

## **Course Lecturer – Tim Trigg**

Tim is Business Development Director for DOP Solutions Ltd, a technically based instrument and training company focussed on delivering solutions for all HEPA filter systems and cleanrooms. Tim's recent career history spans 14 years with GlaxoSmithKline, based in the UK. During this period his experience has developed in operational functions of QA/QC, engineering, production and business process (lean sigma). He holds qualifications in Engineering and Pharmaceutical Sciences, and is a member of the UK Institute of Healthcare Engineering and Estates Management and the Institute of Operations Management. He directed GSK sterilisation practices as an Authorised Person (APS) and spent many years focused on developing and managing validation standards for cleanroom facilities to FDA and MHRA standards (ISO). During this part of his career he supported the UK BSI committee develop ISO14644 for test methods for clean environment validation. He has developed validation standards, policies and procedures for all processes from pharmaceutical microbiology, sterilisation, engineering and utilities, and production control.

## **The course was written and devised by Bill Whyte**

Bill Whyte is a former Research Fellow at Glasgow University. He has been involved with cleanrooms for over 35 years and has the useful qualifications of a BSc in microbiology and a DSc in mechanical engineering. He has published over 120 reports and papers on contamination control and cleanroom design. He has edited a book 'Cleanroom Design', published as a second edition in 1999, and wrote the book 'Cleanroom Technology – the Fundamentals of Design, Testing and Operation', published in 2001. He is a member of British and International standards committees writing the new International Cleanroom standards. He has extensive experience as an industrial consultant.

## **Lecture Course and Exam**

The lecture course and exam will be held at the Carnegie Court Hotel just north of Dublin in Swords. It is an easy hotel to get to by air or road. Instructions will be sent with confirmation of the booking.



# **AN ADVANCED COURSE ON CLEANROOM TECHNOLOGY (LECTURE ONLY)**

**Wednesday 24 March 2010**

**Carnegie Court Hotel**

**SWORDS , DUBLIN**

This course has been presented in the past by Bill Whyte for over fifteen years, and attended by thousands of people. Those attending the course will receive the 100-page course manual that is a valuable reference aid. It is also possible to purchase, at a discounted price, his 320 page book; this covers the course in greater detail. The course is as follows:

#### **Basic design principles**

Necessity for cleanrooms  
History of cleanrooms  
Types of cleanrooms  
and workstations  
High efficiency filtration

#### **Specification and Validation**

Cleanroom standards – FS209,  
ISO14644  
Pharmaceutical standards  
Validating and monitoring a  
cleanroom

#### **Cleanroom Clothing**

How cleanroom clothing works  
Correct attire  
Gloves and masks

#### **Cleanroom Practices**

Cleanroom disciplines  
Entry Procedures  
Cleaning practices

**0900-1000 Registration**

**1000 - 1245 Cleanroom Technology 1**

**1245 - 1400 Lunch (provided)**

**1400 - 1630 Cleanroom Technology 2**

**NOTE: A CTCB Certificate in Cleanroom Technology can be obtained by sitting a written exam after the course. Further details are available from the CTCB Co-ordinator ICS.**

**The course will be held at the Carnegie Court Hotel Swords, Co. Dublin. Full details of how to get to the Hotel will be sent with your booking acknowledgement**

## **APPLICATION FORM**

### **Cleanroom Technology – Wednesday 24 March 2010**

Please reserve places for the following people:  
(Note. Bookings will not be accepted without appropriate funds or a Company PO.)  
Name(s):

Company:

Address:

Tel:

Email:

Purchase Order No.:

Send invoice to (if different from above):

Credit Card details \_\_\_\_\_ Expiry \_\_\_\_\_

Email address necessary for credit card payment

**Cheque for £ attached**

**Price per delegate (inc. lunch and tea/coffee) is €395.00**

**Non-members of the ICS will be required join the Society at a cost of €60.00**

**All bookings will be confirmed by 14 March 09. After this date the fee is not refundable**

**A copy of the book 'Cleanroom Technology – Design, Testing and Operation' can be ordered at a discounted price of €82.00 (usual price €105).**

**Please return to CTCB Co-ordinator, Fernie Technical Services ,  
Tawin Maree ,Oranmore Galway .  
Tel 091 790693 Fax 091 790694 email :emat@iol.ie**