

International Summer School, 14 - 18 July
University of Calabria, Cosenza - ITALY-

ENVIRONMENT-MATERIAL INTERACTION:
Preventive conservation of monuments and archaeological sites in the
Mediterranean Basin

PROGRAM

Monday 14 July

- 9:00 - 9:30 Welcome – G. M. Crisci (Rector of University of Calabria), C. Indiveri (Director of DiBEST Department, University of Calabria)
- 9:30 - 11:20 E. Palazzi (ISAC-CNR Turin) **Climate observations and projections: strengths and uncertainties**
- 11:20 - 11:40 Coffee break
- 11:40 - 13:30 M. Álvarez de Buergo (CSIC Madrid) **Building materials for Cultural Heritage: from the quarry to the site**
- 13:30 - 15:00 Lunch
- 15:00 - 16:30 A. Ceregato (ISMAR – CNR Bologna) **Sea Level Rise Models and Applications to Cultural Heritage**
- 16:30 - 16:50 Coffee break
- 16:50 - 18:30 C. Urzi (University of Messina) **Biodegradation vs bioprotection in the built heritage**

Tuesday 15 July

- 9:00 - 10:50 A. Török (Budapest University of Technology and Economics) **Damage processes of natural and artificial stones in urban and rural environment**
- 10:50 - 11:10 Coffee break
- 11:10 - 13:00 B. Davidde, S. Ricci (ISCR, Rome) **The underwater environment: examples of archaeological sites in the Mediterranean basin and analysis of the biological processes**
- 13:00 - 14:30 Lunch
- 14:30 - 15:45 A. Bonazza (CNR-ISAC Bologna) **Climate change and Heritage Climatology**

15:45 – 17:00 C. M. Belfiore (University of Catania, University of Calabria) **Impact of air pollution in deterioration of carbonate stone Heritage materials: examples from some European urban environments**

Wednesday 16 July

9:00 - 10:50 A. Bonazza (CNR-ISAC Bologna) **Vulnerability Atlas and Guidelines in facing climate change impact on cultural heritage**

10:50 – 11:10 Coffee break

11:10 – 13:00 J. A. Cassar (University of Malta) **Adaptation strategies for archeological sites**

13:00 - 14:30 Lunch

14:30 - 16:20 M. Álvarez de Buergo (CSIC Madrid) **Building materials consolidation: examples of application in cultural heritage**

16:20 - 16:40 Coffee break

16:40 - 18:30 A. Török (Budapest University of Technology and Economics) **Salt crystallization effects on building materials**

Thursday 17 July

9:00-10:50 F. Bruno (University of Calabria) **Information Communication Technology and Cultural Heritage**

10:50 – 11:10 Coffee break

11:10 - 13:00 L. Dei (University of Florence) **Nanoscience and nanotechnology for Cultural Heritage Conservation**

13:00 - 14:30 Lunch

14.30 – 15:15 V. Venuti (University of Messina) **Innovative physical methodologies for illuminating the past: neutrons and synchrotron radiation in Cultural Heritage**

15:15 - 17:15 **Practical Session; Climate Myths**

Friday 18 July

09:00 - 13:00 Visit to the **Museum of Reggio Calabria** (Dioscuri sculptures and Bronzi di Riace)

13:00 - 14:00 Lunch

14:00 - 20:00 Visit to **Tropea**

Scientific Committee

- M. Álvarez de Buergo (CSIC Madrid)
- D. Barca (University of Calabria)
- S. Bonomi (Soprintendenza per i Beni Archeologici della Calabria)
- A. Bonazza (CNR-ISAC Bologna)
- F. Bruno (University of Calabria)
- J. A. Cassar (Heritage Malta)
- G. M. Crisci (University of Calabria)
- V. Crupi (University of Messina)
- L. Dei (University of Florence)
- C. Indiveri (University of Calabria)
- M. F. La Russa (University of Calabria)
- D. Miriello (University of Calabria)
- C. Pelosi (La Tuscia – University of Viterbo)
- C. Sabbioni (CNR-ISAC Bologna)
- A. Török (Budapest University of Technology and Economics)
- C. Urzì (University of Messina)

Organizing Committee

- C. M. Belfiore (University of Catania)
- A. Bonazza (CNR-ISAC Bologna)
- M. F. La Russa (University of Calabria)
- P. De Nuntiis (ISAC-CNR Bologna)
- A. Macchia (La Sapienza - University of Rome)
- R. Moscardelli (Cultura e Innovazione)
- M. Pina (Cultura e Innovazione)
- A. Pecci (University of Calabria)
- S. A. Ruffolo (University of Calabria)