

Damages Due To Earthquake Sequences In Central Italy In 2016

3:00pm – 4:30pm, 20 Dec 2017
Z414, The Hong Kong Polytechnic University



INTRODUCTION

In the period 24th August 2016 to 18th January 2017, a series of catastrophic earthquakes with a magnitude between 5.5 and 6.6 along with a swarm of aftershocks struck Central Italy and caused loss of human lives, damage to structures and infrastructure facilities as well as huge economic losses. A team from the Institute of Earthquake Engineering and Engineering Seismology (IZIIS) visited the affected region and performed a visual inspection of the activated Vettore faulty. They also got an insight into the infrastructure and the engineering structures in this region. Particular attention was paid to damaged historic buildings in the cities of Amatrice and Norcia. Besides inspection of the building stock in Amatrice and Norcia, we visited Acomoli and Pescara del Tronto as well. In addition to historic buildings, the team also paid great attention to the mechanisms of damage to modern RC structures. Discussed in this presentation will be the seismicity of Central Italy with a special emphasis on Vettore fault during the three main events that took place in August and October, respectively. After the two missions, comparison of damages to a structure inflicted separately by the main events was made.

Conclusions about cascade earthquakes and damages induced will be presented, as well.



Damaged Building in Amatrice

KEY WORDS:

Earthquakes in Central Italy, Vettore fault, visual inspection, damages to buildings

BIOGRAPHY OF FACILITATOR



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Mihail Garevski is professor and director (till 2017) of the Institute of Earthquake Engineering and Engineering Seismology (IZIIS). Prof. Garevski completed his doctoral studies at the Bristol University in United Kingdom. He has written more than 270 scientific and professional papers published in international journals and proceedings. He is editor and author of chapters of two books (Earthquake Engineering in Europe and Earthquakes and Health Monitoring of Structures) published by the well known publishing house Springer. Prof. Garevski is a member of the Editorial Board of the Bulletin of Earthquake Engineering (BEE). He was chairman of 5 international conferences, among which the 14th European Conference on Earthquake Engineering. He was director of three "Science for Peace" NATO projects as well as coordinator of one FP7 project. At the moment, he is national coordinator of two (SERA, INTA-NET) Horizon 2020 projects. Prof. Garevski is president of the Macedonian Association for Earthquake Engineering (MAEE) and vice-president of the European Association for Earthquake Engineering (EAEE). He was past president of EAEE (2010 – 2014). His fields of interest in civil engineering are: design of concrete structures, base isolation of structures, experimental laboratory and in-situ testing, including real time health monitoring. He was visiting professor at the Berkeley University (USA) and the University of Bristol (UK). Prof. Garevski was leader of IZIIS' mission after several catastrophic earthquakes (Izmit, Turkey, 1999, Pakistan, 2005 and Central Italy, 2016).

REGISTRATION

All are welcome.

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