

REGISTRATION FORM

Raman Spectra Short Course and Workshop
19th – 20th March 2007
The University of Manchester

Please reserve.....place(s) on the above course

SURNAME.....
(Prof / Dr / Mr / Mrs / Miss / Ms / other)

FIRST NAME.....

ORGANISATION.....

POSITION.....

ADDRESS FOR CORRESPONDENCE

.....

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TEL NO.....

FAX NO.....

EMAIL.....

Payment:-

I enclose a cheque for £.....
Please make cheques payable to "IRDG"

Please invoice me/my organisation

SIGNATURE.....

**Return to: G. Dent, CEAS, The University of
Manchester, PO Box 88, Manchester M60 1QD**

www.manchester.ac.uk/ceas

Course Contact Details

For more information, please visit www.irdg.org
or contact the course organiser:-

Mr Geoffrey Dent

Tel 01457 874027
Email g.dent@manchester.ac.uk
Fax 0161 300 9320
Address CEAS, The University of Manchester
PO Box 88, Manchester M60 1QD

Course Tutors

John Chalmers
(VS Consulting & The University of
Nottingham)

Geoffrey Dent
(GD Analytical Consulting & The University
of Manchester)

Prof W. Ewen Smith
(The University of Strathclyde)

About CEAS and the IRDG

CEAS, formed from the merger of the
Chemical Engineering Dept and DIAS, enjoys
a worldwide reputation for excellence in
teaching and leading edge research.

The IRDG is a long-standing, active
independent society with membership drawn
from industry, academia and research
organisations.

For IRDG details, contact Prof Jack Yarwood

Tel 01142 253887
Email j.yarwood@shu.ac.uk
Website www.irdg.org

www.manchester.ac.uk/ceas

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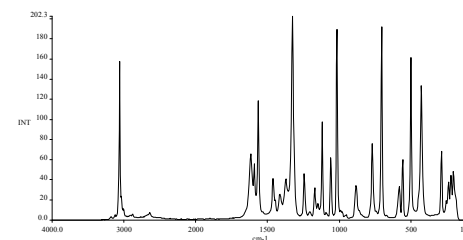
The University
of Manchester

The Infrared and Raman Discussion
Group (IRDG)
and
the School of Chemical Engineering
and Analytical Science (CEAS)
present

*A Short Course and
Workshop for users of
Raman Spectrometry*

Understanding Raman Spectra

19th – 20th March 2007



www.manchester.ac.uk/ceas

Who Will Benefit From This Course?

Any user of Raman spectroscopy and anyone whose work relies on Raman data, whether in the laboratory, in the factory or in the field will benefit from this course.

What is Raman Spectrometry?

Raman Spectrometry is a flexible technique widely used in industry and in academic research to identify the chemical constituents of a broad range of materials.

What is the Course Objective?

Instrument manufacturers can teach you the basics of how to operate a Raman spectrometer.

This course focuses on factors affecting the interpretation of the spectra your instrument produces. It will also teach you how the operation of your spectrometer and the wavelength of the laser source impacts on the readings it gives you.

Why is This Important?

Interpreting Raman spectra is a complex task, which can be confusing. Analysing samples from real processes and experiments is very different from example test samples containing only pure components.

Without training, it can be difficult to know which readings are relevant. The skills and knowledge this course will give you will enable you to be confident that you are gaining the fullest information from your Raman spectra correctly and accurately.

What Will I Learn?

- Learn how to analyse Raman spectra from first principles
- Learn the best practice approach to interpreting Raman spectra and common mistakes to avoid
- Understand the limitations of Raman spectrometry
- Understand the meaning and potential use of SERS, SERRS, CARS, etc
- Learn how to make sense of analyses of mixtures and real-world samples
- Understand how to distinguish significant points on the spectra from irrelevant patterns
- Discover new data sources and learn about computer-aided interpretation of spectra

Course Features

- Suitable for all levels of Raman spectrometer user, from the novice to the highly experienced
- Opportunity for you to network with experts who have extensive industrial and academic experience in this area
- Bring along samples of spectra from your own laboratory or site to use as case studies
- Analysis of a wide range of materials will be covered, from organics to inorganics, halogens to polymers, aliphatic to aromatic hydrocarbons

Venue and Accommodation

The course will be held at the University of Manchester campus in the centre of Manchester.

Conveniently situated close to major road links, Piccadilly railway station and an international airport, you will find the University of Manchester easy to reach.

For directions and maps, please see <http://www.ceas.manchester.ac.uk/maps/directions/>

A wide range of hotels is located within a few minutes walk of the CEAS campus. Nearby hotels include:

- Manchester Days Hotel
tel: 0161 955 8062
- The Ibis Hotel (Charles St)
tel: 0161 272 5000
- Malmaison Hotel (Piccadilly)
tel: 0161 278 1000

Timetable

A detailed timetable will be sent to delegates shortly before the course. Start and finish times will be as follows:

Monday 19 th March	10am – 6pm
Tuesday 20 th March	9 am – 4pm

Course Fee

The registration fee for this course is £600. The fee includes all tuition, course lecture notes, lunches, refreshments and a Course Dinner on Monday 19th March.

Register before the 1st March and receive a discounted rate of £550.