Scientific Program

Sunday - December 14, 2014

19:30-22:30 Meeting Opening: welcome drink, registration, distribution of badges and vouchers, plan of the meeting room, instructions

Monday - December 15, 2014

8:30-9:30 Registration
9:30-10:20 Welcome from prof. Luigi Campanella, President of the Sapienza University
10:20-13:00 Cultural Heritage Session; Chairman: Maja Gagić-Kvaščev
10:20-11:10 Lecture
Matthias Otto, P. Rathsack, M. Kreuzer, M. Kroll, Simulation and Data Treatment in Chemical Analysis of Fossile and Regenerative Resources
11:10-11:30 coffee break
11:30-11:55 Ulderico Santamaria, F. Morresi, C. Aguzzi, L. Colarusso, Problems in Processing and Correlation of Data Relevant to the Study of Artworks
11:55-12:20 F.G. France, M. Wilson, J. Hessler, Multivariate Analysis of Historic Cartography, Manuscripts and Mayan Flasks for Analysis of Pigments, and Detection of Change Due to Environment and Treatment
12:20-12:45 O.H. Barbu, M. Georgescu, Image Processing and X-ray Fluorescence Analysis for Pigment Identification
12:45-14:15 lunch
14:15-16:20 Cultural Heritage Session; Chairman: Pasquale Avino
14:15-15:05 Lecture
Federico Marini, Chemometric Methods for the Analysis of Data Coming From Designed Experiments
15:05-15:30 P. Fermo, P. Ielpo, R. Gonzalez, D. Comunian, G. Tartari, G. Viviano, Chemical Characterization of Indoor Particulate Matter and Ashes in Traditional Homes of Mt. Everest Region in Central Southern Himalaya (Nepal): Results and Source Apportionment
15:30-15:55 A. Genga, P. Ielpo, M. Siciliano, R. Buccolieri, S. Di Sabatino, PM2.5 in the Port City of Brindisi (IT): Characterization, Source Assessment and Dispersion Modeling

16:20-16:40  *coffee break*

16:40-18:45  **Cultural Heritage Session; Chairman: Fenella G. France**

16:40-17:30  **Lecture**  
**Giovanni Visco**, P. Fortini, S.H. Plattner, M.P. Sammartino, Comparison of Microclimate Campaigns in the Carcer Tullianum in Absence and in Presence of Visitors

17:30-17:55  **Z. Haghighi, A. Bagheri Garmarudi, A. Karimy**, Chemometric Processing of Infrared Spectral Data for Detection of Binding Medium in Safavid Persian Wall Paintings


20:00-  *Social dinner*

**Tuesday - December 16, 2014**

9:00-11:00  Social program: Visit Palazzo Valentini

11:00-11:15  *coffee break*

11:15-13:20  **Cultural Heritage Session; Chairman: Albena Kirilova Detcheva**


11:40-12:05  **F. Frasca, A.M. Siani, G.R. Casale, Ł. Bratasz, M. Strojecki, A. Mleczkowska**, The Use of the Analogue Method to Identify Peculiar Microclimate Patterns: the Case Study of Mogila Abbey in Kraków

12:05-12:30  **A. Anendola, S.H. Plattner, G. Visco, M.P. Sammartino**, Study of the Migration of the Soluble Anions in Historic Masonry by Three Complementary Approaches


13:20-14:30  *lunch*

14:30-16:35  **Environment Session; Chairman: Mauro Tomassetti**

14:30-15:20  **Lecture**
Richard G. Brereton, Chemometrics: Fads and Fallacies

15:20-15:45 A. Giuseppetti, R.C. Bonanni, E. Paci, S. Capanna, G. Tranfo, R. Bucci, F. Marini, Phthalate Exposure in Assisted Reproduction Patients versus Healthy Couples: Comparison between Traditional Statistics and Chemometrics

15:45-16:10 G. Tranfo, D. Pigini, E. Paci, R.C. Bonanni, Exposure and Effect Biomarkers for Environmental Pollution and Cigarette Smoking: Statistical Analysis of Data From Volunteers

16:10-16:35 L. Trizio, D. Cassano, G. Pappagallo, A. Lopez, V. F. Uricchio, P. Ielpo Multivariate statistical tools for classification of soils and ground waters in Apulian agricultural sites

16:35-17:35 Poster Session; Chairman: Matthias Otto

17:35- Prize Party: photo of the winner with the prizes and extraction of the books supplied by our supporter

Wednesday - December 17, 2014

9:50-10:40 Environment Session; Chairman: Luigi Campanella

9:00-9:50 Lecture Pasquale Avino, M. Manigrasso, Submicrometer Aerosol Distribution in Urban Area

9:50-10:15

10:15-10:40 M. Manigrasso, P. Avino, Modeling Traffic Aerosol Deposited in the Human Respiratory System

10.40-10.50 coffee break

10:50-12:55 Environment and Cultural Heritage Session; Chairman: Maurizio Manigrasso


11:15-11:40 C. Scatigno, M.P. Sammartino, S. Gaudenzi, A New Method For a Non-Destructive Extraction of Soluble Salts. Preliminary Results on Roman Brick and Mortars


12:05-12:30 L. Di Luga, G. Visco, M.P. Sammartino, P. Fortini, Multiparametric Comparison of the Sacred Spring Waters of the Right Side of the Roman Forum by in Field and in Laboratory Chemical Analysis

12:30-12:55 M.P. Sammartino, C. Colantino, M. Nardi, G. Visco, Lighting by Multispectral LEDs and Case by Case Procedure Suitable to Inhibit the Growth of Photosynthetic Biodeteriogens in Hypogean Environment

12:55-13:00 See you in ??? on 2016

13:00- lunch
**Poster Session**


**A. Detcheva, V. Simeonov, E. Ivanova**, Chemometric Expertise of Bulgarian Mineral Waters

**I. Drago, D. Ferro, C. Bellafiore**, Preliminary Studies for a New Approach of Aes Rude Weight Valuation

**M.G. Fonseca, W.F.C. Rocha, L.N. Batista, V.F. Silva, C.N. Kunigami**, Spectrophotometric Methodology to Quantify Antioxidants in Biodiesel by Multivariate Calibration

**C. Genova, G. Visco, M.P. Sammartino, G. Cau**, Physico-chemical, Colorimetric and Mineralogical Characterization of a Plaster Sample Coming from "Palazzo Governi", Cagliari (Italy)

**V. Graziani, D. Ferro**, Procedures of Statistical and Spatial Analysis in Support to the Studies on the Phoenician-Punic Metallurgical Production in the Western Mediterranean Sea

**F. Marini, M. Tomassetti, L. Campanella, P. Flamini**, Differentiation of Roman *marmora* Samples Using NIR Spectroscopy and Chemometrics

**E. Scarpellini, R. Caminiti, L. Campanella, S.H. Plattner, S. Nunziante Cesaro**, Innovation in Paper Preservation: Green Chemical Treatments - First Results


**A. Teneva, A. Detcheva, V. Simeonov**, Multivariate Statistical Interpretation of a Data Set of Bulgarian Ancient and Early-Christian Glasses