

Advances in Urban Mitigation Technologies | International Conference and Workshop

12 July 2018 – Polytechnic University of Bari, Italy

International Conference

Aula Magna "A. Alto" – Polytechnic University of Bari

- 09.00 – 10.00 Registration of participants**
- 10.00 – 10.15 Welcome Addresses**
E. Di Sciascio | Rector of Polytechnic University of Bari
U. Fratino | Director of DICATECh Department of Polytechnic University of Bari
R. Masciopinto | President of Engineering Council of Province of Bari
- 10.15 – 10.30 Introduction**
F. Fiorito | Polytechnic University of Bari, Italy
- 10.30 – 11.10 Advances in Urban Mitigation Technologies. Current Issues and future prospects**
M. Santamouris | University of New South Wales Sydney, Australia
- 11.10 – 11.50 A Simple Method to evaluate adaptation measures for Urban Heat Island**
H. Takebayashi | University of Kobe, Japan
- 11.50 – 12.30 Assessment of Urban Heat Island mitigation strategies at local building and street scale**
E. Bozonnet | University of La Rochelle, France
- 12.30 – 13.00 Discussion and concluding remarks**

International Workshop: the viewpoint of scientists, policy markers and industry

Conference Room of DICATECh Department – Polytechnic University of Bari

- 14.30 – 14.45 Welcome Addresses**
F. Fatiguso | Polytechnic University of Bari, Italy
- Urban Heat Island and energy performance.**
Session Chair: F. Martellotta | Polytechnic University of Bari, Italy
- 14.45 – 15.00 Evaluation of UHI phenomenon and of its effects on buildings energy performance**
F. Asdrubali, L. Evangelisti, C. Guattari | Roma Tre University, Italy
- 15.00 – 15.15 Evaluation of UHI phenomenon in high-density cities: the case of Toronto**
U. Berardi | Ryerson University, Canada
- 15.15 – 15.30 Standard and novel performance indexes for the thermal behavior of opaque building components in the hot season**
A. Muscio | University of Modena and Reggio Emilia, Italy
- 15.30 – 15.45 Outdoor curtains and drapes as modular systems to mitigate urban heat island and achieve further benefits**
E. Morini, F. Rossi | University of Perugia, Italy
- 15.45 – 16.15 *Afternoon break*
- Mitigation strategies of UHI: role of projects and technologies**
Session Chair: E. Bozonnet | University of La Rochelle, France
- 16.15 – 16.30 Climate Oriented Urban Design. Experimentation on the open areas of the urban context in Athens**
A. Fotopoulou, A. Ferrante | University of Bologna, Italy
- 16.30 – 16.45 Mitigation and local adaptability to climate change of historic districts in the Mediterranean area: a case study**
E. Cantatore, F. Fatiguso | Polytechnic University of Bari, Italy
- 16.45 – 17.00 New concept for high-efficient UHI mitigation and building energy saving systems based on smart control of water nebulization**
G. Ulpiani¹, M. Zinzi², S. Agnoli², C. Di Perna¹, M. D'Orazio¹, E. Di Giuseppe¹
¹Polytechnic University of Marche, Italy
²Italian National Agency for New Technologies, Energy and Sustainable Economic Development ENEA, Italy
- 17.00 – 17.15 Innovative smart chromogenic materials for UHI mitigation**
A. Cannavale, F. Martellotta, U. Ayr, F. Fiorito | Polytechnic University of Bari, Italy
- 17.15 – 17.45 Panel Discussion with contributions from stakeholders and industry**
Moderator: H. Takebayashi | University of Kobe, Japan
- 17.45 – 18.00 Discussion and concluding remarks**
M. Santamouris | University of New South Wales Sydney, Australia