

STSM: MALTA: February 2013
COST Action: TU0904
STSM Title: Fire performance of Stone and Concrete

Dates:

10th February 2013 to 18th February 2013

Applicant:

Dr. Monica Hajpal
Budapest, Hungary

Host:

Ruben Paul Borg, B.E.&A.(Hons.), Spec.Struct.Eng.(Milan), Eur.Ing., A.&C.E.
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Fire Performance of Stone and Concrete – STSM scientific report

The aims of the Scientific Mission were the following:

1. to address the COST Action TU0904 activities concerning the fire performance of materials and structures.
2. to prepare a joint research paper on Fire performance of stone with reference to Maltese limestone and Hungarian Limestone.
3. To organise seminars concerning the fire performance of masonry and concrete structures.
4. To set a strategy for long term collaboration on the performance of stone and concrete in fire.

Field trips

The mission also included field trips to various locations in Malta to review existing masonry buildings. Additional meetings were organised to discuss the fire performance of buildings and structures with experts in the field of structural engineering.

Research Framework

During the STSM, the draft outline of a research paper eventually published in the COST Action in Prague was discussed.

The paper was eventually published, following additional tests on materials carried out in Malta with regards homogenous fire exposure of stone.

The results and conclusions of the first stage of the research form the base for further investigation and collaboration between the two institutions.

Seminars

A seminar was organised with Students at the Faculty for the Built Environment of the University of Malta, where Dr Hajpal presented case studies concerning fire engineering.

In addition a second seminar was also organised by the Organisation SBE Malta (Sustainable Built Environment Malta) where Dr Hajpal and other experts at the University of Malta and in professional Civil engineers discussed fire engineering research and also case studies.