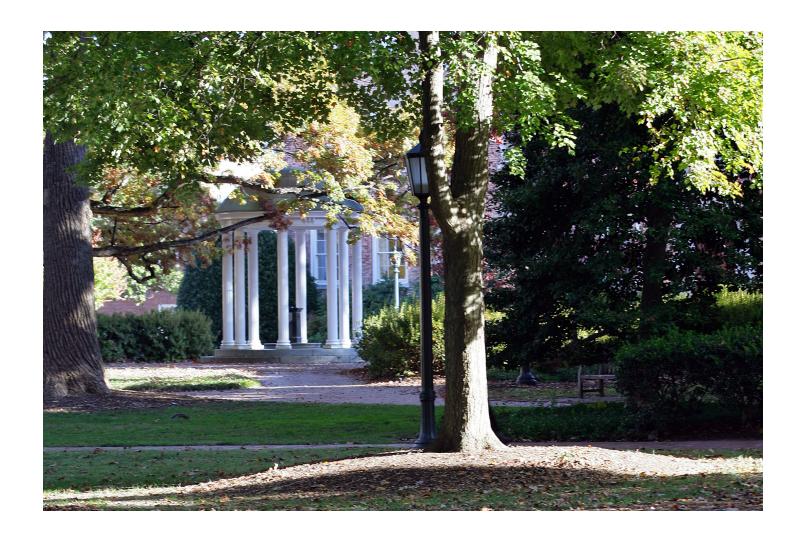
PRESCONDENSER 2-6



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Welcome from the Conference General Chairs

Welcome to Chapel Hill and the University of North Carolina (UNC). We are so happy you have come to join us at this lovely time of year for the world's most important conference on digital preservation. We are honored and delighted to be hosting the twelfth iPRES gathering and the third in the United States.

We are excited about the diversity and quality of contributions to this year's program, including an array of workshops, tutorials, papers, panels, posters, and demos, and keynote addresses. You won't want to miss the poster and demo lightning talks or the poster and demo session. On Wednesday evening, we'll then be announcing awards for best paper (sponsored by Ex Libris) and best poster (sponsored by the School of Information and Library Science at UNC).

Innovation is the Chancellor's theme at UNC this year, and iPRES is following suit with several new components at this year's conference. On Tuesday morning we will start with "Spotlight: This Year's Digital Preservation Noteworthy Progress and Achievements." Program co-chairs, Nancy McGovern and Leo Konstantelos, will provide their thoughts on notable achievements in the past year and framework for the session, but the timeline also will be built from participant contributions. On Wednesday we have a Preservation Storage Community Discussion and a Policy and Practice Documentation Clinic, both of which are new entries into the program. On Thursday, following on the success of the Systems Showcase that was introduced at iPRES 2014 in Melbourne, we will hold a Digital Preservation Showcase, which is framed by a very different set of tasks and questions (focusing more on support for digital preservation decision making), ensuring that those who attended last year's Showcase will have many new things to learn and consider. Thursday will also feature a set of "Get A Room" sessions, which will be driven by participant input and voting on Tuesday and Wednesday.

We have two timely keynote presentations this year. Lisa Nakamura will talk on "The Digital Afterlives of *This Bridge Called My Back*: Public Feminism and Open Access," to start us off on Wednesday and Pam Samuelson will discuss "Mass Digitization of Cultural Heritage" specifically addressing copyright obstacles on Thursday morning.

Enough about the serious stuff – on to the fun! On Monday evening we will have an opening reception on the UNC campus at the Louis Round Wilson Library, home to many world-renowned collections of primary sources. At this reception, sponsored by Oracle, you will be able to share in conversation with colleagues from across the globe, as you dine on heavy hors d'oeuvres and drink. Entertainment will be provided by the UNC a cappella group, the Clef Hangers. On Tuesday evening we will go to the Carolina Club, UNC's Alumni and faculty facility, for a Southern dinner with entertainment from Tommy Edwards Bluegrass Experience. Get your toes set to tap! On Wednesday we will have the iPRES and National Digital Stewardship Alliance (NDSA) awards reception, with food and beverages provided by the Digital Preservation Network (DPN). The Carolina Heartland Cloggers will provide the entertainment after the awards and announcements.

On Thursday you will be on your own for dinner. Chapel Hill has many excellent restaurants. Check out the IPRES2015 web site and handouts for suggestions, but Franklin Street is the place to be! Thursday is also the evening of the IPRES2015 Beer Tour. You can start at the iconic Franklin St. Top of the Hill and make your way over to the establishments in Carrboro. Or you can choose a shorter route that's all within Carrboro itself. The stops along the tour also serve food, so you can fuel up along the way. There will be plenty of chance to socialize and experience the heart of Chapel Hill, so come along whether or not you'll be partaking of the beer.

We would like to thank our sponsors for their generous support: DPN, Ex Libris, Oracle, libnova, and Preservica. Also a big thanks to our hosts: the UNC School of Information and Library Science, the Howard W. Odum Institute for Research in Social Science, and the UNC University Libraries. Finally, a round of applause for the Program Committee and the Organizing Committee. We could not have pulled this off without the support and efforts of all these organizations and individuals.

We hope you have a great time at iPRES and in the Southern Part of Heaven.

Christopher (Cal) Lee, iPRES General Co-Chair

Helen R. Tibbo, iPRES General Co-Chair

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Leo Konstantelos, University of Melbourne (Program Co-Chair)

Christopher (Cal) Lee, University of North Carolina (General Co-Chair)

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Helen Tibbo, University of North Carolina (General Co-Chair)

Kam Woods, University of North Carolina (Digital Preservation Showcase Chair)

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(Workshops and Tutorials Co-Chair)

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Keynote Speakers



Lisa Nakamura is the Gwendolyn Calvert Baker Collegiate Professor in the Department of American Culture and the Department of Screen Arts and Cultures at the University of Michigan, Ann Arbor, where she also serves as Coordinator of Digital Studies. The author of Digitizing Race: Visual Cultures of the Internet (University of Minnesota Press, 2007) and Cybertypes: Race, Ethnicity, and Identity on the Internet (Routledge, 2002), Nakamura has written extensively on issues of race, gender, and sexuality in digital media. Drawing on social media, video games, online avatars, and other mediated visual represen-

tations, Nakamura's work investigates how identities are negotiated in the contemporary digital milieu. Nakamura also co-facilitates FemTechNet, an active network of artists, researchers, activists, students, and librarians engaged at the intersections of science, feminism, and technology. Open to any interested feminist, FemTechNet fosters collaborations and projects to advance feminist technological innovation, promote the involvement of women and girls in scientific and digital activities, and encourage the work of feminist scholars.



Pamela Samuelson is the Richard M. Sherman Distinguished Professor of Law and Information at the University of California, Berkeley. She holds a joint appointment in the UC Berkeley School of Information and School of Law. Throughout her career as a legal scholar, Samuelson has been a pioneer in issues of cyberlaw, intellectual property rights, and digital copyright law. Some of her notable publications include "Google Book Search and the Future of Books in Cyberspace," 94 Minn. L. Rev. 1308 (2010), "Privacy as Intellectual Property?," 52 Stan. L. Rev. 1125 (2000), and "Benson Revisited: The

Case Against Patent Protection for Algorithms and Other Computer Program-Related Inventions," 39 Emory L. J. 1025 (1990). A fellow of the Association for Computing Machinery, a member of the Board of Directors for the Electronic Frontier Foundation, and a member of the Advisory Board for the Electronic Privacy Information Center, Samuelson is an active and influential voice in critical discussions of information policy.

Monday, November 2, 2015

Workshops & Tutorials

8am-5pm

REGISTRATION

9am-3pm

Fedora 4 Tutorial

Andrew Woods (Fedora4 Technical Lead)

This tutorial will provide an introduction to and overview of Fedora 4, with a focus on the latest features. Fedora 4 implements the W3C Linked Data Platform recommendation, so a section of the tutorial will be dedicated to a discussion about LDP and the implications for Fedora 4 and linked data. Fedora 4 is also designed to be integrated with other applications, so a section of the tutorial will review common applications and integration patterns. Finally, attendees will participate in a hands-on session that will give them a chance to install, configure, and explore Fedora 4 by following step-by-step instructions.

Room: Windflower

9am-5pm

Testing the Proposed METS 2.0 Data Model

Bertrand Caron (Department of Bibliographic and Digital Information, Bibliothèque nationale de France), Andreas Nef (Docuteam GmbH), Thomas G. Habing (Library Software Development Group, University of Illinois at Urbana-Champaign) and Nancy J. Hoebelheinrich (Knowledge Motifs LLC, San Mateo, CA, USA)

In this workshop, participants will first develop an understanding of the data models underlying some canonical uses of the existing METS schema as a contextual basis for the description of a next generation METS (2.0) data model. Following the description of the METS 2.0 data model, a number of use cases applying the proposed data model will be discussed to address questions such as how the METS 2.0 data model fits existing implementations, what issues arise from that application, and whether there are more opportunities than challenges to the evolution of the data model as currently proposed. Finally, to put the proposed METS data model into a broader context, complementary data models currently being developed will be discussed such as SEDA (Data Exchange Standard for Archiving) or the Portland Common Data Model. Participants will be invited to participate in the discussions, and the evaluation / refinement of a METS 2.0 data model.

Room: Bellflower

Roles & Responsibilities for Sustaining Open Source Platforms & Tools

Trevor Owens (Senior Program Officer, Institute of Museum and Library Services)

This workshop invites stakeholders representing organizations that play different roles in the open source software ecosystem to share their respective perspectives on roles in this ecosystem. Through discussion, participants will work through issues as they relate to different kinds of open source software systems. These include: 1) descriptions of roles that should be in play as open source software projects move from research/startup phases toward implementation, dissemination, and ultimately maintainer and ongoing feature development; 2) the role of project-based funding; 3) the tradeoffs around different open source software sustainability models; and 4) the role that education, training and ongoing professional development plays in ensuring the use and maintenance of these tools and platforms.

Room: Dogwood

From Theory to Practice: Using ISO16363

Helen R. Tibbo (UNC – Chapel Hill), Nancy Y. McGovern (MIT Libraries), Barbara Sierman (National Library in the Netherlands), Ingrid Dillo (DANS: Data Archiving & Networked Services) and Courtney Mumma (Artefactual Systems, Inc.)

The ISO16363 Standard is a formal framework for determining whether an organization is a Trustworthy Digital Repository. Published in 2012, the standard considers not only the technical infrastructure used for digital object management but also organizational infrastructure, and security risk management. Recognizing that this can go beyond the experience of many new users. This tutorial will focus on an array of options and programs for audit and potential certification of trustworthy digital repositories. These will include self-audit, the European three-level model of certification, the Data Seal of Approval, peer-audit, ISO 16363 audit, and forthcoming certification of trustworthy repositories.

Room: Redbud

6:00pm-8:00pm

OPENING RECEPTION

Venue: Wilson Library, University of North Carolina at Chapel Hill Generously Sponsored by Oracle Entertainment provided by Clef Hangers

The UNC Clef Hangers (also known as the Clefs) is the oldest a cappella group at the University of North Carolina at Chapel Hill. The Clef Hangers were established in 1977, were originally called the Morrison Dorm Singers. In their first concert in 1979, they wore vests (covered with buttons) and bowties, which they continue to don today. Since their first tour to New Orleans, Louisiana in 1980, the Clefs have performed for audiences in Spain, Mexico, France, Scotland, Switzerland, The Bahamas, Los Angeles, Washington DC, New York, and many other locations domestic and abroad. During a tour to New York City, they performed for on the television show Good Morning America. Since 2002, they have also performed at the UNC Commencement ceremony. The Clefs have released several professionally produced studio albums, which have received numerous awards.

Transportation will be provided from the Friday Center to the venue.

Tuesday, November 3, 2015

8am-5pm

REGISTRATION

9am-10am

Opening and Welcome:

Grumman Auditorium

Helen Tibbo (General Co-Chair), Alumni Distinguished Professor, School of Information and Library Science, UNC-Chapel Hill

Christopher (Cal) Lee (General Co-Chair), Associate Professor, School of Information and Library Science, UNC-Chapel Hill

Sally Greene, Chapel Hill Town Council member, Mayor Pro Tempore

Sarah Michalak, Associate Vice Provost and University Librarian, UNC-Chapel Hill **Tom Carsey**, Thomas J. Pearsall Distinguished Professor, Department of Political Science, and Director of the Odum Institute for Research in Social Science, UNC-Chapel Hill

Spotlight: This Year's Digital Preservation Noteworthy Progress and Achievements

Facilitator: Nancy McGovern, Head, Curation and Preservation Services, MIT Libraries

"What would you highlight as significant developments or outcomes over the past year?" The facilitator and presenters will use this question as the basis for a brief review of digital preservation highlights for the year. A couple examples to illustrate: PREMIS version 3.0 was announced and the next OAIS Reference Model revision is underway. Other examples from the digital preservation community might point to: project results; revisions of standards, tools, or software released; or indicators of program developments (e.g., policies developed and shared, preservation strategies demonstrated). In addition to examples from the facilitators to get things going, a core of the review will build on themes and examples from attendee contributions and tweets from across the digital preservation community in response to this question - please join in! What would you highlight?

10am-10:30am

BREAK

10:30am-12pm

SESSIONS

Frameworks for Digital Preservation

Grumman Auditorium

One Core Preservation System For All Your Data. No Exceptions! (L)* Marco Klindt and Kilian Amrhein

In this paper, we describe an OAIS aligned data model and architectural design that enables us to archive digital information with a single core preservation workflow. The data model allows for normalization of metadata from widely varied domains to ingest and manage the submitted information utilizing only one generalized toolchain and be able to create access platforms that are tailored to designated data consumer communities. The design of the preservation system is not dependent on its components to continue to exist over its lifetime, as we anticipate changes both of technology and environment. The initial implementation depends mainly on the open-source tools Archivematica, Fedora/Islandora, and iRODS.

10:30am-12pm

A Foundational Framework for Digital Curation: The Sept Domain Model. (L) Stephen Abrams

Digital curation is a complex of actors, policies, practices, and technologies enabling successful consumer engagement with authentic content of interest across space and time. While digital curation is a rapidly maturing field, it still lacks a convincing unified theoretical foundation. A recent internal evaluation of its programmatic activities by the University of California Curation Center (UC3) led quickly to seemingly simple, yet deceptively difficult-to-answer questions. Too many fundamental terms of curation practice remain overloaded and under-formalized, perhaps none more so than "digital object." To address these concerns, UC3 is developing a new model for conceptualizing the curation domain. While drawing freely from many significant prior efforts (e.g., Kahn-Wilensky, FRBR, NAA, OAIS, BRM, etc.), the UC3 Sept model also assumes that digital curation is an inherently semiotic activity. Consequently, the model considers curated content with respect to six distinct analytic dimensions: semantics, syntactics, empirics, pragmatics, diplomatics, and dynamics, which refer respectively to content's underlying abstract meaning or emotional affect, symbolic encoding structures, physical representations, realizing behaviors, evidential authenticity and reliability, and evolution through time. Correspondingly, the model defines an object typology of increasing consumer utility: blobs, artifacts, exemplars, products, assets, records, and heirlooms, which are respectively existential, intentional, purposeful, interpretable, useful, trustworthy, and resilient digital objects. Content engagement is modeled in terms of producer, owner, manager, and consumer roles acting within a continuum of concerns for originating, organizing, and pluralizing curated content. Content policy and strategy are modeled in terms of six high-level imperatives: predilect, collect, protect, introspect, project, and connect. A consistent, comprehensive, and conceptually parsimonious domain model is important for planning, performing, and evaluating programmatic activities in a rigorous and systematic rather than ad hoc and idiosyncratic manner. The UC3 Sept model can be used to make precise yet concise statements regarding curation intentions, activities, and results.

Developing a Framework for File Format Migrations. (L) Joey Heinen and Andrea Goethals.

In this paper, we describe the development of a file format migrations framework at Harvard Library, using one migration case study, Kodak PhotoCD images, to demonstrate implementation of the framework.

Institutional Opportunities and Challenges

Dogwood

Benchmarks for Digital Preservation Tools. (L) Kresimir Duretec, Artur Kulmukhametov, Andreas Rauber and Christoph Becker

Creation and improvement of tools for digital preservation is a difficult task without an established way to assess any progress in their quality. This happens due to low presence of solid evidence and a lack of accessible approaches to create such evidence. Software benchmarking, as an empirical method, is used in various fields to provide objective evidence about the quality of software tools. However, digital preservation field is still missing a proper adoption of that method. This paper establishes a theory of benchmarking of tools in digital preservation as a solid method for gathering and sharing the evidence needed to achieve widespread improvements in tool quality. To this end, we discuss and synthesize literature and experience on the theory and practice of benchmarking as a method and define a conceptual framework for benchmarks in digital preservation. Four benchmarks that address different digital preservation scenarios are presented. We compare existing reports on tool evaluation and how they address the main components of benchmarking, and we discuss the question of whether the field possesses the right combination of social factors that make benchmarking a promising method at this point in time. The conclusions point to significant opportunities for collaborative benchmarks and systematic evidence sharing, but also several major challenges ahead.

Tuesday, November 3, 2015

10:30am-12pm

Towards a Common Approach for Access to Digital Archival Records in Europe. (L) Alex Thirifays and Kathrine Hougaard Edsen Johansen

This paper describes how the E-ARK project (European Archival Records and Knowledge Preservation) aims to develop an overarching methodology for curating digital assets. This methodology must address business needs and operational issues, proposing a technical wall-to-wall reference implementation for the core OAIS flow – Ingest, Archival Storage and Access. The focal point of the paper is the Access part of the OAIS flow. The paper first lays out the access vision of the E-ARK project, and secondly describes the method employed to enable information processing and to pin-point the functional and non-functional requirements. These requirements will allow the E-ARK project to create a standardized format for the Dissemination Information Package (DIP), and to develop the access tools that will process this format. The paper then proceeds to describe the actual DIP format before detailing what the access solution will look like, which tools will be developed and, not least, why the E-ARK Access system will be used and work.

Developing a Highly Automated Web Archive System Based on IIPC Open Source Software. (S) Zhenxin Wu, Jin Xie, Jiying Hu and Zhixiong Zhang

In this paper, we describe our development of a highly automated web archiving system based on IIPC open source software at the National Science Library (NSL). We designed a web archiving platform which integrates with popular IIPC tools, as well as developing several modules to meet special requirements of the NSL. We have applied a cooperative mode of central management server and collecting client, which can complete the unified management of seeds and support the collaborative work of multiple crawlers. Some modules were developed to improve the automation of web archiving workflow and provide more services.

Best Until ... A National Infrastructure for Digital Preservation in the Netherlands.

(S) Barbara Sierman and Marcel Ras

This paper describes the developments in the Netherlands to establish a national Network for Digital Heritage. This network is based on three pillars: to make the digital heritage visible, usable and sustainably preserved. Three working programmes will have their own but integrated set of dedicated actions in order to create a national infrastructure in the Netherlands, based on an optimal use of existing facilities. In this paper the focus is on the activities related to the sustainable preservation of the Dutch national digital heritage.

Panel Redbud

Good, Better, Best? Examining the Range and Rationales of Institutional Data Curation Practices. Robin Rice, Limor Peer, Wendy White and Florio Arguillas

Many academic institutions are grappling with managing local research data assets. Resources and approaches vary. This panel will explore curation procedures at institutional data repositories.

12pm-1pm

LUNCH

Infrastructure Opportunities and Challenges

Grumman Auditorium

Archiving Deferred Representations Using a Two-Tiered Crawling Approach. (L) Justin Brunelle, Michele Weigle and Michael Nelson

Web resources are increasingly interactive, resulting in resources that are increasingly difficult to archive. The archival difficulty is based on the use of client-side technologies (e.g., JavaScript) to change the client-side state of a representation after it has initially loaded. We refer to these representations as *deferred representations*. We can better archive deferred representations using tools like headless browsing clients. We use 10,000 seed Universal Resource Identifiers (URIs) to explore the impact of including PhantomJS – a headless browsing tool – into the crawling process by comparing the performance of wget (the baseline), PhantomJS, and Heritrix. Heritrix crawled 2.065 URIs per second, 12.15 times faster than PhantomJS and 2.4 times faster than wget. However, PhantomJS discovered 531,484 URIs, 1.75 times more than Heritrix and 4.11 times more than wget. To take advantage of the performance benefits of Heritrix and the URI discovery of PhantomJS, we recommend a tiered crawling strategy in which a classifier predicts whether a representation will be deferred or not, and only resources with deferred representations are crawled with PhantomJS while resources without deferred representations are crawled with Heritrix. We show that this approach is 5.2 times faster than using only PhantomJS and creates a frontier (set of URIs to be crawled) 1.8 times larger than using only Heritrix.

Techniques for Preserving Scientific Software Executions: Preserve the Mess or Encourage Cleanliness? (L) Douglas Thain, Peter Ivie and Haiyan Meng

An increasing amount of scientific work is performed *in silico*, such that the entire process of investigation, from experiment to publication, is performed by computer. Unfortunately, this has made the problem of scientific reproducibility even harder, due to the complexity and imprecision of specifying and recreating the computing environments needed to run a given piece of software. Here, we consider from a high level what techniques and technologies must be put in place to allow for the accurate preservation of the execution of software. We assume that there exists a suitable digital archive for storing digital objects; what is missing are frameworks for precisely specifying, assembling, and executing software with all of its dependencies. We discuss the fundamental problems of managing implicit dependencies and outline two broad approaches: preserving the mess, and encouraging cleanliness. We introduce three prototype tools for preserving software executions: Parrot, Umbrella, and Prune.

A Method for the Systematic Generation of Audit Logs in a Digital Preservation Environment and Its Experimental Implementation In a Production Ready System.

(S) Hao Xu, Jason Coposky, Dan Bedard, Jewel Ward, Terrell Russell, Arcot Rajasekar, Reagan Moore, Ben Keller and Zoey Greer

In a digital preservation environment there is a need for a complete auditing of system state changes. A complete log ensures that the properties of the objects in the system can be verified. Modern data management systems such as the integrated Rule-Oriented Data System (iRODS) allow administrators to configure complex policies. Pre- or post-operation, these policies can trigger other state changing operations. In this paper, we describe a method that allows us - given a complete list of state changing operations - to generate a complete audit log of the system. We also describe an experimental implementation of the framework. An important advantage of our method is that not only do we build on sound theoretical foundations, but we also validate the methodology in a production-ready environment which has undergone substantial quality control. The implementation of our method can be distributed as a turnkey solution that is ready to deploy, which significantly shortens the gap between theoretical development and practical applications.

Tuesday, November 3, 2015

1pm-2:30pm

Preserving an Evolving Collection: "On-The-Fly" Solutions for the Chora of Metaponto Publication Series. (S) Jessica Trelogan, Maria Esteva and Lauren Jackson

As digital scholarship continues to transform research, so it changes the way we present and publish it. In archaeology, this has meant a transition from the traditional print monograph, representing the "definitive" interpretation of a site or land-scape, to an online, open, and interactive model in which data collections have become central. Online representations of archaeological research must achieve transparency, exposing the connections between fieldwork and research methods, data objects, metadata, and derived conclusions. Accomplishing this often requires multiple platforms that can be burdensome to integrate and preserve. To address this, the Institute of Classical Archaeology and the Texas Advanced Computing Center have developed a "collection architecture" that integrates disparate and distributed cyberinfrastructure resources through a customized automated metadata platform, along with procedures for data presentation and preservation. The system supports "on-the-fly" data archiving and publication, as the collection is organized, shared, documented, analyzed, and distributed.

Preservation Strategies and Workflows

Dogwood

Functional Access to Forensic Disk Images in a Web Service. (S) Kam Woods, Christopher Lee, Oleg Stobbe, Thomas Liebetraut and Klaus Rechert

We describe a hybrid approach for access to digital objects contained within forensic disk images extracted from physical media. This approach includes the use of emulation-as-a-service (EaaS) to provide web-accessible virtual environments for materials that may not render or execute accuratelyon modern hardware and software, and the use of digital forensics software libraries to produce web-accessible file system views to support single-file access and provide visualizations of the file system.

Experiment, Document & Decide: A Collaborative Approach to Preservation Planning at the BnF. (S) Bertrand Caron, Thomas Ledoux, Jean-Philippe Tramoni and Stéphane Reecht

The National Library of France (BnF) has recently implemented a new module for its Scalable Preservation and Archiving Repository (SPAR) to set up preservation strategies based on formats, agents, workflows, tools and tests, and managed as reference packages in the Archive. This module aims to fulfill an objective: for SPAR to be fully self-documented. Formats, agents and workflows are formally described and preserved along with the Information packages in which such elements are involved. Although this was a feature that was included from the beginnings of SPAR, the new Preservation Planning module aims to provide a tool that can more easily build these reference packages and that will more closely involve domain experts and the IT department in the processes of preservation planning. But the main innovation lies in the documentation of decisions that directed their selection as standards in SPAR: test data are now preserved as a new kind of reference package.

Beyond the Binary: Pre-Ingest Preservation of Metadata. (S) Jessica Moran and Jay Gattuso

This paper describes some of the challenges the National Library of New Zealand has faced in our efforts to maintain the authenticity of born digital collection items from first transfer to the Library through ingest into our digital preservation system. We assume that assuring the authenticity and integrity of digital objects means preserving the binary objects plus metadata about the objects. We discuss the efforts and challenges of the Library to preserve contextual metadata around the binary object, in particular filenames and file dates. We discuss these efforts from the two perspectives of the digital archivist and the digital preservation analyst, and how these two perspectives inform our current thinking.

1pm-2:30pm

Participatory Digital Repositories for the Curation of Performing Arts with Digital Technology. (S) Guillaume Boutard

The complexity of socio-technical systems in artistic production involving digital technology, especially in the performing arts, challenges digital curation models with a potential shift from cycles to networks. We argue that digital curation models need to develop in parallel to interdisciplinary investigations of these systems. These investigations question the conceptual separation of curation stages as well as roles. In this paper, we build on previous curation projects for new media arts and on the historical analysis of a specific work of contemporary music with live electronics to propose future directions for the integration of curation practices, artistic practices and digital curation models.

Characterization of CDROMs for Emulation-based Access. (L) Klaus Rechert, Thomas Liebetraut, Oleg Stobbe, Isgandar Valizada and Tobias Steinke

Memory institutions have already collected a large number of digital objects, predominantly CD-ROMs. Some of them are already inaccessible with current systems, and most of them will be soon. Emulation offers a viable strategy for long-term access to these publications. However, these collections are huge and the objects are missing technical metadata to setup a suitable emulated environment. In this paper we propose a pragmatic approach to technical metadata which we use to implement a characterization tool to suggest a suitable emulated rendering environment.

Panel Redbud

Advancing the Evidence Base of Digital Preservation. Micah Altman, Helen Tibbo and NDSA Coordinating Committee

Research is critical to the advancement of both a basic understanding and the effective practice of digital preservation. Research must, however, be intimately linked to practice in order to improve outcomes. This panel will discuss methodology, metrics, tools, and exemplars that can effectively build the evidence base for digital preservation. Panelists will present on a simulation framework for evaluating preservation risks, formal/machine actionable preservation strategies and implementations; and evaluation of preservation performance.

2:30pm-3pm

BREAK

3pm-4:30pm

SESSIONS

Institutional Opportunities and Challenges

Grumman Auditorium

DataNet Federation Consortium Preservation Policy Toolkit. (L) Reagan Moore, Arcot Rajasekar and Hao Xu

The DataNet Federation Consortium uses a policy-based data management system to apply and enforce preservation requirements. This paper describes the Preservation Policy Toolkit developed by the consortium. In particular, the paper describes the infrastructure needed for preservation, presents examples of computer actionable forms of policies, and provides a generic template for designing actionable preservation policies.

Tuesday, November 3, 2015

3pm-4:30pm

Preserving the Fruit of Our Labor: Establishing Digital Preservation Policies and Strategies at the University of Houston Libraries. (S)Santi Thompson, Annie Wu, Drew Krewer, Mary Manning and Rob Spragg

To develop a comprehensive digital preservation program for maintaining long-term access to the Libraries' digital assets and align our practices with national standards and guidelines, the University of Houston (UH) Libraries formed the Digital Preservation Task Force (DPTF) to assess previous digital preservation practices and make recommendations on future efforts. This paper outlines the methodology used, including the task force's use of existing models and evaluation criteria, to successfully generate new policies and select Archivematica as our system to process and preserve our digital assets. It concludes with recommended strategies for the implementation of the policies and preservation operations.

Copyright and the Digitization of State Government Documents: A Preliminary Analysis. (S) Brett Currier, Anne Gilliland and David Hansen

In this paper we explore the copyright status of state and local government documents and address some of the legal issues encountered when digitizing them.

Project Chrysalis – Transforming the Digital Business of the National Archives of Australia. (S) Zoe D'Arcy

The role of the National Archives of Australia is to promote the creation, management and preservation of authentic, reliable and usable Commonwealth government records and enable ongoing public access to the archival resources of the Commonwealth. Records that are created by Commonwealth government agencies and transferred to the National Archives are, of course, predominately digital. Digital records bring a range of challenges, but they also potentially present new opportunities in the way archives can conduct their business. This paper outlines a project currently underway at the National Archives, named Project Chrysalis, which is an end-to-end business system that aims to transform the way in which the Archives does its digital business. Project Chrysalis represents not just a technical solution, but also significant business change for the National Archives. However, if implemented successfully, the project should enable the Archives to sustainably harvest, preserve and provide access to digital records in the information age.

Digital Preservation Frameworks, Strategies and Workflows

Dogwood

DURAARK WorkbenchUI – a Pre-Ingest Toolset Bridging Producer, Archival and Consumer Needs. (L) Michelle Lindlar and Martin Hecher WITHDRAWN

Within the last few years the efforts to advance a stronger involvement of producers and consumers in digital preservation could be observed. Here, especially the producer plays a pivotal role, as the knowledge about object creation and context resides on this side and needs to be passed adequately to a digital preservation system. As part of these efforts, pre-ingest tools have increased in importance. The DURAARK project is currently developing the pre-ingest toolset DURAARK WorkbenchUI to assist digital curation and preservation processes for architectural 3D data. This paper will introduce the WorkbenchUI from component, work-flow and technological viewpoints. We will discuss how the workbench can be integrated into different digital preservation environments and give a brief outlook towards further work on the DURAARK WorkbenchUI.

3pm-4:30pm

Lessons Learned and Open Challenges Regarding Data Management Plans and Research Date Management Support (L) Heike Görzig, Felix Engel, Matthias L. Hemmje and Holger Brocks

This paper outlines an approach for developing tools and services that support automated generation, management, evolution and execution of data management plans (DMPs) by generating rules derived from the DMPs which can be applied to the data to be archived. The approach is based on existing models and tools that were developed in successive research projects SHAMAN, APARSEN, and SCIDIP-ES. The models include the Curation Lifecycle Model from the DCC, the OAIS Information Model and the Extended Information Model to support processes, domains, and organizations. An approach for deriving rules from policies is outlined to support using iRODS. OAIS and Context Information related to a data object is supported in a serialization using the OAI-ORE format.

Human and Machine-Based File Format Endangerment Notification and Recommender Systems Development. (S) Heather Ryan, Roman Graf and Sergiu Gordea

Effectively preserving access to digital content over time is dependent on availability of an appropriate IT infrastructure including access to appropriate rendering software and its requisite operating systems and hardware. The complexity of this task increases over time and with the size and heterogeneity of digital collections. Automating notifications on file format endangerment and decision recommendations can greatly improve preservation planning processes. This paper presents work in progress that contributes to the design and testing of an automated file format endangerment notification and recommendation system. This system's design is based on concepts explored in previous research, but it presents the novel application of statistically generated similarity profiles and machine-generated recommendations based on human expert input.

Deduplicating Bibliotheca Alexandrina's Web Archive. (S) Youssef Eldakar and Magdy Nagi

Archiving web content is bound to produce datasets with duplication, either across time or across location. The Bibliotheca Alexandrina (BA) has a web archive legacy spanning a period of 10 years and is continuing to expand the collection. Initial assessment of this very large store of data was conducted. Given a high enough rate of duplication, deduplication would lead to sizable savings in storage requirements. The BA worked through the International Internet Preservation Consortium (IIPC) to compile best practices for recording duplicates in ISO 28500, the WARC File Format. To deduplicate legacy web archives "after the fact," the BA is implementing the WARCrefs deduplication tools. Following implementation and testing, the BA plans to put the tools to use to deduplicate its one petabyte of archived web content.

Panel Redbud

Preserving Born-Digital News. Edward McCain, Hannah Sommers, Christie Moffatt, Abigail Potter, Stéphane Reecht and Martin Klein

The news industry has quickly adopted networked digital technologies to create and distribute their content across all media types and in an ever-increasing number of formats. These technologies have also enabled individuals to capture and share information, news, and opinion on contemporary and community events. These changes contribute to a dynamic news ecosystem, upending traditional publishing models that media companies, libraries, archives and memory institutions have depended on to save the news. In this panel, the challenges and opportunities of preserving born-digital news content will be presented and discussed. A preliminary environmental scan of the state of digital news preservation will be shared. Perspectives and tactics from the "front-line" of news creation will be covered in addition to establishing special collections to capture and preserve web sites that cover news events. Efforts to establish relationships with the creators of content management systems (CMS) that drive the back end of modern media publishing networks will also be presented, as will tools that have been developed to capture social media and other content from the web that contributes to the present day news ecosystem.

Tuesday, November 3, 2015

6:30pm-8:30pm

GROUP DINNER

Venue: Carolina Club, George Hill Watts Alumni Center Performance by The Bluegrass Experience

Tommy Edwards is lead singer and guitarist for The Bluegrass Experience, one of the Southeast's most respected traditional music groups. He is also host of the "Bluegrass Saturday Night" radio program, which features both classic and contemporary bluegrass recordings as well as interviews with people associated with the music and a calendar of traditional music events in the Heart of Carolina. Edwards has performed professionally for more than 35 years, was twice named World Champion Bluegrass Guitarist and has recorded or performed live with an array of bluegrass greats. He and his wife Cindy are respected collectors of and authorities on the traditional pottery of central North Carolina. They operated an antiques business for more than 25 years.

Transportation will be provided from the Friday Center to hotels. The buses will then run to and from hotels (except Carolina Inn) to the venue.

9am-10am

KEYNOTE

Grumman Auditorium

The Digital Afterlives of *This Bridge Called My Back*: Public Feminism and Open Access

Lisa Nakamura, Gwendolyn Calvert Baker Collegiate Professor, Department of American Cultures and the Department of Screen Arts and Cultures, University of Michigan

Chair: Lilly U. Nguyen, Assistant Professor, Department of Women's and Gender Studies, University of North Carolina at Chapel Hill

This presentation will describe how the social media platform Tumblr has been deployed by fans as a site of memory for the canonical and until recently out of print woman of color text *This Bridge Called My Back*. The curation, distribution, and communities of shared feeling that have formed around this text demonstrate how it has come to function as a rallying point for post-digital feminists.

10am-10:30am

BREAK

10:30am-12pm

SESSIONS

Dimensions of Digital Preservation

Grumman Auditorium

Applying Translational Principles to Data Science Curriculum Development. (L) Liz Lyon, Eleanor Mattern, Amelia Acker and Alison Langmead

This paper reports on a curriculum mapping study that examined job descriptions and advertisements for three data curation focused positions: Data Librarian, Data Steward / Curator, and Data Archivist. We present a transferable methodological approach for curriculum development and the findings from our evaluation of employer requirements for these positions. This paper presents "model pathways" for these data curation roles and reflects on opportunities for iSchools to adopt translational data science principles to frame and extend their curriculum to prepare their students for data-driven career opportunities.

Educational Records of Practice: Preservation and Access Concerns. (S) Elizabeth Yakel, Rebecca Frank and Kara Suzuka

Researchers in information science are placing increased attention on data reuse and on what must be preserved with that data to enable meaningful use by scholars within and across disciplines. Although the focus has been on scientific or quantitative data, this paper expands the discussion to qualitative data – specifically digital video records of practice in the field of education. This is an interesting case because researchers and diverse education professionals are interested in reusing this content, though their needs differ. We focus on three issues that raise challenges for preservation and access: file format, context, and dissemination.

A Survey of Organizational Assessment Frameworks in Digital Preservation. (L) Emily Maemura, Nathan Moles and Christoph Becker

As the field of digital preservation continues to mature, there is an increasing need to systematically assess an organization's abilities to achieve its digital preservation goals. A wide variety of assessment tools exist for this purpose. These range from light-weight checklists to resource-intensive certification processes. Conducted as part of the BenchmarkDP project, this paper presents a survey of these tools that elucidates available options for practitioners and opportunities for further research.

Wednesday, November 4, 2015

10:30am-12pm

Getting to the Bottom Line: 20 Digital Preservation Cost Questions. (S) Matt Schultz, Aaron Trehub and Katherine Skinner

Getting to the Bottom Line: 20 Cost Questions for Digital Preservation is a cost-gathering resource created by the Outreach Committee of the MetaArchive Cooperative in Spring 2015. Launched during an Association of Southeastern Research Libraries (ASERL) webinar on March 11, 2015, this resource has been shared broadly with libraries, archives, and other institutions that have an interest in procuring digital preservation services. The easy-to-use resource is designed to equip institutions with questions that they can use to identify the full range of costs that might be associated with any particular digital preservation service--proprietary, community-sourced, or otherwise. For a variety of reasons, services of all types do not always make their costs as transparent as institutions might prefer. Using the Getting to the Bottom Line question-set will help ensure that institutions do not leave any stones unturned when evaluating their options and that they gather the information that they need to make informed choices that lead to sustainable solutions. Institutions are encouraged to make free use of the questions, adapt them as needed, and provide feedback on their usefulness. Going forward, the resource will serve as a foundation for building additional and more sophisticated cost transparency resources targeted toward the digital preservation community.

Innovative Session

Dogwood

Preservation Storage Community Discussion Facilitator: Eld Zierau

Preservation storage is a core component of a sustainable digital preservation program and many organizations are wading through available and emerging options, both locally and beyond. This facilitated community discussion will open with some examples organizational approaches, strategies, and possible services then pose a series of questions to help participants identify and weigh options in relation to requirements, available resources, compliance, and feasibility. Note takers will capture highlights and outcomes from the discussion to share following the session. Please do bring along (and/or tweet) your examples and questions!

12pm-1pm

LUNCH

1pm-2:30pm

SESSIONS

Panel

Grumman Auditorium

Long-Term Preservation Strategies & Architecture: Views from Implementers. Mary Molinaro, Katherine Skinner, Sibyl Schaefer, Dave Pcolar, and Sam Meister

Join us for a panel presentation on the dark side of preservation. This panel will address the current state of long-term digital preservation and where we've come in the last decade. The presenters will review the tools and techniques for their projects and how they work. The panel will engage in an open discussion on the issues around long-term digital preservation, including: costs, technology, hurdles (technical and political) and planning for the future. The panel will also address how long-term digital preservation transcends disciplinary boundaries of librarianship and computer science and what values are implicit in the work and activities.

1pm-2:30pm

Innovative Session

Dogwood

Policy and Practice Documentation Clinic Facilitator: Maureen Pennock

To demonstrate good practice, digital preservation programs need to develop, accumulate, preserve and make available as appropriate relevant and requisite policies and related documentation – evidence that repositories are addressing the set of emerging and evolving standards and requirements. This informal session will open with an overview of some organizational examples then break into small group to review examples and address questions from participants. Come ready with (and/or tweet) your examples and questions!

Panel Redbud

Preservation of Research Data for Reuse. Ixchel Faniel, Elizabeth Hull, Vessela Ensberg, Seth Shaw and Reagan Moore

This panel aims to link research and practice around the preservation necessary for meaningful reuse of research data over the long term. Panelists will discuss preserving the contexts around the meaning of data that enable assessments of data quality necessary for reuse, preserving the bits of data that enable long-term access across the continuum and rendering, and shaping research data services to address the two in a more effective, integrated manner.

2:30pm-3pm

BREAK

3pm-5:30pm

POSTER AND DEMO SESSIONS

Demos/Posters

Friday Center Atrium

Poster/Demo Lighting Talks

Grumman Auditorium

- 1. Mind the Gap. Bridging Digital Libraries & Archives
 Mark Leggott and Erin Tripp
- **2. Managing and Preserving Research Data in Ex Libris Rosetta** Adi Alter and Ido Peled
- **3.** The Oracle Cloud Storage Archive for Long-term Storage and Preservation Pyounguk Cho and Art Pasquinelli

Wednesday, November 4, 2015

3pm-5:30pm

Infrastructure and Community Standard of Digital Preservation

4. Strategies for Audit-based Repository Certification: Guidelines, Resources, and Tools to Prepare, Organize, and Evaluate Criteria Evidence

Jessica Tieman

5. In the Thicket of It with the NDSA Standards and Practices Working Group: Cultivating Grass Roots Approaches to Real-World Digital Preservation Issues

Winston Atkins, Erin Engle, Andrea Goethals, Karl Jackson, Kate Murray, Carol Kussmann, Michelle Paolillo and Mariella Soprano

6. Alternatives for Long-Term Storage Of Digital Information

Chris Erickson and Barry Lunt

7. Invitation to Join the OAIS Community Platform

Barbara Sierman, William Kilbride, Hervé L'Hours and Paul Wheatley

8. Open Preservation Foundation Community Survey 2015

Ed Fay, Becky McGuinness, Carl Wilson and Nick Krabbenhoeft

9. Addressing Major Digital Archiving Challenges

Janet Delve, David Anderson and Andrew Wilson

10. The Strategic Framework and the Mechanism of Rights Management of Long-term Preservation WITHDRAWN

Yin Gaolei and Zhao Yan

Innovation in Workflow and Practice

11. Automatic Identification and Preservation of National Parts of the Internet Outside a Country's Top Level Domain

Eld Zierau

12. An Institutional Digital Repository Backbone

Adi Alter and Ido Peled

13. ArchivesSpace-Archivematica-DSpace Workflow Integration

Michael Shallcross and Max Eckard

14. Dash Curation Service Infrastructure Enhancement: An Informed Extension & RedesignNancy Hoebelheinrich and Stephen Abrams

15. Minimal Effort Ingest

Bolette Ammitzbøll Jurik, Asger Askov Blekinge and Kåre Fiedler Christiansen

16. A National Preservation Solution for Cultural Heritage

Juha Lehtonen, Heikki Helin, Kimmo Koivunen, Kuisma Lehtonen and Mikko Tiainen

17. Using the Virtual-private Cloud Model to Serve and Preserve Historical Collections: A Case Study (Based on Islandora)

Gail Truman and Jaime Henderson

18. Making the Pieces Fit: Integrating Preservation into a Digital Material Ecosystem Jennifer Thoegersen

19. Modeling Tweets in Compliance with the Portland Common Data Model Martin Klein and Kevin Clarke

Emulation, Migration, and Long-term Accessibility

20. Research on Accessibility of Digital Documentation on Physical Media across Different Versions of MS Windows

Shunsuke Yamamoto

- 21. Protecting the Long-Term Viability of Digital Composite Objects through Format Migration Elizabeth Russey Roke and Dorothy Waugh
- 22. Preserving In-House Developed Software

Nicole Contaxis

23. Preserving Qualitative Data: A Data Model to Prepare Computer Assisted Qualitative Data Analysis Software Data for Long-term Preservation

Umar Qasim and Kendall Roark

24. (Re-)publication of Preserved, Interactive Content -- Theresa Duncan CD-ROMs: Visionary Videogames for Girls

Dragan Espenschied, Isgandar Valizada, Oleg Stobbe, Thomas Liebetraut and Klaus Rechert

- **25. Software Reuse, Repurposing and Reproducibility** Catherine Jones, Brian Matthews and Ian Gent
- **26.** Providing Access to Disk Image Content: A Preliminary Approach and Workflow Walker Sampson and Alexandra Chassanoff

Teaching, Education, and Research Data Management

- **27.** The retroTECH Program at the Georgia Tech Library: Digital Preservation through Access Sherri Brown, Wendy Hagenmaier, Lizzy Rolando, Jody Thompson and Alison Valk
- 28. Preserving Informal Astronomy: Arceli, the PressForward Plugin, and the Archiving of Scientific Communications

Stephanie Westcott, Kelle Cruz and Eric Olson

- **29. Assessing the Scale of Challenges for Preserving Research Data**Umar Qasim, Chuck Humphrey, John Huck, Leanne Trimble, Alex Garnett, Dugan O'Neil, Sean Cavanaugh, Jason Knabl, Jason Hlady, Rachana Ananthakrishnan, Kyle Chard and Jim Pruyn
- **30. Establishing Trustworthy Repositories of Scientific Data: Opportunities and Benefits** Robert Downs, Ruth Duerr, Devan Donaldson and Sarah Ramdeen
- 31. In Search of GeoBlacklight: Reporting on a Community-Driven Geospatial Data Portal in the Library

Shane Coleman, Andrea Ogier and Mohamed Farag

32. Achieving Transparency and Replicability: A Data Curation, Verification, and Publication Workflow

Thu-Mai Christian and Sophia Lafferty-Hess

33. Should Web Archives Be Used for Research Data Preservation?

Todd Suomela

34. Targeting Audiences among the Masses: A Data Curation MOOC for Researchers and Information Professionals

Helen Tibbo, Thu-Mai Christian and Rachel Goatley

- **35. Preserving Electronic Syllabi at California State University Long Beach** Chloé Pascual
- **36. What We Teach: An Assessment of Graduate-Level Digital Curation Syllabi**Carolyn Hank, Noah Lasley, Xiaohua Zhu, Kylan Shireman and Charlene N. Kirkpatrick
- 37. Congregating Socio-Economic Data Sets for Scholastic Research: A Case Study in IIMB Library

K Rama Patnaik

5:30pm-8pm

National Digital Stewardship Alliance (NDSA) Awards Reception

Friday Center Atrium

Reception Sponsored by Digital Preservation Network
Best Poster Award Sponsored by School of Information and Library Science,
University of North Carolina at Chapel Hill
Best Paper Award Sponsored by Ex Libris

Performance by The Carolina Heartland Cloggers

Founded in 1984, the Carolina Heartland Cloggers, are an adult traditional clogging team that exhibits a variety of styles which exemplify the rich heritage and art of Southern Appalachian clogging in North Carolina. Their dance routines include freestyles, precision, smooth, hoedown, show and line.

Thursday, November 5, 2015

8am-5pm

REGISTRATION

9am-10am

KEYNOTE

Grumman Auditorium

Mass Digitization of Cultural Heritage: Can Copyright Obstacles Be Overcome?

Pam Samuelson, Richard M. Sherman Distinguished Professor of Law; Professor of School Information; Co-Director, Berkeley Center for Law & Technology

Chair: Anne Gilliland, Scholarly Communications Officer and Associate Law Librarian, University of North Carolina at Chapel Hill

Preserving cultural heritage is an important obligation that our society owes to future generations. Digital technologies have opened up new opportunities for engaging in preservation activities. Copyright is sometimes a significant impediment to digital preservation, although to be sure, it is far from the only challenge digital preservationists face. This talk will focus attention on the role that fair use may play in surmounting the copyright challenges, in light of the very recent appellate court decision in Authors Guild v. Google Inc. The Authors Guild v. HathiTrust appellate court decision from the previous year has affirmed the fairness of digitizing for purposes of creating a full-text searchable database, preserving in-copyright materials, and enhancing access to the contents of books for print-disabled persons. The Google decision makes it clear that serving up snippets that do not show enough of the expression in copyrighted materials to supplant market demand is fair use. Although the Authors Guild has announced that it will ask the Supreme Court to review the Google decision, this talk will explain why I think that appeal will not be successful. The greater challenge, however, is how to increase public access to the contents of the cultural artifacts of the 20th century beyond snippets. This talk will consider how much work fair use can do to achieve this objective and will discuss the Copyright Office's proposal for an extended collective license solution to the problem of attaining more access to the contents of in-copyright materials.

10am-10:30am

BREAK

10:30am-12pm

Digital Preservation Showcase

Grumman Auditorium

For the showcase, representatives of four preservation software environments - Archivematica, Islandora, Preservica, and Rosetta - will explain how their software addresses specific points in three main functional areas: ingest, preservation/storage, and access

Presenters:

- Archivematica: Evelyn McLellan (President, Artefactual)
- Islandora: Mark Leggott (Founder and Treasurer, Islandora)
- Preservica: Michael Hope (Senior Technology Marketing Manager)
- Rosetta: Christa Jameson (Meetings and Events Manager, Ex Libris)

Session 1 (10:30am-12:00pm) – Ingest (Moderator, Janet Delve, Creative Technologies)

Get a Room

Do you have an idea for a session for iPres 2016? Do you want to brainstorm with colleagues about a possible collaborative project? Do you want to continue a discussion of a topic raised in a session during the week? Sign up to get a room – sign-up sheets will be available from Tuesday morning until the end of lunch on Wednesday. Be sure to vote for a session if you're interested in participating. Room assignments will be announced at the National Digital Stewardship Alliance (NDSA) Awards Reception on Wednesday evening.

Thursday, November 5, 2015

12pm-1pm

LUNCH

1pm-3:30pm

Digital Preservation Showcase

Grumman Auditorium

1:00pm-2:00pm - Session Two

Preservation and Storage (Moderator, Carl Wilson, Open Preservation Foundation)

2:00pm-3:00pm - Session Three

Access (Moderator, Carl Wilson, Open Preservation Foundation)

3:00pm-3:30pm - Wrap-Up

Open Discussion (Moderator, Kam Woods, University of North Carolina)

1pm-3:30pm

Get a Room

Do you have an idea for a session for iPres 2016? Do you want to brainstorm with colleagues about a possible collaborative project? Do you want to continue a discussion of a topic raised in a session during the week? Sign up to get a room – sign-up sheets will be available from Tuesday morning until the end of lunch on Wednesday. Be sure to vote for a session if you're interested in participating. Room assignments will be announced at the National Digital Stewardship Alliance (NDSA) Awards Reception on Wednesday evening.

3:30pm-4:pm

BREAK

4pm-5pm

Watch This Space: What's Happening in the Digital

Grumman Auditorium

Preservation Community that Might Become Next Year's Highlights?

Facilitator: Leo Konstantelos

"What would you recommend to others in the digital preservation community to watch over the next year?" Paralleling the Spotlight portion of the Opening Session, the facilitator and presenters will suggest their own examples of project, initiatives, and developments to watch over the next year. The session will reference examples from presenters during the week and build on examples provided contributed by attendees and in tweets from across the digital preservation community.

Friday, November 6, 2015

Workshops & Tutorials

Note: All Friday workshops and tutorials will be held on the campus of the University of North Carolina at Chapel Hill, **not** the Friday Center.

Lunch for all Friday workshops and tutorials will be in Lenoir Hall, Mainstreet. You will receive a voucher to purchase lunch if you have registered for one of these workshops.

8am-5pm

REGISTRATION

9am-12pm

PREMIS Implementation Fair

Evelyn McLellan (Artefactual Systems), Karin Bredenberg (National Archives of Sweden) and Rebecca Guenther (Consultant and Library of Congress)

This workshop provides PREMIS implementers with an overview of the changes in the PREMIS Data Dictionary for Preservation Metadata, version 3.0. As an international standard for metadata to support the digital preservation process, PREMIS has been implemented world-wide and is incorporated in many commercial and open-source digital preservation tools and systems. With the release of version 3.0 in June 2015, implementers have enhanced ability to describe their digital assets, including a new way of describing complex software and hardware environments that are so important to their preservation and future use. There will also be a report on the integration of preservation systems and tools that provide different functions in management and preservation. Implementers are encouraged to report on their experiences using PREMIS, particularly issues encountered, and there will be ample time for discussion.

Davis Library, Room 214

9am-5pm

Using Open-Source Tools to Fulfill Digital Preservation Requirements

Courtney Mumma (Internet Archive), Bradley Westbrook (Lyrasis), Michael Shallcross (University of Michigan), Sam Meister (Educopia), Christine Di Bella (Lyrasis), Max Eckard, (University of Michigan) and Christopher (Cal) Lee (University of North Carolina)

This workshop offers a space to talk about open-source software for digital preservation, and the particular challenges of developing systems and integrating them into local environments and workflows. Topics will include current efforts and grant-funded initiatives to integrate different open source archival software tools; the development of workflows involving multiple open source tools for digital preservation, forensics, discovery and access; and the identification of gaps which may need filled by these or other tools.

Hitchcock Multipurpose Room, Sonja Haynes Stone Center for Black Culture and History

Curating Research Assets and Data Using Lifecycle Education

Helen Tibbo (UNC - Chapel Hill) and Thu-Mai Christian (UNC - Chapel Hill)

As major funding agencies, publishers, and research institutions continue to issue data sharing, management, and archiving policies in increasing numbers, libraries are being called upon to support researchers in their efforts to comply with these policies. To be responsive to researchers' data needs and to increase the likelihood of effective and efficient data preservation, many data librarians and archivists are seeking the knowledge, skills, and competencies necessary to confront the growing—and increasingly complex—data management and preservation needs of their institutions. With lecture, discussion, and hands-on exercises, this tutorial will explore the obligations of researchers to manage their data, identify the attributes of data that add to the complexity of data curation tasks, and introduce a range of tools and resources available to help librarians effectively implement data curation, and particularly, preservation services.

Manning Hall, Room 117

Benchmarking Forum

Kresimir Duretec (Technical University of Vienna), Artur Kulmukhametov (Technical University of Vienna), Christoph Becker (University of Toronto, Technical University of Vienna) and Andreas Rauber (Technical University of Vienna)

The quality of digital preservation tools is of great importance to the preservation community. However, quality assessment is often done in an isolated way with a lack of systematic and community driven initiatives. Benchmarking is a method of comparing entities to a well-defined standard (benchmark) that has shown itself as a valuable empirical method for evaluating software tools. The successfulness of benchmarking is dependent on the readiness of the community to accept and drive the whole process. This workshop is focused on discussing software benchmarking practices in digital preservation and how these can contribute to improving digital preservation tools.

Manning Hall. Room 304

1pm-5pm

Data Mining Web Archives

Jefferson Bailey (Internet Archive)

This workshop will explore new methods of research use of web archives by giving attendees exposure to, and training in, the tools, methods, and types of analysis possible in working with datasets extracted from the entirety of curated web archive collections. Giving researchers datasets of specific extracted metadata elements, link graph data, named entities, and other post-processed data can help facilitate new uses and new types of visualization, inquiry, and analysis.

Manning Hall, Room 001

Conference buses will provide service from area hotels to the campus of the University of North Carolina at Chapel Hill for Friday workshops and tutorials. The Chapel Hill Transit system provides service from most hotels to the campus of the University of North Carolina at Chapel Hill. Additional information about times and routes can be found at http://bit.ly/1zhhlGY

Aloft Hotel, Routes: G, S, V Courtyard, FCX, S, V Hampton Inn - Carrboro: CW, F, J Residence Inn: CL, D, DX Sheraton Inn, CL, D Quality Inn - Fordam Blvd: CL, D University Inn: D, F

Carolina Inn- within walking distance

Hampton Inn- Farrington Rd.- Shuttle from the hotel will be provided Holiday Inn Express - Farrington Rd.- Shuttle from the hotel will be provided Bus services to these two hotels from Chapel Hill is available on the GoTriangle Transit 805 bus, stopping at Falconbridge Road.

Internet Access

There is free internet access throughout the Friday Center and at the campus venues.

If you are affiliated with UNC (student, faculty or student) or come from another institution that also uses the service, you can use Eduroam.

Otherwise, you can use UNC-Guest-PSK in Manning Hall (passwords to be provided upon request) and guest access to UNC-Guest in the other campus locations.

The UNC-Guest wireless SSID provides web, email and VPN access to off-campus destinations and web only access to on-campus hosts. Choose the SSID UNC-Guest, then open your web browser to any URL. You will be redirected to the guest Terms and Conditions page. Once you accept those terms, your web browser will then go directly to your originally specified destination.