

## 25<sup>th</sup> February 2013

### MORNING

9.00 **Registration**

9.30 **Welcome addresses**

10.45 *Coffee break*

**CHAIR: ANTONIO RASCHI**

11.10 **Giampiero Maracchi**  
Globalization and urban climate

11.30 **Dario Camuffo**  
Early hygrometric observations: the Chiminello goose pen hygrometer versus the De Saussure hair hygrometer used in Padua from 1794 to 1826

11.50 **Gerald Mills**  
The future for Urban Climatology

12.10 **Andrea Matzarakis**  
The dilemma in thermal comfort estimation in urban areas

12.30 **Giovanni Maresca**  
A framework for climate services

12.45 **Elisabete Figueiredo**  
'The rain in Spain stays mainly in the plain': why is it important to consider social perceptions on meteorology and climate studies in the assessment and management of risk?

13.00 *Lunch*

### AFTERNOON

#### SESSION 1 - SALA PISTELLI HISTORY OF METEOROLOGY

**CHAIR: DARIO CAMUFFO**

14.30 **Emilio Borchi**  
The Ximeniano Observatory: two hundred years of meteorology in the heart of Florence

14.45 **Luigi Iafrate**  
Development of modern theories on weather forecasting in Italy until the Second World War

15.00 **György Baranka**  
Ozone measurements in 19<sup>th</sup> century on the territory of the Habsburg Empire

15.15 **Maja Žuvela-Aloise**  
Reconstructing the urban climate of Vienna using historical maps dating to the early instrumental period

15.30 **Daniele Vergari**  
Florentine daily meteorological observations in second half of eighteenth century (1751-1774)

15.45 **Maria Carmen Beltrano**  
150 years of thermometric observations in Rome

16.00 **Marianna Nardino**  
The Climate of Salò: the historical perspective of a lake Observatory in Italy

16.15 **Luigi Iafrate**  
Even Tuscany was struggling with the Little Ice Age

16.30 *Coffee break*

17.15 **Luciano Massetti**  
The meteorological observatory 'Pietro Monte' and its historical, scientific and didactic importance

17.30 **Teodoro Georgiadis**  
Men in the wind: the role of historical observatories in planning the future

## SESSION 2 - SALA GIORDANO URBAN CLIMATE

CHAIR: **BENIAMINO GIOLI**

14.30 **Krzysztof Fortuniak**  
Long term turbulence measurements over urbanized area in Lodz, central Poland

14.45 **Lorenzo Giovannini**  
Numerical simulation of boundary-layer phenomena and urban-scale processes in the alpine city of Trento

15.00 **Alberto Martilli**  
Interaction between urban meteorology and building energy consumption: modeling approach and application to Madrid, Spain

15.15 **Giovanni Gualtieri**  
Analysis of 20 year air quality trends in the city of Florence, Italy

15.30 **Włodzimierz Pawlak**  
12 years of energy balance and CO<sub>2</sub> flux measurements in Łódź, Poland

15.45 **Mauriusz Zieliński**  
Scintillometer measurements of the sensible heat flux in Łódź, central Poland

16.00 **Mara Bruzzi**  
Development and characterization of miniaturized solid-state devices for environmental monitoring

16.30 *Coffee break*

CHAIR: **GIOVANNI GUALTIERI**

17.00 **Chao Ren**  
A quick method of developing urban climatic map for high density cities: an experience from Kaohsiung, Taiwan

17.15 **Tamás Gal**  
An automatic method to create an urban vegetation database using 4 band aerial photographs for sky view factor calculation: a case study in Szeged, Hungary

17.30 **Marco Moriondo**  
Setting up of a mobile network system for the monitoring of the environmental conditions of Florence urban city

# 26<sup>th</sup> February 2013

MORNING

CHAIR: VINCENZO MAGLIULO

- 9.00 **Domingo Álvarez - Rasilla**  
Heat waves and urban comfort in the metropolitan area of Madrid: proposal of an urban heat index
- 9.15 **Carolina Vasilikou**  
The microclimate of small urban space: pedestrian thermal comfort in the historical city center of Rome
- 9.30 **Márton Kiss**  
Urban climatological effects of tree stands: a planning-oriented approach based on the evaluation of ecosystem services in Szeged, Hungary
- 9.45 **Mikhail Lokoshchenko**  
Urban 'heat island' phenomenon and climate of Moscow city
- 10.00 **Martina Petralli**  
Detailed intra-urban thermal monitoring in Florence and application of biometeorological indices: the effect of green areas
- 10.15 **Camila Mayumi Nakata**  
A review of methods of urban climate's representation and simulation

10.30 *Coffee break*

CHAIR: PIERO TOSCANO

- 11.15 **Chao Ren**  
Urban climate research in Beijing, China: a review of urban heat island study
- 11.30 **Donatella Spano**  
A new urban site to develop future sustainable planning alternatives
- 11.45 **Andrea Matzarakis**  
Development and application of assessment methods for thermal bioclimate condition in Stuttgart
- 12.00 **Sajjad Hussain Sajjad**  
A comparative analysis of the change in temperature on urban, town and rural areas of Pakistan
- 12.15 **Davide Panosetti**  
First findings of the thermal regime analysis of the biggest green wall of Europe, Rozzano, Milano
- 13.00 *Lunch*

AFTERNOON

CHAIR: **MARIANNA NARDINO**

- 14.30 **Azad Mohammed Ameen Kaka Shekh**  
Impact of the city streets on city temperature/streets of the Erbil city as a case study
- 14.45 **Marina Baldi**  
Climate extremes in urban areas and human health. The summer heat waves case
- 15.00 **Nikos Papamanolis**  
The contribution of built environment to the formation of urban climate in Greek Cities
- 15.15 **Pavel Kostantinov**  
Modeling of the meteorological parameters and thermal comfort conditions inside the urban boundary layer during Moscow's 2010 summer heat wave
- 15.30 **Pablo Jiménez-Díaz**  
The impact of urbanization on land use and landscape. An architectural approach
- 15.45 **Valentina Grasso**  
Evaluating communication efforts and urban climate constraints for energy savings. The experience of RACES project in 5 Italian cities
- 16.00 **CONCLUSION** **Antonio Raschi**