



## Scientific programme 27-30 May

Sunday 27 May 2012

**18.30-20.30 Meeting Opening: welcome drink, opening of registration desk** at  
Casa dell'Aviatore, Viale dell'Università, 20  
see: <http://www.casaviatore.it/index.php>

Monday 28 May 2012

8.30-9.30 Registration  
9.30-10.10 Welcome from Local Authority  
Meeting Introduction, dott Giovanni Visco

**10.10-11.10 Opening Lecture**  
**Richard G. Brereton** Quantitative Application of Self Organising Maps

11.10-11.30 *coffee break*

**11.30-12.45 Cultural Heritage Session; Chairperson: J. J. González-Vidal**

11.30-11.55 **P. Baldassarri**; Palazzo Valentini (Rome, Italy) - Archaeological Investigations and Preservation

11.55-12.20 **L. D'Alessio**; Everything is fractal

12.20-12.45 **V.C. Măruțoiu, L.C. Nicolae, O.F. Măruțoiu, I. Bratu, C. Măruțoiu, L. Jäntschi**;  
Painting Materials Analysis of the "Sf. Nicolae" Church-Farcasesti, Gorj, Romania

12.45-14.00 *lunch*

**14.00-15.00 Lecture**  
**Angelo Montenero**; Packaging vs Environment

**15.00-15.50 Environment Session; Chairperson: M.P. Sammartino**

15.00-15.25 **P. Ielpo, V. Paolillo, G. de Gennaro**; Gaseous Pollutants and PM10 Trends From Monitoring Networks in Bari Province: PCA and APCS Applications on a Two Years and Half Data Set

15.25-15.50 **A. Krejčová, I. Petrovická, J. Návesník, T. Černohorský, M. Pouzar, J. Jičínská**; Are There Significant Differences in the Quality of "Organic" and "Conventional" Vegetable?

15.50-16.10 *coffee break*

**16.10-17.25 Cultural Heritage Session; Chairperson: R.G. Breton**

16.10-16.35 **M. Marabelli, A. Mannaioli, S. Ridolfi, M.P. Sammartino**; Diagnostics Applied to an Easel Painting by Ferraù Fenzoni (Cathedral of Todi)

16.35-17.00 **J. J. González-Vidal, R. Pérez-Pueyo, M. J. Soneira, S. Ruiz-Moreno**; Pattern Recognition Based on Principal Component Analysis in Raman Spectroscopy Applied to Artistic Pigments

17.00-17.25 **M. Gajić-Kvašček, V. Svoboda, R. Jančić-Heinemann, M. Dimitrijević, D. Milovanović, S. Polić-Radovanović**; Classification of Neolithic Ceramics and Clays According to Their Morphological Characteristics

17.25-18.30 **Prize Party** (for meeting participants, for students on Wednesday)

18.30- *free*

**Tuesday 29 May 2012**

**9.00-10.00 Lecture**

**Federico Marini**; Coupling Chemometrics and NIR Spectroscopy for Food and Drug Authentication

**10.00-11.15 Cultural Heritage Session; Chairperson: A.M. Salvi**

10.00-10.25 **A. Baciú, N. Vornicu, C. Bibire**; XRF and FT-IR Spectroscopy Analysis for Identification of Pigments and Binders Found on Wall Paintings From the Three Hierarchs Church, Iasi

10.25-10.50 **C. Mazzuca, L. Micheli, F. Marini, M. Bevilacqua, G. Bocchinfuso, G. Palleschi, A. Palleschi**; Multifunctional Hydrogels for the Cleaning of Paper Samples

10.50-11.15 **B. M. Wise, J. M. Shaver**; On the Interpretability of O-PLS Filtered Models

11.15-11.35 *coffee break*

**11.35-12.50 Environment Session; Chairperson: Prof. A. Montenero**

11.35-12.00 **I. G. Hatvani, N. Magyar, P. Tanos, J. Korponai, I. K. Székely, A. Herzig, J. Kovács**; Determining Anthropogenic Effects Using Principal Component Analysis on a Fluvial (E Hungary) and Two Lake Ecosystems (W Hungary, W Austria)

12.00-12.25 **L. Saidi-Mansouri, A. Kachbi, O. Kebiche-Senhadj, M. Benamor**; Characterization and Stability Of CTA-Based Polymer Inclusion Membranes Using 2-NPOE as Plasticizer and BMIMPF<sub>6</sub> as Ionic Liquid

12.25-12.50 **M. Tortora, G. Guida, M. P. Sammartino**; Metallographic, XRF and SEM/EDS Analyses of Probable Roman Surgical Instruments



12.50-13.50 *lunch*

**14.30-16.30** *Visitabo ad Romanae Domus urbana et privatus Thermae in effossioni de Palazzo Valentini, Romae* (see <http://www.palazzovalentini.it/>)

16.50-18.05 *Environmental Session; Chairperson: G. Visco*

16.50-17.15 **M. Eremić-Savković, M. Gajić-Kvašček, V. Andrić**; Multivariate Analysis of Eight Radionuclides Using the Soil Monitoring Network Data

17.15-17.40 **I. Alfieri, G. Barone, L. Bergamonti, A. Lorenzi, P.P. Lottici, P. Mazzoleni, A. Montenero, S. Pasquale, G. Predieri**; Characterization and Photocatalytic Activity of TiO<sub>2</sub> Nanoparticles on Modica and Comiso Stones

17.40-18.05 **P. Avino, G. Capannesi, M. Manigrasso, A. Rosada, M.V. Russo**; Deep Investigation on Inorganic Fraction of Atmospheric PM in Mediterranean Area by Neutron and Photon Activation Analysis

20.30- *Social dinner*

## Wednesday 30 May 2012

**9.20-10.20** **Lecture**

**Giovanni Visco, S.H. Plattner, G. Guida, S. Ridolfi, G.E. Gigante**; Daggers, Rings, Axes or Fibulae Have Different Composition? A Multivariate Study on Central Italy Bronzes from Eneolithic to Early Iron Age

10.20-11.10 *Cultural Heritage Session; Chairperson: A. Montenero*

10.20-10.45 **G.E. Gigante, S. Ridolfi**; Multivariate Analyses as a Necessary Tool to Improve the XRF Data Treatment

10.45-11.10 **M.P. Sammartino, R. Reale, S.H. Plattner, G. Visco**; The Old Italian Technical Normative NORMAL 07-81 Can Be Improved? A Possible Accurate Measurement of Water Absorption by Stone

11.10-11.30 *coffe break*

**11.30-11.55** *Cultural Heritage Session; Chairperson: G.E. Gigante*

11.30-11.55 **A.M. Salvi, F. Langerame, T. Gatta, M.P. Sammartino**; Surface Degradation of Indoor Stonework in an Ancient Roman Church: XPS and SEM/EDS Investigation

**12.00-12.55** **Poster session; Chairperson: M. P. Sammartino**

12.00-12.50 in front of the poster the discussion on research presented with one of the authors

12.50-12.55 **G. Visco**, thanks for your participation, we shall see in 2014 in the island ?

12.55- *lunch and more thanks*

## Poster Session

**A. Caratelli, F. Frasca, G.R. Casale, P. Fortini, A.M. Siani**; Carcer-Tullianum in the Forum Romanum in Rome: a Preliminary Microclimate Investigation

**T. Gatta, E. Gregori, F. Marini, M. Tomassetti, G. Visco**; Different Types of Marble Classification Using Thermal Analysis and Chemometry in Order to Identify Provenance

**J.B. Ghasemi, S. Pirhadi**; Molecular Docking, Pharmacophore Modeling, and Virtual Screening for the Discovery of New Reverse Transcriptase Inhibitors

**S.P. Grapini, A. Baci, C. Măruțoiu, M. Miclăuș, V.C. Măruțoiu, S. Dreve, I. Kacso, I. Bratu**; Scientific Investigations of a 16th Century Stall Belonging to the Evangelic Church from Bistrita, Bistrita-Nasaud County, Romania

**I.G. Hatvani, M. N. Reskóné, I. K. Székely, P. Tanos, J. Korponai, J. Kovács**; Determining the Temporal Sampling Frequency of Kis-Balaton and the Spatial Sampling Frequency of Lake Velence (W Hungary) Using Variograms

**C. Măruțoiu, M. Tecla, O.F. Măruțoiu, I. Bratu, V.C. Măruțoiu, L. Jäntschi**; Identification of Painting Materials From the Main Church of Polovragi Monastery

**D. Ruiu, M. Castrucci, G. Visco and L. Campanella**; Efficiency Evaluation of Different Types of Packaging In The Protection of Three Drugs Using Photostability Tests

**M. Tomassetti, F. Marini, L. Campanella, A. Coppa**; Inductively Coupled Plasma (ICP), Thermogravimetric (TG), Derivative Thermogravimetric (DTG) and Chemometric Study of Fossil Bones From an Archaeological Site

## Accepted but unfortunately not present

**V. Boti, V. Sakkas, T. Albanis**; Measurement Uncertainty of a Matrix Solid Phase Dispersion Analysis Method of Endocrine Disruptors in Different Food Commodities; oral presentation