E Pluribus Unum: Melding Manifold Metadata for Use in a Consortial Setting

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University of Illinois at Chicago

Charles Blair
University of Chicago
We’ll cover

• The CCC: who we are
• The current challenge for researchers
• The Chicago Portal: our vision
• Challenges for the CCC
• The technology selection
• Our approach: the Metadata Hopper
The Chicago Collections Consortium
The Challenge for Researchers
John T. McCutcheon Collections

Chicago History Museum

Newberry Library

University of Illinois at Chicago

John T. McCutcheon, “There Ought to be School for Women Voters,” 1913, Newberry Library Collection
Pullman Collections

Chicago Public Library
Newberry Library
Chicago History Museum
Art Institute of Chicago

An engineer drawing of a Pullman Company Three-Tier Tourist Sleeping Car, 1906,
Newberry Library Pullman Digital Collection

Pullman, Employee Service Record,
Phillips, Newberry Library Collection
Century of Progress

Amusement rides at A Century of Progress Enchanted Island. UIC Collections.

Century of Progress - General Motors Building. Art Institute of Chicago
Libraries throughout Chicago ask:

How do we open up our archives and digital collections to Chicago researchers?

We did all this work to write finding aids, create collection records and digitize but nobody knows what’s in our archives.
Chicago Portal: The Vision

• **Depth** of access

• Chicago focus

• Accessible to the novice but supports the seasoned researcher

*Scheduled for August 2015 release*

*Thanks to Andrew W. Mellon Foundation*
Chicago Portal: Scope

• ~1,500 EAD finding aids
• Hundreds of PDF finding aids with associated MARC
• ~2,000 collection level MARC records
• ~150,000 digital images
  – Custom CONTENTdm
  – MARC
Our Challenges
How do you express a name?

ead/archdesc/controlaccess/controlaccess/persname
ead/archdesc/controlaccess/controlaccess/corpname
ead/archdesc/controlaccess/controlaccess/famname
ead/archdesc/did/origination/famname
ead/archdesc/did/origination/corpname
ead/archdesc/did/origination/persname
ead/archdesc/descgrp/controlaccess/persname
ead/archdesc/descgrp/controlaccess/corpname
ead/archdesc/descgrp/controlaccess/famname
ead/archdesc/controlaccess/corpname
ead/archdesc/controlaccess/famname
ead/archdesc/controlaccess/persname
ead/archdesc/controlaccess/p/famname
ead/archdesc/controlaccess/p/corpname
ead/archdesc/controlaccess/p/persname

ArchitectDesignerCreator
AdditionalArchitectOrDesigner
ProjectPersonnel
Creator
creator
Photographers
Photographer
14,730 subject terms
(9,810 only ever used once)

Balloon framing
Burlesque (Theater) --
Burlesque (Theater –
Hack writers
Murgatroyd, Everett F., 1880 or 1-1946.
one way streets
Painting.
Paintings
Tree
Trees -- Chicago Metropolitan Area -- 1900-1919. -- Ictgm
Weather experiments
Xylophone -- Instruction and study
Assume

• No one is going to adjust their local standards or practices

• No one is going to maintain a second version of metadata for the CCC
Don’t Assume

• That we can just point to CCC members’ image records – some have digital images with no discovery platform
CCC Portal Technology Choice

XTF (eXtensible Text Framework)
Reason 1

Flexible metadata processing
Reason 2

XTF allows variation
Reason 3

XTF allows full-text searching across all documents
Reason 4

A dc.xml “side-car” file accompanies each document
Reason 5

XTF works out of the box to index, search and display. Yet ...
Reason 6

XTF can easily be turned into a client/server solution
Reason 7

Support

(http://xtf.cdlib.org)
# Test Data Set: Minimal Processing

XTF has been optimized to recognize metadata element mapping, but none of Hopper’s dc.xml files are included.

## Search: Image in type [X]

**Results:** 881 items

**Sort by:** relevance

<table>
<thead>
<tr>
<th>Title</th>
<th>Description</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Borden Block</td>
<td>Levy #690. Demolished 1917.</td>
<td>1881</td>
</tr>
<tr>
<td>Elsworth Building</td>
<td>[p. 9 of 163].</td>
<td>1985</td>
</tr>
<tr>
<td>Elsworth Building</td>
<td>[p. 16 of 163].</td>
<td>1892</td>
</tr>
</tbody>
</table>

**Subjects:**
- Adler, Dankmar, 1844-1900.
- Stores, Retail.
- Commercial buildings.
- Architecture--Illinois--Chicago.
- Loop (Chicago, Ill.)
<table>
<thead>
<tr>
<th>Title</th>
<th>Mildred B. Bevis Notebook of Designs for the Kalo Shop.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>The notebook contains Arts and Crafts-influenced jewelry and tableware designs by Mildred Belle Bevis Hanks for the Kalo Shop in Chicago, Illinois.</td>
</tr>
<tr>
<td><strong>Date</strong></td>
<td>1913</td>
</tr>
<tr>
<td><strong>Subjects</strong></td>
<td>Art metal-work--Illinois--Chicago</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Title</th>
<th>Dankmar Adler (1844-1900) Collection,</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Papers and photographs related to the life and work of Chicago structural engineer Dankmar Adler, partner of architect Louis H. Sullivan.</td>
</tr>
<tr>
<td><strong>Date</strong></td>
<td>1941</td>
</tr>
<tr>
<td><strong>Subjects</strong></td>
<td>Chicago Auditorium Building (Chicago, Ill.)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Title</th>
<th>Fazlur R. Khan (1929-1982) Collection,</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>This collection holds professional papers and writings and a small group of personal papers of the Bangladeshi structural engineer Fazlur R. Khan.</td>
</tr>
<tr>
<td><strong>Date</strong></td>
<td>1988</td>
</tr>
<tr>
<td><strong>Subjects</strong></td>
<td>John Hancock Center (Chicago, Ill.)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Title</th>
<th>Peter J. Weber (1863-1923) Papers,</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Photographs, correspondence, and printed matter documenting a selection of German-American architect Peter J. Weber's built and unbuilt projects in the United States and abroad.</td>
</tr>
</tbody>
</table>
And...

XTF doesn’t have an administrative interface
The Metadata Hopper

- Archivist/Librarian signs in
- Create a metadata map
- Add files
- Tag records (choose browsing facets)
Deposit: Create Import Rules (Metadata Map)

Art Institute of Chicago
Digital Image Collection
Overview

Art Institute of Chicago

Metadata Hopper lets you deposit content to the Chicago Collections Consortium portal, control how your content is discovered in the portal, and connect related content in the portal. If you need help getting started, use the Quick Help and Tips text in the right-hand sidebar.

Your Content

<table>
<thead>
<tr>
<th>Profile</th>
<th>Deposited</th>
<th>Previewed</th>
<th>Published</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIC EAD Finding Aids</td>
<td>159</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Your Chicago Collections Consortium Users

Administrator: Tracy Seneca
Archivists: 1

Quick Help
- Quick Start
- Demo Videos
- FAQ

Tips
- Choose Deposit & Update to add new or re-deposit content
- Choose Tag to control where your objects appear in the portal
- Choose Connect to connect related objects
- Choose Preview to see what your new content will look like in the portal
- Choose Publish to make new content available in the public portal
- Use Search to take any of these actions with a particular object or set of objects
This XML file does not appear to have any style information associated with it. The document tree is shown below.

```xml
<record>
  <Title ProjectName>
    Century of Progress International Exposition, General Motors Building
  </Title>
  <AlternateTitle ProjectName/>
  <Street Address Neighborhood/>
  <City>Chicago</City>
  <State Province>Illinois</State Province>
  <Country>United States</Country>
  <Date Designed Or Built>1932-1933</Date Designed Or Built>
  <Exhibition Date/>
  <Membership Dates/>
  <Illustration Dates/>
  <Architect Designer Creator>Kahn, Albert</Architect Designer Creator>
  <Additional Architect Or Designer/>
  <Architect Or Designer Notes/>
  <Project Personnel>Milless, Carl [sculptor]</Project Personnel>
  <Project Personnel Notes/>
  <Building Style/>
  <Building Type/>
  <Date Of View/>
  <Date Of Object>
    <View Or Detail Type>Exterior</View Or Detail Type>
  </Date Of Object>
  <Image Notes/>
  <Duplicate Or Note/>
  <Caption Insertion Text/>
  <Print Captions/>
  <Inscription Location/>
  <Photographers/>
  <Digital Collection Name>Archival Image Collection</Digital Collection Name>
</record>
```

Historic Architecture and Landscape Image Collection
Deposit & Replace

Create new deposit rules for:

- Digital Images: separate XML files
- Digital Images: using a single XML file
Create Import Mapping Rules: Digital Images

Step 1 of 5: Prepare

You will be asked to identify which fields contain each record's title and other elements. You can also use one of the import mapping rules worksheets to help you build your import rules or have a record open for review. You will also need one sample file that contains all the element paths or fields you've identified. This file will be used as a test to make sure what you've specified is correct and will be discarded after tested.

Click next to start building your import rules.
Create Import Mapping Rules: Digital Images

Step 2 of 5: Name & Describe

Name:
AIC Images

Displays to the user to help select the correct rules for deposit

Description:
Images from AIC CONTENTdm
Create Import Mapping Rules: Digital Images

Step 3 of 5: Submit a sample file

Please submit a sample metadata file. When you specify your fields in the next screen, you will have a chance to test each path against what is in the sample file you submitted.

This sample file should have values for all element paths you will specify in your rules. If you don’t have a file that has values for all element paths, feel free to create a file that has values for all element paths.

The sample file you use will not be added to your portal content, and can contain dummy data.

Sample file:

Browse... U525784.xml

Back Cancel Next
Metadata Hopper

Deposit

Tag

Connect

Preview

Publish

Search & Browse

User Guide

Overview

Image suffix

The metadata file for each image must contain the file name of the corresponding image.

Suffix:

Image submission

Will you be submitting image files?

Yes

Back  Cancel  Next
Create Import Mapping Rules: Digital Images

Step 5 of 5: Define Import Fields

* Title

The element that is the source for each object's title.

Source element:

[Input field]

[Test button]

Title (subtitle)

This will be appended to the end of the title. Example - Title: Subtitle

Source element:

[Input field]

Instance:
This XML file does not appear to have any style information associated with it. The document tree is shown below.
Create Import Mapping Rules: Digital Images

Step 5 of 5: Define Import Fields

* Title

The element that is the source for each object’s title.

Source element:

```
record/TitleProjectName
```

Test:

---

Title (subtitle)

This will be appended to the end of the title. Example - Title: Subtitle

Source element:
Subject

The source for subject terms. These will be searchable and may be used to automatically apply tags in the public portal.

Source element:
record/SubjectTerms

Instance:
All

Has delimiter:
Yes

Delimiter:
;

We’re mapping:

- Title (*required*)
- Subtitle
- Title (date – for EAD)
- Dates
- Local Identifier
- Description
- Names
- Subject
- Geographic Coverage
- Source Archival Collection (for images)
- Digital Collection Name (for images)
- Digital Collection URL (for images)
- Rights
Create Import Mapping Rules: Digital Images

Confirmation - Rules Created
Use AIC Images to add a new batch of records.

Rule set saved:
Name
AIC Images
Description
Images from AIC CONTENTdm
Image filename
Path: record/READigitalFileName
Image suffix
Suffix
Title
Path: record/TitleProjectName
Title (subtitle)
[Not mapped]
Dates
Tagging: Simplify Topical Browsing

Newberry Library
Tag a Batch of Records
Overview

Newberry Library

Metadata Hopper lets you deposit content to the Chicago Collections Consortium portal, control how your content is discovered in the portal, and connect related content in the portal. If you need help getting started, use the Quick Help and Tips text in the right-hand sidebar.

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<th>Published</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daily Life Along the CB&amp;Q</td>
<td>199</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Newberry EAD</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Your Chicago Collections Consortium Users

Administrator: No Admin

Archivists: 0
Tag

Use the dropdown to view a list of objects with selected tags.
You can also use the dropdown to remove tags from all objects with the selected tag.

- Select status
- Select type
- Limit

Browse by Tags

- Chicago Topics (6)
- Cities (128)

Tips
- Browse by Tags refers to tags added both automatically and manually to an object.
- Use Browse by Original Metadata to browse by the metadata submitted with the object.
Tag

Use the dropdown to view a list of objects with selected tags.
You can also use the dropdown to remove tags from all objects with the selected tag.

Select status  Select type  Limit

Browse by Tags  Browse by Original Metadata

- Local Identifier (597)
- Names (199)
- Subject (710)
- Title (199)
- Geographic coverage (591)
- Source archival collection (199)
- Rights (199)
- Description (199)
- Dates (193)
Browse imported records by field: "Source archival collection"

This view contains your original metadata.

Select status  Select type  Source archival collection  starts with  contains

One result

- Chicago, Burlington & Quincy Railroad Company Archives (199 records)
Tags added

Chicago Topics "Transportation" added to Armature repair department of Diesel shop
Chicago Topics "Transportation" added to Girl eating ice cream cone, Creston, Iowa
Chicago Topics "Transportation" added to Union Station--view of concourse showing information desk
Chicago Topics "Transportation" added to Building part of boxcar in a jig, Havelock, Nebraska
Chicago Topics "Transportation" added to Filling journal boxes with oil at car repair tracks
Chicago Topics "Transportation" added to Commuters waiting for suburban train
Chicago Topics "Transportation" added to Union Station--passengers waiting to board train
Chicago Topics "Transportation" added to Locomotive repair shops
Chicago Topics "Transportation" added to Filling journal boxes with oil at car repair tracks
Chicago Topics "Transportation" added to Union Station--passengers waiting to board train
Chicago Topics "Transportation" added to Members of extra gang
Chicago Topics "Transportation" added to Union Station--in the waiting room
Chicago Topics "Transportation" added to Trainman
Chicago Topics "Transportation" added to Hinisdale Station--Early morning commuters waiting
Chicago Topics "Transportation" added to Locomotive being repaired in roundhouse
Chicago Topics "Transportation" added to Union Station--passengers at phone booth in concourse
Chicago Topics "Transportation" added to Girls talking in business district, Creston, Iowa
Chicago Topics "Transportation" added to Cutting steel with acetylene torch at shops
Tag

Chicago Topics

Select status - Select type - Assigned by - Limit

Four results

Review Delete Cancel

- Women (3 Records)
- Children And Teenagers (2 Records)
- Transportation (199 Records)
- Families (1 Records)
Tagging: Autotag upon Deposit

Newberry Library
EAD Finding Aids
Overview

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<td>0</td>
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<td>0</td>
<td>0</td>
<td>0</td>
</tr>
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Administrator: No Admin
Archivists: 0

Quick Help
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Tips
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Deposit & Replace

Use existing deposit rules for:
- Newberry EAD

Create new deposit rules for:
- Archival Collections: EAD
Add New Content: Newberry EAD

Step 1 of 2

Description:
EAD format for Newberry

Rules:
Title
Path: ead/frontmatter/titlepage/titleproper
Title (subtitle)
[Not mapped]
Title (date)
Path: ead/frontmatter/titlepage/titleproper/date
Dates
Path: ead/frontmatter/titlepage/titleproper/date
Local identifier
Path: ead/eachheader/eadid
Add New Content: Newberry EAD

Step 2 of 2

Click “Select files” then browse to the directory on your local drive that contains the files you are depositing.

Back  Cancel  Finish

Add files...  Start upload
Add New Content: Newberry EAD

Step 2 of 2

Click “Select files” then browse to the directory on your local drive that contains the files you are depositing.

Back  Cancel  Finish

Add files...  Start upload

files uploaded: 10

McNickie.xml  99.41 KB  
Meeker.xml  41.43 KB  
Mencken.xml  9.90 KB  
Monroe.xml  8.46 KB  
Montezuma.xml  76.64 KB  

2.12 Mbit/s | 00:00:07 | 20.33 % | 496.86 KB / 2.44 MB
Add New Content: Newberry EAD

Processing deposit...

Your files have been received by Metadata Hopper and we are currently processing them. You will be sent an email confirmation once the deposit has been completed.

Continue uploading files with Newberry EAD

Upload files with different rules:
Current Folder: INBOX

Subject: Chicago Collections Consortium Deposit Completed (0 errors)
From: ccc.portal.notifications@gmail.com
Date: Tue, December 2, 2014 10:17 pm
To: tjseneca@uic.edu
Priority: Normal
Options: View Full Header | View Printable Version | Download this as a file | View Message Details | Add to Address Book

Deposit rules used: Newberry EAD
Deposit requested by: Tracy Seneca
Deposit requested: 12/03/2014 4:17 a.m.

Deposited: 169
Deposit Failed: 0

Log files have been created for any records that were not successfully uploaded. Contact the Portal Manager at for help if the error message in the log is not clear.

Errors may be due to unclosed XML tags, character encoding issues, or element tags and values using invalid characters, such as ':'. You will need to edit the XML file(s) and resubmit them.
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Tips
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Tag

Use the dropdown to view a list of objects with selected tags.
You can also use the dropdown to remove tags from all objects with the selected tag.

Select status  Select type  Limit

Browse by Tags  Browse by Original Metadata

- Chicago Topics (299)
- Cities (254)
- Neighborhoods (3)
Tagging: Individual Records

Newberry Library
EAD Finding Aid
Results

Select status - Select type - Search all fields - starts with contains Hecht Limit

Three results

- Inventory of the Henry Justin Smith Papers, 1911
- Inventory of the Ben Hecht Papers, 1879-1963
- Inventory of the Ben Hecht Filmscript Collection

Inventory of the Ben Hecht Papers, 1879-1963
Local Identifier
Midwest MS Hecht
Description
Works, correspondence, and papers of novelist, playwright, and screenwriter Ben Hecht, and also papers of his wife Rose Caylor Hecht (novelist) and daughter Jenny Hecht (actress).
Object Record

Inventory of the Ben Hecht Papers, 1879-1983

Type: Archival Collections: EAD
Status: Imported
Tags: Chicago

The following metadata was imported for this object. These terms will be indexed and searchable in the portal and will display in the detailed view of an object.

Any corrections to you make to the object title will appear in the brief display of browse or search results. Both the corrected and original title will appear on the detailed display screen.

- Title: Inventory of the Ben Hecht Papers
- Dates: 1879-1983
- Description: Works, correspondence, and papers of novelist, playwright, and screenwriter Ben Hecht, and also papers of his wife Rose Caylor Hecht (novelist) and daughter Jenny Hecht (actress).
Object Record

Inventory of the Ben Hecht Papers, 1879-1983

Type: Archival Collections: EAD
Status: Imported
Tags: Chicago

Quick Help
- Quick Start
- Demo Videos
- FAQ

Tips
Download an object's dc.xml file to review the Dublin Core metadata used for public browsing and searching.

- Add tags
- Add connections
- Delete record
- Update record
- Preview record
- Publish record
- Download dc.xml file
- Download original metadata file
Add Tags

Inventory of the Ben Hecht Papers, 1879-1983

- Journalism
Object Record

Inventory of the Ben Hecht Papers, 1879-1983

Type: Archival Collections: EAD
Status: Imported
Tags: Chicago, Journalism, Literature and Poetry, Theater and Performing Arts

The following metadata was imported for this object. These terms will be indexed and searchable in the portal and will display in the detailed view of an object. Any corrections you make to the object title will appear in the brief display of browse or search results. Both the corrected and original title will appear on the detailed display screen.

Title: Inventory of the Ben Hecht Papers
Title (date): 1879-1983
Dates: 1879-1983
Local identifier: Midwest MS Hecht
Description: Works, correspondence, and papers of novelist, playwright, and screenwriter Ben Hecht, and also papers of his wife Rose Caylor Hecht (novelist) and daughter Jenny Hecht (actress).
Names: WelI, Kurt, 1900-1950
Names: Wallace, Mike, 1918-
Names: Sandburg, Carl, 1878-1967
The dc.xml File

Control of Front-End Browsing in XTF
Object Record

Inventory of the Ben Hecht Papers, 1879-1983

Type: Archival Collections: EAD
Status: Imported
Tags: Chicago, Journalism, Literature and Poetry, Theater and Performing Arts

View Metadata  Take Actions  View History

- Add tags
- Add connections
- Delete record
- Update record
- Preview record
- Publish record
- Download dcmi file
- Download original metadata file
<xml version="1.0" encoding="UTF-8"?>
  <doc>
    <title>Inventory of the Ron Hacht Papers, 1875-1983</title>
    <identifier>PrimaryIdentifier</identifier>
    <date>1875-1983</date>
    <description>Works, correspondence, and papers of novelist, playwright, and screenwriter Ron Hacht, and also papers of his wife Rose Caylor Hacht (novelist) and daughter Jenny Hacht (actress).</description>
    <type>Sound recordings</type>
    <genre>Screenplays</genre>
    <genre>Photographs</genre>
    <genre>Moving images</genre>
    <genre>Clippings</genre>
    <genre>Artifacts</genre>
    <publisher>InstitutionName</publisher>
    <coverage City="Chicago"/>
    <subject>Literature and Poetry</subject>
    <subject>Theater and Performing Arts</subject>
  </doc>
Important to note

• Open source
• Entirely configurable!
  – You define the mapping forms
  – You can set the tag lists
  – You create the autotagging rules
  – You can customize the dc.xml file output
The Result?
Title: Armature repair department of Diesel shop
Description: Three workmen repairing armatures for diesel engines
Date: 1905
Subjects: Transportation

Title: Union Station—view of concourse showing information desk
Description: Women and men clustered around the information desk. In the foreground are two servicemen, bags at their feet, dealing with papers in their hands. List of arriving trains shown above the information desk.
Date: 1905
Subjects: Transportation

Title: Filling journal boxes with oil at car repair tracks
Description: Man filling journal boxes with oil at car repair tracks
Date: 1905
Subjects: Transportation

Title: Commuters waiting for suburban train
Description: Man folding a newspaper while standing on a train platform. Other people are visible on the platform. There is a train in the distance under a signal tower (?), apparently coming into the station. Parked cars are visible near the station itself.
Date: 1905
Subjects: Transportation
Title: Century of Progress International Exposition, General Motors Building

Description:

Date: 1933

Subjects: Architecture | Fairs and Conventions

Title: Century of Progress International Exposition, General Exhibits Group

Description:

Date: 1933

Subjects: Architecture | Fairs and Conventions

Title: Guide to the R.R. Donnelley & Sons Company Archive, 1844-2005

Description: Founded in Chicago in 1864 by Canadian immigrant Richard Robert Donnelley, R.R. Donnelley & Sons Company is a leading global provider of printing and print-related services. The archive contains business records, product samples and promotional material, biographical files and personal papers, histo...

Date: 2006

Subjects: Architecture | Fairs and Conventions | Advertising and Publicity | Business and Industry | Printing History and Book Art | Sports and Recreation
Title: Inventory of the Henry Kittell Webster Papers, 1880-1932, bulk 1900-1932
Description: Correspondence and drafts and typescripts of works of Illinois novelist and short story writer, Henry Kittell Webster, an Evanston native who had a highly successful literary career in the early decades of the twentieth century. Includes examples of the range of Webster's published ...
Date: 1932
Subjects: Literature and Poetry
Matches: ...United States Hack writers Novelists, American --...
Thank you!!
And thanks to:

• Andrew W. Mellon Foundation
• Kate Flynn, CCC Portal Manager
• Esther Verreau, Lead Developer
• Allan Berry, CCC Developer
• CCC Portal Committee Members
• Jaclyn Grahl, CCC Executive Director

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