



International Course on Stone Conservation SC13

SESSION: Introduction to consolidation

INSTRUCTOR: George Wheeler

TIME: Monday, 10th June/ 9:30-11:00 (1.5 hours) & 11:30-13:00 (1.5 hours)

SESSION OUTLINE

ABSTRACT

Through a variety of agents of decay, stone may lose the cement which binds together its constituent particles. Consolidants are intended to restore cohesion and give mechanical strength, without adversely affecting the behaviour of the stone or other conservation criteria such as re-treatment.

Attempts to consolidate stone have a long history and a great deal of research has been devoted to developing and testing possible consolidants over the past few decades. This session aims to provide a theoretical and practical background for the use of consolidants and to identify the properties of a consolidant and how their success can be assessed.

OBJECTIVES

At the completion of the series of sessions on 'consolidants', participants should be able to understand how to determine the need for a consolidant, its properties and how to assess its affect.


CONTENT OUTLINE

- Brief survey of the history of stone treatments;
- determining the need for a consolidant;
- properties of consolidants;
- performance criteria.

READINGS

 = Essential reading material

 = Available online

 Winkler, Erhard M. 1994. Stone conservation on buildings and monuments. In *Stone in architecture: Properties, durability*. 3rd completely rev. and extended ed, 264-82. Berlin; New York: Springer-Verlag.

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