

11-12 Gennaio 2016
Aula Marconi, Consiglio Nazionale delle Ricerche
Roma, Piazza Aldo Moro,7

Programma

Lunedì 11 gennaio 2016

14.00-15.00 **Registrazione e Saluti di Benvenuto**

Sessione I

Materiali innovativi ed eco-sostenibili e metodi per il consolidamento, la pulizia e la protezione di oggetti di interesse storico, archeologico e artistico

15.00-15.35 **keynote speaker: Luigia Sabbatini** (Dipartimento di Chimica – Università degli Studi di Bari Aldo Moro)

15.35-16.00 **Lignin-based reactive macromers in order to consolidate degraded wood** – Marco Orlandi

16.00-16.30 *coffee break*

16.30-16.55 **New adhesive formulations for degraded painted works of art** – Dafne Cimino

16.55-17.20 **Preliminary approach to the study of sardinian natural pozzolanic materials as innovative and eco-friendly additives for repair mortars** – Ombretta Cocco

17.20-17.45 **Removal of natural waxes deposit from artistic surfaces by means of TiO₂-NPs photocatalysis** – Giulia Torrielli

Martedì 12 gennaio 2016

Sessione II

Comportamento a lungo termine dei materiali: interazione e degrado dei materiali in opere d'arte

9.00-9.35 **keynote speaker: Antonella Rossi** (Dipartimento di Chimica Inorganica ed Analitica – Università degli Studi di Cagliari)

9.35-10.00 **Interaction of copper-based green pigments with linseed oil: an FTIR study** – Laura Cartechini

10.00-10.25 **Following a fading pink path: synthesis characterisation and accelerated aging of eosin-based lakes** - Costanza Miliani

10.25-10.50 *coffee break*

- 10.50-11.15 **Effects of the visible light on the darkening process of chrome yellow pigments used by Vincent van Gogh** – Letizia Monico
- 11.15-11.40 **Characterisation and differentiation of aged neat linseed oil and white-oil mixtures** – Serena Carlesi

Sessione III

Metodi per la diagnostica dei materiali organici nei beni culturali: strategie di campionamento e tecniche di diagnostica micro-distruttive e non invasive

- 11.40-12.15 **keynote speaker Ilaria Bonaduce** (Dipartimento di Chimica e Chimica Industriale dell'Università di Pisa)
- 12.15-12.40 **Integrated approach for the chemical characterization of whole wall cell materials: application to archaeological woods** – Luca Zoia
- 12.40-13.05 **Hyperspectral imaging technique for the study of red lake pigments** – Marcello Picollo
- 13.05-14.30 *Pranzo*
- 14.30-14.55 **New protocols for MALDI-MS analysis of historical paint binders** – Inez D. Van Der Werf
- 14.55-15.20 **Oils used in modern oil-based paint media: a comprehensive study by mass spectrometry** – Francesca Modugno
- 15.20-15.45 **Agar-gel micro-extraction and high sensitivity detection (SERRS) of organic dyes** – Cristiana Lofrumento
- 15.45-16.20 Coffee break

- 16.20-18.00 **ROUND TABLE “L'importanza della ricerca scientifica nella tutela dei Beni Culturali: prospettive di finanziamento e le ricadute occupazionali”**
 interverranno relatori e specialisti del settore tra cui hanno dato la loro adesione:

Prof. Riccardo Pozzo – Direttore del Dipartimento DSU-CNR

Dr.ssa Giuseppina Padeletti – CNR-ISMN

Dr. Lorenzo Appolonia – Soprintendenza Regione Autonoma Valle d'Aosta

Prof. Raffaele Riccio – Presidente della SCI

Dott.ssa Caterina Bon Valsassina – Direttore della Direzione Generale Educazione e Ricerca-
 MIBACT



SESSIONE POSTER

si terrà durante i coffee break

- P1 Removal of vandal signs from marble substrates: physical-chemical approach** - Barbara Salvadori, Emma Cantisani, Jana Striova, Valentina Trafeli, Samuele Caciagli, Marcello Del Colle, Beatrice Agostini
- P2 HPLC-DAD-MS and LDI-MS strategies for anthraquinoid lakes identification in paint samples** – Francesca Sabatini, Anna Lluveras-Tenorio, Ilaria Degano, Stepanka Kuckova, Maria Perla Colombini
- P3 Physico chemical characterization of carbon-based black pigments** – Alessio Spepi, Matteo Pieraccioni, Anna Lluveras Tenorio, Celia Duce, Ilaria Bonaduce Maria Rosaria Tiné, Maria Perla Colombini
- P4 Multivariate Analysis of Combined Fourier Transform Near-Infrared Spectroscopy (FT-NIR) and Raman Datasets for the improved differentiation of Drying Oils alone and Paint models** – Serena Carlesi, Cristiana Lofrumento, Costanza Cucci, Marcello Picollo, Marilena Ricci, Maurizio Becucci
- P5 The effect of de-pest of plant extracts according to written sources from the sixth century to the present time on historical papers** - Razieh Taheri, Dr Gholamreza Amin
- P6 From biomass to restoration a new green tool for the cleaning of artworks** – Francesca Volpi, Chiara Samori', Laura Mazzocchetti, Silvia Prati, Paola Galletti, Giorgia Sciutto, Loris Giorgini, Emilio Tagliavini, Rocco Mazzeo
- P7 Detection of residues after cleaning of artistic surfaces with PEO-PVA/borax hydrogels** – Chiara Riedo, Giulia Rollo, Oscar Chiantore
- P8 Py-GC/MS characterization of materials suitable for artistic surfaces dry cleaning** – Chiara Riedo, Dafne Cimino, Valentina Emanuela Selva Bonino, Oscar Chiantore
- P9 VOCs outgassing from museum display cases materials detected with SPME-GC/MS** – Chiara Riedo, Tommaso Poli, Oscar Chiantore
- P10 Breathing new life into historical brass wind instruments – the role of XPS surface analysis** – Federica Cocco, Silvia Palomba, Marzia Fantauzzi, Bernhard Elsener, Antonella Rossi
- P11 Development of biocleaning methods for the removal of synthetic paint and coating materials** – Giulia Germinario, Inez D. Van Der Werf, Rosa M. Montes-Estelles, José L. Regidor-Ros, Celeste Maurich, Costanza Miliani, Gerardo Palazzo, Luigia Sabbatini
- P12 A comparative geochemical study of bituminous mixture from two Apulian bronze age settlements** – Marianna Faraco, Antonio Pennetta, Daniela Fico, Giacomo Eramo, Italo Maria Muntoni, Giuseppe Egidio De Benedetto
- P13 Chemical characterisation of felt-tip pens for the conservation of Lina Bo Bardi's sketches** - Giulia Germinario, Inez D. Van Der Werf, Antonio Mirabile, Patrizia Moretti, Costanza Miliani, Luigia Sabbatini
- P14 An integrated multi methodological approach for characterizing the materials and residual pigments on a sarcophagus in St. Mark, marcellian and damascus catacombs** – Emma Cantisani, Roberta Iannaccone, Susanna Bracci, Barbara Mazzei
- P15 Preliminary conservation issues study of unearthed marble ruins in the plutonium of Hierapolis (Denizli, Turkey)** – Francesco D'Andria, Susanna Bracci, Piera Caggia, Emma Cantisani, Tommaso Ismaelli, Cristiano Riminesi, Barbara Sacchi, Giuseppe Scardozi, Silvia Vettori
- P16 Characterization of surface finishes on ancient historical buildings: an integrated analytical approach to establish the secrets of artisans in Salento (Southern Italy)** – Daniela Fico, Antonio Pennetta, Giuseppe Egidio De Benedetto
- P17 Simultaneous analysis of aldose and chetose by gas chromatography/mass spectrometry** – Marianna Faraco, Daniela Fico, Antonio Pennetta, Giuseppe Egidio De Benedetto
- P18 Comparative study of paint materials in three outdoor Keith Haring works: Pisa, Melbourne and Paris murals** – Jacopo La Nasa, Sibilla Orsini, Francesca Di Girolamo, Ilaria Degano, Francesca Modugno, Maria Perla Colombini