

Continuing Education Courses for your personal development

May – November 2008

ALL YEAR

Any time.
Full-time
commencing
in October
CRANFIELD
UNIVERSITY

† MSc Advanced Materials – full and part-time

This highly acclaimed and professionally accredited course provides scientists and engineers with a fundamental understanding of the properties and processing of materials. Short courses available include – Composites Performance, Failure of Materials and Structures, Finite Element Analysis and Materials Modelling, Materials Selection Properties and Processing of Metals, and Surface Science and Engineering.

Contact: Enquiries

Tel: +44 (0)1234 754086

E-mail: appliedsciences@cranfield.ac.uk

**Website: www.cranfield.ac.uk/sas/masters or
www.cranfield.ac.uk/sas/short**

Any time.
Full-time
commencing
in October
CRANFIELD
UNIVERSITY

† MSc Microsystems and Nanotechnology – full and part-time

This unique and innovative course provides a thorough grounding in the skills necessary for a technically based career in high-tech industries. It covers technologies used to design, manufacture and analyse micro- and nanoscale devices, materials and systems. Short courses available include – Foundation in Microsystems and Nanotechnology, Functional Materials, Microsystems Technology, Microsystems Design, and Nanotechnology.

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**Website: www.cranfield.ac.uk/sas/masters or
www.cranfield.ac.uk/sas/short**

Any time.
Full-time
commencing
in October
CRANFIELD
UNIVERSITY

† MSc Ultra Precision Technologies – full and part-time

Developed and taught by internationally leading academics and practitioners within the field of precision engineering, this prestigious course equips engineers and scientists with an understanding of the principles of ultra precision technologies and their state-of-the-art applications. Short courses available include CAE for Ultra Precision, and Surface Engineering and Coatings.

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E-mail: appliedsciences@cranfield.ac.uk

**Website: www.cranfield.ac.uk/sas/masters or
www.cranfield.ac.uk/sas/short**

September
and February
start dates.

THE UNIVERSITY
OF MANCHESTER

Advanced Engineering Materials

This programme, part of the Manchester Materials Masters, is ideally suited to both professionals in industry and new graduates who work with the next generation of high performance engineering materials. With options to complete CPD units, a postgraduate certificate, diploma and MSc – through an online distance-learning, part-time modular or full-time format – this programme is suited to the professional in industry.

**Course venue: School of Materials,
The University of Manchester**

Contact: Postgraduate Team

Tel: +44 (0)161 306 5777

E-mail: mmm@manchester.ac.uk

Website: www.manchester.ac.uk/mmm

September
and February
start dates.

THE UNIVERSITY
OF MANCHESTER

Corrosion Control Engineering

This programme, part of the Manchester Materials Masters, is ideally suited to both professionals in industry and new graduates wishing to advance their skills in the areas of corrosion and control processes. With options to complete CPD units, a postgraduate certificate, diploma and MSc – through an online distance-learning, part-time modular or full-time format – this programme is suited to the professional in industry.

**Course venue: School of Materials,
The University of Manchester**

Contact: Postgraduate Team

Tel: +44 (0)161 306 5777

E-mail: mmm@manchester.ac.uk

Website: www.manchester.ac.uk/mmm

September
and February
start dates.

THE UNIVERSITY
OF MANCHESTER

Polymer Materials Science and Engineering

This programme, part of the Manchester Materials Masters, is ideally suited to both professionals in industry and new graduates who are looking to develop knowledge and skills that underpin structural and functional polymers. With options to complete CPD units, a postgraduate certificate, diploma and MSc – through an online distance-learning, part-time modular or full-time format – this programme is suited to the professional in industry.

**Course venue: School of Materials,
The University of Manchester**

Contact: Postgraduate Team

Tel: +44 (0)161 306 5777

E-mail: mmm@manchester.ac.uk

Website: www.manchester.ac.uk/mmm

September
and February
start dates.
THE UNIVERSITY
OF MANCHESTER

Textile Technology

This programme, part of the Manchester Materials Masters, is ideally suited to both professionals in industry and new graduates. It ensures that you are equipped with the knowledge and skills required for the rapidly changing textiles market. With options to complete CPD units, a postgraduate certificate, diploma and MSc – through an online distance-learning, part-time modular or full-time format – this programme is suited to the professional in industry.

Course venue: School of Materials,
The University of Manchester
Contact: Postgraduate Team
Tel: +44 (0)161 306 5777
E-mail: mmm@manchester.ac.uk
Website: www.manchester.ac.uk/mmm

MAY 2008

12-16
UNIVERSITY
OF SURREY

† Corrosion Engineering

Corrosion and the practice of corrosion control are covered in this course. The emphasis is on the basic theory of electrochemistry and oxidation, as this is essential to the understanding of metal corrosion. Thermodynamic and kinetic aspects are discussed together with metallurgical considerations. Using this foundation, methods for reducing, controlling or preventing corrosion are described.

Contact: Glenn Moulton
Tel: +44 (0)1483 689378
Fax: +44 (0)1483 686671
E-mail: g.moulton@surrey.ac.uk

12-15
LONDON
METROPOLITAN
UNIVERSITY

Product Development and Recycling

This course is designed to give participants the tools to analyse and anticipate the long-term environmental impact of polymer products and their design, manufacture and use. Particular aspects such as the impact of legislation on packaging, vehicles, and electrical and electronic products will be considered, as well as the design strategies for optimising the use and reuse of materials.

Organised by: London Metropolitan Polymer Centre
Contact: Adam Bradley
Tel: +44 (0)20 7133 2248
E-mail: polymers@londonmet.ac.uk
Website: www.londonmet.ac.uk/polymers

13-14
NATIONAL
METALS
TECHNOLOGY
CENTRE

Metallurgy for Non-Metallurgists

This two-day course is designed to give attendees a basic understanding of metallurgy and an appreciation of the issues involved in the production of metals and alloys. The Course Manager, Ian Martin, specialises in structure/property relationships and the effect of processing on mechanical properties in a variety of steels.

Contact: Dr Beatriz Jackson
Tel: +44 (0)1709 723951
E-mail: beatriz.jackson@namtec.co.uk
Website: www.namtec.co.uk

19-22
LONDON
METROPOLITAN
UNIVERSITY

Advanced Injection Mould Design

This four-day course extends the expertise of those with knowledge of mould design and considers its importance of mould design to the production of polymer products, exploring how design factors can affect the properties of the article produced.

Organised by: London Metropolitan Polymer Centre
Contact: Adam Bradley
Tel: +44 (0)20 7133 2248
E-mail: polymers@londonmet.ac.uk
Website: www.londonmet.ac.uk/polymers

JUNE 2008

3-5
LONDON
METROPOLITAN
UNIVERSITY

Rubber Processing and Product Manufacturing

This course is designed to provide a predominantly theoretical approach to processing. It is structured to show the way in which theoretical concepts can be used to control preparation and shaping operations used in the fabrication of rubber products. The course is supported by practical sessions allowing the opportunity to investigate some matters in the light of theoretical knowledge.

Organised by: London Metropolitan Polymer Centre
Contact: Adam Bradley
Tel: +44 (0)20 7133 2248
E-mail: polymers@londonmet.ac.uk
Website: www.londonmet.ac.uk/polymers



Advanced Materials Short Courses

Composite Technology and Smart Systems

9-13 June 2008

Introduction to Materials Science/Engineering

29 September – 3 October 2008

Research Methods

13-15 October 2008

Introduction to Composite Materials

10-14 November 2008

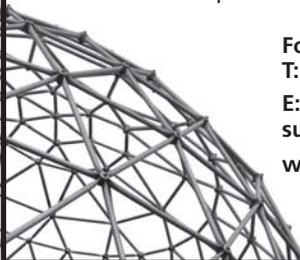
These courses may be taken individually or seven selected and linked together with assessments and a project to form a modular MSc Advanced Materials Programme. Designed to suit your schedule, the MSc is available as a part-time or full-time study route.

For more information:

T: +44 (0)1483 689378

E: advancedmaterialsmsc@surrey.ac.uk

www.surrey.ac.uk/eng/pg/mse



Go to www.iom3.org/mp/pd/

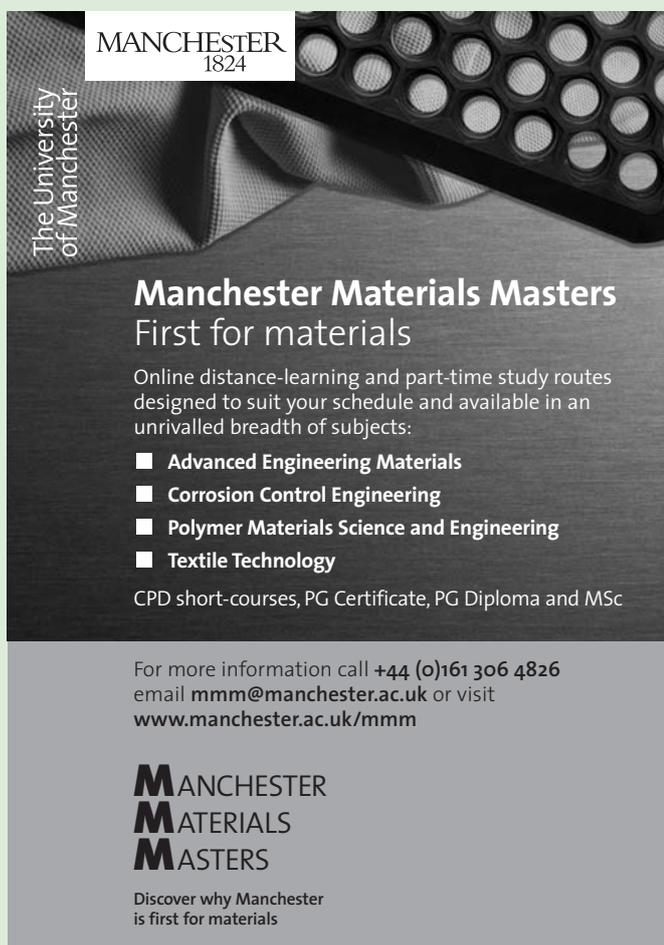
9-13
UNIVERSITY
OF SURREY

† Composite Technology and Smart Systems

Delegates will be presented with a comprehensive overview of the state of composite materials technology and an introduction to smart composite materials techniques, particularly techniques based on optical fibre sensors. They should gain a good understanding of the properties of commercial composite systems, manufacturing technology, the principles of composite mechanics, and a grounding in design methods and the relevant physical principles and applications of smart technology. Case studies in a number of sectors of industry will be presented.

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E-mail: g.moulton@surrey.ac.uk

† These organisations are VAT exempt as centres promoting excellence in education and research. Establishments offering short courses and wishing to be included in future lists should contact James Priest, Mongoose Media Ltd, tel: +44 (0)20 7306 0300, e-mail: iom3@mongoosemedia.com.



MANCHESTER
1824

The University of Manchester

Manchester Materials Masters

First for materials

Online distance-learning and part-time study routes designed to suit your schedule and available in an unrivalled breadth of subjects:

- Advanced Engineering Materials
- Corrosion Control Engineering
- Polymer Materials Science and Engineering
- Textile Technology

CPD short-courses, PG Certificate, PG Diploma and MSc

For more information call +44 (0)161 306 4826 email mmm@manchester.ac.uk or visit www.manchester.ac.uk/mmm

MANCHESTER
MATERIALS
MASTERS

Discover why Manchester is first for materials

Go to www.iom3.org/mp/pd/

JULY 2008

8-9
NATIONAL
METALS
TECHNOLOGY
CENTRE

Mechanical Testing of Metals

This course is designed to provide basic knowledge of different mechanical properties, together with descriptions and demonstrations of the methods used to measure them. It is aimed at those with little or no metallurgical background, but could also be used as a refresher course.

Contact: Dr Beatriz Jackson
Tel: +44 (0)1709 723951
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Website: www.namtec.co.uk

8-10
NATIONAL
METALS
TECHNOLOGY
CENTRE

Melting, Refining and Continuous Casting of Steel

This course can be studied as part of the MSc Manufacturing, Materials and Management Programme, or as an individual module for people needing this specific technical knowledge. It is designed to enable students to gain an understanding of the economic factors that influence the process and operational choices made with respect to steel making, refining and casting processes. It also aims to show how the metallurgy of the solidification process influences the choice of design and operation of a continuous casting machine for steel.

Contact: Anita Sunderland
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Website: www.namtec.co.uk

SEPTEMBER 2008

8
NATIONAL
METALS
TECHNOLOGY
CENTRE

Metallurgy for Absolute Beginners

This is a half-day course aimed at those who require an introduction to metallurgy. It will answer frequently asked questions such as – What are metals? What is grain size? What is the structure of metals? What are the properties of metals? How do we know if this material is good enough to build a fridge or a bridge? This course covers the world of metallurgy from the beginning.

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Website: www.namtec.co.uk

9-10
NATIONAL
METALS
TECHNOLOGY
CENTRE

Metallurgy for Non-Metallurgists

This two-day course is designed to give attendees a basic understanding of metallurgy and an appreciation of the issues involved in the production of metals and alloys. The Course Manager, Ian Martin, specialises in structure/property relationships and the effect of processing on mechanical properties in a variety of steels.

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17-18
NATIONAL
METALS
TECHNOLOGY
CENTRE

Combating Metallic Corrosion

This two day course is aimed at practicing engineers and designers interested in the prevention of corrosion by selection of appropriate materials and coatings. Marine, building, automotive, and chemical sectors are used to illustrate the application of corrosion resisting materials. Coatings, anodic and cathodic protection are examined in detail. The course is aimed at engineers of all disciplines including trainees, consultants, architects and educators. The course will be of particular value to suppliers of metals and alloys, manufacturers of corrosion resisting materials such as paint and zinc, as well as those involved in service industries (electrical, gas and sewerage) and construction, mining, marine and galvanisers.

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Website: www.namtec.co.uk

29-3 October
UNIVERSITY
OF SURREY

† Introduction to Materials Science and Engineering

This course is for scientists and engineers trained in their own disciplines who now need an understanding of the concepts and practices employed in the science and technology of advanced materials. Metals, ceramics, polymers and composite materials are all studied. The course shows that the behaviour of materials is directly linked to their fundamental structures, and how structures, and hence properties, may be altered through processing. Properties, processing, design, and environmental protection and degradation are considered. Case studies in materials selection are included and some examples of state-of-the-art applications of novel materials are given. Advanced techniques available for materials characterisation are also introduced.

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OCTOBER 2008

1
NATIONAL
METALS
TECHNOLOGY
CENTRE

Introduction to Heat Treatment

This one-day workshop will provide a basic understanding of heat treatment processes – why they are necessary, what they involve and what goes wrong. It will encompass the heat treatment of the most common engineering materials such as ferrous metals, including stainless steels, nickel-based alloys and the light alloys titanium and aluminium. Surface treatments will be mentioned, but the emphasis will be on bulk heat treatment.

Contact: Dr Beatriz Jackson
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Training and Development

We deliver a wide range of technical training courses, including bespoke services, for the UK metals and manufacturing industry.

Forthcoming short courses are:

May
13th–14th Metallurgy for Non-Metallurgists

July
8th–10th Melting, Refining and Continuous Casting of Steel*
8th–9th Mechanical Testing

September
8th Metallurgy for Absolute Beginners (½ day)
9th–10th Metallurgy for Non-Metallurgists
17th–18th Combating Metallic Corrosion

October
1st Introduction to Heat Treatment
2nd Metallurgy of Special Steels, Nickel based Superalloys and Titanium Alloys for Gas Turbine Applications

November
4th–5th Carbon and Alloy Steel Metallurgy and Processing
12th Stainless Steel Manufacture, Metallurgy and Applications

*This course forms part of the MSc Manufacturing, Materials and Management programme developed in partnership with Sheffield Hallam University.

For details of the above courses visit
www.namtec.co.uk

Alternatively email
beatriz.jackson@namtec.co.uk
or call 01709 723951

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Leading learning and skills



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European Regional
Development Fund



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2
NATIONAL
METALS
TECHNOLOGY
CENTRE

Metallurgy of Special Steels, Nickel Based Superalloys and Titanium Alloys for Gas Turbine Applications

This is a one-day workshop for people involved in the use or processing of these alloys. It covers the melting, processing, heat treatment and testing of special steels, nickel and cobalt based superalloys, as well as titanium alloys, for gas turbine applications. The course will focus on the practical aspects of why they are used, how they are made and what problems can be encountered.

Contact: Dr Beatriz Jackson
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Website: www.namtec.co.uk

7-8
NATIONAL
METALS
TECHNOLOGY
CENTRE

Heat Treatment for Heat Treatment Professionals

This is a two-day workshop targetted at people who are already involved in using or operating heat treatment operations and need a fuller understanding of heat treatment principles for their job. The course aims to be practical in nature, but heat treatment is a process of micro-structural engineering, and so the fundamentals will be addressed. However, no prior metallurgical knowledge is required. Common engineering steels, stainless steels, and nickel based, titanium and aluminium alloy systems will be covered.

The course will consider bulk heat treatments but not surface heat treatments.

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Website: www.namtec.co.uk

13-15
UNIVERSITY
OF SURREY

† Research Methods (MSc students only)

This three-day course aims to introduce the principles and practices associated with planning, undertaking and reporting research in engineering or the physical sciences. On successful completion of the course, students should be able to explain the reasons for undertaking research, produce a simple project proposal, understand the purposes of studying the literature and be able to undertake a literature search. Students will also learn about planning experiments as well as health and safety. They will discover how to present data appropriately, deal with errors and understand the different requirements for reporting research in a variety of formats. They will also appreciate the requirements and opportunities for protecting and exploiting research.

Contact: Glenn Moulton
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E-mail: g.moulton@surrey.ac.uk

NOVEMBER 2008

4-5
NATIONAL
METALS
TECHNOLOGY
CENTRE

Carbon and Alloy Steel Metallurgy and Processing

This two-day workshop is targetted at employees with technical and engineering backgrounds to help them gain an understanding of the metallurgy and processing of carbon and alloy steels. The second day will study the processing and mechanical properties of the various steel product forms – rod and wire, plates, strip, sections, line pipe and engineering steels.

Contact: Dr Beatriz Jackson
Tel: +44 (0)1709 723951
E-mail: beatriz.jackson@namtec.co.uk
Website: www.namtec.co.uk

10-14
UNIVERSITY
OF SURREY

† Introduction to Composite Materials

The basic concepts and practices of composite materials are introduced in this course. No prior knowledge or experience is assumed. The emphasis is on developing an understanding from first principles rather than reviewing current practice. The lectures are concentrated in the first three days and the final two days are devoted to exercise classes and laboratory work.

Contact: Glenn Moulton
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E-mail: g.moulton@surrey.ac.uk

Latest Technology:

London Metropolitan University is UK's leading University for polymer engineering, working closely with industry to provide training, CPD, research and education at undergraduate and postgraduate levels.

London Metropolitan Polymer Centre now works closely with **Metropolitan Works**, whose Digital Manufacturing Centre provides new technology for rapid prototyping, manufacture, research and experimentation. These services are supported by **LMPC's** expertise and extensive facilities in material selection, polymer processing and characterisation.

Please refer to the PD Diary for upcoming courses.

NEW One Day short courses introduced!
Please see our website for details.

London Metropolitan Polymer Centre

Tel: 020 7133 2248 Fax: 020 7133 2184
www.londonmet.ac.uk/polymers



† These organisations are VAT exempt as centres promoting excellence in education and research. Establishments offering short courses and wishing to be included in future lists should contact James Priest, Mongoose Media Ltd, tel: +44 (0)20 7306 0300, e-mail: iom3@mongoosemedia.com.

Go to www.iom3.org/mp/pd/