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Cooperative Cataloging in Academic Libraries: From Mesopotamia to Metadata

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Cooperative Cataloging in Academic Libraries: From Mesopotamia to Metadata

Elizabeth A. Salt Cataloger/Metadata Librarian

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Cooperative Cataloging

- Cooperative Cataloging History
- OCLC and OhioLINK
- OPAL Consortium
- FRBR and RDA
- Digital Collections and Metadata Initiatives





Early Physical Collections

Mesopotamia (present day Iraq) Earliest known libraries are 4,000 years old Collections of carved stone tablets









Early European Print Collections

- Early books handwritten
- Moveable type and printing press invented in Europe about 1450
- Printed library book catalogs developed in 1600's
- No standardized cataloging rules or library cooperation
- Early library catalogs are "classed" (subject) catalogs only



Antonio Panizzi (1797-1879)

- British Museum Library curator (beginning in 1836)
- Developed author catalog
- Created 91 rules for cataloging (published 1841)
- Distinguished between a "work" and a "book"





Nineteenth Century

- Charles Jewett (1816-1868)
 - Developed cataloging code of 39 rules
 - Designed detailed subject index with multiple entries and cross references
 - Had idea for national union catalog
- Charles Cutter (1837-1903)
 - Developed cataloging code of 205 rules
 - Introduced dictionary catalog in order to interfile authors, titles, and subjects
 - Created Expansive Classification and Cutter Number Tables
- Melvil Dewey (1851-1931)
 - Helped write and later revise 1883 American Library Association cataloging code
 - Invented card catalog
 - Developed Dewey Decimal Classification System









Early Twentieth Century

- Limited cataloging cooperation in the United States before the 20th century
- America Library Association began to develop standardized cataloging code for American libraries (1900)
- Library Association of the United Kingdom joined this project (1902)
- Catalog Rules: Author and Title Entries (1908)
 First successful international cooperative cataloging project



Seymour Lubetzky (1898-2003)

- Librarian at Library of Congress and at University of California at Los Angeles (UCLA)
- Revised the 1908 American Library Association cataloging code
- Published Rules for Descriptive Cataloging in the Library of Congress (1949) and Cataloging Rules and Principles (1953)
- Emphasized distinction between a "work" and a "book"



RSIT

Late 20th and 21st Centuries

- Anglo-American Cataloging Rules (1967)
- 2nd edition of Anglo-American Cataloging Rules (called AACR2) (1978)
- Anglo-American Cataloging Rules revisions published (1988, 1998, 2002)
- New cataloging code called RDA (Resource Description and Access) currently under development



OCLC - Origins



- Online Computer Library Center
- Began operations in 1971
- Online union catalog originally containing holdings of 54 academic libraries from state of Ohio
- Otterbein University library was an original member of OCLC

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OCLC – Cataloging

- Facilitates sharing of records for use among its members through "copy cataloging"
- Permits member libraries to add new records to the OCLC union catalog through "original cataloging"
- Uses MARC (Machine-Readable Cataloging) encoding standards
 - Accepted as international standard digital bibliographic format (1973)
 - MARC 21 adopted (1999)



OCLC - International Collaboration

- 72,000 member libraries in 70 countries
- Provides many other library services besides cataloging
- WorldCat is OCLC's publicly viewable online catalog





OhioLINK

 Maintains online union catalog including holdings of 89 member libraries from the state of Ohio

OhioUN

- Includes nearly all academic libraries, plus the State Library of Ohio and two large public libraries
- Includes 48 million item records
- Otterbein University library is a member of OhioLINK



Locations of OhioLINK libraries





Ann Arbor

Detroit



OhioLINK Services

- Shared union catalog
- CollaboraTeS program



- OhioLINK Electronic Book Center
- OhioLINK Electronic Journal Center
- OhioLINK Electronic Thesis/Dissertation Center
- OhioLINK Digital Media Center
- OhioLINK Digital Resource Commons





OPAL Consortium

- Ohio Private Academic Libraries Consortium
- Began operations in 1998 with 17 member libraries
- Currently includes 24 small private university libraries
- Members share single online catalog and server
- Otterbein University library is an original member



Locations of OPAL Libraries



Opal Consortium members:

Antioch College Athenaeum of Ohio **Baldwin-Wallace** College **Bluffton University** Columbus College of Art and Design **Defiance** College Franciscan University Heidelberg University Lourdes College Malone University Mercy College Methodist Theological School in Ohio Mount College College of Nursing Muskingum University Otterbein University Pontifical College Josephinum Tiffin University **Trinity Lutheran Seminary** University of Findlay University of Mount Union **Urbana University** Walsh University Wilberforce University Wilmington College



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OPAL Mission / Vision Statement

OPAL Mission/Vision Statement

Statement of Identity

OPAL is a consortium of libraries at independent institutions of higher education in the State of Ohio. The OPAL consortium is administered by OHIONET. OPAL libraries are members of OhioLINK.

Mission Statement

OPAL strengthens and promotes member libraries through financially responsible collaboration and innovation.

Vision Statement

OPAL libraries work together to provide and develop services that respond to identified user needs through:

- a shared online catalog
- ongoing strategic planning
- collaborative work in OPAL groups and committees
- staff development and training
- cooperative purchasing opportunities to enrich collections
- quality, cost-effective innovations in technology
- end user resource sharing



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OPAL Consortium - Structure

- Four OPAL administrators
- Committee structure for collaboration between members developed (1998)
- Initiation of strategic plan (2002)
- Greater alignment with standards of national and regional library organizations (2008 – present)
- Current catalog has over one million titles and three million individual item records



OPAL Consortium - Benefits

- Diversity of member libraries
- Cost effectiveness
 - Shared server
 - Shared purchasing power
 - Library resources
 - Materials
 - Supplies
 - Knowledge
- Cooperation and collaboration opportunities





OPAL Cataloging Committee

- Cataloging Committee formed (1999)
- Authority control outsourced to Library Technologies, Inc. (LTI) (1999)
- OPAL Cataloging Standards and Procedures Manual (2003)
- Uses multiple standard classification systems and subject heading schemes



OPAL Cataloging Committee Web Page

About Calendar Catalog Groups Cataloging Circulation Directors Executive Committee User Services Interest Groups Task Forces Staff Directory Resources & Support 2011 Conference

MOPAL

Ohio Private Academic Libraries

Home » Groups » Cataloging

Cataloging

Committee Resources

- <u>Committee Bylaws</u>
- <u>Committee Highlights</u>
- Meeting Documents
- <u>Standards and Procedures</u>
 <u>Manual</u>
- OPAL Cataloging Listserv » opalcat

Miscellaneous

- 2004 Spring IUG Report
- Unlinked Headings Report
- <u>Reverse Chronological Sort Procedure</u>

Additional Resources

search

 (\mathbf{b})

- <u>Committee Roster</u>
- Committee Guidelines
- OhioLINK OStaff Page



OPAL Cataloging Committee Objective

"The Cataloging Committee is responsible for establishing and maintaining standards, policies, and procedures that ensure high quality bibliographic records in the OPAL online catalog. The committee sets policies for record selection, input, and deletion, in accord with OhioLINK directives, and plans and implements modifications of catalog records in response to changes in accepted cataloging practices and system enhancements. Policies and procedures are developed in consultation with the **Ohionet Director of Consortia Services and are published** and maintained in an online cataloging manual."

(from OPAL Cataloging Committee By-Laws)



OTTERBEIN

OPAL Catalog Bibliographic Record

	KEYWORD	nursing	All OPAL Libraries	Search
		8809 results found. Sor	ted by relevance <u>date</u> <u>title</u> .	
		Previous	Next 🌩	
TITLE	Current issues in <mark>nu</mark>	ursing.		
IMPRINT	St. Louis, Mo. : Most	ov Elsevier, c2011.		
EDITION		Perle Slavik Cowen, Sue Moorhea	d	
LOCATION	our cury [curcurby]	CALL #	STATUS	MESSAGE
FRANCISCAN 2ND FL	OOR BOOK	RT63 .C87 2011	AVAILABLE	MESSAGE
LOURDES STACKS		610.73 C73 2011	AVAILABLE	
MTCARMELCOLLEGE	MAIN COLL	WY 16 C976 2011	AVAILABLE	LOCAL CIRC ONLY
CONTENTS		ical references and index. m a variety of roles Changing ed		
CONTENTS	Health care systems	m a variety of roles Changing ed and practice Health care organi clusiveness Ethical, legal, and so	zation and finance Professional	

OPAL Millennium MARC Record

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	MARC	003	OCoLC =
	MARC	005	20100325112852.0
Rapid Update	MARC LC CARD	008 # 010	091208s2011 moua b 001 0 eng
	MARC	019	2009051286 441136334
	ISBN/ISSN		9780323065719 (pbk.: alk. paper)
Country Limber	ISBN/ISSN		0323065716 (pbk. : alk. paper)
Create Lists	MARC	035	(OCoLC)477051879 z(OCoLC)441136334
	MARC	040	DNLM/DLCjcDLCjdBTCTAjdNLMjdC#PjdYDXCPjdSTJ
	MARC	042	pcc
Delete Records	MARC	049 050 0 0	HHMC RT63[b.C87 2011
~	MARC		
	MARC		610.73/222
	TITLE		Current issues in nursing.
Delete Items	EDITION	250	8th ed. / b[edited by] Perle Slavik Cowen, Sue Moorhead.
, 👝 🛛	IMPRINT	260	St. Louis, Mo. : bMosby Elsevier, cc2011.
	DESCRIPT	. 300	xxiv, 837 p. : bill. ; c26 cm.
	NOTE	504	Includes bibliographical references and index.
Create Lists	NOTE	505 0	Defining nursing from a variety of roles Changing education Changing practice
~			Information technology practices Health care systems and practice Health care organization and finance Professional challenges, collaboration, and conflict Cultural
			inclusiveness Ethica, legal, and social issues Violence prevention and care : nursing's
-	-		role Global nursing considerations.
Delete Records	SUBJECT	650 0	Nursing.
	SUBJECT		Nursing.
	SUBJECT		Ethics, Nursing.
Delete Items	SUBJECT		Nurse's Role.
	SUBJECT ALT NAM		Nursing Care. Cowen, Perle Slavik. Moorhead, Sue.
- .	ALT NAM		Moorhead, Sue.

OPAL Millennium Summary and Item Records

Summary Holdings Record

Item Record

Millennium Cataloging · OPAL - OHIO PRIVATE ACADEMIC LIBRARIES · Elizabeth Salt · b32009604	Millennium Cataloging - OPAL - OHIO PRIVATE ACADEMIC LIBRARIES - Elizabeth Salt - i65156225					
Eile Edit View Go Tools Admin Reports Help	File Edit View Go Tools Admin Reports Help					
Edit Functions	Edit Functions					
b32009604	b32009604					
b32009604 TITLE Current issues in nursing.						
Millennum -	Millennium TITLE Current issues in nursing.					
LOCATIONS fr , lc , mc , mcw	LOCATIONS fr , lc , mc , mc w					
E						
Catalog	Catalog					
Giobal Update Summary Record i65156225 0 Item-Level Holds 0 Bib-Level Holds	Global Update Summary Record i65156225 0 Item-Level Holds 0 Bib-Level Holds					
	65156225 Last Updated: 01-19-2011 Created: 01-19-2011 Revisions: 1 (Not In Scope)					
# Record Number LOCATION BARCODE CALL# VOLUME Rapid Update I 165156225 frbk 33634003431613 RT63.C87 2011	Rapid Update COPY # 1 INVDA LOCATION frbk FRANCISCAN 2ND FLOOR BOOM					
2 65062476 lett 30370100600314 610.767.233.011	ICODE1 0 IN LOC 0 LOANRULE 0					
2 00000470 Postk 000000014 0101 0 (10 2011) 3 i61971649 mcwma 37930001440242 WY 16 C976 2011	ICODE2 - DISLOC/DISCENT # RENEWALS 0 STATUS - AVAILABLE					
Create Lists	ITYPE 12 Book (OL21) # OVERDUE 0 INTL USE 0 Create Lists PRICE \$0.00 ODUE DATE COPY USE 0					
	UTILOC 0 RECAL DATE OPACMSG -					
Delete Records	Delete Records DUE DATE TOT CHKOUT 0 YTDCIRC 0					
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Headings Rpts 🐱 i65156225 Outside of scope 3 Attached Item Records	Headings Rpts 🚽 165156225 Not checked out Edit Mode (OUTSIDE OF 🕨					
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Cooperative Cataloging in OPAL

Catalogers must:

- Attain similar level of shared expertise
- Agree to follow the OPAL Cataloging Standards and Procedures Manual
- Have support from library directors
- Have open and accessible communication
- Be involved in both institutional cooperation and individual collaboration



New Cataloging Challenges

- Electronic formats
- FRBR (Functional Requirements for Bibliographic Records)
- RDA (Resource Description and Access)
- Digital collections and metadata



Electronic Formats

- Prevalent trend is release of electronic-only materials
- AACR2 Cataloging Rules
 - Designed for cataloging of print materials
 - Not well suited for the description of electronic materials





FRBR – Theoretical Model

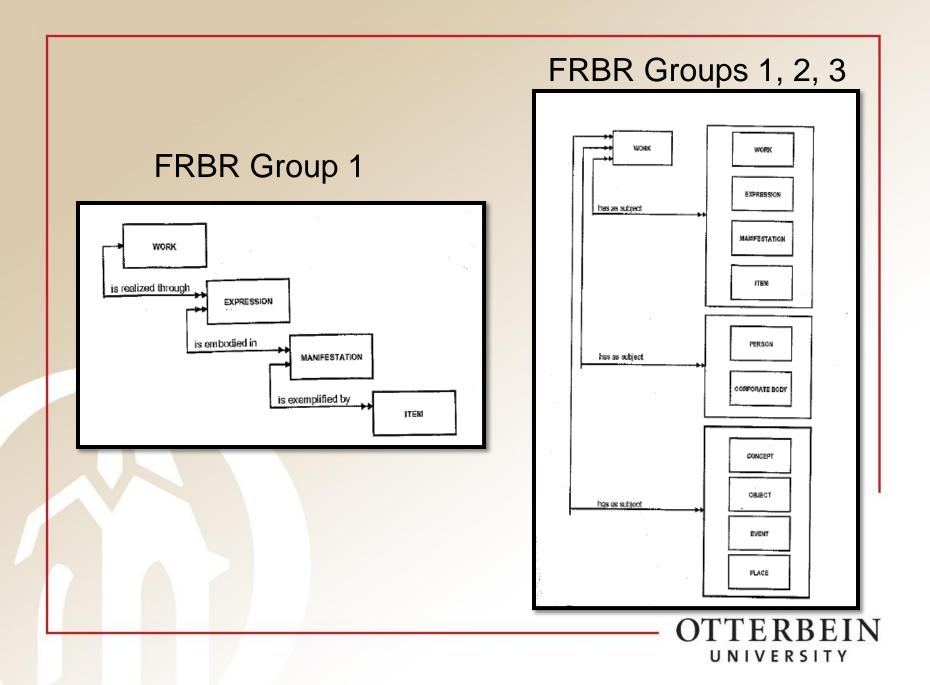
- Functional Requirements for Bibliographic Records
- FRBR model is basis for new RDA (Resource Description and Access) cataloging code
- Also basis for descriptive metadata creation
- Clearly transitions from abstract to concrete



FRBR – Three Groups

- Group 1 Products of intellectual or artistic creation
 - Work, expression, manifestation, item
- Group 2 Responsibility for content and production of Group 1 entities
 - Person or corporate body
 - Group 3 Subjects of Group 1 entities
 - Concept, object, event, place





RDA - Overview

- RDA (Resource Description and Access):
 - New cataloging code
 - Derived from FRBR theoretical principles
 - Loosely modeled after AACR2
- FRAD (Functional Requirements for Authority Data)
 - Authority control plan for RDA based upon FRAD
- Designed for use by the international library community

RDA - Development

- Designed for cataloging of print items and items in new media and electronic formats
- Incorporates metadata principles
- Goes back to Panizzi's and Lubetzky's "work" vs. "book" idea
- Can use with MARC21 encoding standards or with any standardized metadata format
- RDA currently in final testing stages



AACR2 and RDA MARC Records

	MARC Leade	RC Leader ######cam 22##### a 4500		h 0 0	b33259318 Last Updated: 05-23-2011 Created: 03-29-2011 Revisions: 3				
	BIB UTIL #				3259318 ARC Leade		st U	Ipdated: 05-23-2011 Created: 03-29-2011 Revisions: 3	
	MARC	003		OCoLC			001		682921018
							003		OCoLC
	MARC	005		20110523170203.0			005		20110523163918.0
	MARC	800		101119s2011 caua b 001 0 eng		ARC	008		101119t20112011caua b 001 0 eng
	LC CARD #	010		2010048782	LC	C CARD #	010		2010048782
	MARC	019		656160497	MA	ARC	019		656160497
	ISBN/ISSN	020		9781598847024 (pbk. : acid-free paper)	ISE	BNASSN	020		9781598847024 (pbk. : acid-free paper)
	ISBN/ISSN	020		1598847023 (pbk. : acid-free paper)	ISE	BNASSN	020		1598847023 (pbk. : acid-free paper)
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				Elaine R. Sanchez, editor ; foreword by Michael Gorman.			240	J	Santa Barbara, California: bLibraries Unlimited, c[2011], ©2011.
-	ADD TITLE	246	3	Conversations with catalogers in the twenty-first century			300		xii, 283 pages : billustrations ; c24 cm.
	IMPRINT	260		Santa Barbara, California : bLibraries Unlimited, cc2011.			336		text[2rdacontent
	DESCRIPT.	300		xii, 283 p : bill. ; c24 cm.	DE	SCRIPT.	337		unmediated 2rdamedia 🐂
	SERIES	490	1	Libraries Unlimited library management collection	DE	SCRIPT.	338		volume 2rdacarrier
	NOTE	504	1	Includes bibliographical references and index.	SE	RIES	490	1	Libraries Unlimited library management collection
	SUBJECT	650		CatalogingixHistoryly21st century.	NO	DTE	504		Includes bibliographical references and index.
							650	0	Cataloging xHistory y21st century.
		700		Sanchez, Elaine R.			700		Sanchez, Elaine R.
1	SERIES	830	0	Libraries Unlimited library management collection.	SE	RIES	830	0	Libraries Unlimited library management collection.
	_								



Metadata and Digital Collections

- Digital collections include:
 - Scanned items
 - Electronically created items
- Metadata is data used to describe a resource or an object
 - Increasingly used to describe items in digitized collections



Metadata and Cataloging - Similarities

- Share common goal of describing data
- Use similar descriptive elements (author/creator, title, etc.)
- Use controlled vocabularies and standardized rules to assure that data creation is consistent



Metadata and Cataloging - Differences

- Metadata must be created based completely on the presence of a digital image
- Cataloging only allows for one level of description while metadata allows for multiple levels
- Metadata standards are simpler and more flexible



Dublin Core Metadata Initiative

- Metadata format designed to provide standardized bibliographic description for electronic resources
- Most accepted metadata format used by libraries cataloging digital collections in the United States
- Consists of 15 basic elements used to aid in description and retrieval of electronic items
- No defined order to Dublin Core metadata elements
- All elements are optional and repeatable



Dublin Core – MARC Comparison

Dublin Core element	MARC fields			
Title	245			
Creator	100, 110, 111, 700, 710, 711, 720			
Subject	600, 610, 611, 630, 650, 653			
Description	500 – 599, except 506, 530, 540, 546			
Contributor				
Publisher	260 \$a \$b			
Date	260 \$c			
Туре	Leader 06, Leader 07, 655			
Format	856 \$q			
Identifier	856 \$u			
Source	786 \$o \$t			
Language	008/35-37, 546			
Relation	530, 760-787 \$o \$t			
Coverage	651, 752			
Rights	506, 540			

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ОТ

Otterbein Metadata Example

dc.identifier	Garst Otterbein History
dc.creator.author	Garst, Henry
dc.title	Otterbein University, 1847-1907
dc.publisher	United Brethren Publishing House
dc.date.created	1907
dc.date.digitized	2011-04-29
dc.coverage.temporal	1847-1907
dc.coverage.spatial	Westerville (Ohio)
dc.description	History of Otterbein University from 1847 to 1907
dc.language.iso	en_US
dc.publisher.digital	Otterbein University
dc.equipment.digitizing	Hewlett Packard Scanjet 3800
dc. relation.is part of	Otterbein University Archives
dc.subject.lcsh	Otterbein University
dc.subject.lcsh	Church of the United Brethren in Christ (1800-1889)—Education
dc.identifier.url	http://drcotter.test.ohiolink.edu/handle/123456789/4
dc.type	Book
dc. contributor.institution	Otterbein University
dc.contributor.repository	Courtright Memorial Library, Otterbein University



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OhioLINK DRC

- Digital Resource Commons
 - Digital library maintained by OhioLINK
 - Freely accessible statewide and beyond
 - Digital materials can be contributed by any OhioLINK member library
 - Uses Dublin Core for creation of metadata
 - Metadata entered into Excel spreadsheet and uploaded into Digital Resource Commons using XML (Extensible Markup Language)



DRC – Home Screen

OhioLINK **Digital Resource Commons** DRC Home About Contact a Librarian DRC Home Search DRC Ohio campuses are treasure troves of knowledge, but valuable resources Go are often hidden. The Ohio Digital Resource Commons (DRC) provides a robust, statewide platform for saving, discovering and sharing-free of Advanced Search charge—the instructional, research, historic and creative materials produced by the University System of Ohio and Ohio's private colleges. To Browse find out more, you can read the FAQ, add your institution to the project All of DRC by sending us email, or visit our development environment. <u>Communities</u> & Collections Visit DRC member Sites: By Issue Date Authors Core - Wright State University Bowling Green State University Titles Southern State Community College The Digital Archive of Literacy Subjects Narratives By Series University of Toledo Marietta College Knowledge Bank - Ohio State Youngstown State University Oberlin Digital Commons University My Account Scholarly Commons at Miami University of Cincinnati Login University Kent State University <u>Register</u> Wilmington College Cleveland State University Digital Space @ Xavier Ohio Wesleyan University Kenyon College Search DRC Enter some text in the box below to search DRC.

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Go

DRC –	Search	Screen
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Browse All of DRC • Communities & Collections • By Issue Date • Authors • Titles • Subjects My Account Login	About Acaden	nics Future Students	Alumni & Friends	Make a l Current Students	iving. Make a life. Ma Cincinnati Branches	ke a difference. Athletics
 Advanced Search Browse All of DRC Communities & Collections By Issue Date Authors Subjects My Account Login Register Oblications Both of DRC Digital Resource Commons (DRC), an initiative of OhioLINK and its member libraries. The DRC is a service that collects, preserves, and distributes digital material. Repositories are important tools for preserving an organization's legacy and for providing access to unique collections; they facilitate digital preservation and scholarly communication. Description Descr	DRC Home					
Select a community to browse its collections.	Advanced Search Browse All of DRC • Communities & Collections • By Issue Date • Authors • Titles	Welcome to the Ohic libraries. The DRC is are important tools f collections; they faci Search E Enter some text in th	Digital Resource Cor a service that collect or preserving an orga litate digital preservat ORC e box below to search Go	nmons (DRC), an ini s, preserves, and dis nization's legacy and tion and scholarly co h DRC.	tiative of OhioLINK and stributes digital materia for providing access to	its member I. Repositories
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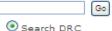
DRC – Search Results

Advanced Search	Search	
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 Communities & Collections 	Full Text Search:	
 By Issue Date Authors Titles 	Wilmington History	
 Subjects 	Results/page 10 💙 Sort items by relevance 💌 in order descending	~
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Login Register	Your query "Wilmington History" produced 47 result(s).	
2	Search Results for Community: Wilmington College Archives	
	Now showing items 1-10 of 47 Ne	ext Page
	1 2 3 45	
	Communities or Collections matching your query Wilmington College Presidents	
	Wilmington College Presidents	
	Wilmington College Presidents Yearbooks for Wilmington College	
	Wilmington College Presidents Yearbooks for Wilmington College Items matching your query History of Clinton County Ohio: Its People, Industries and Institutions Brown, Albert J. (SAWatson Library, 1915)	

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DRC – Item Information

Search DRC



O This Collection

Advanced Search

Browse

- All of DRC
 Communities &
 - By Issue Date
 - Authors
 - Titles
 - Subjects

This Collection

- By Issue Date
- Authors
- Titles
- Subjects

My Account

- Login
- Register

A History of Wilmington College

Show full item record

A History of Wilmington College
Boyd, Oscar O.
Digital reproduction of a pamphlet history of the college, originally published by The Wilmingtonian. 47 pages.
http://hdl.handle.net/2374.WILMING/102
2009-09-04

Files in this item

Files	Size	Format	View	
Boyd-History of Wilmington College-1949.pdf	1.805Mb	PDF		

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The following license files are associated with this item:

· Creative Commons

This item appears in the following Collection(s)

Selected Popular Resources

Show full item record

DRC – Metadata Record

A History of Wilmington College

dc.contributor.authorBoyd, Oscar O.en_USdc.coverage.spatialWilmington, Ohioen_USdc.coverage.temporal1949en_USdc.date.accessioned2009-09-04T15:07:38Zen_USdc.date.acteated1949en_USdc.date.issued2009-09-04T15:07:38Zen_USdc.date.issued2009-09-04T15:07:38Zen_USdc.date.issued2009-09-04T15:07:38Zen_USdc.date.issued2009-09-04T15:07:38Zen_USdc.date.issued2009-09-04T15:07:38Zen_USdc.identifier.urihttp://hdl.handle.net/2374.WILMING/102en_USdc.date.issueden_USen_USdc.language.isoen_USen_USdc.subjectWilmington Collegeen_USdc.subjectWilmington College Pictorial Worksen_USdc.titleA History of Wilmington Collegeen_USdc.titleBooken_USdc.publisher.digitalWilmington College SAWLibraryen_USdc.date.digitized2008-10-24en_USdc.equipment.digitzingPlustek OpticBook 3600 with FineReader 9.0en_USdc.relation.hasformatSelected Popular Resourcesen_US	Show simple item record		
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Conclusions

- Cooperative cataloging becoming increasingly important in United States and internationally
- All libraries can benefit from sharing information and expertise
- Growing importance of electronic resources makes collaboration between libraries and other information repositories the trend for future



