



10th International Conference and Exhibition

# The Scale-Up of Chemical Processes

Plus an Optional half-day Short Course on  
**Developing Safe Chemical Reactions**

The Sheraton Vancouver Wall Center  
Vancouver, British Columbia, Canada  
7 - 10 July 2009

## Who Should Attend?

- Process Development & Production Chemists
- Chemical Engineers in industry
- Technical Managers
- Heads of Departments & Team Leaders

## Scientific Update Conferences 2009

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## Registration includes:

- Attendance at all the sessions
- Set of colour conference proceedings
- Lunch & refreshments daily
- Access to the exhibition
- Place at the Welcome Reception
- FREE Poster Board

**EARLY BIRD  
SAVE £200!**

Simply register by  
30 April 2009

## About the Organisers

Scientific Update is the leading international provider of conferences, training courses and consultancy services to the worldwide scientific community.

For twenty years, Scientific Update has been delivering focused continuing education for chemists and chemical engineers in the pharmaceutical, fine chemical, agrochemical, flavour and fragrance, and process chemistry markets.

Scientific Update is the acknowledged leader in its field.

## 10th International Conference and Exhibition

# The Scale-Up of Chemical Processes

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Whether you are developing a brand new process or optimizing an existing synthetic route, the aims are always the same:

- **Achieving** greater process efficiency, yield and throughput.
- **Eliminating** unsafe and non-green processes and materials.
- **Decreasing** the costs and number of steps involved.

Since the first conference in 1994, **The Scale-Up of Chemical Processes** has become the major international forum for the discussion of all these aspects of scale-up and more in the pharmaceutical, fine chemical and allied fields.

Key speakers will present case studies and examples of some of the pitfalls and problems they encountered and how they overcame them.

With unparalleled networking opportunities, this broad-based conference is the best place to learn about and discuss the latest novel ideas and techniques with the key people in the industry.

## How will you benefit from attending this conference?

- **Benefit** by learning from 16 speakers who will present important detailed case studies.
- **Save time.** Scientific Update always invites experts in their fields who can impart important information to you right now.
- **Learn** how your peers are developing solutions to common problems.
- **Meet and network** with the key people working in the chemical and pharmaceutical industries.
- **Gather important information** on technical developments and equipment.
- **Bring yourself up to date** on current developments and future trends.

**sciup@scientificupdate.co.uk    t +44 (0)1435 873062**

## Hear from an international panel of speakers, including:

**Dr Chris Cobley**, Chiretech Technology Ltd, A Subsidiary of Dr Reddy's Laboratories (UK) Ltd., UK  
Hydroformylation for the Production of Pharmaceutical Intermediates

**Dr Dan Bayston**, Almac Sciences, Northern Ireland  
The Challenges of Rapid Scale-Up: Quality, Quantity and Time

**Mr Emmanuel Gheerbrant**, Sanofi-Aventis, France  
Microreactors as a Knowledge Tool for Fast Designing of an R&D Process:  
Example of a Curtius and Cyclisation Coupled Reaction

**Dr Joe Hannon**, DynoChem, USA  
Mechanistic Modelling for Process Scale-Up

**Dr Stefan Hildbrand**, F Hoffmann-La Roche AG, Switzerland  
Process Development of the Synthesis of Carmegliptin

**Dr Donald Knoechel**, Pfizer Inc., USA  
Going Continuous

**Dr Andreas Pletsch**, BASF, Germany  
Custom Synthesis at BASF: Development of a Four-Step Stereoselective  
Synthesis of an API, Including the Transfer from Lab Scale to Commercial  
Production

**Dr Paul Quigley**, Shasun Pharma Solutions, Ltd, UK  
The Kinetic Resolution Tool: Optimisation, Scale-Up and Refinement of Cobalt  
Salen Chemistry and Catalytic Technology

**Dr Dominique Roberge**, Lonza AG, Switzerland  
Microreactor Technology: Reaction Design and Scale-Up Concept

**Dr Kostas Saranteas**, Sepracor Inc., USA  
Scale-Up Recycling of Key Raw Materials from a Resolution Process:  
Lessons from a Successful Post-Approval Submission

**Dr Fridtjof Schröder**, Givaudan Schweiz AG, Switzerland  
Processing Geogywood: New Routes and Efficiencies

**Dr Ulf Tilstam**, CMC Solutions, Belgium  
High P, T Plugflow Reactors in Process Development: Successes and Pitfalls

**Dr Johannes de Vries**, DSM Research, The Netherlands  
Process Intensification. The Use of Microreactors and Centrifugal Contact  
Separators for Continuous Catalytic Processes

**Dr Lorraine Murtagh**, Pfizer Ltd, UK  
Talk title to be confirmed

**Dr Peter Pochlauer**, DSM Fine Chemicals, Austria  
and

**Dr Bérengère Chevalier**, Corning SAS, France  
Scale-Up of Selective Nitration from Lab to Industrial Scale on Corning Advanced  
Flow Glass Reactors for Pharmaceutical Production Under cGMP Conditions

**Dr Muriel Nasso**, Membrane Extraction Technology Ltd, UK  
Solvent Nanofiltration in Organic Process Development:  
A Scaleable Separation Technology for Pharmaceuticals and Chemists

For complete programme information, visit our website

[www.scientificupdate.co.uk](http://www.scientificupdate.co.uk)

## Timings

### Tuesday 7 July

19.15-19.30 Registration

19.30-21.00 Welcome Reception

### Wednesday 8 July

8.55 -17.45 Conference in session

### Thursday 9 July

8.55-12.45 Conference in session

14.00-17.30 Optional Short Course

### Friday 10 July

8.55-12.45 Conference in session

12.45 Conference ends

## Venue



### **Sheraton Vancouver Wall Centre**

1088 Burrard Street  
Vancouver  
British Columbia  
V6Z 2R9

Tel: +1 604 893 7167

Fax: +1 604 331 1001

[www.wallcentre.com](http://www.wallcentre.com)

A limited number of rooms have been reserved at the hotel at the special conference rate of Can\$246 per room (single occupancy) per night. A hotel booking form will be sent to you when you register.

### **Terms and Conditions**

Please complete and return the form overleaf with full payment details. Cancellation must be sent in writing. If notice of a cancellation is received more than thirty days prior to the event, there will be a £300 cancellation fee. If notice is received less than thirty days before the event, all fees are forfeited. Substitutions are permitted at any time. Scientific Update reserves the right to alter the arrangements as described due to unforeseen circumstances. For the full terms and conditions, please see our website.

## Optional Short Course

# Developing Safe Chemical Reactions

9 July from 14.00 - 17.30

Tutor: **Dr Jasbir Singh**, HEL Ltd

This short course focuses on the experimental methods and data interpretation for the development and safe scale-up of chemical reactions.

The course will include an outline of small scale screening, reaction calorimetry and adiabatic testing, but the focus will be on applications of the data.

This will include many case studies illustrating the problems that have arisen in industry.

### Course Outline

Reactive Hazard Accidents

Experimental Thermal Screening

Understanding the **DESIRED** Reaction

Scaling-up Exothermic Reactions

Understanding the **UNDESIRE**  
Reaction

# The Scale-Up of Chemical Processes

7 - 10 July 2009

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Company \_\_\_\_\_

Title (PROF/DR/MR/MRS/MISS) \_\_\_\_\_

First Name \_\_\_\_\_

Surname \_\_\_\_\_

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## Delegate Fees per person

Early Bird Fee £995.00  
(Register by 30 April 2009).

Standard Fee £1195.00

Academic Fee £450.00

I would like to attend the optional short course - (Course Fee £250)

## Payment

Please invoice my company

I would like to charge the fee(s) to my credit card.



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Date \_\_\_\_\_

## Exhibitor Fees

Exhibitor Package £2000.00  
(includes one exhibitor attending).

Additional exhibitors at £500 per person  
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## Presentation

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