TUESDAY APRIL 2, 2013

Short Courses I
8:00 – 10:00 AM

T1A Adding Digital Forensics Tools to Your Workflow Using BitCurator, Christopher Lee and Kam Woods, University of North Carolina
T2A Scanner & Camera Performance Workshop, Don Williams, Image Science Associates, and Peter D. Burns, Burns Digital Imaging
T4A Using JPEG 2000 for Archival and Production Masters, Robert Buckley, University of Rochester/NewMarket Imaging

Short Courses II
10:15 AM – 12:15 PM

T1B Data Management Planning for the Cultural Heritage and Memory Sector, Martin Donnelly, University of Edinburgh; Günter Waibel, Isabel Meyer, and Thornton Staples, Smithsonian Institution
T4B Storage Technologies for Archiving: Current State and Projected Innovations, Barry Lunt, Brigham Young University

CURATECAMP UNCONFERENCE
Megan Phillips, Kate Murray, and Mike Horsley, National Archives and Records Administration
1:15 – 5:30 PM

Digitized / Born Digital Together

Informal Meet and Greet
5:30 – 6:30 PM
Iron Horse Taproom, 507 7th St NW

WEDNESDAY APRIL 3, 2013

Welcome and Keynote
Session Chair: Christoph Voges, consultant
9:00 – 10:00 AM

9:00 A 21st Century Transformation: The Presidential Memorandum on Managing Government Records and Its Implications, Paul Wester Jr., National Archives and Records Administration (USA) ........................................ 1

Digital Preservation I
Session Chair: Jonas Palm, National Archives of Sweden
10:00 – 11:20 AM

10:00 Dream the Impossible Dream: Born Digital Stewardship, Bradley J. Daigle, University of Virginia (USA) .................. 2
10:20 The Role of Risk Analysis to Support Cost Models for Digital Preservation, Diogo Proença and José Borbinha, INESCHID Information Systems Group (Portugal); and Neil Grindley, JISC Digital Preservation and Records Management (UK) .......... 6
10:40 Where the OAIS Ends: Archival Principles and the Digital Repository, Maygene Daniels, National Gallery of Art (USA) .... 12
11:00 Cross Media Preservation Planning, Rod Butler, Mick Newnham, Greg Moss, Ian Gilmour, and Danny Dawson, National Film and Sound Archive of Australia (Australia) .................. 15

11:20 – 11:50 AM Coffee Break

Arts and Archiving
Session Chair: Erik Landsberg, Museum of Modern Art
11:50 AM – 12:30 PM

11:50 Automated Workflow for Archiving Video Art in DVD Media, Maria Esteva, ¹ Karla Vega, ¹ Bethany Scott, ² Summer Gunnels, ¹ and Keerthana Kumar ¹; ¹The University of Texas at Austin and ²Charlotte Mecklenburg Library (USA) .................. 19
12:10 Software Archaeology and the Preservation of Code-based Digital Art, Francis T. Marchese, Pace University (USA) .......... 25

Exhibitor Previews
Session Chair: Peter Burns, Burns Digital Imaging
12:30 – 12:35 AM

12:35 – 1:45 PM Lunch Break
Imaging Technology I
Session Chair: Peter Burns, Burns Digital Imaging
1:45 - 3:25 PM

2:05 Page-Image Error in Large-Scale Digitization, Paul Conway, University of Michigan (USA) .................................................. 36
2:25 Computer Assisted Image Analysis for Objective Determination of Scanning Resolution for Photographic Collections—An Automated Approach, Lei He, Phil Michel, and Steven Puglia, Library of Congress, and Don Williams, Image Science Associates (USA) ......................................................... 43
3:05 Quality Assurance Methods for Online Image Representations, William Scott Geffert, Metropolitan Museum of Art (USA) ........ 54

Interactive Session I
Session Chair: Larry Telford, FamilySearch International
3:25 – 4:15 PM

The International e-Depot to Guarantee Permanent Access to Scholarly Publications, Marcel Ras, National Library of the Netherlands (the Netherlands) ...................................................... 58
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Digitizing Rare Maritime Collections, Constantia Constantinou, State University of New York (USA) ........................................... 93

Film as a Storage Medium
Session Chair: Don Williams, Image Science Associates
4:15 – 5:20 PM

4:15 Preservation of Digitally Originated Motion Images on Film: An Integrated Systems Approach, Cindy A. Fitzgerald and John C. Rutter, Eastman Kodak Company (USA) ........................................... 98
4:35 Monolith: Lessons Learned on the Way to the Market, Andreas Wassmer and Peter Fomarco, University of Basel (Switzerland) .............. 103

4:55 Joint Equalization/Demodulation for Digital Data Storage on Photographic Film, Christoph Voges, consultant, and Tim Fingscheidt, Technische Universität Braunschweig (Germany) .... 107

Conference Reception
Woolly Mammoth Theater, Mellon Rehearsal Hall, 641 D St NW
5:30 – 7:00 PM

THURSDAY APRIL 4, 2013

Imaging Technology II
Session Chair: Christoph Voges, consultant
9:00 – 10:30 AM

9:00 Opening Remarks
9:10 Report of the CIE Technical Committee on Archival Colour Imaging, Robert Buckley, University of Rochester/NewMarket Imaging, and Steven Puglia, Library of Congress (USA) ............. 112
9:30 Comparative Study of JPEG 2000 Compression and Format Configuration on Image Quality, Lei He and Steven Puglia, Library of Congress (USA) ............................................................... 116
9:50 Finger Detection for Quality Assurance of Digitized Image Collections, Roman Graf and Ross King, Austrian Institute of Technology GmbH (Austria) ............................................. 122

Interactive Session II
Session Chair: Kari Smith, MIT Institute Archives and Special Collections
10:30 – 11:20 AM

Toward Permanence in Digital Data Storage, Barry M. Lunt, Matthew R. Linford, Robert C. Davis, Sarah Jamieson, Anthony Pearson, and Hao Wang, Brigham Young University (USA) ........ 132
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### Digital Preservation II

**Session Chair: Kit Arrington, Library of Congress**

11:20 AM – 12:40 PM

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<tr>
<td>11:20</td>
<td>Scalable Preservation Decisions: A Controlled Case Study,</td>
<td>Hannes Kulovits, Austrian State Archives (Austria); Christoph Becker, Vienna University of Technology (Austria); and Bjarne Andersen, State and University Library Denmark (Denmark)</td>
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<td>11:40</td>
<td>Metamorfoze in Transition for Prioritizing Digitization Archives,</td>
<td>Marg van der Burgh, Koninklijke Bibliotheek (the Netherlands)</td>
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<td>11:50</td>
<td>Adoption of Infrastructure-as-a-Service at the National Library of New Zealand,</td>
<td>Cynthia Wu, National Library of New Zealand (New Zealand)</td>
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<td>12:20</td>
<td>Focus on the Future: Creating Born-Digital Standards for Large-Format Photography,</td>
<td>Anne Mason, National Park Service, and Stephen Schäfer, Schäf Photo (USA)</td>
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<td>12:40 – 1:55 PM Lunch Break</td>
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### Metadata and Access

**Session Chair: Paul Conway, University of Michigan**

1:55 – 3:15 PM

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<td>1:55</td>
<td>Improving Access to Web Archives through Innovative Analysis of PDF Content,  Mark E. Phillips and Kathleen Murray, University of North Texas (USA)</td>
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<td>2:15</td>
<td>Use of Descriptive Metadata as a Knowledgebase for Analyzing Data in Large Textual Collections,</td>
<td>Dharitri Misra and George R. Thoma, National Library of Medicine (USA)</td>
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<td>2:35</td>
<td>Descriptive Metadata for Scrapbooks: Interdepartmental Collaboration to Support Efficiency and Discovery, David Gwynn, Anna Craft, and Kathelene McCarty Smith, University of North Carolina at Greensboro (USA)</td>
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<td>4:00 – 6:00 PM Optional Behind-the-Scenes Tours Library of Congress and the National Gallery of Art</td>
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### FRIDAY APRIL 5, 2013

**Remarks and Keynote**

**Session Chair: Peter Burns, Burns Digital Imaging**

9:00 - 9:55 AM

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<td>9:00</td>
<td>The Identification of US POWs and MIAs from the Korean War via the Recovery and Digitization of Deteriorated Acetate X-rays, Carl N. Stephan¹, Doug Munson², John E. Byrd¹, Thomas D. Holland,¹ KiJoo Kim,¹ and Emily Wagner Phoenix¹; ¹Joint POW/MIA Accounting Command and ²Chicago Albumen Works (USA)</td>
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### Standards and Guidelines

**Session Chair: Scott Geffert, Metropolitan Museum of Art**

10:00 – 11:00 AM

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<td>Digitization Standards at the National Archives and Records Administration, Jeffrey Reed, Kate Murray, and Martin Jacobson, National Archives and Records Administration (USA)</td>
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<td>10:20</td>
<td>The NDSA Levels of Digital Preservation: Explanation and Uses, Megan Phillips, National Archives and Records Administration; Jefferson Bailey, Metropolitan New York Library Council (METRO); Andrea Goethals, Harvard Library; and Trevor Owens, Library of Congress (USA)</td>
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<td>10:40</td>
<td>Guidelines for Legacy Repository Migration, Miguel Ferreira, KEEP SOLUTIONS; José Carlos Ramalho, University of Minho; and Luís Faria, KEEP SOLUTIONS (Portugal)</td>
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<td>11:00 – 11:30 AM Coffee Break</td>
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### Quality Management

**Session Chair: Megan Phillips, National Archives & Records Administration**

11:30 AM – 12:10 PM

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<td>11:30</td>
<td>The Digital Documents Quality Control Workflow at the BnF (Operation, Issue, Improvement), Ahmed Ben Salah,¹,² Laurent Duplový,¹ and Jean Philippe Mareux¹; ¹Bibliothèque nationale de France and ²Université de Rouen (France)</td>
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<td>11:50</td>
<td>An Open Source Infrastructure for Quality Assurance and Preservation of a Large Digital Book Collection, Sven Schlarb, Austrian National Library (Austria)</td>
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### Digital Forensics and File Formats

**Session Chair: Phil Michel, Library of Congress**

1:30 - 2:50 PM

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<td>1:30</td>
<td>Automated Analysis and Visualization of Disk Images and File Systems for Preservation, Kam Woods, Christopher Lee, and Sunita Misra, University of North Carolina at Chapel Hill (USA)</td>
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<td>1:50</td>
<td>Curation of Earthquake Engineering Research Data, Stanislav Pejčić and Thomas Hacker, Purdue University (USA)</td>
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<td>2:10</td>
<td>Collaborative Preservation Efforts of CAD/BIM Files, Aliza Allen Leventhal, Simmons College and Cambridge Historic Commission (USA)</td>
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<td>2:30</td>
<td>Database and Digital Forensics: An Open Source Approach to Digital Preservation, Marc Lamontagne</td>
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2:30  Supporting Data Management for 3D and Raster Data: Lessons Learned from the DataPool Project, Gareth Beale, Steve Hitchcock, Hembo Pagi, Richard Boardman, and Graeme Earl, University of Southampton (UK) .................................. 255

2:50 – 3:20 PM Coffee Break

Innovative Software, Projects, and Activities
Session Chair: David Walls, US Government Printing Office
3:20 – 4:45 PM


3:40  Decentralized Hosting and Preservation of Open Data, Samuel Goebert,¹,² Bettina Harriehausen-Mühlbauer,¹ Christoph Wentzel,¹ and Steven Furnell²; ¹University of Applied Sciences Darmstadt (Germany) and ²University of Plymouth (UK) ................. 264

4:00  Repository Development at the Library of Congress, David Brunton and Kate Zwaard, Library of Congress (USA) . . . 270

4:20  Open Source for Policy, Costs, and Sustainability, Mikko Lampi and Osmo Palonen, Mikkeli University of Applied Sciences (Finland) ............................................................... 271

4:40  Closing Remarks

NOTES

IS&T WOULD LIKE TO THANK THE FOLLOWING FOR THEIR SUPPORT OF ARCHIVING 2013.

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