



**Second Modelling Training School**  
**27 March 2013**  
**Edinburgh, UK**

**Organisers**

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## Introduction to QNANO

QNano is a Research Infrastructure for nanosafety assessment. QNano's core aim is the creation of a 'neutral' scientific and technical space in which all stakeholder groups can engage, develop, and share scientific best practice in the field. Initially it will harness resources from across Europe and develop efficient, transparent and effective processes. Thereby it will enable provision of services to its users, and the broader community, all in the context of a best-practice ethos. This will encourage evidence-based dialogue to prosper between all stakeholders. However, QNano will also pro-actively seek to drive, develop and promote the highest quality research and practices via its Joint Research Activities (JRA), Networking Activities (NA) and provision of Transnational Access (TA) functions, with a global perspective and mode of implementation. Further information about QNANO can be found on the [project website](#).

## First Modelling Training School: March 2012

The first QNano Modelling Training School was held as part of the Joint NanoImpactNet-QNano Integrating Conference at the University College of Dublin, Ireland, from the 27<sup>th</sup> February to 2<sup>nd</sup> March 2012. The school was well received, attracting over 50 participants from a diverse range of backgrounds, including academia, industry and governmental organisations. The focus of the school was to provide training in the following aspects of modeling: 1) Workplace Exposure Modelling and its Application to Nanomaterials; 2) Environmental Modelling and its Application to Nanomaterials; and 3) Physiologically-Based-Pharmacokinetics (PBPK) Modelling and its Application to Nanoparticles. Further detail on the first modeling training school is available [here](#).

## Second Modelling Training School: March 2013

### ***Date and venue***

Building on the success of the first training school, the second QNano modelling training school will be held on the 27<sup>th</sup> March 2013 at the Edinburgh Training & Conference Venue (ETCV). ETCV is based at 16 St Mary's Street, Edinburgh – in the heart of the city's beautiful historic Old Town, just off the Royal Mile and minutes from Waverley Train Station. For a location map and directions to the venue from Edinburgh Airport or Waverley Train Station, visit the [ETCV website](#).

### ***Scope***

It is intended that the second school will provide participants with training on the use of models in three core areas: i) Modelling of dose-response relationship (in vitro/in vivo); ii) Extrapolation of Exposure-Dose-Response relationship from in vitro/in vivo/humans; and iii) Quantitative-Structure-Activity-Relationship (QSAR) models.

The school will consist of lectures from experts in these fields, accompanied by interactive sessions in which participants are given a demonstration of some of the modelling tools and have an opportunity to work on 'hands-on' case examples.

The training school will therefore be undertaken in a computer laboratory setting. Participants will be provided with a PC to enable them to take part in the interactive sessions.

## Target Audience

The workshop will be opened to a maximum of 40 participants. The target audience is researchers from a range of backgrounds (academia, industry, consulting), from beginner to professional, with an interest in learning how to use modelling tools to predict the safety of nanomaterials.

## Draft Agenda

Time	Topic	Lecturer
08:15-08:45	<i>Registration</i>	
08:45-09:00	Welcome & Introduction	Lang Tran, IOM
09:00-10:30	Teaching Session: Modelling of dose-response relationship (in vitro/in vivo) & extrapolation of exposure-dose-response relationship from in vitro/in vivo/humans	Laura MacCalman, IOM
10:30-11:00	<i>Coffee Break</i>	
11:00-12:30	Interactive Session: Demonstration of Exposure-Dose-Response relationship modelling and hands-on examples	Laura MacCalman & Lang Tran, IOM
12:30-13:30	<i>Lunch Break</i>	
13:30-15:00	Teaching Session: Quantitative-Structure-Activity-Relationship (QSAR) models	Xue Wang, University of Leeds
15:00-15:30	<i>Coffee Break</i>	
15:30-17:00	Interactive Session: Demonstration of QSAR modelling and hands-on examples	Xue Wang, University of Leeds
17:00-17:30	Discussion/ Question and Answer Session	Chaired by Lang Tran
17:30	<i>End of Training School</i>	

## Registration

The school is free to attend, and open to a maximum of 40 participants. Please complete the [online application form](#) to register. Your place on the training school will then be confirmed via email. When all of the available places have been filled, names will be placed on a reserve list and those persons will be notified should a place become available.

## **Accommodation**

There are many nice hotels and bed and breakfasts in Edinburgh, as well as self-catering accommodation. Those listed below are within walking distance of the training venue.

### **Fraser Suites Edinburgh**

12-26 St Giles Street  
Edinburgh, EH1 1PT  
Tel: +44 131 221 7200

<http://edinburgh.frasershospitality.com/>

Quote "Edinburgh Training and Conference Venue" for a discounted corporate rate.

### **Holyrood apartHOTEL**

1 Nether Bakehouse,  
Holyrood,  
Edinburgh, EH8 8PE  
Tel: +44 131 524 3200

<http://www.theedinburghcollection.com/holyroodaparthotel/>

Quote promo code 'ETCHAH' for a discounted corporate rate.

### **Jury's Inn Edinburgh Hotel**

43 Jeffrey Street,  
Edinburgh, EH1 1DH  
Tel: +44 131 200 3300

<http://edinburghhotels.jurysinns.com/>

Quote "Edinburgh Training and Conference Venue" for a discounted corporate rate.

### **Holiday Inn Express Edinburgh Royal Mile**

300 Cowgate,  
Edinburgh, EH1 1NA  
Tel: +44 131 524 8400

[http://www.hiexpress.com/hotels/us/en/edinburgh/edbrm/hoteldetail?cm\\_mmc=mdpr-\\_-GoogleMapsUK--ex--edbrm](http://www.hiexpress.com/hotels/us/en/edinburgh/edbrm/hoteldetail?cm_mmc=mdpr-_-GoogleMapsUK--ex--edbrm)

Quote "Edinburgh Training and Conference Venue" for a discounted corporate rate.

### **Raddison Blu Hotel Edinburgh**

80 High Street  
The Royal Mile  
Edinburgh, EH1 1TH  
Tel : +44 131 473 6590

<http://www.radissonblu.co.uk/hotel-edinburgh>



## ***Outputs***

Training materials from the modelling school will be made available for inclusion in the [QNano Knowledge Hub](#), which is intended to be a centralised resource to address the training and outreach needs in the area of processing, analysis and characterisation of nanomaterials for use in biological applications, focusing initially on the priority needs of young researchers, regulators and industry researchers and safety managers.

## ***Contact***

If you have any questions regarding the training school, please contact Sheona Read, IOM ([sheona.read@iom-world.org](mailto:sheona.read@iom-world.org)).