



Interim meeting
Scientific Research Working Group

**Pisa, Auditorium dell'Opera della Primaziale Pisana, Piazza
Arcivescovado**

7-8 October 2010

SCIENTIFIC PROGRAM

7 October 2010

09:00 Registration

09:30 Welcome

Understanding of Material Degradation

10:00. *Valentina Pintus, Shuya Wei, Manfred Schreiner:* Comparison of Single Shot and Double Shot Technique of Py-GC/MS for ageing studies of modern paint materials

10:20. *Leo, Piero Pucci, Gennaro Marino, Leila Birolo, Laura Cartechini, Antonio Sgamellotti, Ilaria Bonaduce, Alessia Andreotti, Maria Perla Colombini:* What can proteomics do for cultural heritage?

10:40 *Katrien Keune:* Degradation of Emerald green in *Descente des vaches* (1834-35) by Theodore Rousseau: an analytical study

11:00 – 11:30. *Coffee break*

11:30 *Marianne Odlyha, Laurent.Bozec, S.Jakiela, Terje Grontoft, Réne Larsen:* Evaluating Effects of Accelerated Ageing and Microclimates in Museums on Organic based Materials

11:50 *Ilaria Bonaduce, Leslie Carlyle, Maria Perla Colombini, Celia Duce, Carlo Ferrari, Rocco Mazzeo, Silvia. Prati, Erika Ribechini, Paola Selleri, Maria Rosaria Tiné, Emilio Tombari, Joyce H.Townsend:* Study on binding media in oil paintings: characterisation of linseed oil by DEMS, TGA and GC-MS

12:10 *Aviva Burnstock, Klaas Jan van den Berg, Suzan de Groot, Laura Hinde:* Characterization of efflorescence on 20th Century oil paintings – an analytical study

12:30 - 14:00. *Lunch*

Characterisation, Interpretation and Understanding of Heritage Materials and Objects

14:00 *Anabelle Križnar:* Authentication of wall paintings by the "Older Villach's Workshop" based on the analysis of materials and techniques

14:20 *Francesca Caterina Izzo, Klaas Jan Van Den Berg, Henk Van Keulen, Rossano Piazza, Guido Biscontin:* An analytical survey on formulations of 20th Century oil paints

14:40 *Ursula Baumer, Patrick Dietemann, Irene Fiedler, Jeanine Walcher:* Developments in the technique of early oil painting in Germany (c. 1330-1530)

15:00 *Vanessa Henriques Antunes, Orlando Anunciação:* A data mining analysis over a database of materials of Portuguese painting from the 15th and 16th centuries

15:20 *Václav Pitthard, Susanne Käfer, Silvia Miklin-Kniefacz, Marta Anghelone, Martina Griesser, Sabine Stanek*: **Technical study of varnishes from the collection of antique furniture belonging to the Prince of Liechtenstein**

15:40 - 16:10. Coffee break

Development of Methods for Stabilization, Monitoring, and Repair

16:10 *Guido Botticelli, David Carson, Giacomo Chiari, Fabio Fratini, Mauro Matteini*: **Ammonium phosphate-based treatment: an innovative mineral-inorganic approach for the consolidation of mural paintings. Pilot tests and scientific investigation**

16:30 *Livia Bucşa, Mihai Barhală, Monica Mironescu, Iasmina Moza*: **Problems of restoring mural painting with advanced fungic decay**

16:50 *Giancarlo Ranalli, Gabriele Alfano, Giuseppe Lustrato*: **Middle and long-term microbial monitoring of bio-cleaned wall paintings at Monumental Cemetery of Pisa**

17:10 *Robyn E. Hodgkins, Alexander K. Tucker-Schwartz, Cecily M. Grzywacz, Robin L. Garrell*: **Determining acetic and formic acid vapor concentrations in museum environments by an improved ion chromatographic method with revised acid diffusion coefficients**

8 October 2010

09:30 - 11:00. Visit to the monuments of Piazza dei Miracoli

11:00 - 13:00. POSTER SESSION

13:00 - 14:30. Lunch

Characterisation, Interpretation and Understanding of Heritage Materials and Objects

14:30 *Maria Perla Colombini, Ilaria Degano, Francesca Modugno, Erika Ribechini, Marco Rocchi*: **Analytical study of ancient pharmaceutical preparations**

14:50 *Tomas Markevicius*: **The Invisible Story of Esther: unveiling an extraordinary collaboration between Sandro Botticelli and Filippino Lippi in two 15th Century Cassoni. Comparative technical study of new findings with InGaAs IR Reflectography**

15:10 *Annelies van Loon, Katrien Keune*: **Backscattered-electron images of paint cross-sections, an information source for tracing paint defects**

15:30 *Aldo Romani, Catia Clementi, Chiara Grazia, Costanza Miliani*: **Photophysics of ancient anthraquinone-Al complexes: from the laboratory to the artwork**

15:50 *Costanza Miliani, Klaas Jan van den Berg, Brunetto G. Brunetti, Suzan de Groot, Manuela Vagnini, Matthijs de Keijzer, Henk van Keulen, Luc Megens Antonio Sgamellotti, Maarten R. van Bommel*: **Non-invasive investigation vs. micro-destructive analysis: the case of Mondrian's *Victory Boogie Woogie***

16:10 - 16:40. Coffee break

Advancement of Analytical Technologies

16:40 *Marco Ferretti, Stefano Legnaioli, Giulia Lorenzetti, Adele Foresta, Lorenzo Pardini e Vincenzo Palleschi*: **On the joint use of portable X-Ray Fluorescence and Laser-Induced Breakdown Spectroscopy in Archaeometallurgy**

17:00 *Roberto Olmi, Mauro Bacci, Costanza Cucci, Marcello Picollo, Stefano Pieri, Saverio Priori*: **An innovative technique for investigating the degradation of plastic artefacts**

17:20 *Alessia Andreotti, Antonio Cecchi, Giovanna Cecchi, Maria Perla Colombini, Costanza Cucci, Oana Cuzman, Cristina Fornacelli, Monica Galeotti, Francesca Gambineri, Iona Gomoiu, David Lognoli, Dan Mohanu, Lorenzo Palombi, Sara Penoni, Marcello Picollo, Daniela Pinna, Valentina Raimondi, Piero Tiano, Cristiana Todaro, Giorgio Valentini*: **Effects of low-fluence laser irradiation on mural paintings: test studies on a fresco and a secco model samples**

17:40 *Brunetto Giovanni Brunetti, Emilio Catelli, Rocco Mazzeo, Costanza Miliani, Silvia Prati, Francesca Rosi, Giorgia Sciutto, Antonio Sgamellotti*: **Development of new systems for the preparation of paint cross sections**

18:00 Concluding Remarks