

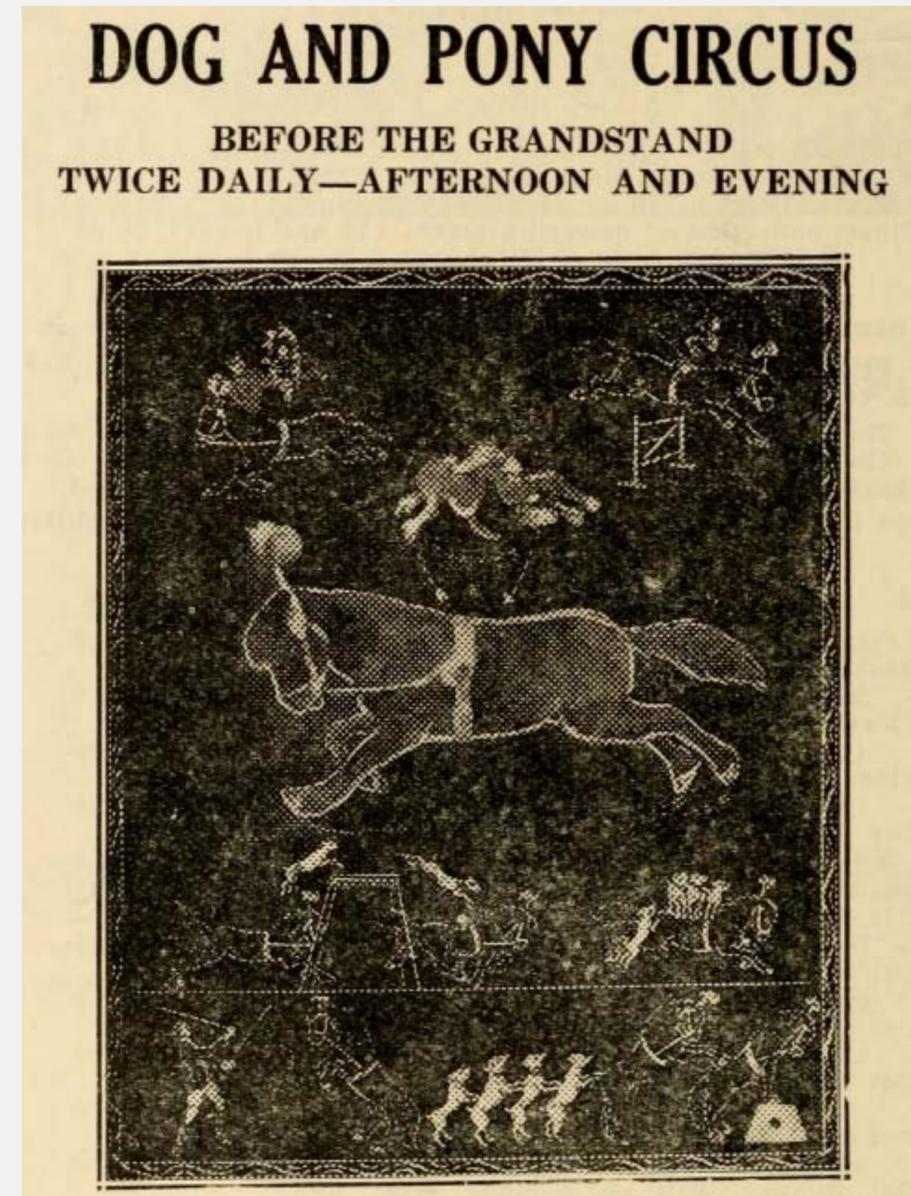


Access to State Government Information Initiative

Statewide Leadership Grant
2010-2011 Cycle

Agenda

- The need for digital preservation
- Staff & partners
- Activities, objectives, & targets
- Budget
- Challenges
- Changes
- Major accomplishments
- Questions



Preserving Legislative Digital Records

Digital Preservation Overview

State legislatures face critical challenges in preserving digital materials. This site provides background information and tools and resources from NCSL and other organizations working to keep legislative digital records trustworthy, complete and accessible over time.

Last update: February 18, 2011

NCSL Resources

NCSL's [Preserving Legislative Digital Records](#) publication explains the challenges of preserving legislative records in a digital age and provides options, advice, and simple, low-cost tools and preservation practices.

Legislatures that are contemplating "Going Paperless" or online-only will find resources to ensure that records remain accessible and authentic.

See a [presentation](#) from NCSL's 2009 Fall Forum, a [podcast](#) of a session at NCSL's 2008 Legislative Summit, [handouts](#) from a session at NCSL's 2010 Legislative Summit, and read more in NCSL's blog, [The Thicket](#).

Collaborative Projects

The [State Electronic Materials Drafting Committee](#) of the **National Conference of Commissioners on Uniform State Laws (NCCUSL)** draft model act aims to provide guidance to states on authenticating and preserving state electronic legal materials.

The **American Association of Law Libraries'** [50-state surveys](#) show a growing number of states are eliminating their print legal publications in favor of online-only without guaranteeing digital authentication or permanent public access.

Collaborative Projects

The **National Digital Information Infrastructure and Preservation Program (NDIIPP)** at the **Library of Congress**, is a collaborative effort to develop a national strategy to collect, preserve and make available significant digital content, especially information that is created in digital form only, for current and future generations. Watch these NDIIPP videos for other perspectives: [Why Digital Preservation is Important to Everyone](#) (3:10), and [Digital Natives Explore Digital Preservation](#) (3:48). The **National Digital Stewardship Alliance (NDSA)**, an outgrowth of NDIIPP, is a collaborative effort among government agencies, educational institutions, non-profit organizations and businesses to preserve a distributed national digital collection.

A **Minnesota Historical Society (MHS)** project, [Model Technological and Social Architecture for the Preservation of State Government Digital Information](#) is a multi-year project that is working with NCSL and legislatures in 10 states to explore methods to provide enhanced online access to legislative materials in digital form.

Listen to "Good Government through Digital Infrastructure and Preservation," an MHS [podcast](#) (5:50), featuring Margaret Anderson Kelliher, Speaker of the Minnesota House of Representatives.

The **Minnesota Revisor's Office** is developing an experimental XML file format for storing legislative materials. The format uses a legislature's existing file formats; no transformations are necessary. The [xmlwrapper](#) format allows organizations to obtain bills and other documents from multiple state legislatures with a small or no increase in resources, and may prove useful for state legislatures and state archives to archive bills.



USEFUL LINKS

- [Library of Congress Digital Preservation Program](#)
- [Minnesota Historical Society Preservation of State Records](#)
- [National Conference of Commissioners on Uniform State Laws State Electronic Legal Materials Committee](#)
- [American Association of Law Libraries Authentic Legal Information in the Digital Age](#)
- [Center for Technology in Government, Collaboration for Preservation of Government Digital Information](#)
- [State Library of North Carolina, Digital Preservation Education Resources for State Employees](#)

NCSL Staff Contact

- Pam Greenberg



ASGII's Ongoing Need

For digital preservation education & management in NC government



The need (1/3)

1. NC Department of Insurance

All publications are digital-only except the *Building Codes*.

2. NC Department of Public Instruction

A major paper publisher for years, DPI is shifting to a digital publishing model. Printing very limited print runs (50-100) on a flexible, as-needed basis, and moving to distributing publications in digital form via its website.

3. NC Department of Secretary of State

Plans to phase out print publishing completely, and move all publications to digital-only distributed via its website.

4. NC Office of the State Auditor

Since 2002, their primary form of publishing has been digital for all reports; for the past seven years, all reports have been published only in digital form.



The need (2/3)

5. North Carolina State University

According to the preliminary results of NCSU's publications assessment, 90% of campus communicators use websites as communications channels; 81% use Facebook; 73% use Twitter.

6. NC Department of Agriculture

They are being encouraged to do more digital-only publishing and web-based distribution.

7. NC Division of Tourism, Film, and Sports Development

Most publishing is digital-only and distributed through the website, with very little paper publishing being done.

8. NC Department of Correction

Reduced printing drastically. Social media for distributing information that does not fit into traditional "publication" categories, including tidbits of information, photographs, etc. Feel they have "evolved" from printed materials to email and digital materials to social media.



The need (3/3)

9. NC Department of Transportation

Publishes a great deal, and almost all publications are available digitally on its website.

10. NC Department of Health and Human Services

Re-designing its website, with part of the new architecture to include a section for the publications of its many divisions. Moving to a digital-only publishing model. Division of Public Health distributes most of its publications via its website, with most publications now in digital form only.

11. NC Office of State Budget and Management

Only prints the Governor's Budget; all other publications are digital only and distributed via the website. This means that many major NC government publications such as the Post-legislative Budget Summaries are now digital-only. Governor's Budget print run reduced by 40 percent. The hope is to reduce the size of the printed budget by one-third.





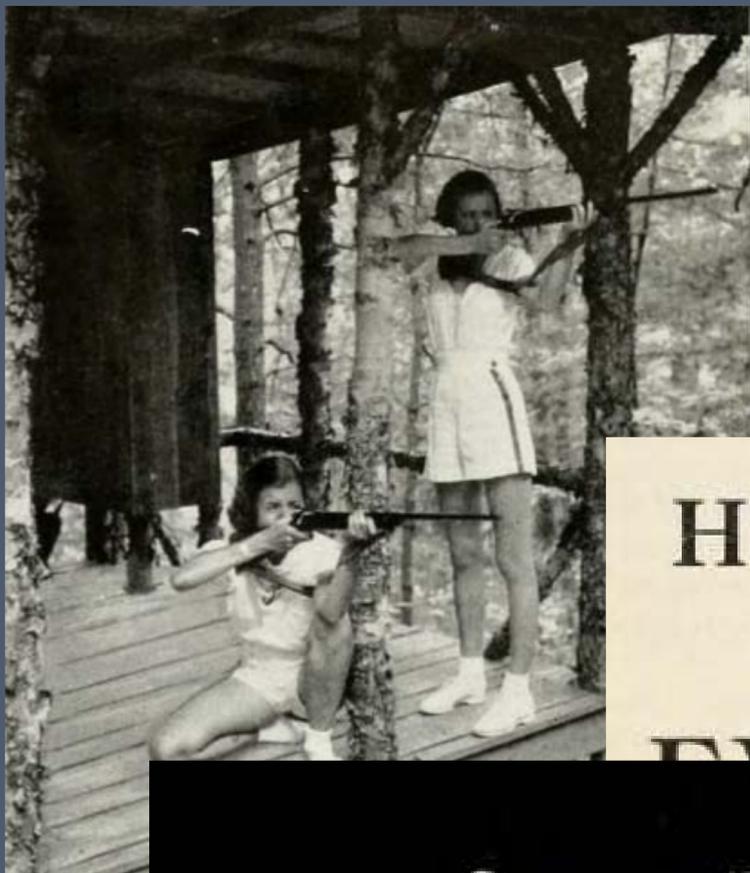
Staff & Partners



Staff

Once upon a time . . .



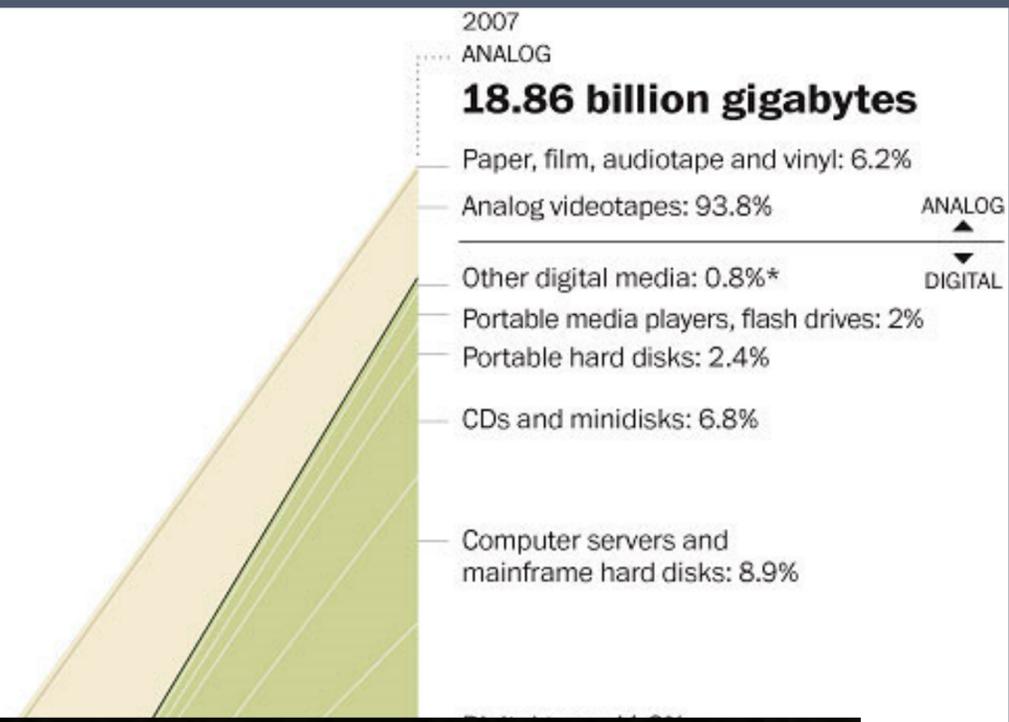


HI

THE WORLD'S CAPACITY TO STORE INFORMATION
 This chart shows the world's growth in storage capacity for both analog data (books, newspapers, videotapes, etc.) and digital (CDs, DVDs, computer hard drives, smartphone drives, etc.)

In gigabytes or estimated equivalent

2000



COMPLEX ELECTRONICS + TRAINABLE WORKERS



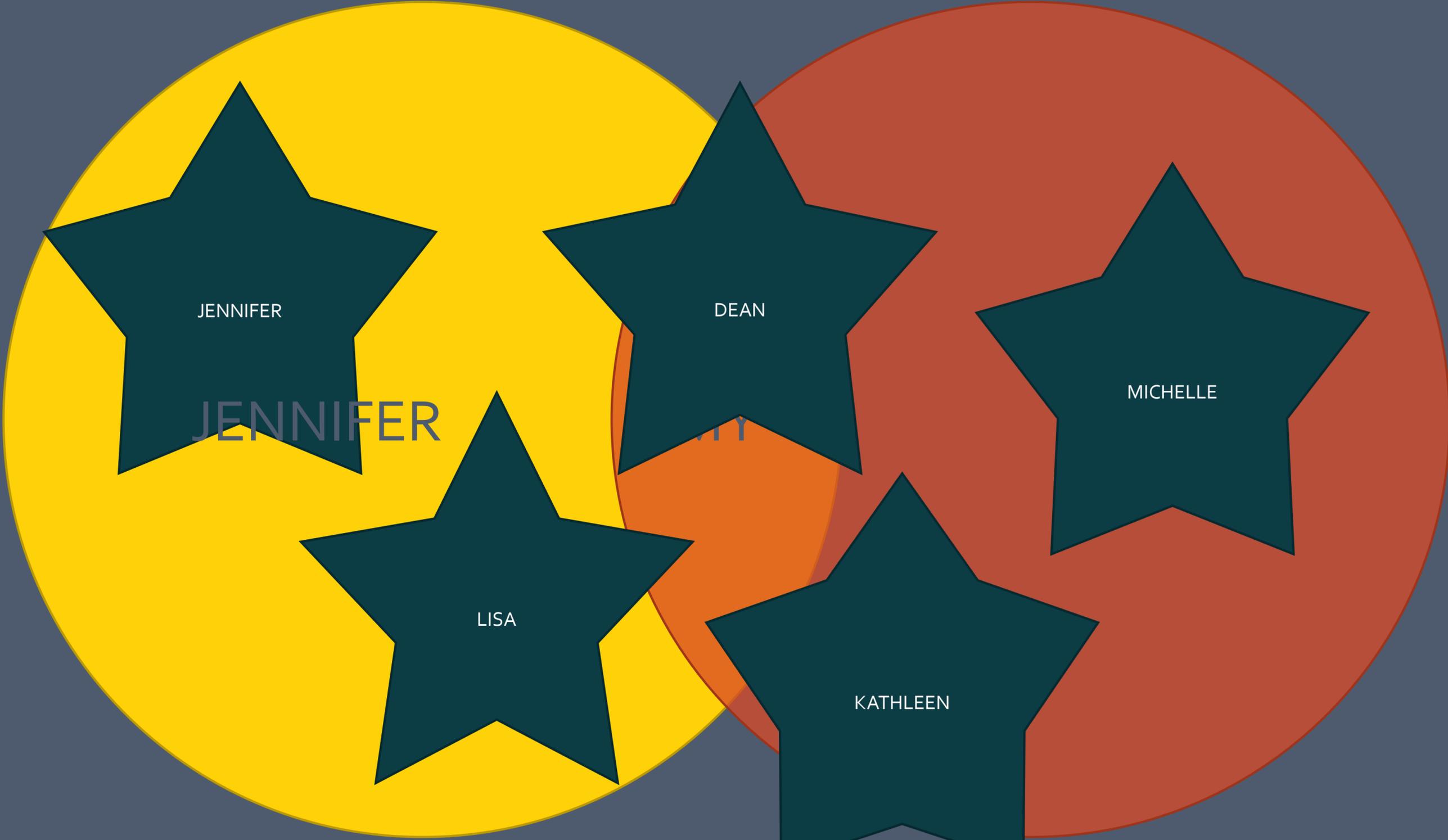
for much

TRIAL OF SPEED.

memory cards, PDAs, video games

2007 DIGITAL

276.12 billion gigabytes



JENNIFER

DEAN

MICHELLE

JENNIFER

DEAN

LISA

KATHLEEN

Digital Preservation

Digital Collections Building





The DIMP team today.



ASGII-funded staff

Kurt Brenneman (RMSB)

- *Agency outreach, communications and education, publication assessments*

Dean Farrell (DIMP)

- *Systems / technology integration*

Lisa Gregory (DIMP)

- *Digital curation, outreach/education, usability, ASGII digitization coordinator*

Kathleen Kenney (DIMP)

- *ASGII scanning, metadata creation, and other duties as assigned 😊*



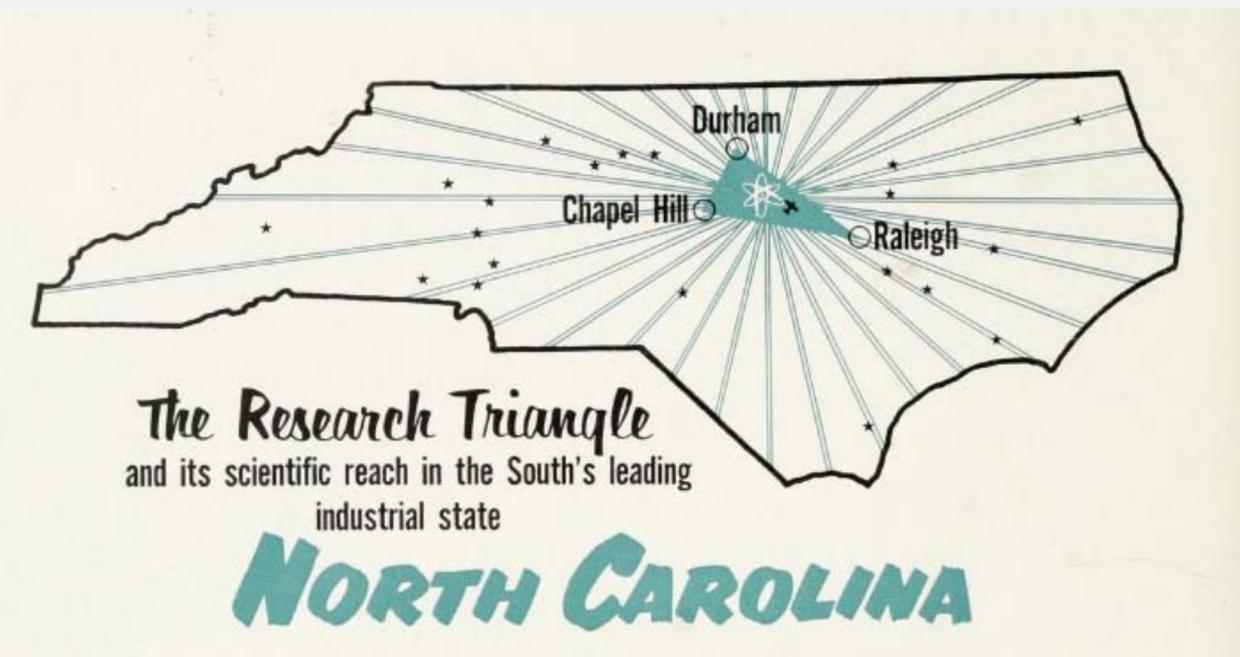
State-funded staff

Brueck, Vicki	(~75 hours)
Czaikowski, Michelle	(~600 hours)
Davison, Jennifer	(~280 hours)
Eubank, Kelly	(~640 hours)
Neville, Eve	(~220 hours)
Ricker, Jennifer	(~1540 hours)
Rudersdorf, Amy	(~600 hours)



Partners

- Carolina Digital Library and Archives
University of North Carolina-Chapel Hill
- Data-Intensive Cyber Environments
(DICE) group at Renaissance Computing
Institute (RENCI), Chapel Hill, NC
- Department of Cultural Resources –
State Archives and Records / IT
- Internet Archive
- OCLC
- School of Information and Library
Science, University of North Carolina at
Chapel Hill
- State Data Center (North Carolina)





Textiles top list of North Carolina industries, but there is great diversity within the industry which ranges from full fashioned hosiery to thread from synthetic fibres. The picture shows a demonstration of boarding in a hosiery plant.

Activities, Objectives, & Targets



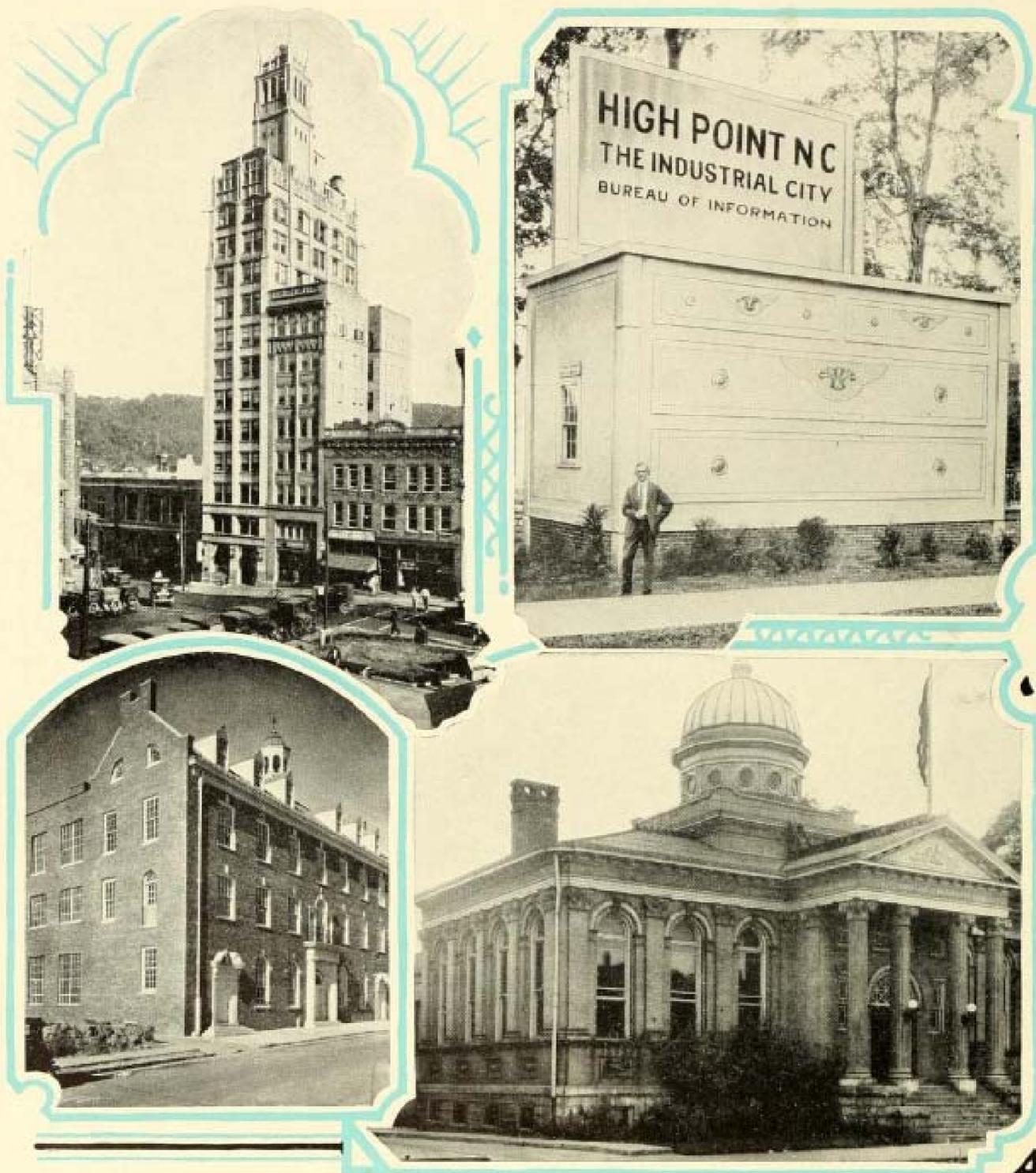
Activities

- Research, development, and testing
- Policy and practice
- Unifying access
- Usability
- Outreach
- ✚ *Education*



Research, development, & testing

NORTH CAROLINA "A Good Place to Live"



Meets grant objective to "continue to improve processes and procedures for incorporating digital state agency publications and accompanying cataloging records into the existing North Carolina State Depository System."



Research, etc. (1/2)

Activities & Process

- ✓ Performed migration testing on selected State Library files in archival storage
- ✓ Provided access to geospatial info. through the CONTENTdm web interface
- ✓ Monitored preservation activities in other countries and presented on our progress towards a preservation solution



Research, etc. (2/2)

Activities & Process (continued)

- ✓ Investigating open-source preservation tools
- ✓ Incorporating customizations into CONTENTdm (such as RSS feeds, tagging, usefulness ratings, maps, dmMonocle viewer, batch processing of web pdfs, etc.)
- + Participated in various beta testing scenarios for CONTENTdm and Archive-It (for new functionality like new releases, social media harvesting, metadata capture, etc.)
- + Historypin



Policy & practice

Meets grant objective to “further the influence of the State Library as a resource for standards and good practice in digital preservation through outreach, workshops, and partnerships.”



No. 19.—Boys at the Midway Dispensary. The boy in the center, Arthur Murray, is 11 years old and is infected with hookworms. The other boys are aged 11 and 9 years, respectively, and are not infected.



Policy & practice (1/4)

Activities & Products

- ✓ Attended State Agency CIO meeting to inform them about digital preservation
- ✓ Grew usage and content of website archives to include social media sites (and redesigned the site based on usability test)
- ✓ Will create and implement outreach and training plan w/ RMSB



Policy & practice (2/4)

Activities & Products (continued)

- ✘ Create guidance for state employees creating websites
 - Focused on general guidance this year
- ✘ Survey state employees to determine if all domains are being captured
 - Have not determined the best way to go about this. Attempted to work through PIOs and leverage contacts at governor's office to no avail. Rethinking.
- ✘ Digital Preservation Plan
 - Project on hold until budget stabilizes



Policy & practice (3/4)

Activities & Products (continued)

- + Metadata guidance document
- + National Digital Stewardship Alliance
- + Invited to participate in access and archive system pilot for Internet Archive (will occur in next grant cycle)
- + Joint storage committee developing standards



Policy & practice (4/4)

Activities & Products (continued)

- + Participated in various beta testing scenarios for CONTENTdm and Archive-It (for new functionality like new releases, social media harvesting, metadata capture, etc.)
- + Publications
 - Statewide metadata guidelines (Rudersdorf - with Governor's Office & Archives)
 - "The 'M' Word: What Works and What Doesn't in File Format Migration" SAA Research Forum (Gregory)
 - "Leveraging Social Networks" in Archival Outlook (Ricker, Rudersdorf)

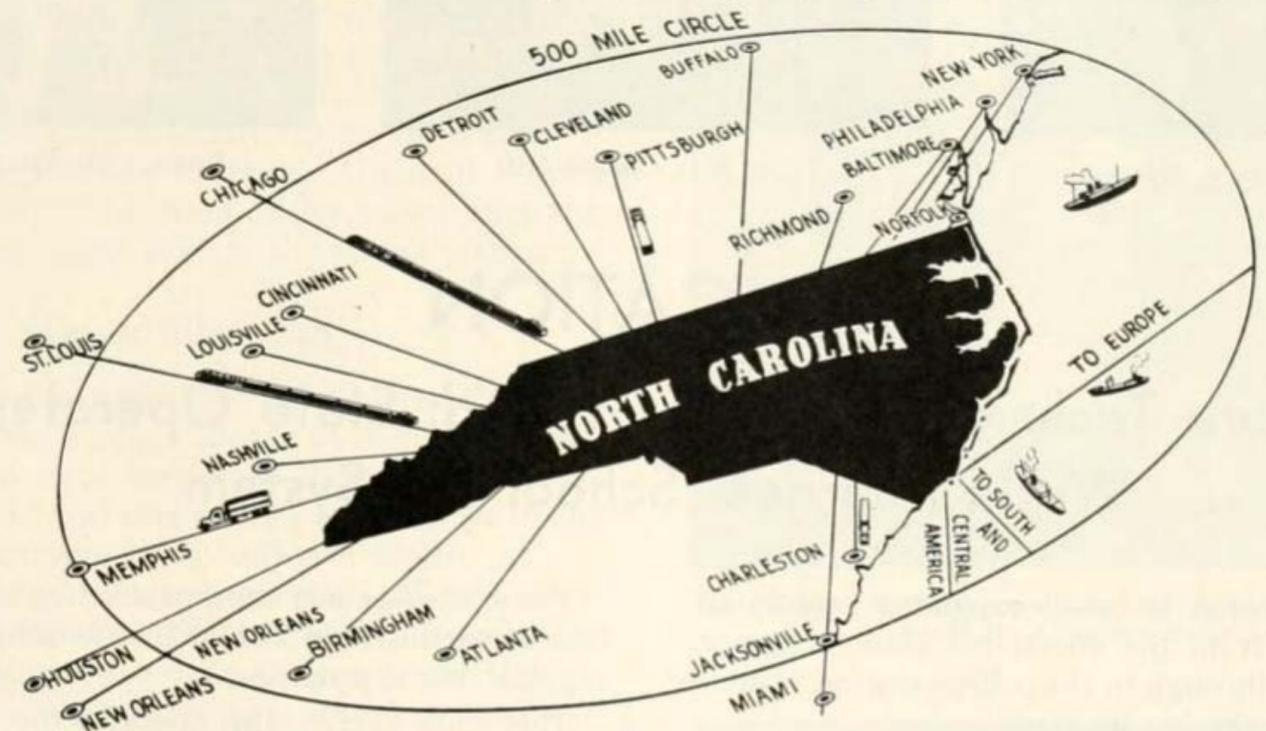


Unifying access

Meets grant objective to “unify collections of state government information from multiple formats to aid in ease of public access.”

ACCESSIBLE *North Carolina*

Within 500 miles of North Carolina is more than half the total population of the United States—representing a multi-billion dollar market for the products of the State’s varied industries. Traffic out of and into that area profits by North Carolina’s easy accessibility at all seasons by highway, rail, water and air.



A highway system of more than 70,000 miles serves you in North Carolina . . . plus 5 major trunk line railroads . . . 6 commercial air lines . . . 130 regulated motor passenger carriers . . . 454 franchised highway freight and express carriers . . . two ocean ports with the latest-type equipment . . . the Intracoastal Waterway along the 320-mile coastline . . . and navigable rivers.



Unifying access (1/3)

Activities & Products

- ✓ Ongoing identification of print publications of greatest value to constituents through Agency Outreach Librarian
 - State Center for Health Statistics 2010-2011 priority
- ✓ Ongoing preparation of documents and digitization through partnership with Carolina Digital Library and Archives at UNC-CH
 - 345 titles, over 20,000 pages completed so far this year



Unifying access (2/3)

Activities & Products (continued)

- ✓ Used ASGII equipment purchases (sheet-fed scanner and transparency adapter) to digitize Library History, Public Health and State Fair items on site
- ✓ Completed next phase of NC MOSAIC (including State Agencies and Boards), as well as ongoing upkeep (wasn't this finished before July 2010?)
- ✓ Completed pilot partnership with State Archives to use CONTENTdm as access point for their digital collections



Unifying access (3/3)

Activities & Products (continued)

- + North Carolina Digital Collections – jointly developed single access point to SLNC & State Archives' digital collections
- + Additional 172 titles (28,000 pages) to be digitized this year, focusing on education, directories
- + Cooperation with Agency for Public Telecommunications (DOA) to take in and make available 10 digital videos.



Usability & interface evaluation

Meets grant objective to “improve existing public-facing technologies through usability evaluation.”



North Carolina State Government Web Site Archives
North Carolina State Archives State Library of North Carolina

Search the Web Archives

[Search Help](#)

Welcome!

Links

- Home
- About Us
- Browse by Agency
- Browse by Collection
- Site Map
- Help
- Contact

Other Sites

The North Carolina State Government Web Site Archives allows you to view North Carolina state agency web sites from past dates. The Web Site Archives contains web sites from the Fall of 2005, and from April 2006 forward allowing free and open access to this information long after the sites have changed on the live web.

The Web Site Archives can be searched via the search box on the top of every page on this site. For tips and helpful hints on searching, read our Search Help document. Users may also browse for web sites by State Agency or by Collection.

The Web Site Archives began as a pilot project with the Internet Archive during the Fall of 2005. The purpose of

Office of the Governor
STATE OF NORTH CAROLINA

HOME MEET THE FIRST FAMILY NEWS CABINET INFORMATION GOVERNOR'S OFFICE CONTACT US

SEARCH THE SITE:

- Photo Gallery
- FOIA Info
- Press Program
- Web Page
- General Assembly
- Scholarships
- Links

GOV. EASLEY WELCOMES KATRINA VICTIMS TO NC
Wednesday, September 30, 2005 Gov. Mike Easley welcomed the first group of Hurricane Katrina victims to the state. Easley visited members of a shelter located in Raleigh.

GOV. EASLEY SIGNS EDUCATION LOTTERY BILL
Wednesday, August 31, 2005 Joined by state legislators, teachers and education leaders.

NC State Government Web Site Archives

home search about contact us help

This site allows free and open access to North Carolina state agency web sites dating back to 1996.

Search the Web Site Archives

Please note: Searching millions of old web pages may take a few moments.

[More search options](#)

YouTube

North Carolina Dept. of Commerce

The North Carolina Department of Commerce utilizes social media sites such as YouTube to reach NC citizens in a new way. YouTube page from December 2009.



Usability & interface evaluation

Activities & Products

- ✓ Interface evaluation of Web Site Archives portal
- ✗ Interface evaluation of NCpedia
 - Still planned
- ✗ Interface evaluation of Digital Repository
 - On hold due to creation of joint interface and then pending VERY different release of next version of software
- + Interface evaluation of current SLNC website
- + Interface evaluation of Voyager catalog



Outreach

Meets grant objectives to “further the influence of the State Library as a resource for standards and good practice in digital preservation through outreach, workshops, and partnerships” and to “grow the publicly accessible State Library of North Carolina Digital Repository and continue building archival collections of digital state publications within it.”



Outreach (1/4)

Activities & Products

- ✓ Identified 450 agency personnel involved in publishing or managing publications
- ✓ Conducted
 - 37 in-person information gathering interviews with publishers at 19 different major agencies
 - 81 telephone interviews with publishers at 29 different major agencies and public universities
 - site visits by contacts at NCDOT, BOE, Division of Forest Resources, NCSU school of design
- ✓ Presented to public information officers & publishers at DENR and Office of Commissioner of Banks



Outreach (2/4)

Activities & Products (continued)

- ✓ Assisted State Bar with digitization of *Lawyer's Handbooks*
- ✓ Rapid response to agencies needing to transfer large collections of paper publications to Clearinghouse
- ✓ Participated in outreach committee visits to DOT, DENR, and DPI
 - Reached 145 agency employees
- ✓ Identified and filled gaps in print and digital state publications for 9 agencies and commissions
 - Performed gap analysis for three other agencies or divisions



Outreach (3/4)

Activities & Products (continued)

- ✓ Met with librarians and other members of the community at several community events (Barco, NC; Wake County *Tour de Ref*)
- ✓ Outreach materials created
 - Brochure explaining procedures for sending state publications to Clearinghouse
 - Handout for agency publishers explaining unlocking PDFs
 - Handout on how to use digital publications repository; distributed at agency visits
 - Mass email sent to departmental Chief Records Officers
 - Created Clearinghouse marketing presentation for use at site visits
- ✓ Developed, produced, and publicized digital preservation education website



Outreach (4/4)

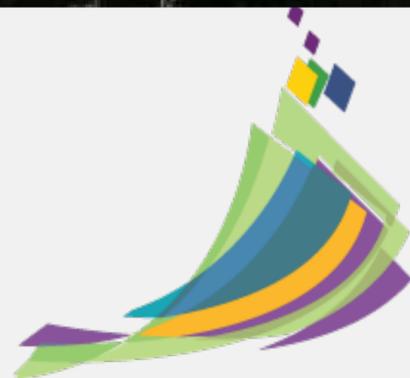
Activities & Products (continued)

- + Assistance with www.nc.gov portal redesign
- + Depository and agency librarian survey
- + Published "Digital Insider" newsletter
- + Published "State Publications Clearinghouse Update"



Education

Meets objective to “further the influence of the State Library as a resource for standards and good practice in digital preservation through outreach, workshops, and partnerships.”



Education

Activities & Products

- + Digital preservation education website
- + Presentations/Forums
 - “A Flickr of Hope: Harvesting Social Networking Sites with Archive-It” at *Library of Congress & BPE* (Ricker, Rudersdorf)
 - “The ‘M’ Word: What Works and What Doesn't in File Format Migration” at *SAA Research Forum* (Ricker)
 - Panel exploring archiving social media content on the web at SAA (Eubank, Ricker)
 - “On the cheap: Frugal Usability for digital collections” *LITA* (Gregory, Rudersdorf)
 - “Social Media in Government” at *Digital Government Summit* (Eubank)
 - “Someday they’ll thank you: Getting started with digital preservation” via webjunction (Gregory, Ricker, Rudersdorf)
 - “Digital Preservation e-forum” via ALCTS online forum (Gregory, Rudersdorf)
 - UNC panel on social media (Eubank)
 - Spoke to the working group on social media for the National Association of State Chief Information Officers (Eubank)



TABLE I

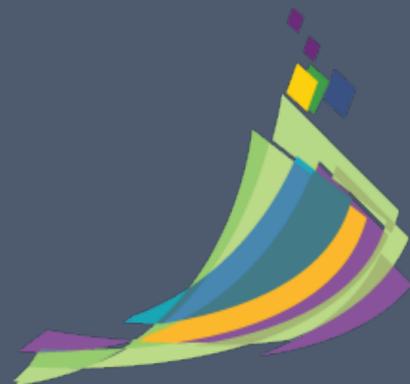
EMPLOYMENT AND WAGES IN WAYNE COUNTY
BY MAJOR INDUSTRY GROUP, 1958¹

<u>Industry Group</u>	<u>Insured Employment Monthly Average</u>	<u>% of Total</u>	<u>Wages</u>	<u>% of Total</u>
Construction	1,929	21.7	\$ 6,041,171	23.2
Manufacturing	2,700	30.4	7,813,719	30.2
Transportation & Communication	492	5.5	1,894,015	7.3
Trade	2,787	31.3	7,831,238	30.1
Finance, Insurance & Real Estate	310	3.5	1,068,412	4.1
Service and Other	<u>674</u>	<u>7.6</u>	<u>1,315,562</u>	<u>5.1</u>
<u>Total</u>	8,892	100.0	\$25,964,117	100.0

¹Average of four quarterly reports

Source: N. C. Employment Security Commission

Budget



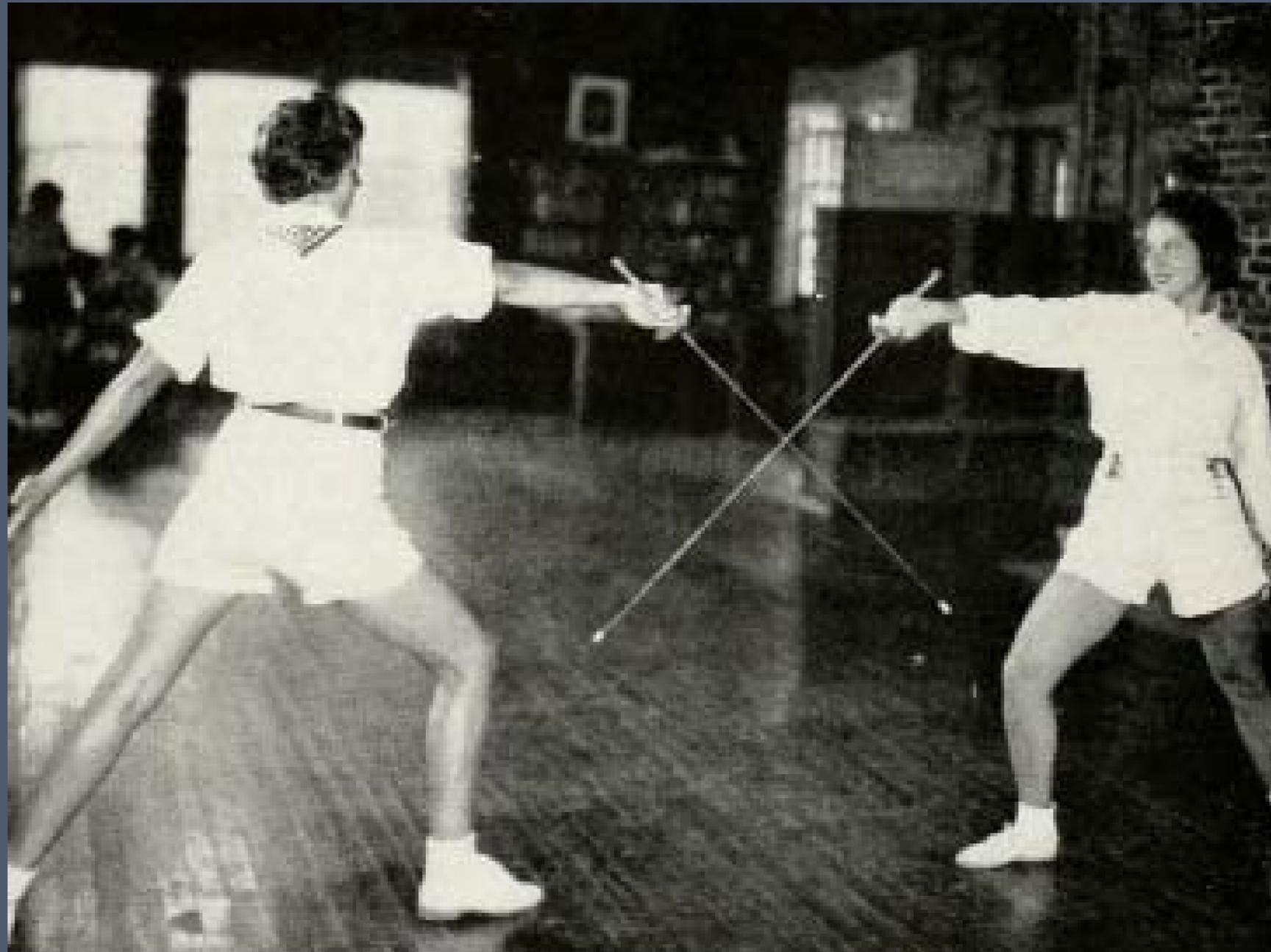
Budget

Adjusted request based on needs encountered during grant cycle

- Software
- Educational materials for staff
- Outreach materials for ASGII staff to use during site visits

We will spend nearly all monies granted





Challenges



Challenges (AR)

- Staffing
 - Digital content increase
 - Staff turnover
- NC government IT infrastructure
- NC government budget woes
- Agencies function independently
- No digital preservation “solutions”
- Funding



TABLE 2 FAMILIES AND CHILDREN IN CARY
 THE NORTH CAROLINA URBAN FRINGE AND NORTH CAROLINA URBAN PLACES

	Cary Twp. ^{1/}	Urban Fringe	Urban Places (2,500-9,999)
Total Population	5,107	48,008	409,082
Number of Families	1,293	11,681	90,942
Percent Families of Total Population	25.3	29.5	
Number of Families with own children under 6 years	1,280	4,487	
Percent Families with own children under 6 years	25.1	9.3	10.7



Source: U. S. Bureau of the Census. U. S. Censuses of Population and Housing: 1960. Raleigh Census Tracts.

^{1/} Raleigh Census Tract 035 which approximates Cary Township is

Changes . . .



Changing directions in 2011

Restructure grant (breaking into two grants)

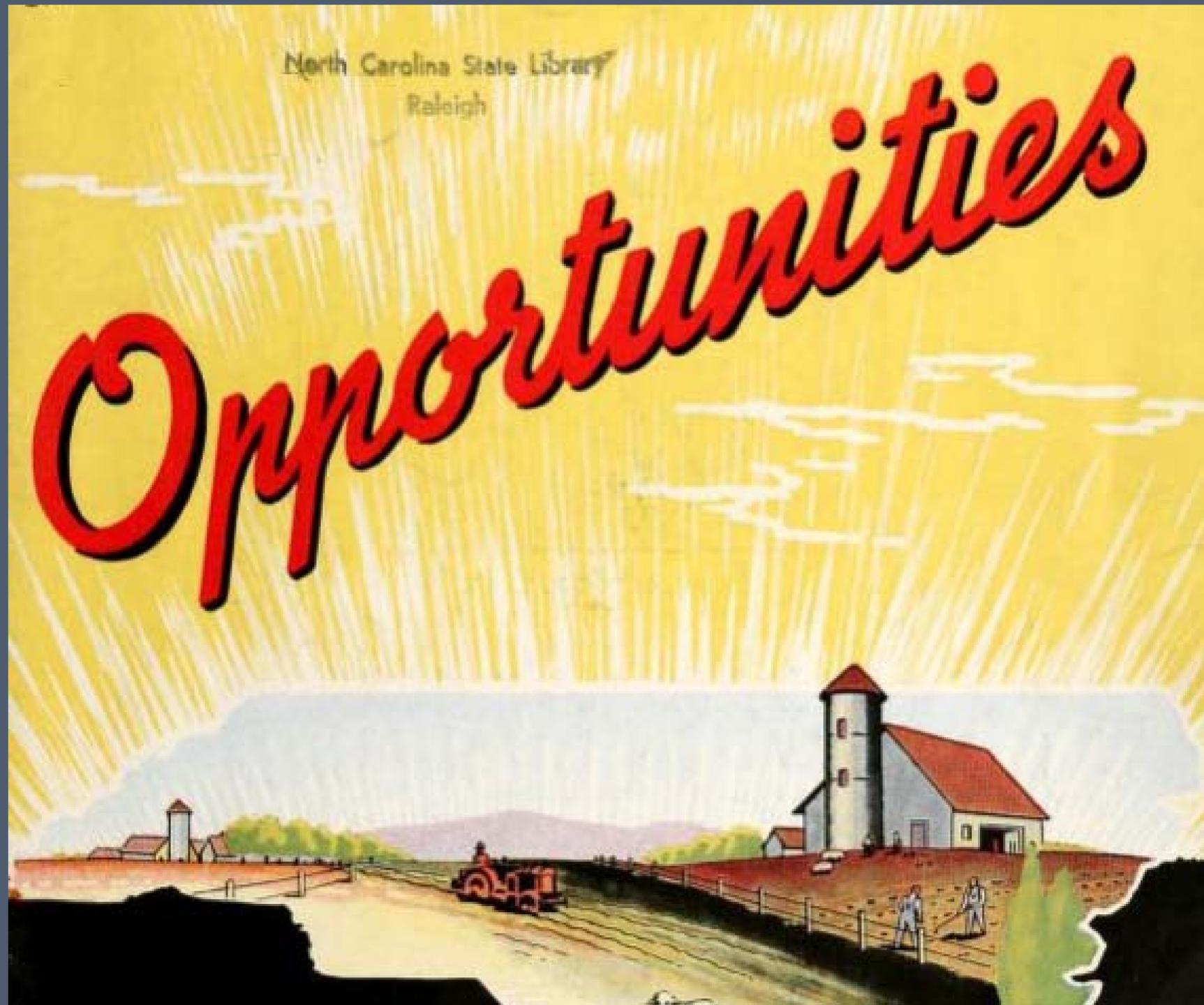
- Changes in focus of DIMP grant (ASGII-1)
 - Investigate joint (L&A) access and storage options
 - Expand migration testing to at-risk file types
 - Increase digitization efforts through CDLA
 - Focus on creating online tutorials & presentations
 - Expand to remote usability testing
 - Redefine staffing roles



Changing directions in 2011

- Changes in focus of RMSB grant (ASGII-2)
 - Agency outreach and communication
 - Continued development of the print and digital state publications collection
 - Focus on the digital state publication backlog
 - Create research guides/tutorials about state publications





Extending our influence



Digital Preservation Education website

“What an attractive, informative and helpful website! Many thanks for passing it along; I will add it to our webpage”

— Pam Greenberg, National Conference of State Legislatures

“It is gorgeous, and folks are talking about it all over the place...my membership loved it!” — Katherine Skinner, MetaArchive.org

“This is terrific. People have been raving about it.”

— Dr. Cal Lee, UNC-CH

“Awesome site.... Yay, State of North Carolina for taking responsibility for its records management responsibilities....”

— Thomas Teper, AUL, University of Illinois @ Urbana-Champaign

- ~16,000 page views as of October 1, 2010 (date site went live)
 - 30% of visitors are international (compare to 13% for SLNC site)
 - 25% increase in listserv membership



Digital Collections

- 2,275,000 page views
 - 07/2010-02/2011: ~1,522,000
- State Pubs: ~94,000
 - 07/2010-02/2011: 54,000



“Just want to let you know we like your digital presentation very much. . . We wonder if you can share your experience of implementing these two applications. Any comment or instruction will be highly appreciated!”

--- Xi Chen. Web Development Librarian, Oberlin College Library



Outreach



Dept. of Corrections employee feedback: she enjoyed digital preservation webinar and was glad to have the opportunity for free professional development.

"...[Y]ou are doing a wonderful job . . . [i]t has been wonderful to work with you and I look forward to doing so in the future."

--- Traci Blount, Section Chief, Web Services and Publications Sales, State Coordinator, NC School Report Cards, NC Department of Public Instruction



"I just wanted to thank you for your email reminders and your recent outreach efforts."

--- Kathleen Mason, Graphic Designer, Public Affairs Office, NC Department of Crime Control & Public Safety

- Outreach committee visits to agencies: Over 65 library card applications and
- 145 face-to-face interactions; will continue on a bi-monthly basis



National influence



- National Digital Stewardship Alliance (NDSA)
 - DCR asked to be a “Founding Member”
- Online Presentations by Staff
 - ~3,000 people reached worldwide
 - Local librarians and agency staff followed up in person



National influence



- Preservation Week 2010
 - Retweets by Library of Congress, others
- Invited panelist at SAA 2010 & ALA 2011 on social media harvesting
- Invited authors for two different SAA publications
- Invited pilot partners for OCLC and Internet Archive



State Government influence

- Presentations/Discussions about State Publications Clearinghouse to
 - 20+ NCDENR PIOs
 - Publishers within Division of Public Health, UNC-CH, and Community College System
 - IQ group as part of DOT's ECM selection process



State Government influence



“Thanks for the good news. Providing a complete digital set of the Briefs, Studies, and Primers . . . is a goal realized due to the generosity and assistance of the State Library.”

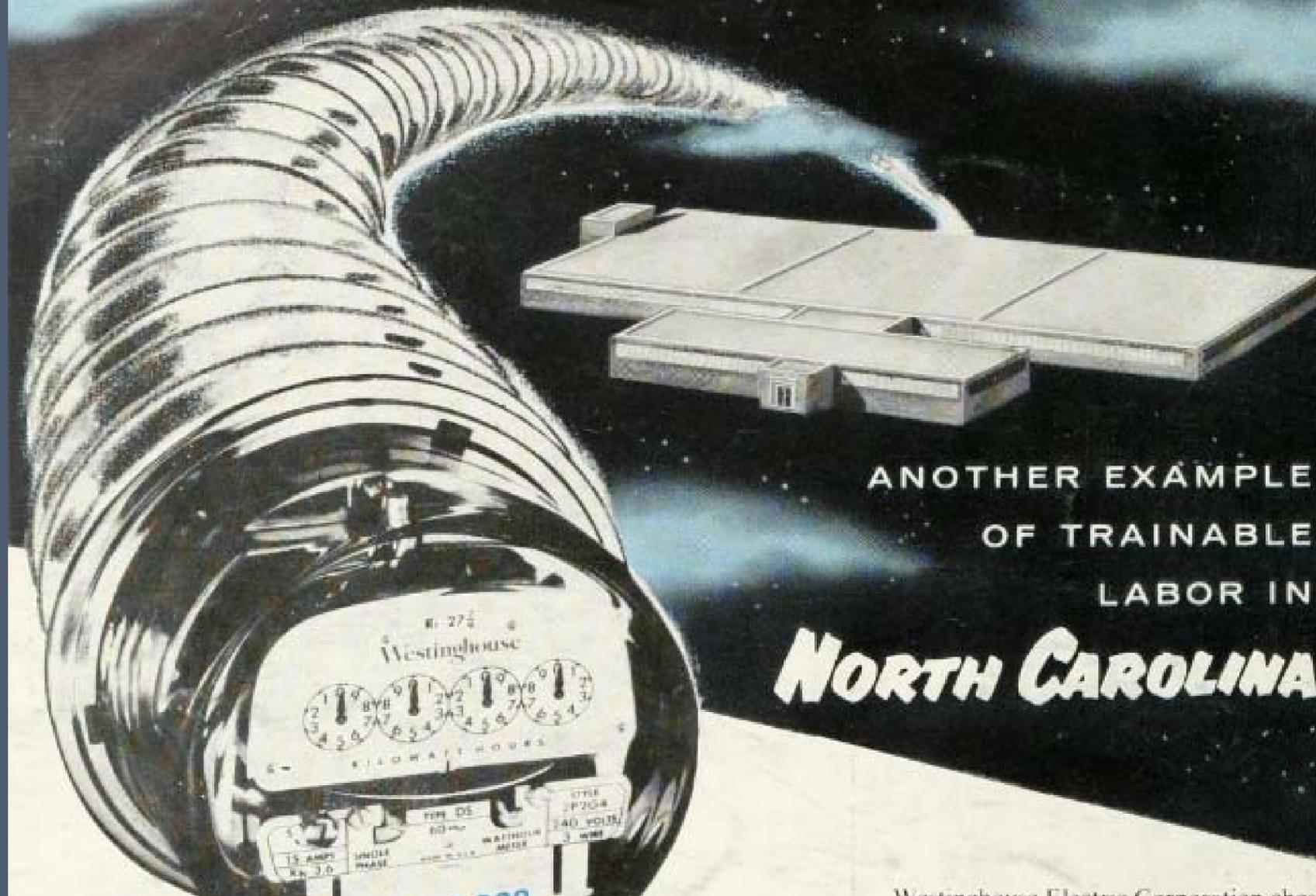
Ann Farmer. Division of Public Health, DHHS

Lawyer's Handbook – Staff at the **NC State Bar** worked through Kurt to get us print pubs, which were then sent over to UNC-CH for digitization. Now online!



"Frankly, this production record is somewhat remarkable"...

J. A. BABCOCK
North Carolina Plant Manager
WESTINGHOUSE ELECTRIC CORPORATION



ANOTHER EXAMPLE
OF TRAINABLE
LABOR IN
NORTH CAROLINA

Questions for us?



Questions for Senior Mgmt

- Are there deliverables you are particularly interested in?
- How do you see LSTA funding holding up in the next year?
- Input as to how we should structure our funding request this year?
- Other thoughts and feedback on our activities?



Hemmer

