

Scientific Update | Training Courses 2010



# Organic Synthesis:

A Toolkit for the Industrial Chemist



1 - 3 December 2010  
The Fira Palace Hotel  
Barcelona, Spain

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## General Information

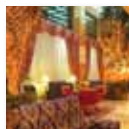
The course will begin with registration from 8.45am on Wednesday 1 December and ends at approximately 5pm on Friday 3 December.

The organisers reserve the right to change the published programme of events and course content as circumstances dictate.

## Fee

£1295.00 including lunch & refreshments, the course dinner on 1 December and comprehensive course manual.

## Venue



The Fira Palace Hotel  
Avda Ruis i Taulet, 1-3  
08004 Barcelona  
Spain

Tel: +34 934 262 223

Fax: +34 934 248 679

[www.fira-palace.com](http://www.fira-palace.com)

Hotel Fira Palace is centrally located in Barcelona, very near to the well known Plaza España, and a short distance away from the famous Ramblas and the sea front. The Hotel is easily accessible, being 15-20 minutes from the International Airport by taxi.

A limited number of rooms have been reserved at the hotel for the special rate €145+ taxes per night, double room for single use, including breakfast. Double rooms will be offered at the rate of €155 plus taxes, including breakfast. A hotel booking form will be sent when you register – please use this form to make your reservation directly with the hotel.

## Introduction

Organic synthesis is a discipline which has been in existence for more than a century, but despite this longevity, it is, in many ways, a young science with many challenges still to be met and yet to be overcome. It is a major facilitator for the chemical industry and a significant contributor to society, applications being found in the pharmaceuticals, fine chemicals, agrochemicals, speciality chemicals, electronics and other related industries. There is a plethora of synthetic techniques and technologies, old and new, available to the organic chemist, and this can be somewhat bewildering.

This three-day course, written and presented by highly experienced chemists from the pharmaceutical and fine chemical industry, provides a modular overview of the most important tools available for the organic chemist working in industry. The concepts are illustrated with an abundance of industrial and academic case studies from literature, conferences and private communications. The lectures are interspersed with interactive problem solving sessions, enabling participants to share in the problem solving and troubleshooting typically experienced when practising organic chemistry in an industrial environment.

## Course Content

Catalytic Hydrogenation  
Other Reduction Methods (hydride reductions)  
Industrially Useful C-C Bond Forming Reactions  
Selected Aspects of Oxidation  
Resolution Methods  
Biocatalysis  
Phase Transfer Catalysis  
Multi Component Reactions  
Metathesis  
Hazardous Chemical Reactions  
Green Chemistry Approaches and Organic Reactions in Water  
Case Studies in Industrial Synthesis

Plus tutorials

“Very interesting course...”  
Chiesi Farmaceutica SpA

## Tutors



**Dr Will Watson**

Will Watson gained his PhD in Organic Chemistry from the University of Leeds in 1980. He joined the BP Research Centre at Sunbury-on-Thames and spent five and a half years working as a research chemist on a variety of topics including catalytic dewaxing, residue upgrading, synthesis of novel oxygenates for use as gasoline supplements, surfactants for use as gasoline detergent additives and non-linear optical compounds. In 1986 he joined Lancaster Synthesis and during the next 7 years he was responsible for laboratory scale production and process research and development to support Lancaster's catalogue, semi-bulk and custom synthesis businesses. In 1993 he was appointed to the position of Technical Director, responsible for all Production (Laboratory and Pilot Plant scale), Process Research and Development, Engineering and Quality Control. He helped set up and run the Lancaster Laboratories near Chennai, India and had technical responsibility for the former PCR laboratories at Gainesville, Florida. He joined Scientific Update as Technical Director in May 2000. He has revised and rewritten the "Chemical Development and Scale Up in the Fine Chemical Industry" course and gives this course regularly around the world. He has been instrumental in setting up and developing new courses such as "Interfacing Chemistry with Patents" and "Making and Using Fluoroorganic Molecules". He is also involved in an advisory capacity in setting up conferences and in the running of the events. He is active in the consultancy side of the business and sits on the Scientific Advisory Boards of various companies. Will can be contacted by email at [will@scientificupdate.co.uk](mailto:will@scientificupdate.co.uk)



**Dr John Knight**

John Knight gained a first class honours degree in chemistry at the University of Southampton, UK. John remained at Southampton to study for his PhD in synthetic methodology utilizing radical cyclisation and dipolar cycloaddition chemistry. After gaining his PhD, John moved to Columbia University, New York, USA where he worked as a NATO Postdoctoral Fellow with Professor Gilbert Stork. John returned to the UK in 1987 joining Glaxo Group Research (now GSK) as a medicinal chemist, where he remained for 4 years before moving to the process research and development department at Glaxo, where he remained for a further 3½ years. During his time at Glaxo, John worked on a number of projects and gained considerable plant experience (pilot and manufacturing). In 1994 John moved to Oxford Asymmetry (later changing its name to Evotec and most recently to Aptuit) when it had just 25 staff. John's major role when first at Oxford Asymmetry was to work with a consultant project manager to design, build and commission a small pilot plant, whilst in parallel developing the chemistry PRD effort at Oxford Asymmetry. The plant was fully operational within 18 months, operating to a 24h/7d shift pattern. John continued to run the pilot plant for a further 3 years, during which time he had considerable input into the design of a second plant, which was completed and commissioned in 2000. After an 18-month period at a small pharmaceutical company, John returned to Oxford in 2000 (by now called Evotec) to head the PRD department. John remained in this position for 6.5 years, during which time he assisted in its expansion, established a team to perform polymorph and salt screening studies and established and maintained high standards of development expertise across the department. John has managed the chemical development and transfer of numerous NCE's into the plant for clients and been involved in process validations. He joined Scientific Update in January 2008 as Scientific Director. Email: [john.knight@scientificupdate.co.uk](mailto:john.knight@scientificupdate.co.uk)

## Who Should Attend?

**Process Chemists** wishing to maximise their knowledge and understanding of the chemical technology being applied in industrial organic synthesis

**Medicinal Chemists** wishing to keep their industrial synthetic chemistry know-how at the cutting edge

**Production Chemists** wishing to maintain their awareness of emerging industrial chemical technologies

**Analytical Chemists** who wish to gain a broader appreciation of organic chemistry used in industry

**Chemical Engineers** wishing to maintain their awareness of emerging industrial chemical technologies

**Experienced Chemists** looking to refresh and/or augment their knowledge of industrial organic synthesis

**Students** who are about to enter industry and can obtain company sponsorship

**Young Chemists** who have just started work in industry as organic chemists

**Managers** who might benefit from an overview of the chemical technology available for use in the pharmaceutical, fine chemical and allied industries today

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@ £1295.00  
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**For late applications** please register on line at [www.scientificupdate.co.uk](http://www.scientificupdate.co.uk) or fax the completed registration form, including credit card payment information.

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