



International Course on Stone Conservation SC13

SESSION: Mechanical properties of stone in masonry

INSTRUCTOR: Cristiano Russo

TIME: Friday, 3rd May/ 11:30-13:00 (1.5 hours)

SESSION OUTLINE

ABSTRACT

During the session, various typologies of ancient masonry will be briefly discussed, illustrating their characteristics and focusing on methodologies of on-site and laboratory testing to evaluate their mechanical characteristics. Stone samples will be shown in order to familiarize participants with visual identification of different materials and various measuring instruments will be also illustrated.

OBJECTIVES

The goal of the lesson is to explain the key methods used to determine resistance characteristics as a reference for all participants, which can then be implemented on site during real case studies.

CONTENT OUTLINE

- Resistance and deformability characteristics of materials used in masonry construction.
- Key site and laboratory tests to determine resistance and deformability parameters.

READINGS

 = Essential reading material

 = Available online

Forsyth, Michael, ed. 2007. *Structures & Construction in Historic Building Conservation*, Historic Building Conservation. Oxford, UK and Malden, MA: Blackwell.

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