

Workshop - Seismic Risk Preparedness and Mitigation of Archaeological and Historical Sites Tower of David Museum, Jerusalem, 19-20 January 2014

1st day Seismic Risk Preparedness of Archaeological and Historical Sites

9.00 Gathering

9.30 Greetings

- Ministry of Home Front Defense
- Dr. A. Shapira, Chair of the National Steering Committee for Earthquake Preparedness
- Dr. U. Dahari, Deputy director, Israel Antiquities Authority
- Mrs. E. Lieber, Director, Tower of David Museum

10.00 – 11.15 First Session – Administrative and Legal Issues

Chair: Mr. O. Shalmon, Gen. Director, Society of Preservation of Israel Heritage Sites

- Dr. F. Carapezza and Eng. C. Rubino, Gen. Secretariat of the Italian Ministry of Cultural Heritage
Risk preparedness & management of the post-earthquake emergencies in Italy: Lessons learned from past experiences
- Prof. M. Dolce, DPC – Department of Civil Protection
DPC&CH-Seismic risk and Civil Protection in Italy
- ADV. G. Koren, Legal Advisor to the SPIS, ICOMOS International Vice President
Legal obligation to risk preparedness

Coffee

11.45 – 13.00 Second Session

Chair: Prof. M. Dolce, DPC – Department of Civil Protection

- Eng. Luca Ponticelli, the Italian National Firefighters Agency – Corpo Nazionale dei Vigili del Fuoco
Organization of the Firefighters Agency in Emergency
- Prof. C. Modena, University of Padova, Dpt of Civil Engineering
State of the art of research on methods and models for Seismic Risk Assessment of CH constructions and sites
- Prof. D. Fiorani, University of Roma “La Sapienza”
Seismic issues in historical constructions and sites: the conservative aspects
- Prof. F. da Porto, University of Padova, Dpt of Civil Engineering
Cooperation between University and CH Ministry: emergency activities and reconstruction plans

13.00-14.00 Lunch

14.00 – 15.30 Third Session

Chair: Eng. Y. Schaffer,

- Mr. M. Cohen, Israel Antiquities Authority
Risk maps of Archeological sites in Israel
- Prof. M. Dolce (DPC - Dpt of Civil Protection)
Seismic risk prevention of architectural heritage promoted by the Italian Civil Protection
- Eng. C. Marson and Eng. S. Taffarel, University of Padova, Dpt of Civil Engineering
Preparatory phase to the elaboration of seismic risk maps at urban level: case studies in Israel
- Prof. F. da Porto and Prof. C. Modena, University of Padova, Dpt of Civil Engineering
Vulnerability assessment of archeological remains: seismic analyses and simplified evaluation forms

Coffee

15.45 – 17.00 Forth Session

Chair: Prof. C. Modena, University of Padova, Dpt of Civil Engineering

- Eng. F. Lorenzoni, University of Padova, Dpt of Civil Engineering
Investigation techniques –Monitoring: the case of the David Tower
- Visit to the monitoring system
- Round table – Discussion

2nd Day. Seismic Risk Mitigation of Archaeological sites and of Historical centers (Engineering part)

9.00 Gathering

9.30 – 11.00 First Session

Chair: Eng. C. Rubino, Gen. Secretariat of the Italian Ministry of Cultural Heritage

- ADV. Y. Barsela, Legal Advisor to the IAA.
Legal aspects of Conservation
- Prof. C. Modena, University of Padova, Dpt of Civil Engineering
Methods and objectives of the structural assessment of historic constructions: general aspects and case studies
- Prof. F. da Porto, University of Padova, Dpt of Civil Engineering
Niker Project: main objectives, achievements, and Data Base of interventions
- Ass. Prof. Oren Lavan, Technion – Israel Institute of Technology
Seismic retrofitting of buildings using energy dissipation devices

Coffee

11.30 – 12.45 Second Session

Chair: Prof. D. Fiorani, University of Roma “La Sapienza”

- Eng. Luca Ponticelli, the Italian National Firefighters Agency – Corpo Nazionale dei Vigili del Fuoco
Post-earthquake emergency interventions for the safeguard of CH
- Eng. C. Marson and Eng. S. Taffarel, University of Padova, Dpt of Civil Engineering
Reconstruction plans: Case studies in Italy
- Prof. F. da Porto, University of Padova, Dpt of Civil Engineering
Analysis and intervention on aggregates of historical centers: a case study in L’Aquila
- Eng. F. Lorenzoni, University of Padova, Dpt of Civil Engineering
Case study of analysis and intervention: The Tomb of David in Jerusalem

13.00-14.00 Lunch

13.45 – 15.00 Third Session – Case studies in Israel

Chair: Prof. F. da Porto, University of Padova, Dpt of Civil Engineering

- Prof. Y. Hatzor and Dr. Ronnie Kamai Ben Gurion University, Beer Sheva
Assessment of historic earthquakes from back analysis of old masonry structures
- Eng. Y. Schaffer
Dynamic Analyzes in Historical Buildings - Varied Case study
- Eng. O. Cohen
Case study, The Western Wall Tunnels, Jerusalem
- Eng. L. Sukhanov
Case study Caesarea

Coffee

15.45 – 17.00 Forth Session

Chair: Prof. C. Modena, University of Padova, Dpt of Civil Engineering

- Round table – Final Discussion

18.30 The Night Spectacular, Tower of David Museum

*depends on the weather