

STSM-Scientific Report

Grantee: Naveed Iqbal

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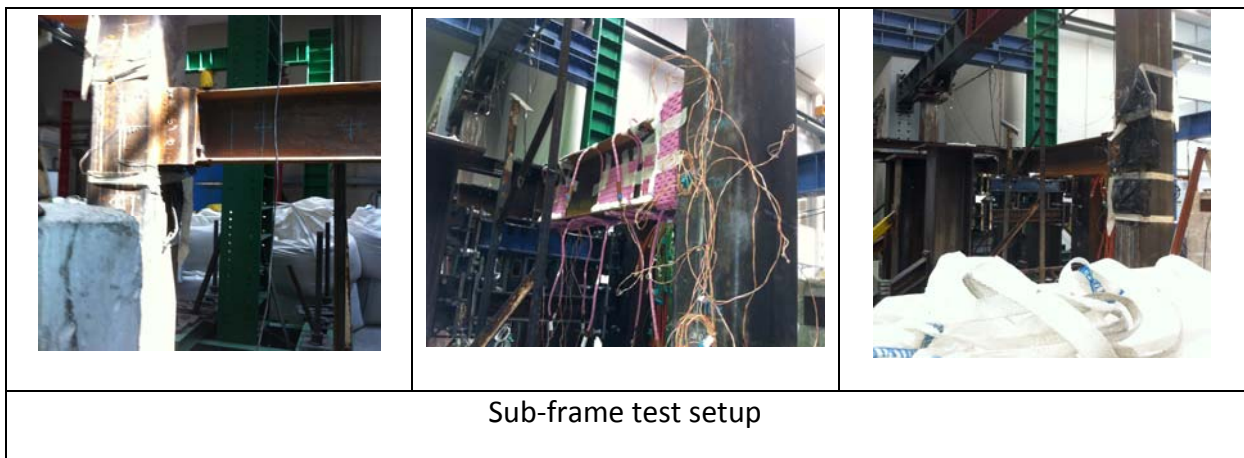
Dates: from 03-06-2012 to 09-06-2012

Host: Prof. Aldina Santiago

Host Institute: University of Coimbra, Coimbra, Portugal

The purpose of this document is to report on the progress of above mentioned STSM. Following is the detailed account of the purpose of the STSM and the tasks performed:

- The overall purpose of the STSM was to continue the already established cooperation between my Institute, Luleå University of Technology and the Host Institute, University of Coimbra. There is existing collaboration between these institutes in a number of research projects and my trip was part of the ongoing cooperation in the COMPFIRE project of which both these institutes are partners along with others.
- My work in the project is related to the FE-Modeling of the Sub-frames in the COMPFIRE project. The experimental work in this regards, which consists of performing tests on Sub-frames at both ambient and elevated temperature. This visit offered an opportunity to interact with the project partners in particular, Ms. Fernanda Lopes, who is a researcher at the host institute and has been responsible for performing the laboratory tests on Sub-frames. I got a detailed understanding of the test setup and also got the opportunity to observe the deformed samples from the tests previously carried out at both ambient and elevated temperatures. Some pictures taken in the Laboratory showing the sub-frame test setup are shown below:



- The visit also provided an opportunity to interact with other researchers working in other projects related to structural fire engineering, which proved to be very informative.
- The work performed in the STSM will be helpful in future publications related to FE-Modeling of sub-frames and their validation against experimental work carried out at the Host institute.

Luleå, 25 June 2012

Naveed Iqbal