DLA: Digital Library and Archives

Newman Library
2_76_0074 on the VT ImageBase

Digital Library and Archives collaborates with departments and individuals throughout the university to host and preserve the unique online resources of Virginia Tech.

In 2011, DLA created VTechWorks, Virginia Tech's nascent digital repository. VTechWorks is a service designed to assist the research community in collecting, preserving, and disseminating scholarly and historic works.

Our commitment to online resource preservation extends beyond Virgina Tech. DLA participates with other universities to develop and sustain the MetaArchive Cooperative. The Cooperative is a distributed digital preservation network that securely stores multiple copies of unique library collections at geographically dispersed sites around the world.

View our collections to learn more about our resources and services.

New Resources Available

Call for Nominations
INNOVATIVE ETD AWARDS

VTechWorks
Scholarship and Research

New DLA Librarians

Keith Gilbertson,
Technologies Development Librarian

Nathan Hall,
VTech Works Librarian

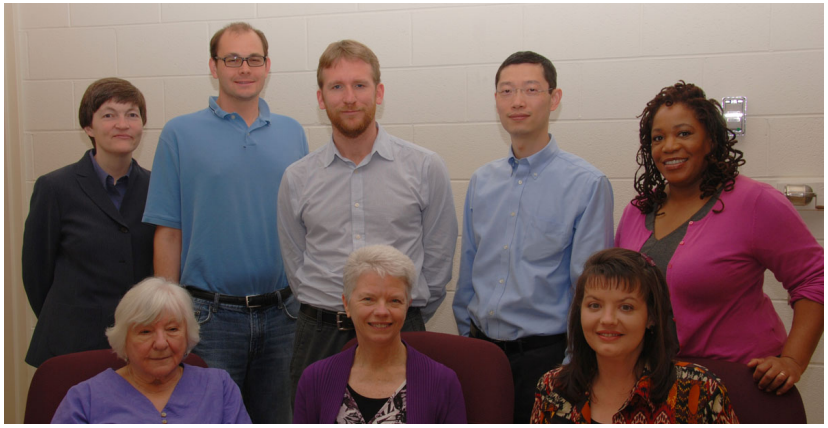
Zhiwu Xie,
Technologies Development Librarian

Send questions or comments to Digital Library and Archives

- Gail McMillan
- Kimberli Weeks
- Jane Wills
- Anne Lawrence
- Keith Gilbertson
- Zhiwu Xie
- Nathan Hall

- History, ETDs, Preservation
- Services & Standards
- VT ImageBase, Metadata
- EJournals, Metadata
- Open Source
- Data Management
- VTechWorks

- Paul Mather
- Tracy Gilmore
- Students



A Little History:

From the Scholarly Communications Project to the Digital Library and Archives

Thanks to Internet Archive's Wayback Machine

http://archive.org/web/web.php

University Libraries, Virginia Polytechnic Institute and State University

About the Project	Virginia News
Electronic Journals	Virginia Tech Publications
Theses and Dissertations	Publishing Tools
VT Digital Library Project	Special Collections
CAUSE/CNI SE Regional Preconference	*VT* Online Class Materials

Database Search: Clear Do Search

VT 1872 HOME PAGE

Before the Web there was the Gopher

Electronic Journals Online Access Data 1993-1995

Electronic Journals Online Access Data 1993-1995

Access method	*increase in ejournal accesses*	*time period*
FTP	4%	1993 - 1994
Gopher	296%	1993 - 1994
WWW	1190%	1994 - 1995

Electronic Journals from the Scholarly Communications Project, 1993-1995 Statistics

	FTP			Gopher			
EJournal	1993 accesses	1994 accesses	difference 1993-1994	1993 Mar.-Dec. accesses	1994 accesses	increase in accesses	1993-1994 increases
Catalyst	1173	860	73%	2050	3956	1906	93%
JFE	3237	4634	143%	3155	8873	5718	181%
JIAHR	660	718	109%	839	2119	1280	153%
JTE	4679	4519	97%	6018	29019	23001	382%
Modal	864	311	36%	1683	10475	8782	522%
totals	10613	11042		13745	54442	40697	
averages	2123	2208	104%	2749	10888	8139	296%

- About the SCP

http://scholar.lib.vt.edu

updated Dec. 4, 1998 (GMc)

- **Copyright**
  interpreting US law
  University Libraries' policies
- **EJs**
  electronic journals
- **EReserve**
  online class materials
- **ETDs**
  electronic theses and dissertations
- **VT Imagebase**
  locate digital images
- **News Online**
  regional and international
- **Special Collections**
  rare books, manuscripts, exhibits
  University Archive
- **VIVA Special Collections**
- **Virginia Tech Publications**
- **VT Digital Library Initiatives**

1998 **1996**

Strategie sur la bibliothèque virtuelle dans le contexte actuel: "Library Services and Resources for the University Community" for the Séminaire residentiel de formation à l'intention de directeurs de grandes bibliothèques Suisse, Jongny, Switzerland, Oct. 23, 1998

scholarly communications project
University Libraries, Virginia Tech

Virginia Tech Electronic Theses and Dissertations

http://scholar.lib.vt.edu/theses/

***VT*ETDs: unlocking access to graduate research**

Of General Interest	***Primarily for* Graduate Students**
Browse All Available *VT*ETDs	**Introductory Workshops**
Search *VT* ETDs	**Submission Information**
National Digital Library of Theses and Dissertations	**Form: Submit an ETD to the Graduate School**
NDLTD flier	**Form: Committee Approval** ***draft*Library-friendly Approval Form**

VT ETDs and the US Copyright Law flier
Preparing Your ETD at Virginia Tech flier
ETDs: Library Issues and Responsibilities slide show
The *VT*ETD Library: Some Recent Data slide show

Special Collections

University Libraries Virginia Tech

about Special Collections

highlights

exhibits

visitor information

university archive

manuscripts

rare books

images

Special Collections

Rare Books

Manuscripts

University Archive

Image Collections

scholarly communications

University Libraries

Virtual Library of Virginia

go to VIVA

other VA special collections

University Libraries

Digital Image Collection

NEW *VT ImageBase*

- Browse by Subject
- Browse by Collection
- Browse by Icons
- Search For Images and Related Materials Using VTLS
- Search Image Collection Using WAIS
- Submit Image Requests
- Comments or Suggestions
- *Copyright Statement*

>>Statistics for this server

VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY

University Libraries
Digital Image Collection

Uniforms of Cadets
of the Virginia Agricultural and Mechanical College
and the Virginia Polytechnic Institute

- 1883 Cadet Uniform
- 1897 Cadet Uniform
- 1902 Cadet Uniform
- 1908 Cadet Uniform
- 1910 Cadet Uniform
- 1931 Cadet Uniform
- 1942 Cadet Uniform

digital library and archives

Scholarly Publishing, Library Services and Archives

VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY

Search DLA

images from the Digital Library and Archives

VT ImageBase

Ask a Librarian

Copyright
EJournals
EReserve
ETDs (electronic theses/dissertations)
Faculty Archives
ImageBase
News Reports
Survey Database
Virginia Tech Publications

Special Collections

- **Manuscripts**
- **Rare Books**
- **University Archives**
- **Virginia Heritage Project**

Developing Resources

- **IUSS US: Institute for Ulster Scots Studies in the United States**
- **SARHC: South Atlantic Regional Humanities Center**

Historical information: *about DLA*
Presentations

Gail McMillan, DLA director

DLA Staff

Virginia News

RT THE ROANOKE TIMES

VP The Virginian-Pilot

7 •YOUR HOMETOWN STATION• WDBJ7

International Newspapers Online

Le Monde		March 1997 to date
النهار	**AN NAHAR**	June 1997 - Jan. 1999
اطلاعات	**ETTELA AT**	Aug. 1997 - March 1999
EUROPEAN		April 1997 - April 1998

BIOGRAPHICAL DATABASE

Browse the IAWA-db by Last Name

Search

Basic | Advanced

Go!

Browse by Last Name

A B C D E F G H I
J K L M N O P Q R
S T U V W X Y Z All

Browse by Country

Australia Go!

Add a New Person to the IAWA db

Turn On Javascript Menu

Name (Last, First)	Date of Birth(Year-Month-Day)	
Rice, Lilian	-	View
Rodeck, Melita	April 12, 1914	View
Rueschemeyer, Marilyn	May 3, 1938	View
Rupp, Sigrid Lorenzen	January 3, 1943	View

Back to IAWA Home

etds | image base | journals | news | online class materials | special collections

virginia tech home | contact dla | university libraries

http://lumiere.lib.vt.edu/iawa_db/browse_by_last_name.php3

Generated at 01:24 pm on Thursday, May 17th, 2001

International Archive of Women in Architecture
BIOGRAPHICAL DATABASE

Virginia Tech

Search

Basic | Advanced

Go!

Browse by Last Name

A B C D E F G H I
J K L M N O P Q R
S T U V W X Y Z All

Browse by Region

Select your country

Select your state Go!

Add a New Person to the IAWA Database

Welcome to the IAWA Biographical Database. The purpose of the database is to document the women's involvement in architecture and landscape architecture, industrial and interior designer, and urban planning from around the world.

Use the links on the left to search or browse for women who practiced architecture and related design professions. The International Archive of Women in Architecture (IAWA) established in 1985, is a joint program of the College of Architecture and Urban Studies and the University Libraries at Virginia Polytechnic Institute and State University (Virginia Tech). The IAWA collects information to fill serious gaps in the availability of primary research materials for architectural, women's, and social history research.

If you have information about a woman in architecture not listed in this database, please send information using the "Add a New Person to the IAWA Database" feature.

Please enable JavaScript in your web browser to view this website.

IAWA	Digital Library & Archives	Special Collections	University Libraries	CAUS	Virginia Tech

Send questions or comments to:
IAWA Archivist, University Libraries
Virginia Tech, P.O. Box 90001,
Blacksburg, VA 24062-9001

URL: http://lumiere.lib.vt.edu//iawa_db/index.php3
Last Updated on: Thursday, 08-November-2003 19:55:28 EDT

Electronic Theses and Dissertations at Virginia Tech

12,862 including available, restricted and withheld ETDs

etds@vt

http://scholar.lib.vt.edu/theses/

For ETD Authors

- GUIDES
  - Copyright
  - ETD Examples
  - General Information
  - Graduate School Catalog
  - Graduate School Guidelines
  - Preparing your VT ETD [handout]
- LEARNING TOOLS
  - Adobe PDF Tutorial
  - VT ETD Workshop
  - Practice Submitting an ETD
- POLICIES/PROCEDURES
  - Approval Form
    - Graduate School
    - Library-friendly approval form (recommended)
  - Graduate School Policies
  - Submit your ETD to the VT Graduate School

BTD Authors

Bound theses and dissertations (BTD) are being digitized for the VT community. Pre-1997 BTD authors can remove access restrictions.

ETD System Implementors

- ETD_db: Submission Process
- ETD MS: Interoperability Metadata Standard

ETD User Survey

We want to know about our ETD readers. Please share your opinions with us through this survey.

VT ETDs

Off Campus Sign in

- Browse VT ETDs
- Search VT ETDs
- Federated Search
  Search multiple collections simultaneously through the ETD OAI Union Catalog

Find out about ETDs

- Facts, Data, Information
  Archiving, servers, staffing, use, etc.
- Presentations and Publications about VT ETDs
- Survey Results (PDF 519KB)
  VT Graduates whose ETDs were accessible in 2000

NDLTD

Networked Digital Library of Theses and Dissertations

- Award Winning ETDs
- Community Activities
- Conferences since 1998
  - 2009: University of Pittsburgh (WVU)
  - 2008: Aberdeen, Scotland at RGU
  - 2007: Uppsala, Sweden at UU
- NDLTD Handout (PDF 40.7KB)
- Members
- Minutes
  - Board of Directors, May 2003 to date
  - Steering Committee, March 1997 - Oct. 2002

ETD Preservation

VirginiaTech
Invent the Future

Digital Library and Archives

University Libraries

- Search Addison
- Off Campus Sign In
- Ask a librarian

Search ETDs GO

Advanced Search

19,844 VT ETDs:* *Browse publicly available and VT-only ETDs

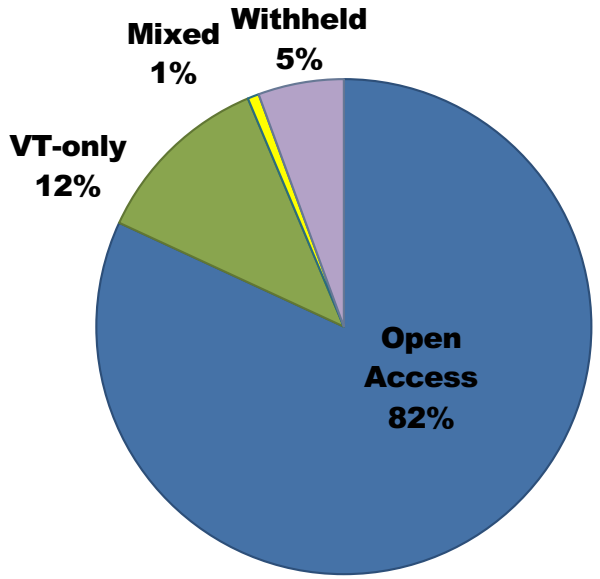
As of April 9, 2012, 12,406 VT ETDs are born-digital, and 81% of them have open access.

Temporarily, 12% have VT-only access, 5% are withheld from all access, and 1% are multi-file ETDs and have varied levels of access. In addition, 7,331 bound theses and dissertations have been sacanned.

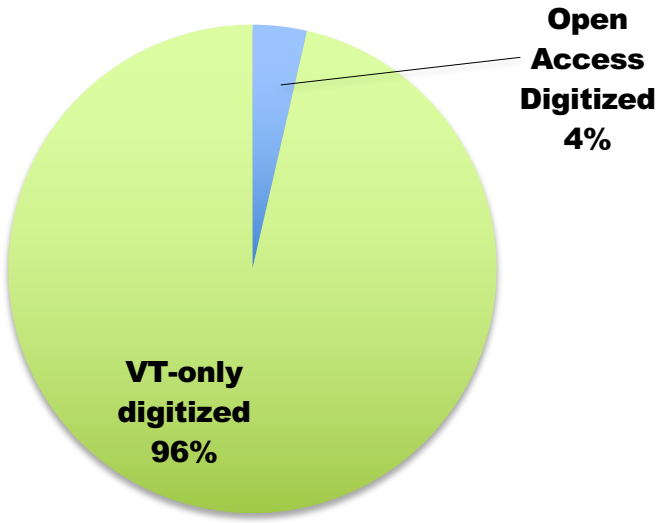
etd@vt

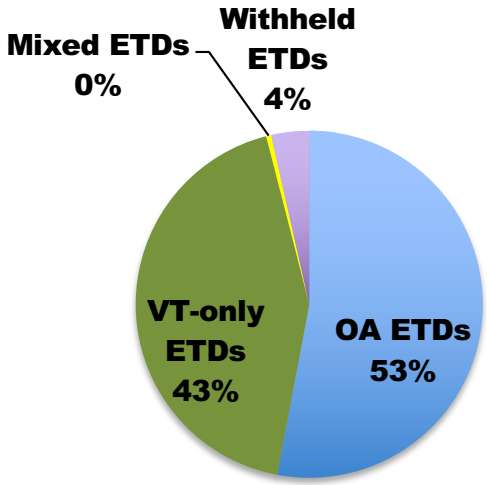
http://scholar.lib.vt.edu/theses/

Accessibility of VT's Born Digital ETDs



Accessibility of VT's Scanned T/Ds





	All VT ETDs	born-digital	digitized
Open Access	10,510	10,247	263
VT-only	8,541	1,473	7,068
Mixed	93		
Withheld	700		
	19,844		

Distributed Digital Preservation: The MetaArchive Model

ACRL Poster 18

Safeguarding Culture and Identity

Content Owner
Web Content: any format

Restricted Access:

ETDs
Data Sets
Oral Histories

Public Access:

ETDs
Faculty Archives
Images, Maps
Music, Narratives
Exhibits
University Publications
University Archives

MetaArchive

Conspectus Database:

Collection Descriptions
Harvest Location
Accrual rules

Plugin Repository:

Plugin rules for locating, harvesting, and verifying content

Collection Preparation

Conspectus Database: Describe collections in a bibliographic-like database, including how frequently to copy new material (crawl rules).

In a Nut Shell

MetaArchive uses the free open source LOCKSS software to operate **dark archives** in a private network of preservation servers.

Content is stored in and restored to its original format thereby avoiding data loss.

Participating institutions identify their digital resources to be preserved and make them available ONLY to the MetaArchive for dark archiving.

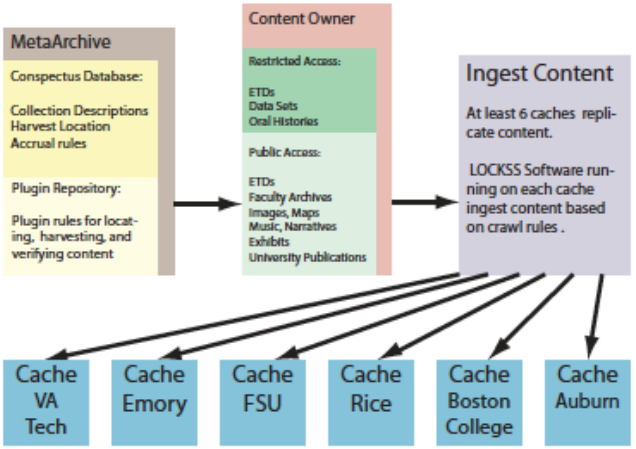
Membership Categories

Affordable for libraries of all sizes.

• Contributing :	$300/year	5 GB
• Preservation:	$2,000/year	20 GB
• Sustaining:	$5,000/year	40 GB
Additional Storage		$2/GB

5% discount for joining both NDLTD (Networked Digital Library of Theses and Dissertations) and the MetaArchive.

Copies in Multiple Dark Archives



Automated Ingest, Replicate, and Restore

Content Monitoring and Recovery

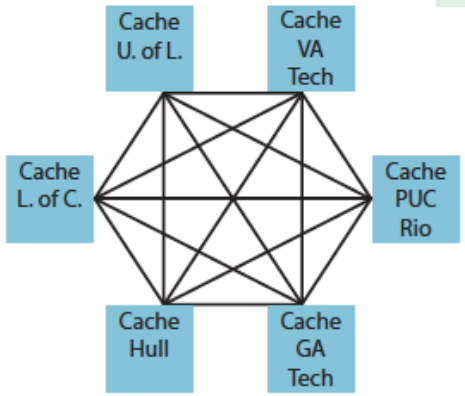
LOCKSS daemons on all caches periodically update content from the web, validate content via polls and votes, and repair content when necessary.

The cache manager monitors all LOCKSS caches for uptime, availability of disk space, and sufficient replication of content.

Cache Contents: Dark Archive

ETDs
Data Sets
Oral Histories

Faculty Archives
Images, Maps
Music, Narratives
Exhibits
University Publications
University Archives



Preservation Scenario

Librarian: Let's preserve this web resource and its metadata.

Techy: Please describe it in the Conspectus Database.

Plugin Developer: Do I harvest all or parts?

Librarian: Everything!

Plugin Developer: develops rules (plugins) that locate the requested content, e.g., master TIFFs, but not JPGs

Techy: I'll tell the network (publicize plugin, activate content, ...)

Librarian: Let me see content in the network (AuditProxy)

Together: Verify that preserved content is sufficient to restore.

AFTER A FATAL CRASH

Techy: I restored your content!

MetaArchive cooperative

"A place for everything, everything in its place, and seven secure copies."
The Digital Ben Franklin

MEMBERSHIP MAP

Our Members

The MetaArchive network is preserving content for over 50 institutions in 13 states and 4 countries. We are currently welcoming new members.

View MetaArchive Membership Map in a larger map

HOME
THE COOPERATIVE
> REFERENCES
> MEMBERSHIP MAP
> EVENTS

Search

The Cooperative is comprised of the following members:

- Auburn University
- Boston College
- Carnegie Mellon University
- Clemson University
- Consorci de Biblioteques Universitaries de Catalunya
- Florida State University
- Folger Shakespeare Library
- GALILEO Knowledge Repository
- Georgia Tech
- Greene County Public Library
- HBCU Library Alliance
- Indiana State University
- Library of Congress
- Oregon State University
- Penn State University
- Pontifícia Universidade Católica do Rio de Janeiro
- Rice University
- University of Hull
- University of Louisville
- University of North Texas
- University of South Carolina
- Virginia Tech

Providing the ETDs of Today for the Researchers of Tomorrow

Background and Scope

Project Period: 10/2011-09/2013

The transition from traditional paper and microfilm formats to electronic theses and dissertations presents a number of significant challenges for academic libraries, which are charged with curating and preserving this digital content.

To promote good practices and to increase the capacity of academic libraries to reliably preserve ETDs, the project participants are researching, developing, and sharing a toolkit of guidelines, educational materials, and a set of software tools for life-cycle data management and preservation of ETDs.

Deliverables

- **Guidance Documents for Lifecycle Management of ETDs** will address areas of special interest identified by ETD program planners, managers, and stakeholders.
- **Education Materials and Associated Workshop** will provide a set of educational materials on the theory and practice of lifecycle management of ETDs, and will be utilized in a workshop that will be offered in the second year of the project.
- **Lifecycle Tools** will develop and disseminate a set of software tools to address specific needs in managing ETDs throughout their lifecycle. These tools will be created as completely modular micro-services.

Toolkit Topics

- Access Levels and Embargoes
- Copyright Issues and Fair Use
- Implementation Roles and Responsibilities
- Usage Metrics and Demonstrating Value
- Formats and Format Migration Scenarios
- Metadata and Lifecycle Events
- Record-Keeping
- Cost Estimation and Planning
- ETD Program Design and Options

Advisors

UNT
Dr. Martin Halbert, *Principal Investigator*
Shannon Stark, *Assistant Coordinator*
Dr. Daniel Gelaw Alemneh, *Project Steering Committee Chair*

Educopia
Dr. Katherine Skinner, *Co-Principal Investigator*

MetaArchive
Matt Schultz, *Project Manager*

VA Tech, NDLTD
Gail McMillan, *Project Steering Committee Chair*

Boston College
Dr. Bill Donovan, *Project Steering Committee Chair*

Rice University
Geneva Henry, *Project Steering Committee Chair*

Indiana State University
Xiaocan (Lucy) Wang, *Project Steering Committee Chair*

Penn State University
Dr. Patricia Hswe, *Project Steering Committee Chair*

University of Arizona
Yan Han, *Project Steering Committee Chair*

Sponsored By:
INSTITUTE of Museum and Library SERVICES

Indiana State University — More. From day one.
MetaArchive cooperative
Libraries UNT
EDUCOPIA INSTITUTE
PENNSTATE UNIVERSITY LIBRARIES
VirginiaTech — Invent the Future
NDLTD
RICE
THE UNIVERSITY OF ARIZONA

Chronicles in Preservation Project

Project Background & Scope

Project Period: 09/2011-08/2013

U.S. libraries and archives have been using a highly diverse and ever-evolving set of encoding practices, metadata schemas, formats, and file structures for digitized newspapers. They are also acquiring born-digital newspapers in an array of non-standardized formats.

The project ***proposes to study, document, and model the use of data preparation and distributed digital preservation frameworks to collaboratively preserve digitized and born-digital newspaper collections.***

Participating Newspaper Holders

- Boston College
- Clemson University
- Georgia Tech
- Penn State University
- University of Kentucky
- University of North Texas
- University of Utah
- Virginia Tech

Participating Distributed Preservation Sites

- Chronopolis (iRODS)
- MetaArchive Cooperative (LOCKSS)
- UNT Libraries (CODA)

Project Deliverables

1) ***The Guidelines to Digital Newspaper Preservation Readiness*** will document both the essential and the optimal in preservation readiness for digital newspapers.
2) ***The Comparative Analysis of Distributed Digital Preservation (DDP) Frameworks*** will provide an evaluation of three leading technical approaches in the U.S. context (iRODS, LOCKSS, and micro-services) for institutions that want to preserve their diverse newspaper holdings in DDP frameworks.
3) ***Interoperability Tools*** will be identified or built to handle the validated exchange of content from the access-oriented repositories into the preservation frameworks represented in this project.

Challenges & Early Findings

1) Digital newspaper holders have not moved beyond simple back-up strategies for preservation
2) Proprietary repository systems in use have technical and legal implications for preservation
3) There are no universally adopted OCR formats for long-term preservation & access
4) There are no standardized file structures, naming conventions, or object identifier schemes for long-term management
5) Diverse priorities and expectations exist for access services

NATIONAL ENDOWMENT FOR THE HUMANITIES

For more information visit:

www.metaarchive.org/neh

J. Willard Marriott Library, The University of Utah · Virginia Tech, Invent the Future · Georgia Tech Library · Penn State University Libraries · University of Kentucky · Educopia Institute · MetaArchive Cooperative · Chronopolis · UNT Libraries · Clemson University

DLA: Digital Library and Archives

Welcome to the Bookmobile!
Ellen Wilson awaits the opening of the Bookmobile doors.
ep078 on the VT ImageBase

Digital Library and Archives collaborates with departments and individuals throughout the university to host and preserve the unique online resources of Virginia Tech.

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INNOVATIVE ETD AWARDS

VTechWorks
Scholarship and Research

New DLA Librarians

Keith Gilbertson,
Technologies Development Librarian

Nathan Hall,
VTech Works Librarian

Zhiwu Xie,
Technologies Development Librarian

Send questions or comments to Digital Library and Archives

Who are we and what do we do?

We are a digital library,
specializing in digital archiving,
and growing a digital repository.

Digital Libraries
Collect and provide access to digital information, and provide library services surrounding that information.

2010-11 ASERL Digital Collection Reports

What is some of DLA's digital information?

Collection	Current Total No. of Files:	Current Total File Size in GB	Number of times items accessed
ETDs and BTDs (Files)	33,037	200.07	6,874,543
Ejournal Articles	15,473	3.54	2,709,748
Digital images	208,762	2,592.33	3,578,614
Digital Books	221	9.19	20,581
Faculty Archives	1,299	1.18	75,076
IAWA	2,030	0.02	440,334
VA Tech Pubs (Employee of Week, Library & DLA Annual Reports, VT Magazine Archive, Collegiate Times, Spectrum, Conductor, Graduate News	3,329	1.82	167,712
Virginia News Collection	361,010	3.58	66,158
International News Collection	2,356	15.00	14,651
Totals	**627,517**	**2,827**	**13,947,417**

Digital Library Services

Intellectual property advisement

Technical advisement

Collection Development

Scholarly Publishing

Indexing, Searching

User Interface & Browsing

Research test bed (short-term project support, long-term maintenance)

Collection Reports, Use Statistics

Acquisitions

Accessibility

Identifying / Cataloging / Metadata

Availability / Embargo

Interoperability & Sharing

Donor (Faculty) Support

Patrons – World Wide Access & Support

Digital Archives

******* **HELP** *******
Metadata Crosswalks
Scripting Crosswalks
ISO Standards
Archival File formats
IANA / PRONON
Contact DLA

A PLACE TO START . . .

New to Digital Preservation
http://digitalpreservation.ncdcr.gov/newtodp.html
Digital Preservation Tutorial
http://www.dpworkshop.org/dpm-eng/eng_index.html
OpenDOAR - http://www.opendoar.org/
Digital Preservation - 36,000+ Views
http://www.youtube.com/watch?v=pbBa6Oam7-w
Getty – Electronic Publications
http://www.getty.edu/research/publications/electronic_publications/

I KNOW THE BASICS . . .

Managing Electronic Public Records Recognizing Perils & Avoiding Pitfalls
http://www.records.ncdcr.gov/tutorial_erecs_20081027/index.html
Open Access -
http://www.jisc.ac.uk/publications/programmerelated/2010/openaccessmainbrochure.aspx
Library of Congress Digital Preservation Formats
http://www.digitalpreservation.gov/formats/index.shtml
Virginia Tech's Web Accessibility Guidelines
http://www.accessvt.atc.vt.edu/index.html
MetaArchive **http://www.metaarchive.org/**

SHOW ME MORE . . .

DMP Tool - https://dmp.cdlib.org/
Metadata Standards Crosswalk
http://www.getty.edu/research/publications/electronic_publications/intrometadata/crosswalks.html
File Format Conversion Tool -
http://www.nationalarchives.gov.uk/PRONOM/Format/proFormatSearch.aspx?status=new

INTERESTING PLACES TO RESEARCH . . .

Data.gov - **http://www.data.gov/**
W3C – Semantic Web -
http://www.w3.org/standards/semanticweb/
Linked Data Tools -
http://www.linkeddatatools.com/index.php
DataOne - http://www.dataone.org/
Viewshare
http://viewshare.org/about/community/
OAI-ORE **http://www.openarchives.org/ore/**

Welcome to the Virginia Tech ImageBase. Here you will find **some** of the images hosted by the University Libraries' Digital Library and Archives. You may also find it helpful to consult the Special Collections Department's Guide to Manuscript Collections for additional images, among other things, that have not yet been digitized.

To **view** images in the VT ImageBase, you may browse by categories using the "browse" link in the column at the left.

To **find** images, you may search by topic by typing a word in the search box above. For **assistance** with searching, use the "help" link also at the left.

To **order** images, please accept our Conditions of Use , complete an order form, and submit it with payment to DLA.

If you are a VT faculty member, you may wish to enhance your classroom presentations with Virginia Tech's Luna Insight®.

Use of these images is governed by our Conditions of Use.
Image Order Form

Send questions or comments to:
DLA, University Libraries
Virginia Tech, P.O. Box 90001,
Blacksburg, VA 24062-9001

Civil War (2091 images)

Culinary History (762 images)

A collection of culinary materials received from the Culinary Collection Advisory Board which originated in Southwest Virginia The materials are located in the Special Collections Library, Newman Library, Virginia Tech University, Blacksburg, Virginia.

International Archive of Women in Architecture - IAWA (1601 images)

The IAWA was founded in 1985 to collect, preserve, and make available to researchers the history of the involvement of women in architecture. Collections include the professional papers of women architects, landscape architects, designers, architectural historians and critics, and urban planners, and the records of architectural organizations for women.

Landscape Architecture & Architecture (197 images)

Landscape Architecture and Architecture images, most shot by Terry Clements.

Maps (762 images)

Palmer, Earl. Appalachian Photograph Collection. Ms89-025 (642 images)

The materials have been donated jointly to the Appalachian Collection in the University Libraries and the Appalachian Studies Program at Virginia Polytechnic Institute and State University

Railroad (12551 images)

Science and Technology (271 images)

Science fiction, historical books, scrapbooks, and general memorabilia (279 images)

Science fiction and fantasy, records of battles, natural disasters, scenes of life in various countries contained in books, scrapbooks, and photographs.

Southwest Virginia (2038 images)

Temple, Col. Harry. Ms88-039 (1149 images)

Photographs used in his series: The Bugle's Echo: A Chronology of Cadet Life at the Military College at Blacksburg, Virginia.

Theater and Music (887 images)

Theater collections include playbills, revues and criticism,actors and actresses, and photographs of characters on stage. The music collections include classical, jazz, blues, religious, patriotic, and popular sheet music covers.

farrier Search Railroad

Top

Railroad (12551 image records)

Sub Folios

Aliff, Charles Railroad Collection (24 images)

These images are not part of the Norfolk Southern collection.

Bostwick Railroad Collection (27 images)

These images are not part of the Norfolk Southern collection.

Chattanooga and Tennessee River Bridge Ledger (20 images)

CHATTANOOGA AND TENNESSEE RIVER BRIDGE COMPANY. Southern Railway Archives. Ms84-030.

Drake Railroad Photograph Collection (194 images)

Keith, Phyllis Railroad Photographs (6 images)

THESE IMAGES ARE NOT PART OF THE NORFOLK SOUTHERN COLLECTION.

Norfolk and Western Construction Photographs (265 images)

Photographs taken at various construction sites from 1967 through 1981. Loaned to Special Collections by Norfolk Southern Corporation.

Norfolk and Western Historical Photograph Collection (10522 images)

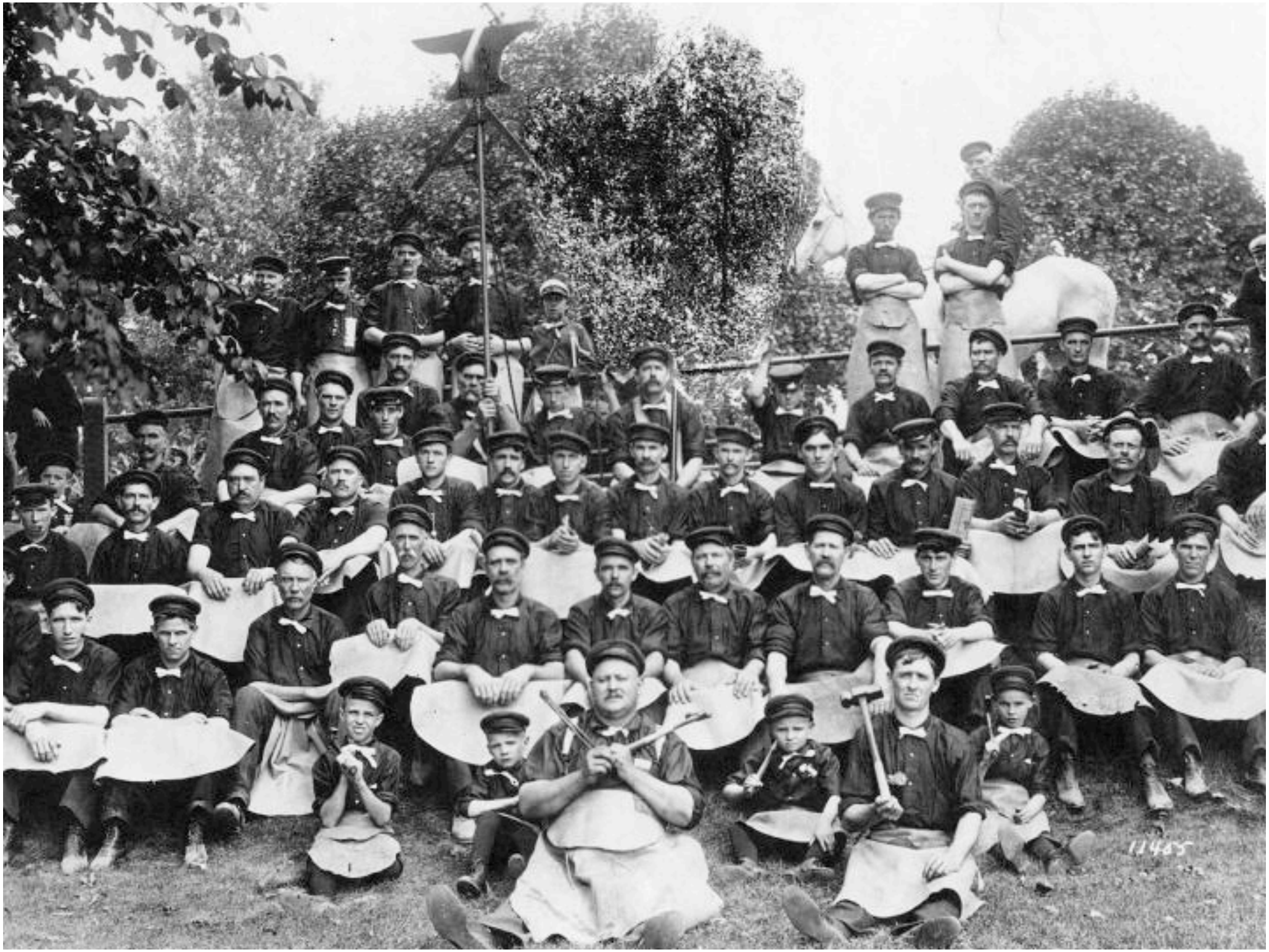
These images are available in TIF format (300 dpi only) unless otherwise noted. Collection contains ca. 10,000 photographic images taken by the Department. Subjects include locomotives; cars; coal mines; stations; cities and towns; Roanoke, Virginia; farm scenes; resorts; train wrecks; colle portraits; and caves and caverns. Some photographs date from as early as the 1880s, and a large group of glass plates dates from the early 1900s, b from the 1920s or later. Ms88-120.

Norfolk and Western Railroad Photograph Negatives 8x10 black & white (586 images)

Negatives scanned for archival purposes. Negatives deteriorating rapidly, discarded after checking for good TIFF images.

Norfolk Southern Glass Plates (578 images)

Images taken from glass plate negatives.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Railroad : Norfolk and Western Historical Photograph Collection : Railroad Employees and Corporate Business Groups : N&W Employee Group Photographs : Shop Employees

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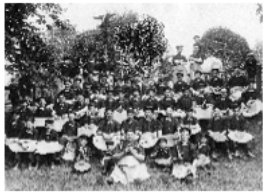

View Larger Image

Title	Railroad farriers
Creator	no creator given
Subject	• railroad employees • blacksmiths • horseshoes • horses • aprons • anvils • hammers
Owner	dla
Copyright	dla
Conditions Of Use	Permission to publish Norfolk Southern images must be obtained from NS before TIFF images will be provided. Please contact jennifer.mcdaid@nscorp.com
Work Type	Photograph
Work Date	c 1890s
Material	Black & White
Repository	Digital Library and Archives (Virginia Polytechnic Institute and State University)
Current Site	CD: NS029
Notes	The "men in funny skirts" are farriers; they shoe horses. The technique they use is blacksmithing, but farriers are specific usually. There is a horse in the upper right of the picture (the back end of one). The farrier would put the horses hoof in the lap of the skirt. It would keep him from getting kicked in the privates! From William Rogers 9/17/02
Source	Norfolk & Western Historical Photograph Collection

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Virginia Libraries

ISSN 1086-9751 VOL. 58, NO. 1
JANUARY/FEBRUARY/MARCH 2012

The Tokyo Trial at Richmond: Digitizing the Sutton Collection

Special issue on electronic collections and digital developments in the library world

Virginia Libraries

Current Coeditors:
Cy Dillon cdillon@hsc.edu
Lyn C. A. Gardner cgardner@hampton.gov

January/February/March 2012 **Volume 58, Number 1**

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The Tokyo Trial at Richmond:

Digitizing the Sutton Collection of Documents from the International Military Tribunal for the Far East

by Chris Kemp and Suzanne Corriell

Many librarians and readers are by now familiar with Laura Hillenbrand's book *Unbroken*, which has spent over a year on the *New York Times* best seller list for hardcover nonfiction. In *Unbroken*, Hillenbrand chronicles the story of Louis Zamperini, a one-time Olympian who was taken prisoner and tortured by the Japanese while serving in the U.S. Army Air Forces during World War II. In her research for later chapters in the book, Hillenbrand routinely cites documents from the war crimes trials of those who perpetrated crimes against prisoners of war. The University of Richmond (UR) is fortunate enough to hold many of these documents in the special collections of the William T. Muse

Chris Kemp *is the head of digital initiatives for Boatwright Memorial Library at the University of Richmond. He can be reached at ekemp@richmond.edu.*

Suzanne Corriell *is the head of reference and research services for Muse Law Library at the University of Richmond. She can be contacted at scorriel@richmond.edu.*

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Author: Suzanne Corriell

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Volume: 58 **Issue:** 1 **Date:** 2012 **Pages:**

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Collection of Documents from the International Military Tribunal for the Far
East</span> </h2>¬
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<h3 class="center i">by Chris Kemp and Suzanne Corriell</h3>¬
¬
<p class="bigFirst">Many librarians and readers are by now familiar with Laura
Hillenbrand&rsquo;s book <span class="i">Unbroken</span>, which has spent over a
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David Nelson Sutton, a 1915 graduate of the University of Richmond and a 1920 graduate of the University of Virginia's law school, practiced law in West Point, Virginia, where he served as the commonwealth's attorney from 1928 to 1946. Invited to participate in the trial of General Tojo and other Japanese leaders after the end of World War II, he served as associate counsel to the prosecution before the International Military Tribunal for the Far East (IMTFE), better known as the Tokyo War Crimes Trial. The prosecution assigned Sutton to duties corresponding to his fluency in Chinese, as exemplified by his two trips to China to investigate charges associated with the Rape of Nanking and Japan's illegal narcotics trade. He presented evidence and questioned witnesses during the course of the trial pertaining to these topics. At the end of the trial in 1948, Sutton returned to Virginia, resumed his law practice, and served as president of the Virginia State Bar Association from 1948–1949.

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Features

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Author:	Corriell, Suzanne
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Publication:	Virginia Libraries
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Date:	2012
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Series Text:	
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Language:	
DOI:	
ISSN:	1086-9751
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2009	3,745,749	1,891,890	1,506,445	362,258	14,573	732,032
2008*	3,145,268	1,574,919	1,322,831	234,347	11,812	593,128

*2007-2008 note about statistics

Year	Successful requests	HTML files requested	PDF files requested	Distinct files requested	Distinct hosts served
2007	8,348,997			26,125	980,497
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2005	7,131,251			20,920	983,243
2004	5,726,122			20,224	712,559
2003	5,370,395			29,488	717,898
2002	5,205,298			52,699	879,612
2001	4,926,084			17,659	546,571
2000	3,453,073			9,442	458,885
1999	2,019,401			14,372	313,711
1998	1,152,332			6,011	224,182
1997	597,073			2,264	167,808
1996	362,801			1,084	106,747

Openness in libraries

An underdeveloped and yawn-inducing comparison of open source and open access for library folk

Open Source

- Software with free availability of the source code used by programmers in the creation of the software, with a license that does not impose burdensome restrictions on distribution or use

- Condensed from the Open Source Definition of the Open Source Initiative (http://www.opensource.org/os...ml)

Open Access

- Making academic works, especially scholarly journal articles, available at no charge and without licensing restrictions

- Based on Peter Suber's Open Access Overview
- (http://www.earlham.edu/~peters/fos/overview.htm)

Claimed Advantag

Open Source

- Allows for easier software maintenance, which is 75% of the typical software life cycle
- Most open source software is available free of monetary charge, making tools available for those who might not afford them
- With high availability of source code, software bugs in popular projects can be detected and fixed sooner

Open Access

- Possible increase in citations for open access works
- Making research widely available increases the rate of progress in academic fields
- Librarians hope that the movement will eventually result in lower journal costs

Popularization

Open Source

- Started by computer scientists with a background in academia
- Made widespread by hackers (computer professionals and hobbyists with high ideals)
- Marketed to Fortune 500 companies, and popularized after they began using the software

Open Access

- Started by academics with a background in computer science.
- Executed in a more organized, more complete fashion by physicists
- Awareness created by librarians
- Push carried on by academics

Enablement through Internet technology

- The popularity of open source computer software, and the opportunity for widespread, open access availability of research articles were both made possible through Internet, and especially World Wide Web technologies.

Naming

Open Source

- The term “open source” was coined by open source developer Eric Raymond and chosen at a software summit in December 1998 as a useful term for hackers to market the concept to others

Open Access

- I have not yet tracked down the origin of the term, but it appears to have been in wide use after the Budapest Open Access Initiative in December of 2001

Gift Economy/ Gift Culture

Open Source

- Open Source has been referred to as a gift economy, where software developers (or their sponsors) benefit the world by giving software away for free.

Open Access

- Traditional Journal publishing has been called a gift economy, but with some bitterness because journal publishers are believed to be the primary beneficiaries
- Open Access can shift the benefits of the gift economy from journal publishers to other academics

Reputation: A motivation for participation

Open Source

- Software developers and users gain reputation in the open source community by initiating or contributing projects
- According to Eric Raymond, this motivation has been underplayed because of the idealist nature of early founders

Open Access

- Academics gain reputation by publishing in academic journals, whether open access or closed access
- This has long been commonly accepted, especially with the notion that tenure-track academics must “publish-or-perish”

Peer Review

Open Source

- Review of work from other programmers before it is included in a project
- Continuing review of work from users and more programmers as the software becomes widely used and software bugs are discovered
- Not blind reviews

Open Access

- Follows typical models for peer review in academic publishing, including overall impact and merit of research processes and results
- After publication, other researchers may attempt to replicate or criticize the research results
- Sometimes blind or dual-blind reviews

Quality Perception

Open Source

- Several studies show that large open source projects have fewer bugs and security issues than traditional software
- Some non-technical users perceive open source software to be of low quality, because the user interface and documentation are often designed for other programmers
- Varies widely by project

Open Access

- At present, traditionally published journals in some fields may be perceived to be of higher quality than traditional journals. Established, leading journals tend to be traditionally published.
- Perceptions may adjust when more researchers begin publishing in open access journals, and when tenure committees consider the open access movement

Websites for Free and Open Source Software in Libraries

- EIFL-FOSS: http://www.eifl.net/foss
- FOSS4LIB: http://foss4lib.org

- LYRASIS, maintainer of the FOSS4LIB site, has also been hosting webinars about open source in libraries. Contact Peter.Murray@lyrasis.org for more information.

Examples of Open Source at VT Library

- Linux and BSD based operating systems on the servers
- Apache http web server
- LibX library toolbar
- DSpace, Postgresql database, and other software components that build VTechWorks, the institutional repository

Data Management @ DLA

What We Do

- Assist data management planning
- Develop repository and infrastructure
- Exemplary projects

Assist DMP

- “Data Management Planning for Research Grants”
  - VT Faculty Development Institute (FDI) workshop
  - VT Research Administrator Program
- ASERL Data policies: http://datapolicywatch.pbworks.com
- One-on-one consultation

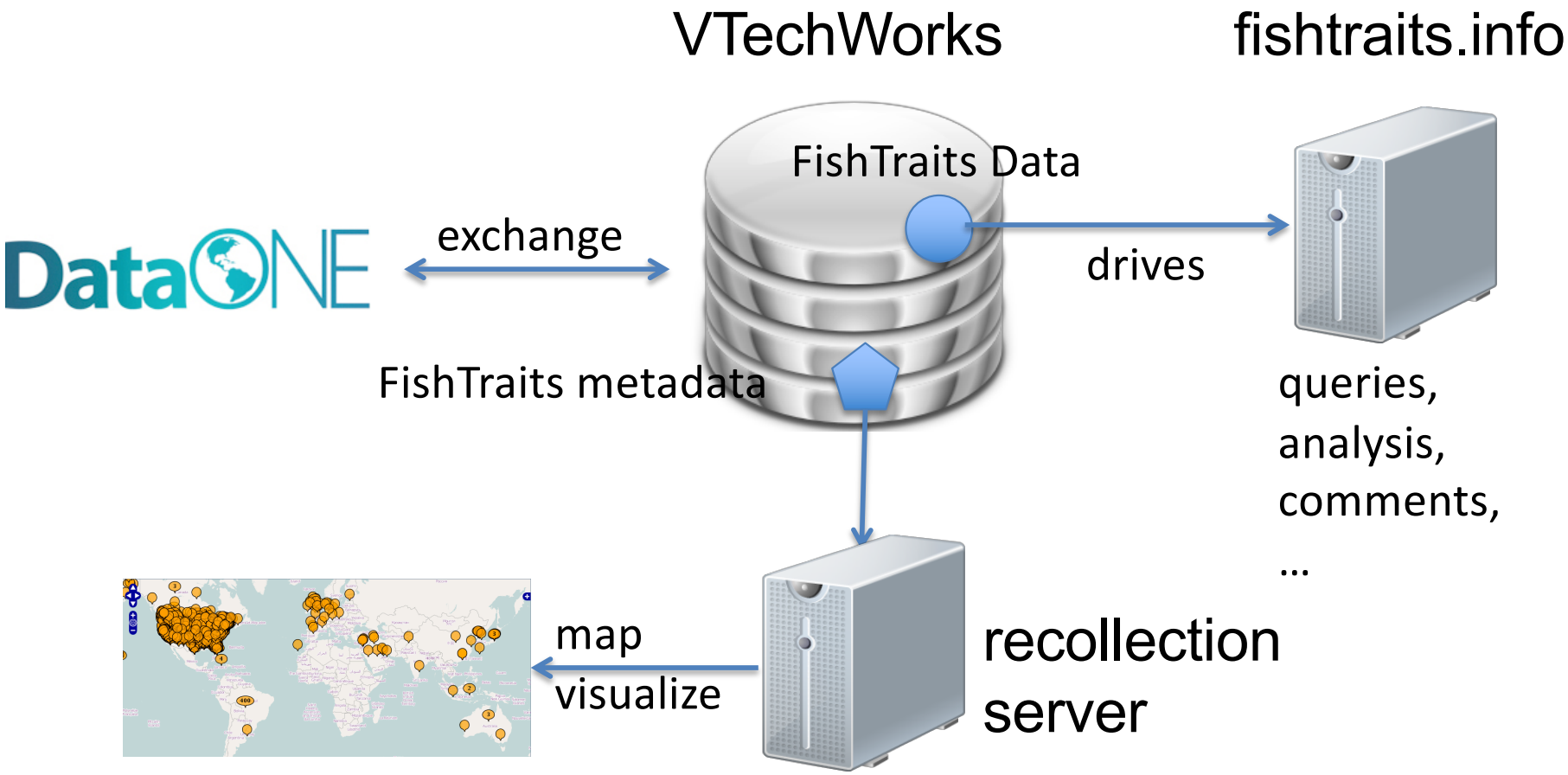
A One-Size-Fits-All Repository?

- Data diversity
- Separation of concerns
- Core competencies of the IR
- Layering cake and linked data

Differentiate Storage Needs

- Local Storage
- Near Line Storage
- Cloud Storage

Exemplary Project



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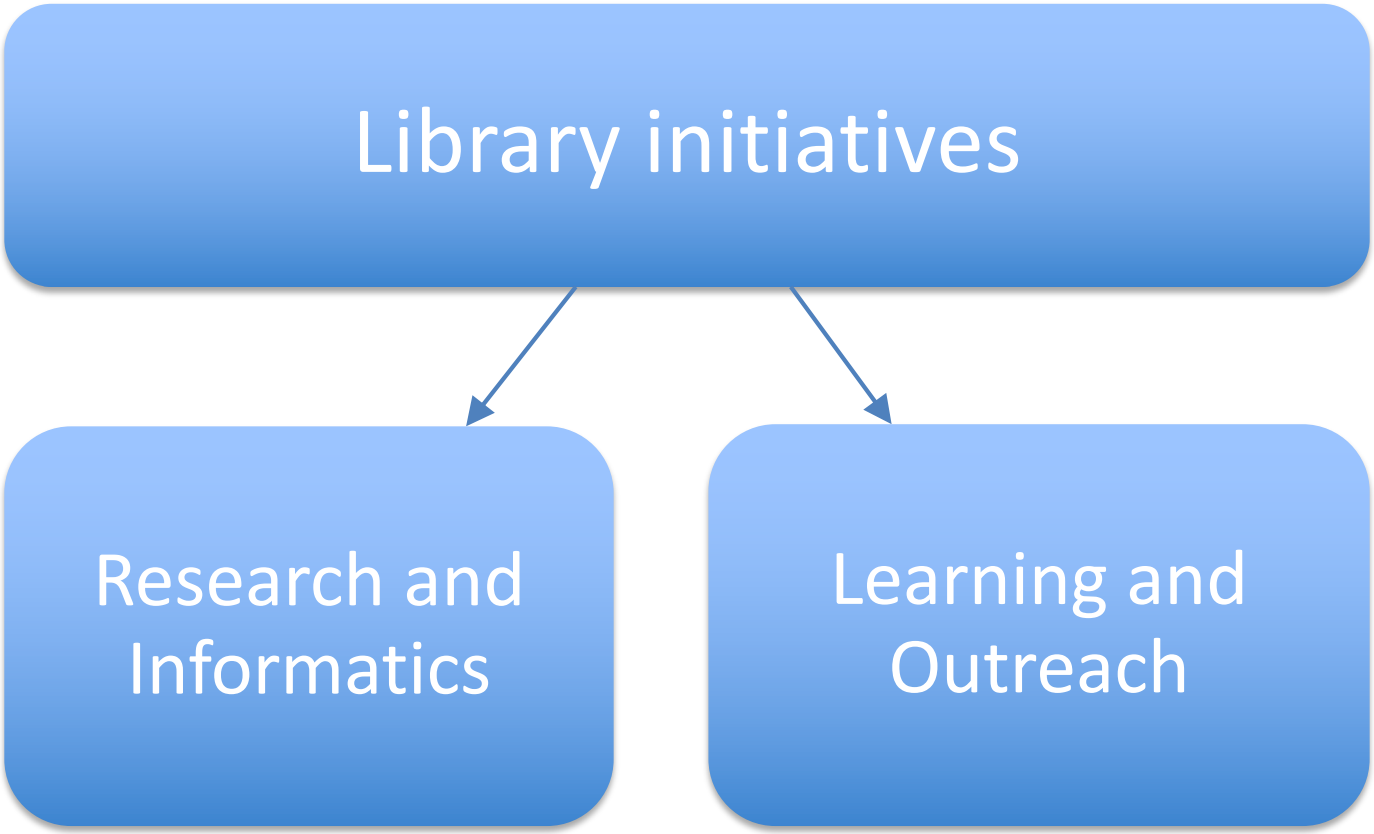

Articles
Data sets
Proceedings

Student journals
Student presentations
Final projects (coursework)

Browsing Faculty Archives by Title

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Or enter first few letters: Go

Sort by: title Order: ascending Results: 20 Update

Now showing items 1-20 of 49 Next Page

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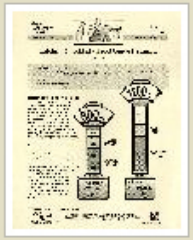
Author: Hertzler, Ann A.
Date: 1995

Title: Arts Voices: Middle School Students and the Relationships of the Arts to their Motivation and Self-Efficacy
Author: Moorefield-Lang, Heather M.
Date: 2010-01

Title: Calcium Checklist - Food Guide Pyramid
Author: Hertzler, Ann A.
Date: 1998



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Pl-slcon A GCATGCACAGATAACCATCTGCGGTGATAAATTATCTCTGGCGGTGTTGACATAAATACCACTGGCGGTTATAATGAGCACATCAGCAGGGTATGCAA
Pltet0-1 A GCATGCTCCCTATCAGTGATAGAGATTGACATCCCTATCAGTGATAGAGATACTGAGCACATCAGCAGGACGCACTGACC
Ptrc-2-rc B GTGTGAAATTGTTATCCGCTCACAATTCCACACATTATACGAGCCGGATGATTAATTGTCAACAGCTCATTTCAGCCATTCGATGG
Pl-slcon-rc B TTGCATACCCTGCTGATGTGCTCATTATAACCGCCAGTGGTATTTATGTCAACACCGCCAGAGATAATTTATCACCGCAGATGGTTATCTGTGCATGC
Pltet0-1-rc B GGTCAGTGCGTCCTGCTGATGTGCTCAGTATCTCTATCACTGATAGGGATGTCAATCTCTATCACTGATAGGGAGCATGC
tgPl-slcon-rc B GTCCTGCTGATGTGCTCATTATAACCGCCAGTGGTATTTATGTCAACACCGCCAGAGATAATTTATCACCGCAGATGGTTATCTGTGCATGC
B0034 C AAAGAGGAGAAA
B0030 C ATTAAAGAGGAGAAA
B0032 C TCACACAGGAAAG
A C AGGAGGAAAAAA
B C AGGAATTTAA
C C AGGAAACAGACC
D C AGGAAACCGGTTCG
E C AGGAAACCGGTT
F C AGGACGGTTCG
G C AGGAAAGCCCTCG
H C AGGACGGCCGG
Arc D TTTTTTCCTCCT
Brc D TTAAATTCCT
Crc D GGTCTGTTTCCT
Drc D CGAACCGGTTTCCT
Erc D AACCGGTTTCCT
Frc D CGAACCGTCCT
Grc D CGAGGCCTTTCCT
Hrc D CCGGCCGTCCT
E1010 E ATGGCTTCCTCCGAAGACGTTATCAAAGAGTTCATGCGTTTCAAAGTTCGTATGGAAGGTTCCGTTAACGGTCACGAGTTCGAAATCGAAGGTGAAGGTGAAGGTCGTCCGTACGAAGGTACCCAGACCGCTAAACTGAAAGTTACCAAAGG
J45004 E ATGGAAGTTGTTGAAGTTCTTCACATGAATGGAGGAAATGGAGACAGTAGCTATGCAAACAATTCTTTGGTTCAGCAAAAGGTGATTCTCATGACAAAGCCAATAACTGAGCAAGCCATGATTGATCTCTACAGCAGCCTCTTTCCAGAAAC
E0020 E ATGGTGAGCAAGGGCGAGGAGCTGTTCACCGGGGTGGTGCCCATCCTGGTCGAGCTGGACGGCGACGTAAACGGCCACAAGTTCAGCGTGTCCGGCGAGGGCGAGGGCGATGCCACCTACGGCAAGCTGACCCTGAAGTTCATCTGCACCAC
E0030 E ATGGTGAGCAAGGGCGAGGAGCTGTTCACCGGGGTGGTGCCCATCCTGGTCGAGCTGGACGGCGACGTAAACGGCCACAAGTTCAGCGTGTCCGGCGAGGGCGAGGGCGATGCCACCTACGGCAAGCTGACCCTGAAGTTCATCTGCACCAC
J36801 E GTGCTCTCGCAAATTGCAATCTGCATTTGGGTGGAATCGACGGCAATTTTGCAGGATTGCCAGCGGGCGCTGTCGGCCGATCGCTATCAACTCCAAGTCTGTGAGTCTGGCGAAATGCTCTTGGAGTATGCCCAAACCCATCGTGACCAAATC
J36804 E ATGACTTCCGCTGAGATGACTAGCCCTAATAATAATTCTGAGCACCAAGCCATCGCTAAGATGCGCACGATGATTGAAGGCTTTGATGATATTAGTCATGGCGGTCTTCCAATCGGGCGATCGACCCTCGTTAGTGGTACTTCAGGAACCGG
J31007 E ATGAAATCTAACAATGCGCTCATCGTCATCCTCGGCACCGTCACCCTGGATGCTGTAGGCATAGGCTTGGTTATGCCGGTACTGCCGGGCCTCTTGCGGGATATCGTCCATTCCGACAGCATCGCCAGTCACTATGGCGTGCTGCTAGCGCTA
J52008 E ATGGCTTCCAAGGTGTACGACCCCGAGCAACGCAAACGCATGATCACTGGGCCTCAGTGGTGGGCTCGCTGCAAGCAAATGAACGTGCTGGACTCCTTCATCAACTACTATGATTCCGAGAAGCACGCCGAGAACGCCGTGATTTTTCTGCA
E0040 E ATGCGTAAAGGAGAAGAACTTTTCACTGGAGTTGTCCCAATTCTTGTTGAATTAGATGGTGATGTTAATGGGCACAAATTTTCTGTCAGTGGAGAGGGTGAAGGTGATGCAACATACGGAAAACTTACCCTTAAATTTATTTGCACTACTGG
E0032 E ATGGTGAGCAAGGGCGAGGAGCTGTTCACCGGGGTGGTGCCCATCCTGGTCGAGCTGGACGGCGACGTAAACGGCCACAAGTTCAGCGTGTCCGGCGAGGGCGAGGGCGATGCCACCTACGGCAAGCTGACCCTGAAGTTCATCTGCACCAC
E0022 E ATGGTGAGCAAGGGCGAGGAGCTGTTCACCGGGGTGGTGCCCATCCTGGTCGAGCTGGACGGCGACGTAAACGGCCACAAGTTCAGCGTGTCCGGCGAGGGCGAGGGCGATGCCACCTACGGCAAGCTGACCCTGAAGTTCATCTGCACCAC
J06501 E ATGGTGAATGTGAAACCAGTAACGTTATACGATGTCGCAGAGTATGCCGGTGTCTCTTATCAGACCGTTTCCCGCGTGGTGAACCAGGCCAGCCACGTTTCTGCGAAAACGCGGGAAAAAGTGGAAGCGGCGATGGCGGAGCTGAATTACATT
LacI E ATGGTGAATGTGAAACCAGTAACGTTATACGATGTCGCAGAGTATGCCGGTGTCTCTTATCAGACCGTTTCCCGCGTGGTGAACCAGGCCAGCCACGTTTCTGCGAAAACGCGGGAAAAAGTGGAAGCGGCGATGGCGGAGCTGAATTACATT
GFPmut3 E ATGCGTAAAGGAGAAGAACTTTTCACTGGAGTTGTCCCAATTCTTGTTGAATTAGATGGTGATGTTAATGGGCACAAATTTTCTGTCAGTGGAGAGGGTGAAGGTGATGCAACATACGGAAAACTTACCCTTAAATTTATTTGCACTACTGG
cIts E ATGAGCACAAAAAAGAAACCATTAACACAAGAGCAGCTTGAGGACGCACGTCGCCTTAAAGCAATTTATGAAAAAAAGAAAAATGAACTTGGCTTATCCCAGGAATCTGTCGCAGACAAGATGGGGATGGGGCAGTCAGGCGTTGGTGCTTTA
TetR E ATGTCTAGATTAGATAAAAGTAAAGTGATTAACAGCGCATTAGAGCTGCTTAATGAGGTCGGAATCGAAGGTTTAACAACCCGTAAACTCGCCCAGAAGCTAGGTGTAGAGCAGCCTACATTGTATTGGCATGTAAAAAATAAGCGGGCTTTG
tgGFPmut3 E ATGGGTACCATGAGTAAAGGAGAAGAACTTTTCACTGGAGTTGTCCCAATTCTTGTTGAATTAGATGGCGATGTTAATGGGCAAAAATTCTCTGTCAGTGGAGAGGGTGAAGGTGATGCAACATACGGAAAACTTACCCTTAAA
LacI-rc F TTAAGCTGCTAAAGCGTAGTTTTCGTCGTTTGCTGCCTGCCCGCTTTCCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTGCGTATTGGGCGCCAGGGTGGTTTTTCTTTTCACCAGTGA
GFPmut3-rc F TTATTTGTATAGTTCATCCATGCCATGTGTAATCCCAGCAGCTGTTACAAACTCAAGAAGGACCATGTGGTCTCTCTTTTCGTTGGGATCTTTCGAAAGGGCAGATTGTGTGGACAGGTAATGGTTGTCTGGTAAAAGGACAGGG
tgLacIrc F CCAGGGTGGTTTTTCTTTTCACCAGTGAGACGGGCAACAGCTGATTGCCCTTCACCGCCTGGCCCTGAGAGAGTTGCAGCAAGCGGTCCACGCTGGTTTGCCCCAGCAGGCGAAAATCCTGTTTGATGGTGGTTAACGGCGGGA
tgLacIrc2(117) F CCAGGGTGGTTTTTCTTTTCACCAGTGAGACGGGCAACAGCTGATTGCCCTTCACCGCCTGGCCCTGAGAGAGTTGCAGCAAGCGGTCCACGCTGGTTTGCCCCAGCAGGCGAAAATCCTGTTTGATGGTGGTTAACGGCGGGA
tgLacIrc3(132) F CCAGGGTGGTTTTTCTTTTCACCAGTGAGACGGGCAACAGCTGATTGCCCTTCACCGCCTGGCCCTGAGAGAGTTGCAGCAAGCGGTCCACGCTGGTTTGCCCCAGCAGGCGAAAATCCTGTTTGATGGTGGTTAACGGCGGGA
B0010 G CCAGGCATCAAATAAAACGAAAGGCTCAGTCGAAAGACTGGGCCTTTCGTTTTATCTGTTGTTTGTCGGTGAACGCTCTC
B0012 G TCACACTGGCTCACCTTCGGGTGGGCCTTTCTGCGTTTATA
B0016 G CTAGCATAACCCCTTGGGGCCTCTAAACGGGTCTTGAGGGGTTTTTTG
B0010rc H GAGAGCGTTCACCGACAAACAACAGATAAAACGAAAGGCCCAGTCTTTCGACTGAGCCTTTCGTTTTATTTGATGCCTGG
B0012rc H TATAAACGCAGAAAGGCCCACCCGAAGGTGAGCCAGTGTGA
B0015rc H TATAAACGCAGAAAGGCCCACCCGAAGGTGAGCCAGTGTGACTCTAGTAGAGAGCGTTCACCGACAAACAACAGATAAAACGAAAGGCCCAGTCTTTCGACTGAGCCTTTCGTTTTATTTGATGCCTGG
B0016rc H CAAAAAACCCCTCAAGACCCGTTTAGAGGCCCCAAGGGGTTATGCTAG
J23009 I CGGGCGGGCGGGCGGGCGGGATCCATAAAAAAAAAACCCAAAAGCAAGAGGTGATTCTAGTTAAAAAAAAAAAGCTTCCCGCCCGCCCGCCCGCCCG
antiswitch1 I CTTGCTCACCATCTAGTACCAGCATCGTCTTGATGCCCTTGGCAGCTAGATGGTA
antiswitch2 I CTTGCTCACCATCTACCACTAGATGGTGAGCAAGGATACCAGCATCGTCTTGATGCCCTTGGCAGCCTTGCTCAA
antiswitch4 I CTTGCTCACCATCTACCACTAGATGGTGAGCAAGGATACCAGCATCGTCTTGATGCCCTTGGCAGCCTTGCTCA
J23009rc J GGGCGGGCGGGCGGGAAGCTTTTTTTTTTTAACTAGAATCACCTCTTGCTTTTGGGTTTTTTTTTTATGGATCCCGCCCGCCCGCCCGCCCG
antiswitch1rc J TACCATCTAGCTGCCAAGGGCATCAAGACGATGCTGGTACTAGATGGTGAGCAAG
antiswitch2rc J TTGAGCAAGGCTGCCAAGGGCATCAAGACGATGCTGGTATCCTTGCTCACCATCTAGTGGTAGATGGTGAGCAAG
antiswitch4rc J TGAGCAAGGCTGCCAAGGGCATCAAGACGATGCTGGTATCCTTGCTCACCATCTAGTGGTAGATGGTGAGCAAG
harmmerheadRiobozyme#1 K GGATCCCAAGCTGATGAGTCCGTGAGGACGAAACGGTAGGACTTCCTACCGTC
harmmerheadRiobozyme#2 K CCGGAGTCGACTCCGGTCTGATGAGTCCGTGAGGACGAAACCATCTCGAG
harmmerheadRiobozyme#1rc L GACGGTAGGAAGTCCTACCGTTTCGTCCTCACGGACTCATCAGCTTGGGATCC
harmmerheadRiobozyme#2rc L CTCGAGATGGTTTCGTCCTCACGGACTCATCAGACCGGAGTCGACTCCGG
c04+e01 M AGGAGGAAAAAAATGATGGCTTCCTCCGAAGACGTTATCAAAGAGTTCATGCGTTTCAAAGTTCGTATGGAAGGTTCCGTTAACGGTCACGAGTTCGAAATCGAAGGTGAAGGTGAAGGTCGTCCGTACGAAGGTACCCAGACCGCTAAACTG
(c04+e01)rev N TTATTAAGCACCGGTGGAGTGACGACCTTCAGCACGTTCGTACTGTTCAACGATGGTGTAGTCTTCGTTGTGGGAGGTGATGTCCAGTTTGATGTCGGTTTTGTAAGCACCCGGCAGCTGAACCGGTTTTTTAGCCATGTAGGTG
J44000 O TTATCAAAAACCATGGTTTTTGATAA
I13452 O GAATTAGGTCTTCGAATCACAAAGATTAGTCACACGCGATCCATTGCAGTGG
tgLinker1 O CCACTAAACCCACAGTACCCAATGATCCCATGCAATGAGAGTTGTTCCGTTGTGGGGAAAGTTATCGCTAGTCAGTGGCCTGAAGAGACGTTTGGCTGACTGCAGCATAAATAACCCCGCTCTTACACATTCCAGCCCTGAAAA
tgLinker2 O AAGCTAGCTTGGCTGTTTTGGCGGATGAGAGAAGATTTTCAGCCTGATACAGATTAAATCAGAACGCAGAAGCGGTCTGATAAAACAGAATTTGCCTGGCGGCAGTAGCGCGGTGGTCCCACCTGACCCCATGCCGAACTCAGAA
tgLinker3 O CTGAGTAGGACAAATCCGCCCGGGAGCGGATTTGAACGTTGCGAAGCAACGGCCCGGAGGGTGGCGGGCAGGACGCCCGCCATAAACTGCCAGGCATCAAATTAAGCAGAAGGCCATCCTGACGGATGGCCTTTTTGCGTTTCTAC

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Author: Kazmer, Christina; Mohan, Sumedha; Tanner, Sarah; Miracle, Michael; Emrani, Darius; Angara, Pranav; Mussey, Andrew; Craley, Jeff; Bales, Z. Nathan; Vislobokov, Valeriy; Gloe, Katie; Emrani, Darius; Kirchhoff, Allan; Roth, Travis; Hussain, Fred; Bishop, Daniel; Nystrom, Lynn
Date: 2012-05-16

Title: Engineers' Forum: Februrary 2012
Author: Mohan, Sumedha; Pfeifer, Taylor Evan; Merenda, Coleman; Gomes, Alex; Dassira, Mary; Eckenfels, Katherine; Simms, Mia; Mussey, Andrew; Freeman, Julia; Vislobokov, Valeriy; Mousam, Aneela; Sorenson, Kristin; Nelson, Avery; Dowdle, Matthew; Nystrom, Lynn
Date: 2012-02

Title: Engineers' Forum: November 2011
Author: Mousam, Aneela; Sorenson, Kristin; Nelson, Avery; Dowdle, Matthew; Richardson Austin, Clarke; Pucci, Joseph; Vislobokov, Valeriy
Date: 2011-11

Title: Engineers' Forum: September 2011
Author: Mohan, Sumedha; Vislobokov, Valeriy; Eckenfels, Katherine; Dassira, Mary; Angara, Pranav; Mussey, Andrew; Gomez, Alex; Venkat, Aishwarya; Nystrom, Lynn; Mackay, Stevem
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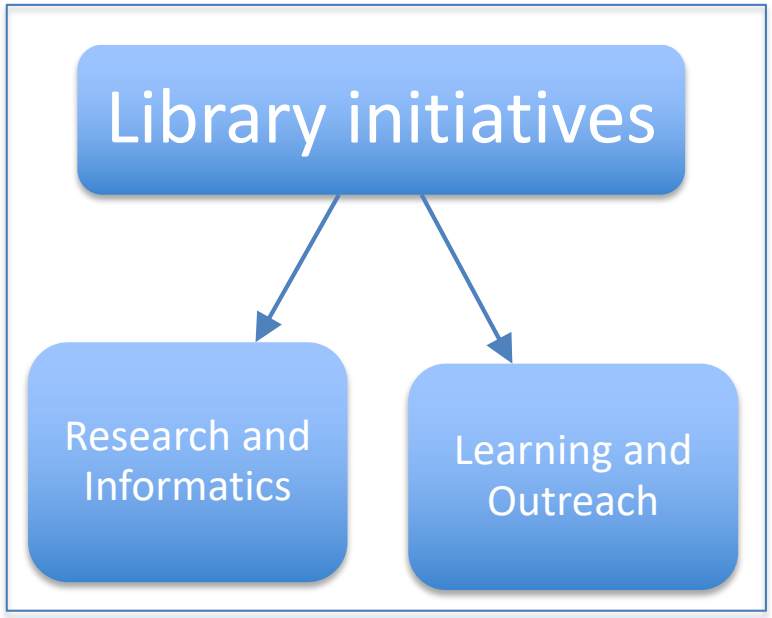
Title: Boy Scout Medical Record System for Blue Ridge Mountain Council
Author: Kurlak, John; Whelan, Pat; Greer, Zack; De La Barra, Mauricio
Date: 2012-05-03

Title: CS Seminar Lecture Series
Author: Parton, Eric; Zehr, David; Wellington, Jake
Date: 2012-05-04

Title: Disaster Video Gallery Project
Author: Fesseha, ZeleAlem
Date: 2012-05-10

Title: FFMPEG on the IBM Cloud
Author: Ishairzay, Rishi; De, Puloma; Hwang, Andrew
Date: 2012-05-06

VTechWorks Collections



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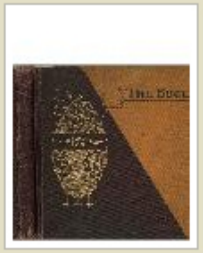
Author: Dabney, John C.; Woodson, Waddy P.; Kline, Leslie D.; Richardson, C. J.; Caldwell, A. C.; Wheeler, W. J.; Saunders, F.
Date: 1895

Title: The Bugle, 1896
Author: Lee, Claudius; Kerfoot, E. J.; Thompson, O. C.; Eskridge, A. P.; Martin, T. D.; Priddy, Lawrence; Burress, J. A.; Fentress, G. L.
Date: 1896

Title: The Bugle, 1897
Author: Hardy, Carl Earnest; Johns, Julian Luther; Guerrant, John Gibson; Priddy, Lawrence; Hurt, Henry Hicks
Date: 1897



Title: The Bugle, 1900
Author: Jacocks, Henry Morgan; Hardesty, James Robert; MacGregor, Scott Hutton
Date: 1900

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Title: 30 ways in 30 days to stretch your fruit & vegetable budget
Author: Unknown author
Date: 2012-05-03

Title: Can eating fruits and vegetables help people to manage their weight?
Author: Unknown author
Date: 2012-05-03

Title: CHAMPION: Commonwealth's Healthy Approach and Mobilization Plan for Inactivity, Obesity, and Nutrition
Author: Unknown author
Date: 2012-05-03

Title: Development and evaluation of the Healthy Eating Index-2005
Author: Guenther, Patricia M.; Reedy, Jill; Krebs-Smith, Susan M.; Reeve, Bryce B.; Basiotis, P. Peter
Date: 2007-11