



ACCADEMIA NAZIONALE DEI LINCEI



International Conference

FLORENCE 1966-2016

RESILIENCE OF ART CITIES TO NATURAL CATASTROPHES: THE ROLE OF ACADEMIES

Rome, 11 - 13 October 2016

PRELIMINARY PROGRAMME

DAY 1 - TUESDAY, 11 OCTOBER

9.30 Opening session

Alberto QUADRIO-CURZIO, President of the Accademia Nazionale dei Lincei

Volker TER MEULEN, Co-Chair of IAP

Giovanni PUGLISI, President Emeritus of the Italian National Commission for UNESCO

Massimo INGUSCIO, President of CNR (Italy's National Research Council)

Stefano DE CARO, General Director of ICCROM, Rome

Enrico BRUGNOLI, ICSU Committee on Scientific Planning and Review

Session 1 - Introductory lectures, I

Chair: Volker TER MEULEN (Co-Chair of IAP)

- 10.00 Antonio SGAMELLOTTI (Lincei Fellow, University of Perugia), Introduction to the Conference
- 10.20 Antonio PAOLUCCI (Lincei Fellow, Director of the Vatican Museums, Rome), *The theory of restoration put to the test by great catastrophes*
- 10.50 Günter BLÖSCHL (Austrian Academy of Sciences and Centre for Water Resource Systems, Vienna University of Technology, member of the ITSC), *Engineering strategies of enhancing the resilience of cities of art to floods*
- 11.20 Coffee break

Session 2 - Introductory lectures, II

Chair: Jörg HACKER (President of the German Academy of Sciences Leopoldina, Halle)

- 11.35 Virginia MURRAY (Vice-Chair of UNISDR Scientific and Technical Advisory Group), *Cultural heritage and science and technology for the Sendai Framework on Disaster Risk Reduction 2015-2030*

- 12.05 Ismail SERAGELDIN (Director of the Bibliotheca Alexandrina, Alexandria, Egypt), *Economic assessment of the 'value' of cultural inheritance*
- 12.35 Dario FRANCESCHINI (Minister of the Cultural Heritage, Italy), *On the role of Governments*
- 13.05 Lunch break

Session 3 - Florence 1966-2016

Chair: Massimo LIVI BACCI (Lincoln Fellow, University of Florence)

- 14.30 Florence 1966: images and stories not to forget. Documentary presented by Paolo FANTACCI
- 15.00 Mario PRIMICERIO (Lincoln Fellow, Former Mayor of Florence), *Florence 2016: presentation of the activities in the 50th anniversary of the 1966 flood*
- 15.30 Marco CIATTI (Director of the Opificio delle Pietre Dure, Florence), *The flood and the conservation of artworks: from the disaster to new opportunities*
- 16.00 Coffee break
- 16.15 Gerald GALLOWAY (National Academy of Engineering and University of Maryland, USA, Chair of the ITSC), Presentation of the final Report by the International Technical and Scientific Committee (ITSC), nominated to perform an independent assessment of the effectiveness of the actions undertaken to reduce the risk of flooding in Florence
- 16.45 Roundtable - Open issues emerging from the Report

Chair: Giorgio FEDERICI (University of Florence, Secretary of *Firenze 2016*)

Contributions by:

Cristina ACIDINI (President of the Academy of Arts of Drawing, Florence)

Fabrizio CURCIO (Head of the Civil Protection Department, Rome), *TO BE CONFIRMED*

Marcelo H. GARCÍA (National Academy of Engineering of Argentina and University of Illinois, USA, member of the ITSC)

Cristina GIACHI (Deputy Mayor of Florence), *TO BE CONFIRMED*

Mauro GRASSI (Coordinator of the Unit established by Italy's Prime Minister to contrast hydrogeological hazards and develop water infrastructures, Rome)

Alberto MONTANARI (University of Bologna, member of the ITSC)

Enrico ROSSI (President of the Tuscany Region)

DAY 2 - WEDNESDAY, 12 OCTOBER

Session 4 - Science and technology for disaster resilience, I

Chair: Juan ASENJO (Co-Chair of the Inter-American Network of Scientific Academies)

- 9.00 Frauke KRAAS (German Academy of Sciences Leopoldina and University of Cologne), *Urban heritage at risk: governance and the role of the people in Southeast Asia*
- 9.30 Dania GONZÁLEZ COURET (Academy of Sciences of Cuba and Instituto Superior Politécnico José Antonio Echeverría, La Habana), *Urban resilience in Cuba. Art cities and hurricanes*

- 10.00 Jerry PODANY (Emeritus Senior Conservator of Antiquities, J. Paul Getty Museum, Los Angeles), *Contents Fragile! Earthquake damage mitigation for museum collections and the role of Science Academies in advancing this effort*
- 10.30 Coffee break

Session 5 - Science and technology for disaster resilience, II

Chair: Carlo DOGLIONI (Lincei Fellow, President of INGV, Rome)

- 10.45 Evgenii A. ROGOZHIN (Deputy Director of the Schmidt Institute of the Physics of the Earth, Russian Academy of Sciences, Moscow), *Seismic hazard assessment for Kaliningrad city in detailed scale*
- 11.15 Éric CALAIS (Académie des sciences and École normale supérieure, Paris), *From 1562 to 2010: historical journey through urban resilience to earthquakes in Haiti*

Session 6 - Science and technology for disaster resilience, III

Chair: Giuliano PANZA (Lincei Fellow, University of Trieste)

- 11.45 Chen FULONG (Institute of Remote Sensing and Digital Earth - RAD, Chinese Academy of Sciences, Beijing), *Cultural heritage risk monitoring and preventive diagnosis by radar interferometry*
- 12.15 R. B. SINGH (Department of Geography, Delhi School of Economics), *Disaster risk reduction in heritage and cultural cities of India: role of science-policy-community interface*
- 12.45 Takeyuki OKUBO (Science Council of Japan and Ritsumeikan University, Kyoto), *Proposal on utilization of historic water resources and open spaces in Rome for disaster risk management with lessons learned from Nepal Gorkha earthquake*
- 13.15 Lunch break

Session 7 - Science and technology for disaster resilience, IV

Chair: Gerald GALLOWAY (National Academy of Engineering and University of Maryland, USA)

- 14.30 Andrea RINALDO (University of Padua, École Polytechnique Fédérale de Lausanne and National Academy of Sciences, USA), *The resilience of Venice. Lessons from the co-evolution of built and natural environments*
- 15.00 Victor MARCHEZINI (National Centre for Monitoring and Early Warning of Natural Disasters - CEMADEN, Cachoeira Paulista, Brazil), *Early warning systems and the resilience of the cities of art: bridging culture, education and citizen science*
- 15.30 Matthijs KOK (Delft University of Technology), *Flood risk approach in the Netherlands*
- 16.00 Coffee break

Session 8 - Resilience of ancient cultural heritage, I

Chair: Helen WALLACE (British Academy, London)

- 16.15 Paolo MATTHIAE (Lincei Fellow, Sapienza University of Rome), *The resilience of the most ancient art cities to flood and crisis: the basic principles for their rebirth*

- 16.45 Moneef R. ZOU'BI (General Director of the Islamic World Academy of Sciences, Amman), *The resilience of ancient cities to natural catastrophes in the Middle East and the narrative of science: some perspectives*
- 17.15 Ilia ALVARADO SIZZO (National Autonomous University of Mexico, Mexico City), *Risk management and natural hazards in Mexican Pre-Columbian archaeological sites*

DAY 3 - THURSDAY, 13 OCTOBER

Session 9 - Resilience of ancient cultural heritage, II

Chair: Michele CAPUTO (Lincei Fellow, Sapienza University of Rome)

- 9.00 Angelos DELIVORRIAS (Lincei Fellow, Director of the Benaki Museum, Athens), *The underestimated political factor in protecting cultural heritage*
- 9.30 Joseph ADANDE (National University of Benin, Cotonou), *Resiliences to natural catastrophes in the Royal Palaces of Abomey*
- 10.00 Mario TORELLI (Lincei Fellow, University of Perugia), *Pompeii, death and rebirth: a chapter in European cultural history*
- 10.30 Coffee break

Session 10 - Reflections on the recent earthquake in Amatrice and Central Italy

Chair: Éric CALAIS (Académie des sciences and École normale supérieure, Paris)

10.45 Contributions by:

Caterina BON VALSASSINA (Ministry of the Cultural Heritage, Rome)

Carlo DOGLIONI (Lincei Fellow, President of INGV, Rome)

Gaetano MANFREDI (Rector of the University of Naples «Federico II»)

Final session

Chair: Alberto QUADRIO-CURZIO (President of the Accademia Nazionale dei Lincei)

- 12.15 Giovanni SEMINARA (Lincei Fellow, University of Genoa), Presentation of *THE CHARTER OF ROME ON THE RESILIENCE OF ART CITIES TO NATURAL CATASTROPHES*
- 12.30 Addresses by:
- Virginia MURRAY, Vice-Chair of UNISDR Scientific and Technical Advisory Group
- Volker TER MEULEN, Co-Chair of IAP
- Enrico BRUGNOLI, ICSU Committee on Scientific Planning and Review
- Giovanni PUGLISI, President Emeritus of the Italian National Commission for UNESCO
- 13.00 Formal subscription of the Charter

ORGANIZING COMMITTEE

Michele CAPUTO, Chair of the Lincei Environment Committee, Professor of Geophysics, Sapienza University of Rome

Massimo LIVI BACCI, Lincei Fellow, Professor of Demography, University of Florence

Antonio PAOLUCCI, Lincei Fellow, Director of the Vatican Museums, Rome

Mario PRIMICERIO, Lincei Fellow, former Mayor of Florence

Alberto QUADRIO-CURZIO, President of the Accademia Nazionale dei Lincei, Professor of Economics - *Coordinator*

Giovanni SEMINARA, Lincei Fellow, Professor of Fluid Mechanics, University of Genoa - *Coordinator*

Antonio SGAMELLOTTI, Lincei Fellow, Professor of Inorganic Chemistry, University of Perugia - *Coordinator*

INTERNATIONAL COMMITTEE

Juan ASENJO, Co-Chair of the Inter-American Network of Scientific Academies (IANAS)

Mostapha BOUSMINA, President of the Network of African Science Academies (NASAC)

Michael CLEGG, formerly Co-Chair of the Inter-American Network of Scientific Academies (IANAS)

Krishnan LAL, Co-Chair of IAP and President of the Association of Academies and Societies of Sciences in Asia (AASSA)

Alberto QUADRIO-CURZIO, President of the Accademia Nazionale dei Lincei

Giovanni SEMINARA and Antonio SGAMELLOTTI, Coordinators of the Organizing Committee

Volker TER MEULEN, Co-Chair of IAP

Jos VAN DER MEER, President of the European Academies' Science Advisory Council (EASAC)

VENUE OF THE CONFERENCE

Accademia Nazionale dei Lincei
Palazzo Corsini, Via della Lungara 10
Rome

CONFERENCE SECRETARIAT

phone +39 06 6802 7217
mze@lincei.it

The Conference is organized with the contribution of



2016 Progetto **Firenze**

*L'alluvione
Le alluvioni*



Consiglio Nazionale
delle Ricerche

E-RIHS
EUROPEAN RESEARCH INFRASTRUCTURE
FOR HERITAGE SCIENCE

