

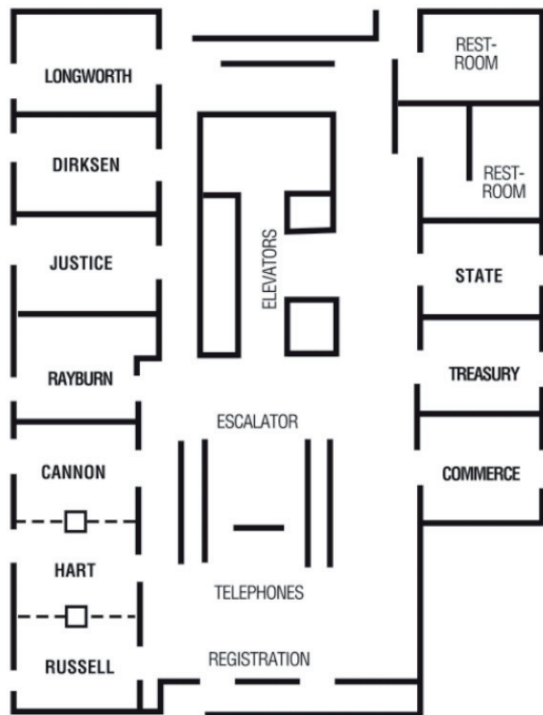
Coalition for Networked Information FALL 2024 SCHEDULE

Membership Meeting
JW Marriott Washington, DC
December 9-10, 2024

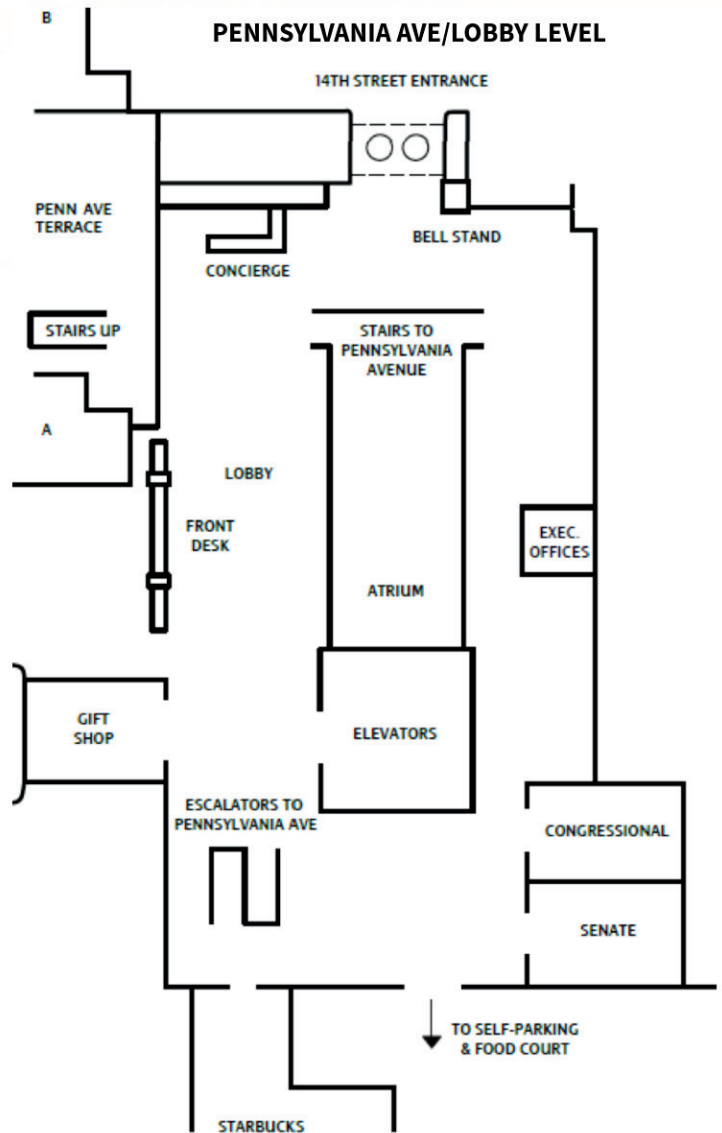


JW MARRIOTT WASHINGTON, DC

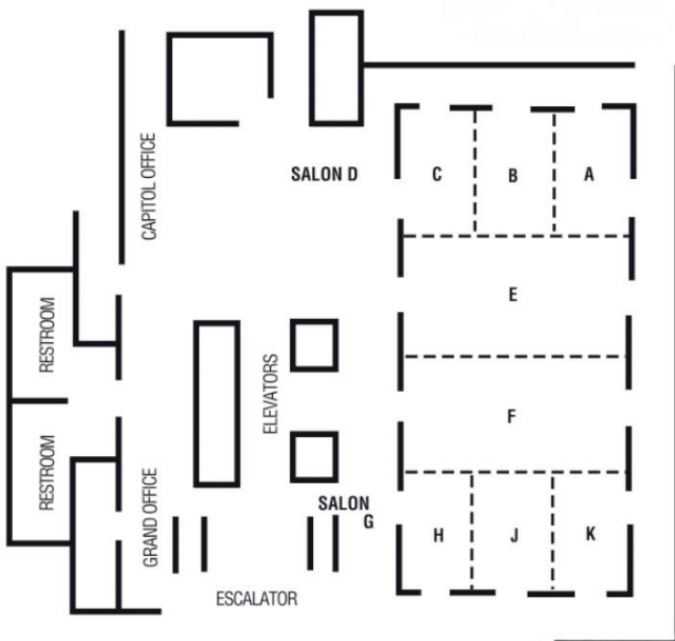
MEETING ROOM LEVEL



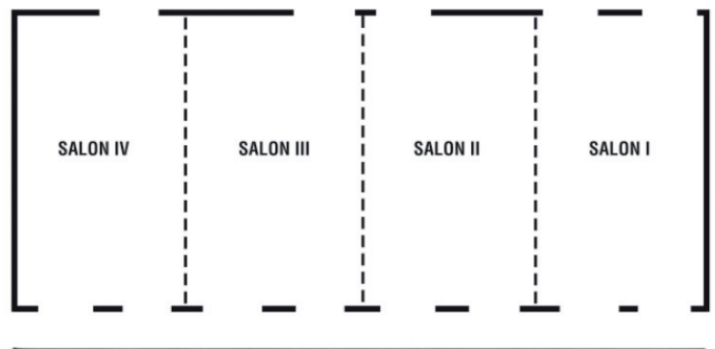
PENNSYLVANIA AVE/LOBBY LEVEL



BALLROOM LEVEL



BALLROOM LEVEL





Coalition for Networked Information

Coalition for Networked Information Fall 2024 Membership Meeting

December 9–10, 2024

Washington, DC

Network: JWMarriott_CONFERENCE
Wi-Fi Passcode: CNIfall24mtg

For the most up-to-date information visit the digital,
mobile-friendly schedule:

<https://cnifall2024mtg.sched.com/>

CNI Code of Conduct

CNI is committed to maintaining a welcoming and inclusive environment for inquiry, constructive disagreement, and intellectual freedom and honesty. We do not tolerate personal attacks, harassment of any kind, violence, or disruptive behavior. Please be respectful of our community's diversity and generous of others' views. Please bring concerns to our attention by contacting a member of the CNI staff.

<https://www.cni.org/>

CNI Fall 2024 Schedule-at-a-Glance

MONDAY, DECEMBER 9

10:30am **Registration Opens** (*Grand Foyer*)

11:00am **First-time Attendees** (*Salons D&E*)

11:45am **Refreshment Break** (*Grand Foyer*)

12:30pm **Opening Plenary: Update on Leadership Transition (Andrew K. Pace) and Survey of Developments, Trends, and Prospects (Clifford Lynch)** (*Salons I & II*)

2:00pm **Refreshment Break** (*Grand Foyer*)

2:30pm **PROJECT BRIEFINGS**

- | | |
|--|--------------------------|
| 1.1 AI at Yale: Updates on Institutional & Library Generative AI Initiatives | <i>Salons I & II</i> |
| 1.2 Research Libraries as Hubs for Citizen Science | <i>Salons D&E</i> |
| 1.3 "Each Row is a Person:" Preserving History & Humanity in Archival Data | <i>Salons F&G</i> |

3:00pm **Passing Break**

3:10pm **PROJECT BRIEFINGS**

- | | |
|---|--------------------------|
| 2.1 The BIG Collection & Operationalizing a New Paradigm | <i>Salons I & II</i> |
| 2.2 Supporting Computational Research (and More!) Through Licensing: An A-Z Licensing Guidebook for Libraries | <i>Salons D&E</i> |
| 2.3 Navigating the Future of Online Learning: Strategic Insights for Libraries | <i>Salons F&G</i> |

3:40pm **Refreshment Break** (*Grand Foyer*)

4:10pm **PROJECT BRIEFINGS**

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|---|--------------------------|
| 3.1 Library Collections and Academic Publications as AI Training Data | <i>Salons I & II</i> |
| 3.2 Update from Funders: Priorities and Trends | <i>Salons D&E</i> |
| 3.3 AI in Libraries: Opportunities and Challenges | <i>Salons F&G</i> |

MONDAY, DECEMBER 9 Continued

5:10pm

Passing Break

5:25pm

Lightning Round (*Salons I & II*)

6:15-
7:30pm

Reception (*Salons III & IV*)

TUESDAY, DECEMBER 10

7:30am

Breakfast (including optional discussion tables) (*Salons III & IV*)

8:45am

PROJECT BRIEFINGS

4.1 Reimagining Discovery: Transforming Access to Collections with AI-Driven Exploration	<i>Salons I & II</i>
4.2 Open Forum for Artificial Intelligence (OFAI)	<i>Salons D&E</i>
4.3 The Future of RightsStatements.org: An Update and Community Discussion	<i>Salons F&G</i>

9:15am

Passing Break

9:25am

PROJECT BRIEFINGS

5.1 AI Modeling & Inference as a Service	<i>Salons I & II</i>
5.2 Personal & Collaborative Knowledge Management Systems: Infrastructure for Idea Management and Research Development	<i>Salons D&E</i>
5.3 Information Infrastructure to Address Societal Grand Challenges Project Update	<i>Salons F&G</i>

9:55am

Refreshment Break (*Grand Foyer*)

10:25am

PROJECT BRIEFINGS

6.1 AI and Information Retrieval: The Year in Review	<i>Salons I & II</i>
6.2 Discover & Analyze: Building Licensed Data Collections at University of California, Berkeley with Dataverse	<i>Salons D&E</i>
6.3 Born-Digital Poetry: Planning for the Future of Literary Archives	<i>Salons F&G</i>

10:55am

Passing Break

TUESDAY, DECEMBER 10 Continued

11:05am

PROJECT BRIEFINGS

- | | |
|---|--------------------------|
| 7.1 Improving Open Access Discovery for Academic Library Users: A Conversation with Library Leaders | <i>Salons I & II</i> |
| 7.2 Report and Recommendations from the ACLS Commission on Fostering and Sustaining Diverse Digital Scholarship | <i>Salons D&E</i> |

11:50am

Lunch (*Salons III & IV*)

1:00pm

PROJECT BRIEFINGS

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|---|-----------------------|
| 8.1 Generative AI Innovation for Libraries and Learning | <i>Salons D&E</i> |
| 8.2 Three Levels of Academic Open Source Support Structures | <i>Salons F&G</i> |

2:00pm

Passing Break

2:15pm

**Closing Plenary: Paul Evan Peters Award & Memorial Lecture
Tony Hey, "The Fourth Paradigm, Open Science and AI"**
(*Salons I & II*)

3:30pm

Meeting Adjourns

CNI Fall 2024 Membership Meeting

Opening, Lightning Round, Breakfast Discussions, Closing

MONDAY, DECEMBER 9

12:30–2:00 pm
Salons I & II

Opening Plenary: Update on Leadership Transition and Survey of Developments, Trends, and Prospects

Clifford Lynch, Executive Director, Coalition for Networked Information
Andrew K. Pace, Executive Director, Association of Research Libraries

This extended opening plenary will include an update and discussion of the CNI leadership transition that is underway, as well as the customary survey of key developments. In order to accommodate this, the plenary will start a little early, at 12:30pm, rather than the usual 1:00pm.

- Welcome
- Update on CNI leadership transition, including results and discussion of a recent survey of the CNI membership, led by Andrew K. Pace.
- The traditional December plenary by Clifford Lynch offering a survey of recent key developments, trends, and prospects in the networked information and research landscapes. This year the focus will be on longer-term trends and speculations, as well as shorter-term developments. He will then discuss the evolution of CNI's programs, strategies, and plans for the future and talk briefly about initiatives for the program year 2024-2025. There will be time for questions and discussion.

5:25–6:15 pm
Salons I & II

Lightning Round

Testing and Evaluation of AI-Driven Search and AI-Assisted Description at the National Archives, *Jill Reilly, National Archives and Records Administration*

University-Based Publishing Futures, *Peter Berkery, Association of University Presses*

Connecting the Dots to Overcome Access Using Open Publication Distribution System (OPDS), *James English, Lyrasis*

Advancing the Open Ebook Ecosystem, *Robert Cartolano, Columbia University*

An Update from Project Lend: Unlocking the Potential for Digital Books in Higher Education, *Rice Majors, University of California, Davis*

A Tool for Assessing the Preservability of Complex Digital Publications, *Jonathan Greenberg, New York University*

Preserving Preprints for the Long Term: Scope and Challenges, *Thib Guicherd-Callin, Stanford University*

A Vision for an Artificial Intelligence-Savvy Library Community, *Vessela Ensberg, University of California, Davis*

The American Institute of Physics Research Strategy: Cultivating Positive Change in the Physical Sciences, *Trevor Owens, American Institute of Physics*

Links to full presentation descriptions are available from:
<https://cnifall2024mtg.sched.com/event/1rac7>

7:30–8:45 am
Salons III & IV

Breakfast Discussion Tables

Optional discussion tables during breakfast. No signup; participation is first come.

Artificial Intelligence in Libraries, *Debra Hanken Kurtz (Florida State University), Eoviva Weinraub Lajoie (University at Buffalo), Rosalyn Metz (Emory University)*

Computational Research & Licensing, *Katherine Klosek (Association of Research Libraries), Rachael Samberg (University of California, Berkeley), Katie Zimmerman (Massachusetts Institute of Technology)*

DMP Services for Researchers, *Caroline Hyslop (University of Ottawa)*

Developments in Scholarly Publishing, *Robert Cartolano (Columbia University)*

Emerging Cybersecurity Threats & Priorities

Establishing Campus AI Working Groups, *Joe Mocnik (Kansas State University)*

Fedora Users, *Kate Dohe and Scott Prater (Fedora Governance Chairs)*

Future of Online Learning, *Glenda Morgan (Phil Hill & Associates)*

How Can Research Libraries Engage Society? *Darlene Cavalier (Arizona State University), Thomas Kaarsted (University of Southern Denmark), Anne Kathrine Overgaard (University of Southern Denmark)*

Improving Open Access Discovery for Academic Library Users, *Ixchel Faniel (OCLC), Harriett Green (University of Arizona)*

Open Data for Research Intelligence (Barcelona Declaration/OpenAlex), *Wolfram Horstmann (Leibniz Institute for Information Infrastructure)*

Preprints Preservation, *Snowden Becker (LOCKSS)*

Project Management in Academic Libraries, *Erik Mitchell (University of California, San Diego) and Melissa Skinnell (Brown University)*

Research Library-Based AI Service Teams, *Nicholas Taylor (Los Alamos National Laboratory)*

Supporting Disruptive Scholarship, *Emily Bonney (California State University, Fullerton)*

More topics/facilitators may be added; see the online schedule for a complete list:
<https://cnifall2024mtg.sched.com/event/1ract>

2:15–3:30 pm
Salons I & II

Closing Plenary: Paul Evan Peters Award & Memorial Lecture Tony Hey, “The Fourth Paradigm, Open Science and Artificial Intelligence”

The talk will begin with a discussion of the Fourth Paradigm of data-intensive science that was first explicitly recognized by Turing Award winner Jim Gray. However, besides Gray’s work with Alex Szalay on the ground-breaking Sloan Digital Sky Survey (SDSS), he also collaborated with the National Center for Biotechnology Information on the National Institute of Health’s open access repository PubMed Central. The talk will look at recent developments in data-intensive science and open science, defined here as open access publications linked to the relevant datasets. The third topic will be concerned with the impact new artificial intelligence (AI) technologies will have on science. It is notable that the 2024 Nobel Prizes for both physics and chemistry were concerned with the discovery and application of AI technologies based on deep neural networks. Google DeepMind’s AlphaFold AI system can now rapidly and accurately predict the 3D structure of proteins and this promises to be truly transformative for many areas of biological science including drug design. The talk will conclude with a discussion of recent work by the five US hyperscaler companies—Amazon, Apple, Google, Meta, and Microsoft—on foundation models based on large language models. This new AI technology now promises further exciting applications to science.

CNI Fall 2024 Membership Meeting

PROJECT BRIEFINGS

MONDAY, DECEMBER 9

2:30–3:00 pm
Salons I & II

1.1 Artificial Intelligence (AI) at Yale: Updates on Institutional and Library Generative AI Initiatives

Lauren Di Monte, Dale Hendrickson, and Michael Appleby (Yale University)

Yale University has recently committed over \$150M to advancing engagement with artificial intelligence (AI). This session will review the AI systems and governance structures that the university has implemented to enhance research infrastructure and build expertise in support of research and education. It will also discuss the library's role in this initiative, which includes on-ramping students and instructors to AI to enable research and educational innovation, providing support and AI-powered tools to improve access to collections, and empowering communities to explore new research possibilities. The session will end with a demonstration of a generative AI application, newly developed by the library, that allows researchers to analyze text contained in digitized materials using a choice of large language models (LLMs). This tool facilitates teaching and learning with digitized special collections and at the same time encourages students to critically evaluate the output of LLMs in a research context.

2:30–3:00 pm
Salons D&E

1.2 Research Libraries as Hubs for Citizen Science

Darlene Cavalier (Arizona State University and Scistarter.org), Anne Kathrine Overgaard (University of Southern Denmark), Thomas Kaarsted (University of Southern Denmark, Citizen Science Knowledge Center)

Citizen science has emerged as a bridge between universities and society with the potential of empowering citizens, producing co-created knowledge, and solving global wicked problems. At the same time citizen science has spread from natural science to all areas of research. Public libraries are along for the ride but so far research libraries in the United States have not embraced the potential.

Based on experiences from Scistarter.org and the University of Southern Denmark, as well as research from within European research libraries, the session outlines the possibilities of research libraries as the key link to building support services and laying the groundwork for societal impact.

Scistarter.org has been a long-time hub for citizen science with free and open digital tools available to libraries. In Europe, research libraries are establishing hubs or support services and seem uniquely equipped to run these services. The Citizen Science Knowledge Center, based in the library at the University of Southern Denmark, has run more than 35 projects as the mediator between researchers and the public.

<https://scistarter.org/>
<https://www.sdu.dk/en/cs>

2:30–3:00 pm
Salons F&G

1.3 "Each Row is a Person:" Preserving History and Humanity in Archival Data

Lydia Neuroth and Sonya Coleman (Library of Virginia)

The Library of Virginia (LVA) has expanded its crowdsourcing program by asking volunteers to index specific information from archival records into spreadsheets or

forms, which are then made available on the Virginia Open Data portal as datasets. Virginia Untold: the African American Narrative, a digital project providing access of records of enslaved and free Black people in LVA's collections, has been a focus for crowdsourced transcription, utilizing both full text and indexing approaches. While indexing supports discoverability, offering exported "data" has presented new challenges, principally around recognizing the humanity of marginalized people, both free and enslaved. What is our responsibility in creating and presenting datasets that are isolated from their primary source context? How do we ensure that the individuals represented in the datasets are not stripped of their humanity when represented as numbers? By thoughtfully engaging with volunteers and community members during transcribe-a-thons, we uncover the humanity within historical records as well as the data we create from them. Leveraging recent developments in generative artificial intelligence (AI), staff created a hands-on workshop for participants to experiment with AI image-generating tools using descriptions from historic documents including records digitized through the Virginia Untold project. LVA staff continue to look for ways to humanize data by working with scholars, genealogists, digital humanists, and educators to tell stories from our collections.

https://lva.primo.exlibrisgroup.com/discovery/search?vid=01LVA_INST:VU

<https://fromthepage.com/lva>

<https://uncommonwealth.viriniamemory.com/blog/2024/06/17/ai-ancestors/>

<https://data.virginia.gov/>

3:10–3:40 pm
Salons I & II

2.1 The BIG Collection and Operationalizing a New Paradigm: Insights and Learnings on Tooling the Shift Toward an Interdependent, Fully Networked, Distributed Future

Maurice York and Karla Strieb (Big Ten Academic Alliance)

The Big Ten Academic Alliance libraries have made meaningful progress working collectively to lay the foundation for bringing a tremendous vision into tangible reality: uniting their individual collections into a functional single collection-jointly managed and fully integrated. The BIG Collection comprehends a collection of resources, both print and digital. It is also a collection of technologies, infrastructures, people, and expertise. It is less a "destination" than a way of being, and a way of operating with increasing interdependence—a paradigm shift from being separate owners and actors who share with each other to being joint stewards of a single, distinctive collection that stretches geographically from coast to coast and (in the print realm) includes more than a quarter of the published titles in North America. The Alliance needs new systems at scale to enable this shift, accompanied by new agreements, new policies, new ways of understanding, as well as new ways of perceiving and analyzing services and collections—all rooted in the fundamental principles of equity and justice. The session will characterize the overarching nature of the strategy for advancing this paradigm shift and, by looking at the use cases of shared print and open publishing, dive deeper into some of the specifics of systems, scale, data, and collaborative work that accompany it.

<https://btaa.org/library/who-we-are/vision>

3:10–3:40 pm
Salons D&E

2.2 Supporting Computational Research (and More!) Through Licensing: An A-Z Licensing Guidebook for Libraries

Katherine Klosek (Moderator) (Association of Research Libraries), Katie Zimmerman (Massachusetts Institute of Technology), Rachael Samberg (University of California, Berkeley)

The US Copyright Act includes special rights for libraries and the scholarly activities they facilitate, e.g., research. Scholars rely on these rights to conduct inquiries using computational research methodologies like text and data mining and the use of

trained algorithms. However, publishers sometimes curtail scholars' rights through the electronic resource license agreements that libraries sign. A forthcoming open ebook by five law and licensing experts from institutions across the US—*E-resource Licensing Explained* to be published by the Association of Research Libraries—will empower academic librarians and library staff with licensing responsibilities to advocate for license terms that enable computational research. The guidebook includes easily digestible legal explanations and pragmatic strategies for preserving rights that users already have under US copyright law, particularly in the face of restrictive license terms that would otherwise constrain or eliminate those rights. The briefing will include a discussion with some of the guidebook's co-authors, who will share their own insights, challenges, and successes in negotiating for license agreements that facilitate computational research, and the panel will provide an update on the guidebook's publication.

3:10–3:40 pm
Salons F&G

2.3 Navigating the Future of Online Learning: Strategic Insights for Libraries

Glenda Morgan (Phil Hill & Associates)

The session will cover the rapidly changing landscape of online learning in higher education and explore how libraries are engaging with and supporting online learners, highlighting innovative practices from institutions across the country. Additionally, it will address the shifting regulatory framework surrounding online education in the US, including the implications for libraries and strategic recommendations for how librarians can respond. It will examine the key drivers reshaping online learning, providing librarians with the insights necessary to stay ahead of emerging trends.

<https://onedtech.philhillaa.com/>

4:10–5:10 pm
Salons I & II

3.1 Library Collections and Academic Publications as Artificial Intelligence Training Data

Dan Cohen (Northeastern University), Mike Furlough (HathiTrust), David Hansen (Authors Alliance), Claire Stewart (University of Illinois Urbana-Champaign), Günter Waibel (University of California Office of the President), Suzanne Wones (University of California, Berkeley)

What principles should guide libraries as they consider allowing or limiting access to their collections for artificial intelligence (AI) training? US research libraries collectively hold one of the world's most comprehensive, sophisticated, and structured reflections of human thinking. In addition, research libraries steward the research output of the university, and support and advise their authors on their publishing choices. This published literature and these library collections are incredibly valuable for the development and deployment of AI. The opportunity to advance research and learning through AI is great but comes with significant risks. This panel will discuss balancing legal, technical, logistical, and mission-oriented challenges and opportunities and will explore what principles should guide decision-making for AI use of the universities' scholarly content.

4:10–5:10 pm
Salons D&E

3.2 Update from Funders: Priorities and Trends

Katherine Klosek (Moderator) (ARL), Brett Bobley (NEH), Sharon Burney (CLIR), Robert Hanish (NIST), Darrell Meadows (NHPRC), Ashley Sands (IMLS), Plato Smith (NSF)

Representatives of major funding organizations will discuss their priorities and opportunities with the CNI community. There will be ample opportunity for audience questions and discussion.

4:10–5:10 pm
Salons F&G

3.3 Artificial Intelligence in Libraries: Opportunities and Challenges

Rosalyn Metz (Moderator) (Emory University), Todd Grappone (University of California, Los Angeles), Annie Johnson (University of Delaware), Debra Hanken Kurtz (Florida State University), Eoviva Weinraub Lajoie (University at Buffalo), Tim Shearer (University North Carolina Chapel Hill)

The panel will explore the multifaceted challenges and opportunities of integrating artificial intelligence (AI) technologies into library services. Panelists will discuss strategic approaches for implementing AI, focusing on the role of campus-wide collaborations, AI and data literacy, and aligning initiatives with institutional values. The conversation will address critical ethical challenges, including data ownership, vendor relationships, and the equitable use of AI tools. Practical applications such as AI-based metadata extraction and chatbots will be highlighted alongside the strategies used to engage staff and mitigate concerns around AI adoption. The discussion will also consider sustainability, governance, and the development of institutional policies that ensure responsible AI use in libraries.

8:45–9:15 am
Salons I & II

4.1 Reimagining Discovery: Transforming Access to Collections with Artificial Intelligence-Driven Exploration

Carolyn Caizzi, Amy Deschenes, and Stu Snyderman (Harvard University)

In the spring of 2024, the Harvard University Library launched the Reimagining Discovery project, an ambitious initiative aimed at uncovering new ways to surface and enable discovery of Harvard's vast and distinctive special collections. The first phase focuses on developing a platform called Collections Explorer, which leverages semantic search and generative artificial intelligence (AI) technologies to allow users to explore Harvard's collections through natural language queries. Collections Explorer aims to make these collections accessible to both the Harvard community and researchers worldwide. In addition to highlighting Harvard's collections, the project seeks to experiment with new search modalities, challenging conventional thinking about library discovery. This collaborative effort between the Library and Harvard University IT builds upon the success of the "Talk with HOLLIS" pilot, which enabled conversational search of the Harvard library catalog. The presentation will highlight key milestones, including collaboration with Mozilla.ai to shape a user-centered strategy, lessons learned from implementing semantic search, and insights from initial usability testing. Additionally, the presentation will include discussion about the project goals for building and sharing open-source components and open methods with the broader cultural heritage community, and it will include a demo of Collections Explorer.

<https://staff.library.harvard.edu/reimagining-discovery>

8:45–9:15 am
Salons D&E

4.2 Open Forum for Artificial Intelligence (OFAI)

Sayed Choudhury (Carnegie Mellon University)

The Open Forum for Artificial Intelligence (OFAI) is a Carnegie Mellon University (CMU) led partnership that will bend the arc toward human-centered, responsible, and ethical AI. Funded by CMU library reserve funds, Omidyar Network, and NobleReach Foundation, OFAI includes university partners from George Washington University, Georgia Institute of Technology, and the University of Texas at Austin. Additional non-profit partners include the Open Source Initiative, Creative Commons, and the Atlantic Council. OFAI also includes individual fellows from Microsoft, GitHub, Cerebras, BGV venture capital, and the US Navy. The presentation will outline OFAI's charter, position paper, and road map, which build upon the open source AI definition, and include demonstrations of OFAI's initial AI prototypes.

<https://www.cmu.edu/engin/programs/ofai.html>

8:45–9:15 am
Salons F&G

4.3 The Future of RightsStatements.org: An Update and Community Discussion

Emily Gore (University of Georgia), Melissa Levine (University of Michigan), and Maarten Zeinstra (Open Netherlands Association)

RightsStatements.org provides 12 standardized rights statements for online cultural heritage. Launched in 2015 and adopted by cultural heritage aggregators, including Europeana, the Digital Public Library of America, and Trove, along with numerous individual institutions, the statements have been translated into 13 different languages. At the aggregator level alone, over 40 million digital objects have rights statements as a part of their metadata. Designed for and by professionals in the cultural heritage community, its suite of rights statements consistently describes the

legal status of collections in museums, libraries, and archives and makes it easy to see if and how online cultural heritage works can be reused.

Nearly 10 years ago, a governance structure of cultural heritage aggregators was established to oversee RightsStatements.org. The aggregators paid a small membership fee to assist with overhead for running the statements, and volunteer labor largely accounted for the rest of the support and development. However, during the global pandemic in 2020 and in the post-pandemic years, the consortia disbanded. Efforts are underway with an international interim steering group to provide some stability for the RightsStatements.org technical infrastructure and to engage with parties interested in helping steward and grow the Rights Statements community. In the session, three representatives from the interim steering group will give an overview of the widespread implementation and use of the statements, discuss current efforts to stabilize RightsStatements.org, and discuss needs and next steps to find a new organizational home.

<https://rightsstatements.org/en/>

9:25–9:55 am
Salons I & II

5.1 Artificial Intelligence Modeling & Inference as a Service

Peter Leonard (Stanford University)

What can academic libraries offer researchers in a world where everyone uses ChatGPT? The talk explores artificial intelligence (AI) modeling and inference as a service, articulated through hardware (local GPUs), software (open-source models and software), and professional expertise (consulting, design, and implementation). It will detail Stanford University Libraries' new unit devoted to this task, exploring job descriptions, service workflows, and hardware and software infrastructure. It addresses both faculty and graduate student research projects and engagement with large-scale digitized collections of text, image, and audio/video. It also considers adjacencies with subject specialists, library IT, and research computing groups on campus.

9:25–9:55 am
Salons D&E

5.2 Personal and Collaborative Knowledge Management Systems: Infrastructure for Idea Management and Research Development

Brian Mathews (Carnegie Mellon University)

In the fast-paced and increasingly interdisciplinary research landscape, effective knowledge management has become critical to the success of teams. The talk will explore the potential of personal and collaborative knowledge management systems designed to foster idea emergence, identify research gaps, and coordinate tasks across projects. By integrating foundational resources, glossaries, expert networks, and tracking future trends, these open customized systems serve as essential knowledge infrastructure to support the exploration of complex, cross-disciplinary problems. Attendees will gain insights into how these tools can pragmatically accelerate research team collaboration and innovation. The session will feature a live demonstration of a prototype system designed to support both individual researchers and teams in mapping new directions for their work.

<https://www.brianmathews.io/blog/pkm-reimagined-exploring-theme-based-knowledge-systems>

9:25–9:55 am
Salons F&G

5.3 Information Infrastructure to Address Societal Grand Challenges Project Update

Donald Waters (Coalition for Networked Information)

A draft of Waters' project report, "Meeting the Climate Emergency: University Information Infrastructure for Researching Wicked Problems," is available online for review and comment. The session will provide an open forum to discuss the draft report and provide the author comments and suggestions as he prepares to submit the final version in early February.

The report suggests how research libraries, campus computing organizations, and other information experts could help accelerate research to address the growing climate emergency. It begins with a definition of climate change as a complex, "wicked" problem, that requires attention from a broad range of academic and public perspectives. The report goes on to outline how universities are sponsoring specialized climate centers and institutes to bring together researchers from these various perspectives. It then recommends that research librarians and other information specialists adjust their service strategies to focus on these centers and institutes. They should especially consider supporting the information needs of climate researchers in ways that would (a) broaden the disciplinary range, (b) deepen the public engagement, and (c) extend the data analysis capabilities of these centers and institutes.

<https://www.cni.org/events/cni-workshops/senior-scholars-program/information-infrastructure-to-address-societal-grand-challenges>

10:25–10:55 am
Salons I & II

6.1 Artificial Intelligence and Information Retrieval: The Year in Review

Gary Price (infoDOCKET and ARL Day in Review) and Peter Brantley (University of California, Davis)

The world of generative artificial intelligence (AI), large language models, and chatbots is moving at a lightning pace. The presentation will include a year-in-review highlighting key events and issues that have occurred since the last CNI fall meeting and also some thoughts on what may be ahead in 2025.

Topics include:

- Awareness and utilization of small language models
- Growing interest and coverage of AI agents
- Increasing usage of audio and video creation tools and voice-driven prompts and responses
- A look at specific services like Google's NotebookLM
- Thoughts about the market for AI-enhanced services in the library sector

10:25–10:55 am
Salons D&E

6.2 Discover and Analyze: Building Licensed Data Collections at University of California, Berkeley with Dataverse

Anna Sackmann and Lynne Grigsby (University of California, Berkeley)

The University of California (UC), Berkeley Library has been purchasing and licensing data for research, teaching, and learning for years, but managing this data was challenging for the library. Moreover, discovering and finding licensed data for use in teaching, research, and learning was an opaque process for users. To address this problem, the Library developed a local instance of Dataverse. Dataverse was designed and is most frequently used as a repository for researcher-generated data; however, use of the repository at the UC Berkeley Library illustrates how

Dataverse's infrastructure can be leveraged to enable the discovery and access of library licensed and managed data. Dataverse and UC Berkeley's data acquisition process ensures timely ingest of licensed data into the repository for discovery by researchers. The presentation will explain how Dataverse better informs users of each dataset's terms of use and overview the workflows and procedures developed by Library IT and the data services librarian to manage the repository.

<https://datasets.lib.berkeley.edu/>

10:25–10:55 am
Salons F&G

6.3 Born-Digital Poetry: Planning for the Future of Literary Archives

Nadia Ghasedi and Mitch Sumner (Washington University in St. Louis)

The session explores the unique challenges presented by the acquisition, preservation, discoverability, and use of born-digital poetry archives. Washington University (WashU) in St. Louis will share its experience leading the Born-Digital Poetry: Planning for the Future of Literary Archives project funded by the Mellon Foundation's Curation and Stewardship initiative. WashU Libraries is one of many institutions grappling with the challenges of acquiring, processing, serving, and preserving born-digital materials. There is a far-reaching need to look critically at the poet's creative process within the digital context. Born-digital content within literary collections is often set aside as institutions are far better equipped to work with traditional paper-based archives. Furthermore, to dismantle the white supremacy inherent in cultural institutions, there must be a concerted effort to increase representation within collections. To do so, institutions must engage a new generation of poets, the majority of whom are digital natives. To ensure the long-term accessibility of these future collections, institutions must gain a better understanding of how these writers utilize digital technologies in their creative process.

11:05–11:50 am
Salons I & II

7.1 Improving Open Access Discovery for Academic Library Users: A Conversation with Library Leaders

Ixchel Faniel (OCLC), Molly Beisler (University of Nevada, Reno), Harriett Green (University of Arizona), Lisa Janicke Hinchliffe (University of Illinois at Urbana-Champaign)

Policies and funding requirements have accelerated the transition to scholarly, peer-reviewed open access (OA) publications in many countries. Academic and research libraries have been instrumental in the growth of OA publications, but studies show that publishing OA does not necessarily mean that readers will discover those publications. Academic libraries are attempting to assist with this discovery challenge but there has been limited analysis of these efforts. A recently published report, *Improving Open Access Discovery for Academic Library Users*, offers insights into library efforts to facilitate the discovery of OA publications at seven institutions in the Netherlands and users' experiences with scholarly, peer-reviewed publications and OA from these same institutions. Another in-press study looks at this topic in US research libraries. In the session, these findings will serve as a catalyst to engage library leaders in a conversation about their vision for enhancing OA discoverability on their campus and the collaborative efforts underway within and across their institutions. Panelists will reflect on these issues, exploring their experiences and challenges, how they work with publishers and platforms to address discoverability, and the impacts these have on the academic library user experience. Attendees will have the opportunity to share their thoughts and engage in dialogue with the panelists.

oclc.org/oa-discovery-project

11:05–11:50 am
Salons D&E

7.2 Report and Recommendations of the American Council of Learned Societies Commission on Fostering and Sustaining Diverse Digital Scholarship

Marisa Parham (University of Maryland, College Park) and James Shulman (American Council of Learned Societies)

Recovery scholarship often uses digital methods to bring to light histories and literary, artistic, and cultural traditions that have been ignored, forgotten, or pushed to the margins by established educational and cultural institutions. This work requires new modes of engagement, collaboration, publishing, and shared stewardship and access. The 21-member commission has just issued recommendations concerning community-engaged scholarship; research support structures; faculty reward structures; pipelines; cross-pollinating networks; gaps in scholarly communication; and trans-institutional support structures.

<https://www.acls.org/digital-commission-sustaining-diverse-scholarship/>

1:00–2:00 pm
Salons D&E

8.1 Generative Artificial Intelligence Innovation for Libraries and Learning

Greg Ritter (Amazon Web Services), Sarah Ben Mamar (Weill Cornell Medicine), Cory Tressler (Ohio State University), Joe Naccarato (University of Delaware)

The panel showcases three collaborations between universities and Amazon Web Services (AWS) to apply generative artificial intelligence (AI) to 1) create new pathways for scholarship around historical medical case records; 2) remediate accessibility of libraries' digital assets quickly and inexpensively; and 3) automatically generate knowledge graphs and learning support materials from faculty lecture capture recordings. Weill Cornell Medicine Samuel J. Wood Library developed an approach for handwritten text recognition and optical character recognition through a multi-modal generative AI model to extract data from over 200 years of historical hospital case records. The project aims to map the extracted content to modern medical ontologies, unlocking new research possibilities for medical researchers and historians. The Ohio State University Libraries' solution quickly and cost-effectively remediates PDF documents to meet federal accessibility requirements for public institutions. The solution uses Adobe Accessibility APIs and a multi-modal generative AI foundation model to generate alternative text descriptions for images, charts, and other visual elements, ensuring PDF content meets WCAG 2.1 AA standards. The University of Delaware (UD) Academic Technology Services built a generative AI teaching assistant, Study AiDE, based on lecture capture recordings from UD courses. The AI built a knowledge graph which was reviewed by faculty and then used by the Study AiDE virtual assistant to dynamically provide students with lecture support materials such as flash cards, practice quizzes, etc. based on lecture content. Each of these projects was executed in collaboration with AWS innovation programs that support universities with no-cost resources to prototype innovative projects.

1:00–2:00 pm
Salons F&G

8.2 Three Levels of Academic Open Source Support Structures

Bill Branan (Johns Hopkins University), Amber Budden (University of California, Santa Barbara), Vessela Ensberg (University of California, Davis), Todd Grappone (University of California, Los Angeles), and David Lippert (George Washington University)

Open source software (OSS) is an increasingly important component of the research enterprise, as evidenced by the growing prevalence of funder policies that require source code created as part of research initiatives to be made publicly available alongside manuscripts and data. Some activities that support OSS projects benefit

from an academic Open Source Program Office (OSPO) that is able to take campus-specific actions, while others can be achieved more effectively by leveraging a network. The panel will discuss three levels of OSPO collaboration initiatives: campus-, system-, and international-level, and the activities that arise from each approach. The campuses represented are still experimenting with different models, including position allocation, engagement, governance, and coordination. The panel will review their activities in the education, community, and sustainability areas, and they will highlight that developing an OSPO is not an all-or-none state. Finally, they will solicit community feedback on an academic OSPO definition developed by the Community for University and Research Institution OSPOs (CURIÖSS).

CALENDAR OF KEY MEETINGS

Joint Conference on Digital Libraries, Hong Kong–December 16–20, 2024

International Digital Curation Conference, The Hague, Netherlands–
February 17–19, 2025

CNI 2025 Spring Membership Meeting, Milwaukee, Wisconsin–April 7–8,
2025

Open Repositories, Chicago, Illinois–June 15–18, 2025

IS&T's Archiving 2025, Granada, Spain–June 24–27, 2025

Theory and Practice of Digital Libraries, Tampere, Finland–September 23–
26, 2025

CNI 2025 Fall Membership Meeting, Washington, DC–December 11–12,
2025

Designing Libraries 2025, TBA

For more information about CNI and its programs visit www.cni.org.

IMAGE CREDITS

Front (left to right; top to bottom)

Hubble Captures Infant Stars Transforming a Nebula on June 27, 2024

Credit: ESA/Hubble & NASA, J. Tan (Chal

Courtesy: National Aeronautics and Space Administration

Astronomicum Caesareum, May 1540

Artist: Michael Ostendorfer (German, ca. 1490–1549 Regensburg)

Author: Petrus Apianus (German, active 1526–40), German, 1495–1552

Printer: Georg and Petrus Apianus (German)

Credit: Gift of Herbert N. Straus, 1925

Courtesy: The Metropolitan Museum of Art

Medallion “Landscape with Caterpillars and Butterflies” [reverse], 1624

Artist: Abraham Dupré, French, 1604 - 1647

Credit: Samuel H. Kress Collection

Courtesy: National Gallery of Art

A quantum chip, photographed in the lab at the Quantum Leap Challenge

Institute for Robust Quantum Simulation at the University of Maryland, an NSF

Quantum Leap Challenge Institute

Credit: University of Maryland

Courtesy: US National Science Foundation

Flower illustration from *The Natural History of Carolina, Florida, and the Bahama Islands: Containing the Figures of Birds, Beasts, Fishes, Serpents, Insects, and Plants*

Author: Mark Catesby, 1683-1749

Publication/Creation: London, Printed at the expense of the author, 1731-1743

Credit: University of Maryland

Courtesy: Wellcome Collection

New synaptic transistor with brain-like computing power, 2023

An artist's interpretation of the brain-like computing power behind a new

synaptic transistor developed by researchers. Experiments show the transistor goes beyond simple machine-learning tasks to categorize data and is capable of performing associative learning.

Credit: Xiaodong Yan/Northwestern University

Courtesy: US National Science Foundation

Back:

Carnegie Mellon University Cloud Lab Equipment

Credit: Carnegie Mellon University Cloud Lab

All images were slightly modified for design purposes.

Descriptions are from image sources unless otherwise noted.



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