



International Course on Stone Conservation SC13

SESSION: Structural Repairs

INSTRUCTOR: Jeff Stott

TIME: Wednesday, 29th May/ 11:30 – 13:00 (1.5 hours) & 14:30 – 16:00 (1.5 hours)

SESSION OUTLINE

ABSTRACT

This lecture will discuss structural repairs on the micro and the macro scale. Through case studies, we will look at how and why masonry structures fail and the multi-disciplinary, collaborative approach adopted in the design and implementation of structural repairs.

OBJECTIVES

- To give an overall understanding and appreciation of structural issues
- To promote the collaborative approach
- To help in the understanding of levels of intervention
- To describe the need for temporary stabilisation works
- To consider the need to consult experienced Conservation Structural Engineers

CONTENT OUTLINE

The first session will focus on describing the many failures found within Masonry structures, on how the seemingly small problem can lead to the larger structural repair. Failures such as: inherent design defects, materials defects, alteration problems, degradation, ground movement and environmental changes.

The second session will introduce the Conservation Engineer's attitude to structural problems from introduction to the problem, through assessment to repair. This will be done through case studies, some of which will integrate with the architect (Stephen Gee) to highlight collaborative working and understanding. Case studies used will be Chatsworth House, Castle Drogo, Marshcourt (with Stephen Gee), Corfe Castle, Hardham Priory and Manor Farm, Westbury; all within the UK

READINGS

 = Essential reading material

 = Available online

Siegesmund, Siegfried and Rolf Snethlage, ed. 2011. *Stone in Architecture: Properties, Durability*. 4th ed. New York: Springer.

Ashurst, John, and Nicola Ashurst. 1988. *Practical Building Conservation: Vol. 1: Stone Masonry*. English Heritage Technical Handbook. New York: Halsted Press.

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