



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

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), *Are river floods increasing in Europe?*
- 11.20 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*
- 11.50 Coffee break
- 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 2 - 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)

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

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)

Dario NARDELLA (Mayor of Florence), *TO BE CONFIRMED*

Enrico ROSSI (President of Tuscany Region), *TO BE CONFIRMED*

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

Day 2 - Wednesday, 12 October

Session 3 - Science and technology for disaster resilience, 1

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

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 4 - Science and technology for disaster resilience, 2

Chair: Carlo DOGLIONI (Lincoln 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 5 - Science and technology for disaster resilience, 3

Chair: Giuliano PANZA (Lincoln 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 6 - Science and technology for disaster resilience, 4

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 7 - Resilience of ancient cultural heritage, 1

Chair: Helen WALLACE (British Academy, London)

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

Day 3 - Thursday, 13 October

Session 8 - Resilience of ancient cultural heritage, 2

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

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

Final session

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

- 11.15 Giovanni SEMINARA (Lincei Fellow, University of Genoa), Presentation of the *ROME CHARTER FOR THE RESILIENCE OF THE CITIES OF ART*
- 11.30 Address by Mr. Matteo RENZI, Prime Minister of Italy
- 12.00 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
- 12.30 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

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

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

Volker TER MEULEN, Co-Chair of IAP

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

Juan ASENJO and Michael CLEGG, Co-Chairs of the Inter-American Network of Scientific Academies (IANAS)

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

Giovanni SEMINARA and Antonio SGAMELLOTTI, Coordinators of the Organizing Committee

VENUE OF THE CONFERENCE

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