

Scientific induction sessions

(check with your supervisor which of these sessions you should attend – **you will not be able to use any specialist equipment unless you have attended the relevant induction session below**)

The following sessions will be held from 2pm on Monday 3 October in the Wolfson Seminar Room, CRL – open to all Part IIs and graduate students

| | | |
|---------------|---|---------------------------|
| 2.00-2.45pm | Introduction to X-Ray Crystallography A short introduction to the single crystal X-ray crystallography service suitable for all Part II and new DPhil students. This session is relevant to chemists doing synthetic work in all sections of the Department. | Dr Richard Cooper |
| 2.45-3.30pm | Introduction to NMR Spectroscopy facilities (organic) The NMR induction session will introduce the NMR staff, instruments and facilities available to support research in organic chemistry/chemical biology in the CRL. It will explain how these can be accessed, the training that is required to use the instruments, and will introduce the NMR Submission Service provided by the NMR staff. There will also be the opportunity to sign-up for the compulsory introductory training sessions. <i>It is essential that anyone wishing to make use of the NMR facilities must attend this induction session</i> | Dr Tim Claridge |
| 3.30pm-4.15pm | Introduction to Mass Spectrometry facilities The Mass Spectrometry induction session will introduce researchers to the mass spectrometry facilities available to support research in organic chemistry, inorganic chemistry and chemical biology. It will explain how these can be accessed including the Open Access Mass spectrometer system, training to use LC/MS and GC/MS and how the sample submission services are arranged by the mass spec staff. <i>It is essential that anyone planning to use the Mass Spectrometry facilities must attend this induction session.</i> | Dr James McCullagh |

Inorganic chemistry lecture series:

| Date | Time | Title | Lecturer |
|---------------------|---------|--|-------------------------|
| Monday 3 October | 10.00am | Solid State Synthesis | Dr Simon Clarke |
| Tuesday 4 October | 9.00am | Vacuum Techniques | Professor Russ Egdell |
| | 10.00am | NMR Facilities for Inorganic Chemists in the CRL | Dr Nick Rees |
| Wednesday 5 October | 10.00am | How to Characterize New Molecules and Solids | Professor Dermot O'Hare |
| Thursday 6 October | 10.00am | Bulk Susceptibility Solid State Measurements by SQUID Magnetometry | Dr Phil Wiseman |

All lectures in the ICL Lecture Theatre

In addition, other induction sessions available include:

Compulsory Safety Office lectures:

Some students will be required to undertake additional, compulsory lectures run by the University Safety Office due to the nature of their research – PLEASE CHECK WITH YOUR SUPERVISOR IF YOU NEED THIS TRAINING:

- *Radiation Protection for Laboratory Workers: 2-4pm, Wednesday 2 November, ICL, Mark Bradley.*
Note: This session is relevant to use of unsealed radioactive sources e.g. U/Th compounds.
- *Biological Safety Induction: dates will be available in due course.*
- *Safe use of X-ray generators, sealed sources and accelerators: 2:30-4:30pm, Wednesday 9 November, ICL, Mark Bradley.* **Note:** This session is relevant to x-ray single crystal and powder diffraction.

Short Intensive Course in Single Crystal X-ray Structure Analysis, Dr Richard Cooper

Wednesday 12th & Thursday 13th October, Wolfson Seminar room starting 10:30am

X-ray structure analysis is one of the few techniques for unambiguously seeing the whole undistorted images of complex molecules.

This course will explain how the X-ray analysis service does its work, what quality of samples it expects from the users, how you should interpret the crystallographic sections of published papers and, if you are interested, how you can become trained as a structure analyst. E-mail: richard.cooper@chem.ox.ac.uk to reserve a place on this course.

IT courses

Dr Karl Harrison, Information Co-ordinator and Training Officer, will give an introductory lecture on 'Research Discovery Using IT' several times in the first couple of weeks of term followed by a series of hands-on workshop courses. Check your e-mail for further details.

Chemistry workshops open day

Tuesday 4th October

| | | |
|------------------|----------------------|--|
| 11:00am - 1:00pm | Inorganic Chemistry: | Electronics and Glass blowing workshops open |
| 2:00pm – 4:00pm | Physical Chemistry: | Electronics and Mechanical workshops open |

All workshops will be open for students and academic staff to find out what facilities are available and the kinds of work that can be carried out. Workshops are as follows: Electrical and Electronics Workshop – both in ICL and PTCL; Mechanical Workshop in PTCL; Glassblowing Workshop in ICL. Visit any or all of the workshops between 10.30am and 12.30pm or 2-4pm.