

BUILDING CONSERVATION MASTERCLASSES CONSERVATION AND REPAIR OF BRICK AND FLINT MASONRY

BC3D229 22-25 MAY 2017 (3 day course)

This course provides an understanding of, and basic skills in, the conservation and repair of traditional brick and flint masonry.

The starting point is an understanding of the nature and characteristics of the materials. A range of brick and flint buildings will be studied to illustrate methods of construction, common failures and decay processes. Common problems including poor practices will be identified and solutions investigated. Methods of repair, joint treatments and cleaning relevant to brick, including gauged brick and flint, will be discussed and form part of the practical sessions.

The course aims to establish a firm appreciation of the importance and quality of brick and flint as masonry materials and to show how to assess the condition of walls, prepare the repair schedule and specification and carry out the correct remedial work to high standard.

Please remember to bring work clothes/overalls and shoes for practical sessions. A torch and umbrella may be useful on the short walk to the Auditorium and Ruinette.

Course Leader: Catherine Woolfitt, archaeologist, conservator, and director of Catherine Woolfitt Associates Ltd, providing consultancy services in the conservation of the built heritage, including ancient monuments and sculpture

Principal Tutor: Colin Burns, Master Mason and consultant in the conservation and repair of historic buildings. former Senior Training Officer at English Heritage

Tutors: Peter Minter, traditional brick maker and director of The Bulmer Brick and Tile Co Ltd, Suffolk

Emma Simpson, brick conservator and principal of Simpson Brickwork Conservation Ltd
Duncan Williams, Flint Mason at Knepp Castle in West Sussex.

All students on this course will receive a copy of *English Heritage Practical Building Conservation: Earth, Brick and Terracotta*.

Recommended Reading:

English Heritage Practical Building Conservation: Earth, Brick and Terracotta, 2015, Ashgate Publishing
Dawson B, *Flint Buildings in West Sussex*, West Sussex County Council, 1998

Lord John W, *The Nature and Subsequent Uses of Flint*, Volume I, John Lord, 1993

Lynch G, *Brickwork*, Donhead Publications, 1994

Lynch G, *Gauged Brickwork*, Donhead Publications, 2006

Mason H J, *Flint: The Versatile Stone*, Providence Press, 1978

Pevsner Nikolaus, *Buildings of England, Sussex*, Penguin Books, 1996

Sarginson Peter, *The Edward James Foundation*, The Edward James Foundation, 1992

Shepherd Walter, *Flint: Its Origins, Properties and Uses*, Faber and Faber, 1972

Timms Peter, *Flint Implements of the Old Stone Age*, Shire Publications, 1974

Warren John, *Conservation of Brick*, Butterworth Heinemann, 1998

OUTLINE PROGRAMME

Day 1	Monday
16.00-18.00	Registration
18.45	Welcome Talk
19.00	Dinner
Evening	Introduction. Scope and compass of course. Getting to know the tutors and students

Lecture.	Introduction to the structural and decorative use of brick and flint in the United Kingdom over 2,000 years
Day 2	Tuesday
Morning	Lecture. Nature and characteristics of brick. Traditional manufacture. Regional brick types
Lecture.	Brick and flint construction. The decay and failure of brick and flint masonry. At what stage is repair or replacement required and deciding on an appropriate scope of conservation and repair work. Mortar joint types and methods of application
Afternoon	Demonstration and practical work. Cutting out and piecing in damaged/decayed bricks; cutting out defective (decayed) joints; cutting out inappropriate, hard and impermeable mortar; cutting out fine jointed work Visit. Brick and flint buildings of Chichester
Day 3	Wednesday
Morning	Workshop lecture and demonstration. Nature and characteristics of mortar used in brick and flint masonry. Bedding, pointing and mortar repairs. Lime and aggregate types and properties. Mortar analysis, design, preparation, curing and aftercare Cutting out and repointing mortar joints. Mortar joint styles. Cutting out and replacing bricks and placing mortar repairs
Afternoon	Demonstration. Cutting and rubbing bricks, placing and finishing. Mortars for gauged work Practical work. Cutting and rubbing a brick voussoir, placing and constructing a brick arch. Inspection and aftercare of repointing work. Walk. West Dean Estate. Nature and characteristics of flint. Repairing flint masonry
Day 4	Thursday
Morning	Demonstration. Flint knapping, materials, techniques and styles Case Studies Lecture. Conservation and repair of brick
Practical work.	Complete cutting and rubbing a brick voussoir, placing and constructing a brick arch. Finishing mortar joints and mortar repairs
Afternoon	Lecture. Cleaning brick and flint; definitions of soiling; identification of soils and decay processes; pre-cleaning survey; use of water; mechanical, abrasive and chemical systems; advantages and disadvantages Summary/questions/certificates
15.30	Issue of certificates and depart.

Non-residential course fee £640

Fully inclusive residential course fee:

Shared bathroom facilities £811

Standard room with private bathroom facilities £871

Superior room with private bathroom facilities £931

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: +44 (0)1243 818219 or cpd@westdean.org.uk

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

Website: www.westdean.org.uk