

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 | 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

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Thursday, February 20, 2014

9:00 AM – Attendee Sign-In

Museum Lobby at 8th and G Streets NW

Morning Session Chair

Tiarna Doherty, Chief of Conservation

Smithsonian American Art Museum, Washington, DC

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

The use of laser shearography to quantify and map induced strain in canvas paintings

Philip Klausmeyer*, Matt Cushman, Ivo Dobrev, Cosme Furlong, Morteza Khaleghi Meybodi, Xiaoran Chen
(*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

Afternoon Session Chair

Barbara Berrie, Head of Scientific Research
National Gallery of Art, Washington, DC

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, Netherlands, †The College of William & Mary, §RWTH University, Aachen)

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

Advances in the In Situ Analysis of 19th Century Paintings using Fluorescence Lifetime Imaging

Austin Nevin, Sara Bellei, Gianluca Valentini, Rinaldo Cubeddu, Daniela Comelli

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

5:30 PM – 7:30 PM

Reception

Cuba Libre

801 9th Street NW

Washington, DC



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Friday, February 21, 2014

9:30 AM – Opening Remarks
McEvoy Auditorium

Morning Session Chair
Austin Nevin, Researcher
Italian National Research Council, Milan, Italy

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
K. Seymour*, M. Albrecht, M. Daugherty, E. Uffelman,
S. van Oudheusden, M. Rief, R. Marchant, L. d'Hont
(*Stichting Restauratie Atelier Limburg, 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
(*The Art Institute of Chicago, USA)

12:15 PM – Lunch Break

Afternoon Session Chair
Francesca Casadio, A.W. Mellon Senior Conservation Scientist
The Art Institute of Chicago, USA

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

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, †George Washington University, USA)

4:30 PM

Panel Discussion about XRF analysis
A. Bezur, E.S. Uffelman, J. Mass, L. Glinsman and J. Giaccai
Panel Chair: C. McGlinchey, MoMA



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