

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 8th 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, Raffaella Fontana, Francesca Gabrieli, Francesca Rosi, Claudia Marchese, Margherita d'Ayala Valva, Diane Kunzelman, Mattia Patti
(*Institute of Photonics and Nanotechnologies, 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
McEvoy 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. Marchant, 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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