IS&T Archiving Conference 2016 (ARCHIVING 2016)

Washington, D.C., USA 19 - 22 April 2016

ISBN: 978-1-5108-2886-5

Printed from e-media with permission by:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2016) by Society for Imaging Science & Technology All rights reserved.

Printed by Curran Associates, Inc. (2016)

For permission requests, please contact Society for Imaging Science & Technology at the address below.

Society for Imaging Science & Technology 7003 Kilworth Lane Springfield, Virginia 22151

Phone: 703-642-9090 Fax: 703-642-9094

info@imaging.org

Additional copies of this publication are available from:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571 USA

Phone: 845-758-0400 Fax: 845-758-2633

Email: curran@proceedings.com Web: www.proceedings.com

TECHNICAL PAPERS PROGRAM:

CONFERENCE SCHEDULE AND TABLE OF CONTENTS

TUESDAY APRIL 19, 2016

Archiving 2016 Short Course Progra

9:00 AM - 12:00 PM (3 hours)

ArchSC01: Computational Photography Techniques for Cultural Heritage Documentation and Archiving: Reflectance Transformation Imaging (RTI) and Photogrammetry

Instructors: Carla Schroer and Mark Mudge, Cultural Heritage Imaging

ArchSC02: Scanner & Camera Imaging Performance: Ten Commandments

Instructors: Don Williams, Image Science Associates, and Peter Burns, Burns Digital Imaging

ArchSC03: Program Management for Cultural Heritage Professionals: An Introductory Workshop for Management of Digitization and Curation

Instructor: Michael B. Toth, R.B. Toth Associates

ArchSC04: Fundamentals of Image and Video Compression

Instructor: Christoph Voges, Hochschule für angewandte Wissenschaft und Kunst (HAWK), and consultant

1:15 - 3:15 PM (2 hours)

ArchSC05: Spectral Imaging—Spectral Capture and Processing Instructors: Fenella G. France and Meghan Wilson, Library of Congress

ArchSC06: Scanner & Camera Imaging Performance: FADGI Imaging Guidelines and Implementation

Instructors: Don Williams, Image Science Associates, and Peter Burns, Burns Digital Imaging

ArchSC07: Digital Collection Development

Instructor: John Sarnowski, ResCarta Foundation

ArchSC08: Automatic Cropping and Deskewing: Theory, Use, and Supportive Workflows

Instructor: Doug Peterson, Cultural Heritage, and Marco Zamarin, Phase One

3:30 - 5:30 PM (2 hours)

ArchSC09: Four-Light Imaging

Instructor: Roy S. Berns, Munsell Color Science Laboratory

ArchSC10: Introduction and Explanation of the Metamorfoze Preservation Imaging Guidelines, version 1.0, 2012

Instructor: Hans van Dormolen, Hans van Dormolen Imaging & Preservation Imaging

ArchSC11: Assessing Formats for Preservation

Instructors: Andrea Goethals and David Ackerman, Harvard Library

ArchSC12: Bountiful Harvest: Curation, Collection, and Use of Web Archives

Instructors: Maria LaCalle and Jefferson Bailey, Internet Archive

Archiving 2016 Welcome Gathering

5:30- 6:45 PM

Iron Horse Tap Room, 507 7th St NW

Join colleagues following the short course program. Iron Horse Tap Room is a short walk from NARA.

WEDNESDAY APRIL 20, 2016

Welcome Remarks and Opening Keynote

Session Chair: Kari Smith, MIT Libraries, Institute Archives and Special Collections (USA) 9:00 – 10:00 AM

Spectral Imaging of Manuscripts: Recovery of the Past and Preservation for the Future, Roger L. Easton, Rochester Institute of Technology, and Keith T. Knox, Early Manuscripts Electronic Library (EMEL) (USA) 1

Advanced Imaging Techniques

Session Chair: Peter Burns, Burns Digital Imaging (USA)

10:00 AM - 12:10 PM

10:00	Spectral Imaging for Preservation Documentation,						
	Fenella G. France, Library of Congress (USA)	2					
10:20	Burned Record Imaging at NARA, Noah Durham, The National						
	Archives Records Administration (USA)	6					

10:40 – 10:50 AM Topical Discussion Planning (see below under Lunch Break) led by Kari Smith

10:50 - 11:30 AM Coffee Break / Exhibit Open

11:30	Digital M	ateriality	y with	Enhance	ed Refle	ctance	Tran	sformatio	n
	Imaging,	Peter Fo	rnaro,	Andrea	Bianco,	and L	ukas I	Rosenthale	er,
	University	of Base	1 (Swit	zerlandl					. 1

11:50 Post Processing of Reflectance Transform Imaging for Isolation of Surface Impressions, Kurt Heumiller, Soyeon Choi, Jens Stenger, and Chelsea Graham, Yale University (USA) 15

2-Minute Exhibitor Previews

Session Chair: David Walls, US Government Printing Office (USA)

12:10 - 12:35 PM

Archiving 2016 exhibitors share information about their products and services in 2-minute previews.

12:35 – 2:00 PM Lunch Break (with Optional Topical Discussions)

	t Management	Prese	ervation Formats and Frameworks
	Chair: Christoph Voges, Hochschule für angewandte Wissenschaft und Kunst K), and consultant (Germany)		Chair: David Walls, US Government Printing Office (USA) - 5:40 PM
2:00 -	- 3:10 PM		
2:00	Summarization and Classification of CNN.com Articles Using the TFxIDF Family of Metrics (Focal), Marie Vans and Steven Simske, Hewlett-Packard Labs (USA)	4:40 5:00	Long-Term Preservation and Archival File Formats: Concepts and Solutions, Peter Fornaro and Lukas Rosenthaler, University of Basel (Switzerland)
2:30		0.00	Christoph Voges, Hochschule für angewandte Wissenschaft und Kunst (HAWK), and consultant
2:50	Austrian Institute of Technology (Austria)	5:20	The "International Image Interoperability Framework" and its Implication to Preservation, Lukas Rosenthaler and Peter Fornaro, University of Basel (Switzerland)
2:	nute Internative Denoe Province		iving 2016 Conference Reception
	nute Interactive Paper Previews		- 9:00 PM
	Chair: Kari Smith, MIT Libraries, Institute Archives and Special Collections (USA) AM - 3:40 PM	Join c	ountry BBQ, 410 7th St NW olleagues for this year's conference reception, featuring a Texas- parbecue. Hill Country BBQ is a short walk from NARA.
Fulfill y Yongli Impro	your Digital Preservation Goals with a Budget Studio, ¿ Zhou, Colorado State University Libraries (USA)		URSDAY APRIL 21, 2016
	se Imagery Management Operations Center (DIMOC), Defense		ing Standards and Quality Assurance
	a Activity (USA)		Chair: Roy Berns, Munsell Color Science Lab / RIT (USA)
Defens	Information (VI) Ingest Process Improvement, Barbara Burfeind, se Imagery Management Operations Center (DIMOC), Defense		- 10:40 AM
	A Activity (USA)	9:00	Opening Remarks and Presentation of IS&T Service Award
Defens Medic	Pepartment of Defense Visual Information Lifecycle, April Alexander, se Imagery Management Operations Center (DIMOC), Defense a Activity (USA)	9:10	Recent Activities of the Federal Agencies Digitization Guidelines Initiative Still Image Working Group (Focal), Thomas Rieger, Library of Congress (USA)
Spectr Rosent and D	ra Archival Media, Richard J. Solomon ^{1, 2} , Melitte Buchman ³ , Eric thal ^{2, 3} , Jonathan M. Smith ¹ , Clark Johnson ² , William Butterfield ² , tonald Carlin ² ; ¹ University of Pennsylvania, ² Creative Technology		Going Mobile: Evaluating Smartphone Capture for Collections, Peter D. Burns, Burns Digital Imaging, and Don Williams, Image Science Associates (USA)
	nd ³ New York University (USA)	10:00	Quality Assurance in Mass Digitization Projects, Martina
	ng Defense Visual Information in a Commercial Environment,	10.00	Hoffmann, National Library (The Netherlands) 107
Opera	Yargas-Matos and Paul G. Robinson, Defense Imagery Management ations Center (DIMOC), Defense Media Activity (USA)	10:20	Standardization of Image Quality Analysis – ISO 19264, Dietmar Wueller, Image Engineering GmbH & Co. KG (Germany), and Ulla Bøgvad Kejser, The Royal Library (Denmark)
	C. Ratanatharathorn and Susanne Pichler, The Andrew W. Mellon		and the Begrad Report, the Reyal Elerary (Bermidik)
	ation (USA)	10:40) – 11:20 AM Coffee Break and Exhibition
Digital	lly Archiving History: A Game Plan for Large, Unruly Archival tions with Limited Staffing, Virginia A. Dressler, Kent State		
Univer	rsity (USA)	lmag	ing Strategies and Workflows
	ting 16mm, 35/32mm, and 35mm Optical and Magnetic Sound nts, Chris Reynolds, Deluxe (USA)		Chair: Don Williams, Image Science Associates (USA) AM - 12:40 PM
	– 4:40 PM e Break, Interactive Paper Discussions, Exhibit Open	11:20	The Evolution of Motion Picture Digitization at the National Library of Medicine, John P. Rees, John P. Doyle, and Doron Shalvi, National Library of Medicine (USA) 117

12:00 12:20	Copies and Originals, Preservation and Access: The Art of Balance in a Digital World, Niels Bønding, Gry Vindelev Elstrøm, and Karen Williams, State and University Library, Aarhus (Denmark)	10:50	 D - 10:50 AM Topical Discussion Planning (see below under Lunch Break) led by Kari Smith D - 11:40 AM Coffee Break and Interactive Paper Discussions Digital Preservation of Audiovisual-based Materials: The State of the Art, Edward M. Corrado, University of Alabama Libraries, and Heather Moulaison Sandy, iSchool at the University of Missouri (USA) Tell Me About It: Saving the Context of Archived Military Imagery, Thomas M. Ruyle and Julia Hickey, Defense Imagery Management
			Operations Center (DIMOC), Defense Media Activity (USA) 167
	mination and Use Chair: Marie Vans, HP Inc. (USA)	12:40	0 – 2:00 PM Lunch Break (with Optional Topical Discussions)
	3:10 PM		
			ge Color Science and Analysis Tools
2:00	Unlocking the Archives of Displacement and Trauma: Revealing Hidden Patterns and Exploring New Modes of Public Access through Innovative Partnerships and Infrastructure (Focal),		n Chair: Dietmar Wueller, Image Engineering GmbH & Co. KG (Germany) – 3:10 PM
	Diane M. Travis, Myeong Lee, Magdalena Rojas, Allison Gunn, Anuj Nimkar, Gregory Jansen, Nicholas Diakopoulos, and Richard Marciano, University of Maryland (USA) 135	2:00	Rethinking Image Color Correction, Validation and Testing (Focal), Don Williams, Image Science Associates, and Peter D. Burns, Burns Digital Imaging (USA)
2:30	Unlocking the Archive: The Defense Department's Plan to Make	2:30	
	Unreleased Audiovisual Records Public, Lee E. Thomas, Defense Imagery Management Operations Center (DIMOC), Defense Media Activity (USA)	2:50	Archives, Roy S. Berns, Rochester Institute of Technology (USA) . 181
2:50	Examining the Reuse of Qualitative Research Data: Digital Video in Education, Rebecca D. Frank, Kara Suzuka, and	E l.	antian and lument
	Elizabeth Yakel, University of Michigan (USA) 146	Session	Uation and Impact 1 Chair: Lukas Rosenthaler, Universität Basel (Switzerland) 2 4:30 PM
	- 5:30 PM		
	l-the-Scenes Tours at the Library of Congress, National Archives ecords Administration, and National Gallery of Art.	3:10	The Role of Digital Collections in Scholarly Communications, Harriett Green, University of Illinois at Urbana-Champaign, and Angela Courtney, Indiana University Bloomington (USA) 193 Making Digitization Count: Assessing the Value and Impact of Cultural Heritage Digitization (Focal), Emily Frieda Shaw, The
FRI	DAY APRIL 22, 2016	4.00	Ohio State University Libraries (USA)
Frida	y Keynote	4:00	Closing Remarks and Best Interactive Paper Award
	Chair: Kari Smith, MIT Libraries, Institute Archives and Special Collections (USA)	4:10	Farewell Coffee & Final Chance to Network
	10:00 AM		
-	nenting Practices that Lead to (Re)use of your Digital Collections, Gore, Digital Public Library of America (USA)		IS&T would like to thank the following Behind-the-Scenes Tour providers:
	data Standards and Implementation		'
	Chairs: Kari Smith, MT Libraries, Institute Archives and Special Collections,		Library of Congress
	ne Mason, National Park Service (USA) AM – 12:40 PM		National Archives and Records Administration
	12.701.11		National Gallery of Art
10:00	Implementing PREMIS version 3, Rebecca Guenther, Rebecca Guenther Consulting (USA) 153		
10:20	Embedding Metadata in Large-Scale Legacy Digital Audio Collections, Ryan Edge, Michigan State University Library	Sp	ecial thanks to NARA and its staff for their support
	(USA)		of Archiving 2016.