OSA Big Data in Cultural Heritage Imaging Incubator

2-4 May 2018 Washington, DC USA

HOSTED BY:

John Delaney, National Gallery of Art, United States; **Martin Fischer**, Duke University, United States; **David Saunders**, British Museum, United Kingdom

AGENDA

Wednesday 2 May 2018

Afternoon Arrival/Hotel Check-in

The Fairfax at Embassy Row 2100 Massachusetts Ave. NW

17:45 Arrival & Welcome at OSA Headquarters

2010 Massachusetts Ave, NW

18:00 Keynote Welcome Speaker

Warren S. Warren, Duke University, United States

18:30 Welcome Dinner

Ezme, 2016 P Street, NW

Thursday 3 May 2018

8:00 Breakfast

OSA Headquarters, 2010 Massachusetts Ave, NW

8:30 Welcome

Elizabeth Rogan, CEO, OSA, United States

8:45 Program Overview & Goals

Hosts

Session: Spectroscopic Macro or Remote Mapping Modalities

9:00 Opportunities & Challenges of Reflectance & Fluorescence Imaging Spectroscopy

John Delaney, National Gallery of Art, United States

Thursday 3 May 2018, continued

9:25	Macroscopic X-ray Fluorescence & X-ray Diffraction Analysis & Imaging Koen Janssens, University of Antwerp, Belgium
9:50	Hyperspectral Imaging: Revealing the Unseen James Jafolla, Surface Optics, United States
10:15	Mid-IR Instrumentation & Processing Methods Jason Zeibel, US Army Night Vision & Electronic Sensors Directorate, United States
10:40	Coffee Break/Poster Time
11:00	Facilitated Discussion – Leader John Delaney
Session: Large Data Set Analysis Tools	
11:40	Hyperspectral Imaging of Historical Artifacts: A Novel Imaging Approach for the Study of Materials & Methods David Messinger, Rochester Institute of Technology, United States
12:05	Image Analysis for the Ghent Altarpiece Ingrid Daubechies, Duke University, Untied States
12:30	Lunch, provided
Session: Large Data Set Analysis Tools, continued	
13:30	Current Image Data Cube Processing – XRF & Reflectance Image Cubes Kathryn Dooley, National Gallery of Art, United States
13:55	Image Registration & Multi Modal Fusion Plus New Processing Ideas Murray Loew, George Washington University, United States
14:20	Facilitated Discussion – Leader David Messinger
15:00	Coffee Break, Poster Time

Session: Micro Imaging Modalities – Towards Virtual Cross-sections	
15:20	Multi-photon, Multi-color Microscopy in Cultural Heritage Martin Fischer, Duke University, United States
15:45	Lattice Light Sheet Microscopy - Innovations, Applications, & Future Directions Wesley Legant, University of North Carolina, United States
16:10	Opportunities & Challenges in Confocal XRF for Cultural Heritage Research Louisa Smieska, Cornell High Energy Synchrotron Source, United States
16:35	Fast & Flexible Multiphoton Imaging in Biological Research Craig Szymanski, Thorlabs, United States
17:00	Raman session: Vibrational Spectroscopy & Mapping Pablo Londero, Yale University, United States Silvia Centeno, Metropolitan Museum of Art, United States Karen Trentelman, Getty Conservation Institute, United States
17:25	Facilitated Discussion – Leader Martin Fischer
18:00	Dinner Bistro Bistro, 1727 Connecticut Ave, NW
Friday 4 May 2018	
8:00	Breakfast OSA Headquarters, 2010 Massachusetts Ave, NW
8:30	Break-out Group Discussions Spectroscopic Macro or Remote Mapping Modalities John Delaney, National Gallery of Art Large Data Set Analysis Tools David Messinger, Rochester Institute of Technology Micro Imaging Modalities – Towards Virtual Cross-sections Martin Fischer, Duke University
10:20	Coffee Break/Poster Time
10:40	Break-out Session Reporting
12:20	Lunch, Provided
13:20	Depart to National Gallery of Art