

4:30 D-28 High Speed 3D Diffraction Imaging

J.P.O. Evan, J.W. Chan, S.X. Godber, I. Peatfield, *Nottingham Trent University, Nottingham, UK*
K.D. Rogers, A. Dicken, J. Rogers, *Cranfield University, Cranfield, Bedfordshire, UK*

4:50 F-34 Selecting the Appropriate X-ray Optic for the Right Application

G.J. Havrilla, V. Montoya, *Los Alamos National Laboratory, Los Alamos, NM*

FRIDAY AM

XRD & XRF

CULTURAL HERITAGE II

EVERGREEN A

Chairs: **M. Walton**, *Getty Conservation Institute, Los Angeles, CA*
K. Eremin, *Harvard Art Museum, Cambridge, MA*

8:30 C-10 Invited—Going Beyond XRF: Use of Micro-Fluorescence and Diffraction to Understand How a Cultural Heritage Object Was Made and How It Ages and Degrades

M. Walton, *Getty Conservation Institute, Los Angeles, CA*
E.J. Schofield, *University of Kent, Canterbury, UK*
R. Sarangi, S. Webb, A. Mehta, *SSRL/SLAC Nat Accd. Lab, Menlo Park, CA*
F. Meirer, *Technische Universität Wien, Vienna, Austria*

9:00 F-28 XRF Line and Area Scans in the Examination of Works of Art

K. Trentelman, *Getty Conservation Institute, Los Angeles, CA*

FRIDAY AM — EVERGREEN A

9:20 F-38 The Challenges of XRF Analysis of Cultural Heritage Glass Objects

B.J. Kaiser, *Bruker Elemental, Kennewick, WA*
R. Brill, *Corning Glass Museum, Corning, NY*

9:40 F-12 Glancing Incidence XRF for the Analysis of Early Chinese Bronze Mirrors

R.W. Zuneska, J. Rong, I. Vander, F.J. Cadieu, *Queens College of CUNY, Flushing, NY*

10:00 Break

10:20 F-17 Invited—The Photo-Oxidative Degradation of Matisse's *Le Bonheur De Vivre* (1905-6): X-ray-Based Methods for Degradation Mechanism Identification

J.L. Mass, *Winterthur Museum, Winterthur, DE*
B. Buckley, M. Little, *The Barnes Foundation, Merion, PA*

10:50 F-68 Visualizing the 17th Century Underpainting Using Mobile and Synchrotron-Based Scanning Macro-XRF

M. Alfeld, K. Janssens, *University of Antwerp, Antwerp, Belgium*
J. Dik, *Delft University of Technology, Delft, The Netherlands*
P.D. Siddons, *Brookhaven National Laboratory, NSLS, Brookhaven, NY*
E. van de Wetering, *Rembrandt Research Project, Amsterdam, The Netherlands*

11:10 C-9 Medieval Microfabrication: X-ray Tomographic and Laminographic Visualization of Religious Artwork

J. Dik, J. Blaas, *Delft University of Technology, Delft, The Netherlands*
A. Wallert, *Rijksmuseum, Amsterdam, The Netherlands*
P. Reischig, L. Helfen, A. Bravin, *European Synchrotron Radiation Facility, Grenoble, France*