The Non-Invasive Analysis of Painted Surfaces: Scientific Impact and Conservation Practice

National Portrait Gallery & Smithsonian American Art Museum

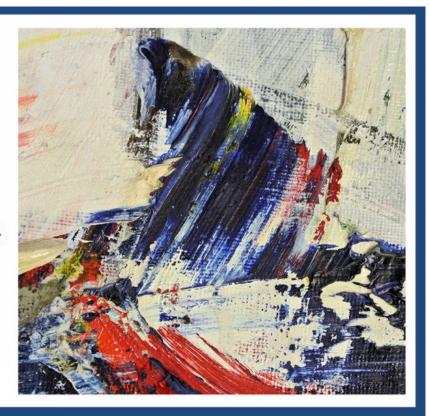
8th and G Streets NW, Washington DC, 2001 McEvoy Auditorium | February 20 - 21, 2014

Presented in partnership with the Lunder Conservation Center, ICOM-CC Paintings Working Group, ICOM-CC Scientific Research Working Group, and FAIC.



Lunder Conservation Center





Program

The Non-Invasive Analysis of Painted Surfaces: Scientific Impact and Conservation Practice

National Portrait Gallery & Smithsonian American Art Museum | McEvoy Auditorium | February 20 – 21, 2014

Thursday, February 20, 2014

9:00~AM – Attendee Sign-In Museum Lobby at 8^{th} and G Streets NW

9:30 AM – Introduction and Welcome McEvoy Auditorium

9:45 AM – Keynote Address

Strategies for analysis: balancing the desirability of non-invasive methods with the advantages of sampling

David Saunders, Keeper of Conservation and Scientific Research, British Museum, UK

> **10:30 AM** – *Coffee Break* Kogod Courtyard

11:00 AM

Developing a shearographic monitoring system for quantifying thermo-mechanical characteristics of oil-on-canvas paintings and informing policy regarding museum climate standards

Philip Klausmeyer*, Matt Cushman, Ivo Dobrev, Cosme Furlong, and Morteza Khaleghi Meybodi, (*Worcester Art Museum, USA)

11:30 AM

Optical Coherence Tomography for the non-invasive examination of paintings – present and future

Haida Liang, Nottingham Trent University, UK

12:00 PM - Lunch Break

1:30 PM

Evidence for the accumulative effect of organic solvent treatments on paintings and what to do about it: A case study of 2 'identical' 17th century paintings with single-sided NMR

Gwendoline Fife*, Bascha Stabik*, Tyler Meldrum†, Bernhard Blümich†

(*Stichting Restauratie Atelier Limburg (SRAL), Netherlands †Rheinisch-Westfaelische Technische Hochschule Aachen University, Germany)

2:00 PM

Macro X-Ray Fluorescence (XRF)

Joris Dik, Delft University of Technology, Netherlands

2:30 PM – *Coffee Break* Kogod Courtyard

3:00 PM

A multi-analytical approach to the analysis of paintings by the Futurists: the integration of hyperspectral imaging and scanning from the UV to the near IR with Mid-IR reflectance spectroscopy for the mapping of pigment composition

Austin Nevin*, Sara Bellei, Rafaella Fontana, Francesca Gabrieli, Francesca Rosi, Claudia Marchese, Margherita d'Ayala Valva, Diane Kunzelman, Mattia Patti (*Institute of Photonics and Nanotecnologies, Italian National Research Council, Italy)

3:30 PM

Use of portable, non-invasive instrumentation for the study of the wall paintings in the tomb of Tutankhamen

Lori Wong*, Giovanni Verri[†], Giacomo Chiari (*Getty Conservation Institute, USA †Courtauld Institute of Art, UK)

4:00 PM

In situ non-invasive studies of paintings: the example of the European mobile laboratory MOLAB

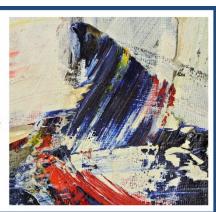
Bruno G. Brunetti, Centro di Eccellenza SMAArt and Dipartimento di Chimica, Università di Perugia, Italy

> 5:00 PM – Reception Location Pending



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Friday, February 21, 2014

9:30 AM – Opening Remarks
McEvov Auditorium

9:45 AM – Technical Studies Sessions

9:45 AM

Painted on parchment: technical study of a 13th century illuminated Psalter

P. Ricciardi*, S. Panayotova, K. Rose, A. Pallipurath (*Fitzwilliam Museum, UK)

10:15 AM

CSI Aachen: Unraveling the history of two fifteenth century Spanish panels using forensic methodologies M. Akbrecht, M. Daugherty, S. van Oudheusden, K.

Seymour*, M. Rief, R. Marchamt, E. Uffelman, L. d'Hontl (*Stichting Restauratie Atelier Limburg (SRAL), Netherlands)

10:45 AM – *Coffee Break* Kogod Courtyard

11:15 AM

pXRF and IR Fluorescence Imaging Studies of CdS Alteration in Paintings by Edvard Munch and Henri Matisse in Oslo and Copenhagen

J. Mass*, E. Uffelman, B. Buckley, I. Grimstad, A. Vila, J. Wadum, V. Andrews, L. Burns, S. Florescu, A. Hull (*University of Delaware, USA)

11:45 AM

Materials and Meanings: analyzing Kazimir Malevich's Painterly realism of a Football Player - Color Masses in the 4th Dimension

M. Kokkori*, F. Casadio, K. Lister, S. D'Alessandro (*The Art Institute of Chicago, USA)

12:15 PM – Lunch Break

1:45 PM – Introduction to XRF Session

1:50 PM

A new portable X-Ray spectrometer designed for XRF analysis in cultural heritage applications

N. Barbi*, R. Alberti†, A. Celan†, and T. Frizzi† (* Pulsetor, USA; †XGLab, Italy)

2:30 PM

What are our true detection limits? The use of historically representative paint media to evaluate the sensitivity of XRF analysis including a comparison between laboratory-based and hand-held XRF instruments

B. Baade, K. deGhetaldi, and Dr. J. Mass, (University of Delaware, USA)

3:00 PM – *Coffee Break* Kogod Courtyard

3:30 PM – Short Presentations and Panel Discussion

3:30 PM

XRF training opportunities for conservation professionals: going beyond "just point and shoot"

A. Bezur, Center for Conservation and Preservation, (Yale University, USA)

3:45 PM

Handheld XRF: Unifying undergraduates, graduate students, and professionals in education and research

E.S. Uffelman, Department of Chemistry and Biochemistry, (Washington and Lee University, USA)

4:00 PM

A novel macro-scanner imaging system for collection of hyperspectral X-ray fluorescence (XRF) and visible to near infrared reflectance image cubes of paintings

J. Delaney*†, D. Conover†, K. Dooley* †, L. Glinsman*, S. Lomax*, M. Swicklik, M. Loew† (*National Gallery of Art, USA

†George Washington University, USA)

4:30 PM

Panel Discussion about XRF analysis

A. Bezur, E.S. Uffelman, J. Mass, L. Glinsman and J. Giaccai



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