product quality and service delivered to the customer at competitive cost.

**10:40 The future is biological medicines – the process is the product**

*Dr Tony Bradshaw, bioProcessUK (BIA)*

- Building a potent technical capability
- Increasing competitiveness of UK manufacturing
- Developing the UK as the hub of bioprocessing education

**11:10 Coffee**

**11:30 Implementing PAT in a solid dose manufacturing plant**

*Mr Stephen Foster, SFC Consulting*

- Experience of monitoring moisture content in a fluid bed dryer
- Equipment and materials interface
- Key learning

**12:00 Flexible batch granulation by roller compaction**

*Dr Bindhu Gururajan, AstraZeneca R&D*

*Co-author: James Kraunsoe, AstraZeneca R&D*

- Dry granulation process suitable for handling heat and moisture-sensitive active pharmaceutical ingredients
- Understanding and modelling the process using mechanistic approach
- Small-scale simulation of the process for early development needs
- Process and product quality monitoring and control approach

**12:30 Discussion**

**13:05 Lunch break**

**14:05 Successful application of lean principles in the pharmaceutical industry**

*Mr Mark Colvin, Leanpal*

- Pharmaceutical manufacturers in the UK and Europe face a tough challenge from national and international competitors, particularly from co-packers and generic producers
- With the loss of patent protection and corporate cost-reduction programmes threatening the very existence of European production facilities, operations will need to rise to the challenge by adopting lean principles in order to survive
- This presentation explores some of the practical techniques being used in the industry to improve operational performance and outlines potential pitfalls in the implementation of lean

**14:35 People matter – human factors that influence performance in the manufacturing environment**

*Mr Brian Szukala, SeerPharma (UK) Ltd*

- The cost of human error cannot be ignored. Each year millions of pounds will be wasted by manufacturing companies through errors – many simple, some complex – but often the consequences can be serious, resulting in injury or death
- From errors in design through to processing or support functions, eg accounts or customer service department – errors are costing industry money
- Understanding the causes, analysing them when they do occur and preventing them re-occurring should be a management strategy adopted by all: Preventability + Sustainability = Growthability
- Introducing a new concept for effectively managing compliance by reducing error and changing behavior in the life science sector – bGMP® (behavioural GMP)

**15:05 Tea**

**15:25 How to become 'Factory of the Year'**

*Mr Mark Hulme, Reckitt Benckiser*

*Mr Garry Haswell, Reckitt Benckiser*

Reckitt Benckiser's pharmaceutical manufacturing facility in Kingston-upon-Hull won the Factory of the Year, Best Process Plant and People Management awards for 2007. Previously, the site won the Best Process Plant award in 2002

These awards, from The Cranfield University, School of Management in partnership with Works Management, include a number of criteria:

- Operating performance measures in comparison with other factories in the same industrial sector. Measures taken into account will include quality consistency, scrap/rework rates, speed of delivery, delivery reliability and productivity
- Rates of performance improvement
- The quality and effectiveness of the systems in place to ensure continuous improvement
- The quality of management leadership and strategic thinking
- The extent to which the factory meets the criteria for world-class manufacturing

In this discussion, we discover some of the guiding principles to achieve this sort of distinction, and on the way, gain business advantage in a competitive marketplace.

**15:55 Discussion session**

**16:30 Close of seminar**

The programme is subject to amendment.

# Pharmaceutical Manufacturing Survival in the 21st Century

One form per person only (forms may be photocopied)

For added convenience, you can also book online at [www.imeche.org/events/s1323](http://www.imeche.org/events/s1323)

## Registration (please complete in CAPITALS)

Family Name \_\_\_\_\_ Title (Mr, Mrs, Miss etc) \_\_\_\_\_

First Name \_\_\_\_\_ Job Title \_\_\_\_\_

Membership No. \_\_\_\_\_ Institution \_\_\_\_\_

Name of Organisation (for name badge) \_\_\_\_\_

Address for Correspondence \_\_\_\_\_

Town/City \_\_\_\_\_

Postcode \_\_\_\_\_ Country \_\_\_\_\_

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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	£
IMechE Member	£190.00	£33.25	£223.25	<input type="text"/>
Member of Co-Sponsoring Organisation	£190.00	£33.25	£223.25	<input type="text"/>
Non-Member	£230.00	£40.25	£270.25	<input type="text"/>
Student/Retired member	£ 55.00	£9.63	£64.63	<input type="text"/>
<b>Extra Items</b>				
Invoice Charging (if applicable)	£10.00	£1.75	£11.75	<input type="text"/>
			<b>Total</b>	<input type="text"/>

## 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 events and publications from IMechE **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 ☐ Eurocard ☐ (please note we cannot accept American Express, Diners Club or Maestro)

Card number \_\_\_\_\_ Valid from \_\_\_\_/\_\_\_\_/\_\_\_\_ Expiry Date \_\_\_\_/\_\_\_\_/\_\_\_\_

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Billing address of Cardholder (if different from above) \_\_\_\_\_

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Amount to be deducted \_\_\_\_\_ Signature \_\_\_\_\_

## Invoice Details (UK delegates only)

Delegates wishing to be invoiced must provide an order number. If your company does not use order numbers please include a formal request for invoicing on your company's letterhead. A charge of £10 + VAT will be made to cover additional administration costs. Invoices are payable on receipt and no alterations to these terms will be accepted.

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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.

A B C D E

5/6/2008

S1323



## 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.

## Co-Sponsoring Organisations

Members of the following organisations can register at IMechE members rates: The Royal Pharmaceuticals Society of Great Britain; The Association of the British Pharmaceutical Industry; The International Society for Pharmaceutical Engineering; Institution of Chemical Engineers

## Venue

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

## Insurance

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.

## Accommodation

We have arranged special discounted rates at local hotels via the Corporate Team. Our list of hotels will be forwarded upon receipt of your registration and payment.

If you wish to contact the Corporate Team directly, please use the details below and quote ID number 8488.

Tel: +44 (0) 20 7592 3050  
email: [events@corporateteam.com](mailto:events@corporateteam.com)  
[www.corporateteam.com/events/8488ME](http://www.corporateteam.com/events/8488ME)

## Enquiries

For event enquiries, please call Angela Theobald on +44 (0) 20 7973 1243 or email [a\\_theobald@imeche.org](mailto:a_theobald@imeche.org)

For registration enquiries call Tina Churcher on +44 (0) 20 7973 1258 or email [t\\_churcher@imeche.org](mailto:t_churcher@imeche.org)

## Complete and return this form to:

IMechE Registrations,  
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