



## **BUILDING CONSERVATION MASTERCLASSES**

### **CONSERVATION AND REPAIR OF ARCHITECTURAL AND STRUCTURAL METALWORK**

**B3D07324 5-8 FEBRUARY 2018 (3 day course)**

This course covers the conservation of structural metalwork, architectural features and statuary, and includes both ferrous and non-ferrous metals, with tuition from leading practitioners on a wide range of repair techniques.

It also includes the methods of manufacture and shaping of ferrous metals, the history of their use, deterioration, surveys, practical cleaning methods, surface preparation and coatings, and specifying metalwork repairs. It covers corrosion science, the latest developments in cathodic protection as a remedial solution to rusting cramps and the science of traditional electrotyping as used for statuary.

There will be a 'hands-on' opportunity in the Forge when students will be able to try out traditional and modern techniques relevant to architectural conservation such as forging at the hearth, arc and gas welding, flame cutting and needle gunning.

**Please remember to bring work clothes/overalls and work boots (preferably steel toecaps) for practical sessions. An umbrella may be useful on the short walk to the Auditorium and the Forge.**

Course Leader: Geoff Wallis, consultant with over three decades' practical experience in the conservation of architectural and structural metalwork and historic machinery. He is a founder and former Chairman of Dorothea Restorations Ltd and a Chartered Mechanical Engineer.

Tutors:

Sophie Godfraind, Architectural Conservator, Historic England

David Farrell, managing director of Rowan Technologies Ltd, a UK company specialising in the development and application of new methods of conserving the fabric of historic structures and buildings.

Rupert Harris, a PACR Accredited Conservator-Restorer, member of Icon and an elected Fellow of the Royal Society of Arts, runs Rupert Harris Conservation, conservators of metalwork and sculpture.

Alex Coode, Heritage Blacksmith Partnership Head of Diploma Course in Metalwork, West Dean College.

**All students on this course will receive a copy of *English Heritage Practical Building Conservation: Metals*.**

Recommended Reading

*English Heritage Practical Building Conservation: Metals*, 2012, Ashgate Publishing

Forsyth M (ed) *Materials and Skills for Historic Building Conservation*, 2008, Blackwell, ISBN 9781405111706.

## **OUTLINE PROGRAMME**

Day 1	Monday
16.00-18.00	Register at Reception Desk
18.45	Welcome Talk
19.00	Dinner
Evening	Introductory Lecture. Metalwork conservation, definitions and ethics Questions and discussion

Day 2	Tuesday
Morning	Ferrous and non-ferrous metals. Physical/chemical properties, corrosion mechanisms Cathodic protection. Theory and practice
Afternoon	Ferrous metals. The making of iron and its traditional uses Techniques for shaping iron, surveys Repair techniques using hot and cold processes with case studies and samples
Evening	Ironwork conservation techniques
Day 3	Wednesday
Morning	Surface preparation and coatings Non-ferrous metals. Overview. Surfaces: patinas, corrosion assessment, cleaning
Afternoon	Practical demonstration of patination Introduction to work in progress, discussion on ethics. Electroplating Specifications, contract procurement
Day 4	Thursday
Morning	Non-ferrous metals. Traditional manufacturing methods and uses Maintenance of metalwork
Afternoon	Practical session in the Forge. Hot and cold repair processes. Participants may 'Have a go' at selected techniques Discussion of techniques seen and done during the day
16.00	Issue of certificates and depart.

**Non-residential course fee £645**

**Fully inclusive residential course fee:**

**Standard room with private bathroom facilities £876**

**Superior room with private bathroom facilities £936**

## HOW TO BOOK

Please complete one booking form, or copy of form, per person per course and enclose a deposit for each course booked. On receipt of your booking, we will send all the further details you will need for your visit, including the course details and your final payment slip. Travel instructions will be sent to all students.

For further information about the course, please contact the Course Organiser: [cpd@westdean.org.uk](mailto:cpd@westdean.org.uk) or +44 (0) 1243 818219.

For further information about booking, please telephone the Bookings Office: +44 (0)1243 818300.

Website: [www.westdean.org.uk](http://www.westdean.org.uk)