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Building New Hampshire History

Eleta Exline

University of New Hampshire - Main Campus, eleta.exline@unh.edu

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Recommended Citation

Exline, Eleta, "Building New Hampshire History" (2008). *University Library Scholarship*. 59.
https://scholars.unh.edu/library_pub/59

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Building New Hampshire History

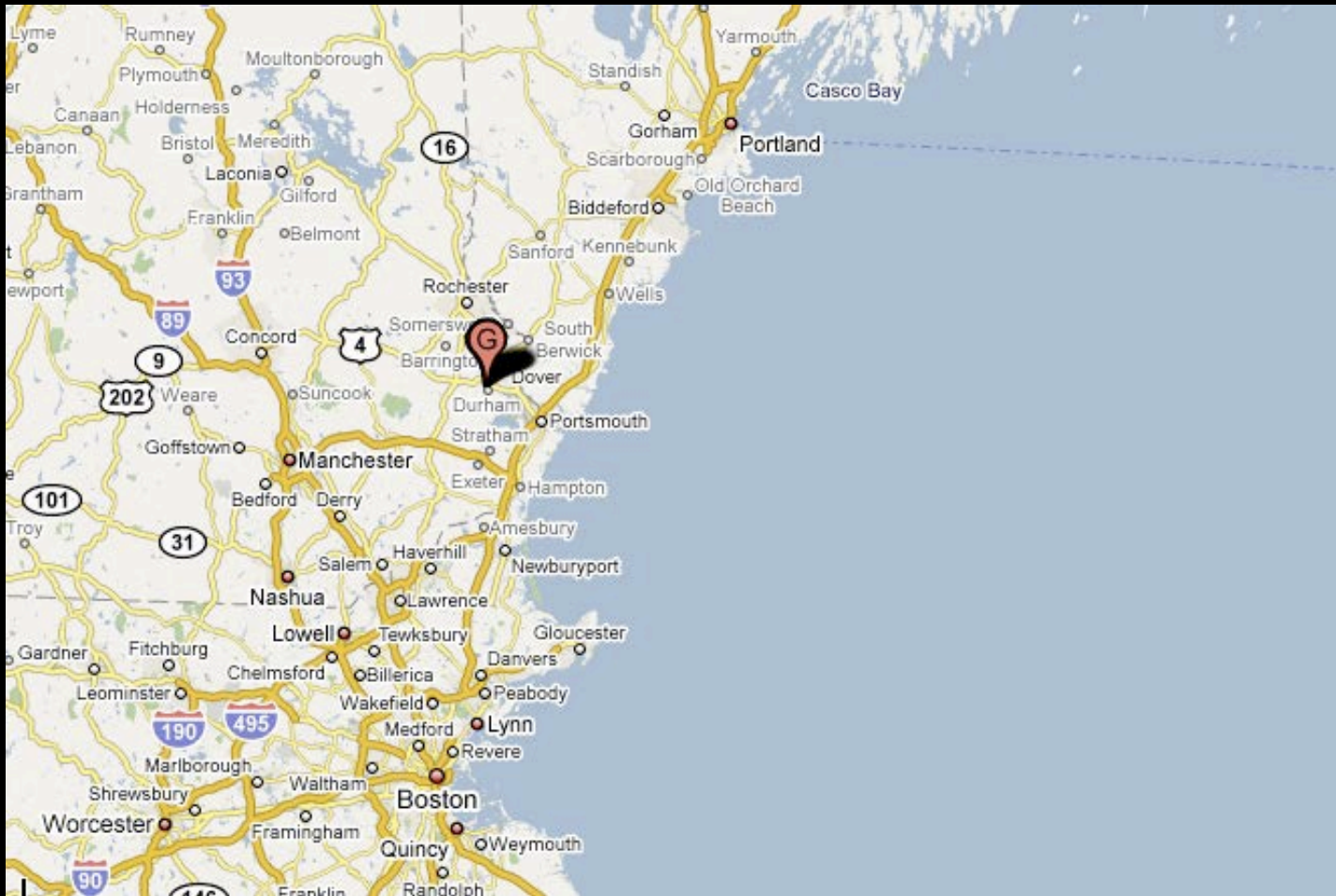
ExLibris Users of North America, August 1, 2008

Eleta Exline

Digital Collections Librarian

University of New Hampshire

University of New Hampshire



University of New Hampshire



University Library



University Library



University Library



Collections



New Hampshire
History Bookshelf



Northern Junket
Magazine



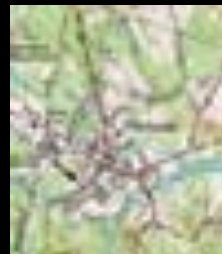
Colonel Edward E.
Cross Collection



Clement Moran
Photography Collection



Historic Topographic Maps
of NE and NY



Granite Monthly
Magazine





New Hampshire History Bookshelf



The New Hampshire History Bookshelf is a joint project of the University of New Hampshire Library and New Hampshire Division of Archives and Records Management.

It includes the New Hampshire Provincial and State Papers, the Revised Register of the Soldiers and Sailors of New Hampshire in the War of the Rebellion, and a selection of New Hampshire town histories.



New Hampshire History Bookshelf



Challenges:

- Our first DigTool project
- No access to original scans
- Missing pages
- Complex metadata



New Hampshire History Bookshelf



Workflow:

- Ingest files stream w/no relationship.
- Extract MD from ILS using MarcEdit, convert to Dublin Core, attach in Mediator.
- Create itemized collection.
- Links to DigiTool from collection [Website](#).



New Hampshire History Bookshelf



Lessons:

- Individual collection Websites require too much maintenance.
- Starting over may be better than reworking old materials.



Northern Junket Magazine



The Northern Junket magazine, part of the Ralph Page Collection, provides directions and tunes for squares, contras, and folk dances, as well as folk songs, recipes, riddles, tongue-twisters, old wives' tales, and other folklife traditions.



Northern Junket Magazine



Challenges

- Complicated file naming system and folder hierarchy.
- Poor quality text – no OCR.
- Missing, skipped pages.
- Lost data.
- <http://www.izaak.unh.edu/dlp/NorthernJunket/pages/index.htm>



Northern Junket Magazine



Workflow

- Flat METS structure, find and replace file names.
- TIFF and JPEG
- Extract MD from ILS and convert to DC using MarcEdit. Attached to all ingests.



Northern Junket Magazine



NJ0401.xml

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <METS:mets
3 xmlns:METS="http://www.loc.gov/METS/"
4 xmlns:xlink="http://www.w3.org/TR/xlink"
5 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
6 xsi:schemaLocation="http://www.loc.gov/METS/ http://www.loc.gov/standards/mets/mets.xsd" LABEL="Northern Junket, Vol. 4,
7 <METS:metsHdr>
8 <METS:agent ROLE="CREATOR">
9 <METS:name>UNH Digital Collections</METS:name>
10 </METS:agent>
11 </METS:metsHdr>
12 <METS:fileSec>
13 <METS:fileGrp VERSDATE="2006-04-06T00:00:00" USE="archive"> [139 lines]
153 <METS:fileGrp VERSDATE="2006-04-06T00:00:00" USE="reference image"> [139 lines]
293 </METS:fileSec>
294 <METS:structMap TYPE="PHYSICAL" ID="SMD1">
295 <METS:div xmlns:METS="http://www.loc.gov/METS/" xmlns:mods="http://www.loc.gov/mods/" xmlns:xlink="http://www.w3.org
296 <METS:div ORDER="1" TYPE="entry" LABEL="Cover">
297 <METS:fptr FILEID="FID1a"/>
298 <METS:fptr FILEID="FID1b"/>
299 </METS:div>
300 <METS:div ORDER="2" TYPE="entry" LABEL="Blank Page">
301 <METS:fptr FILEID="FID2a"/>
302 <METS:fptr FILEID="FID2b"/>
303 </METS:div>
304 <METS:div ORDER="3" TYPE="entry" LABEL="Page 1">
305 <METS:fptr FILEID="FID3a"/>
306 <METS:fptr FILEID="FID3b"/>
307 </METS:div>
308 <METS:div ORDER="4" TYPE="entry" LABEL="Page 2">
309 <METS:fptr FILEID="FID4a"/>
```




Northern Junket Magazine



northernj.xml* x

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <record xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
3   xmlns:dc="http://purl.org/dc/elements/1.1/" xmlns:dcterms="http://purl.org/dc/terms/">
4   <dc:title>Northern junket.</dc:title>
5   <dc:creator>Page, Ralph G.,1903-1985.</dc:creator>
6   <dc:type>text</dc:type>
7   <dc:publisher>Keene, N.H. : Ralph Page, ed.,</dc:publisher>
8   <dc:language>eng</dc:language>
9   <dc:description>The Ralph Page collection of country dance materials was gathered by Ralph Page
10  and spans the years 1778-1989. The New Hampshire Library of Traditional Music and Dance
11  periodicals collection is an amalgam of various constituent collections, including those of
12  the Country Dance and Song Society, Ralph Page, and Ted Sannella.</dc:description>
13  <dc:description>Series date: 1949-1984.</dc:description>
14  <dc:subject>Folk music New England</dc:subject>
15  <dc:contributor>Edited by Ralph Page.</dc:contributor>
16  <dc:relation type="original">Part of the New Hampshire Library of Traditional Music and Dance
17  periodicals collection. The original publication is housed in Milne Special Collections and
18  Archives Ralph Page Manuscript Collection at the University of New Hampshire.</dc:relation>
19  <dc:contributor>University of New Hampshire. Library. Digital Collections.</dc:contributor>
20  <dc:contributor>University of New Hampshire. Library. Milne Special Collections and Archives.</dc:contributor>
21  <dc:identifier>http://www.library.unh.edu/special/index.php/ralph-page</dc:identifier>
22  <dc:identifier>MC 92</dc:identifier>
23 </record>
24
```



Northern Junket Magazine



Lessons:

- Overly complex filenames and folder structures cause problems.
- Technology gets better – upgrade.
- If you run out of storage, get more.



Colonel Edward E. Cross Collection



The Colonel Edward E. Cross Collection consists of the correspondence, military reports, passport and war-time journal of Colonel Edward E. Cross, commander of the Fifth Regiment of New Hampshire during the American Civil War.



Colonel Edward E. Cross Collection



Challenge:

- Civil War era script is hard to read.



Colonel Edward E. Cross Collection



Workflow:

- Flat METS structure
- TIFF, JPEG, JP2, and TXT w/ minimal HTML formatting
- DC created in Meditor after ingest.



Colonel Edward E. Cross Collection



```
cross.xml x
1 <?xml version="1.0" encoding="UTF-8"?>
2 <METS:mets xmlns:METS="http://www.loc.gov/METS/" xmlns:xlink="http://www.w3.org/TR/xlink"
3   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
4   xsi:schemaLocation="http://www.loc.gov/METS/ http://www.loc.gov/standards/mets/mets.xsd"
5   LABEL="Colonel Edward E. Cross Journal" OBJID="Cross01" TYPE="text">
6   <METS:metsHdr>
7     <METS:agent ROLE="CREATOR">
8       <METS:name>UNH Digital Collections</METS:name>
9     </METS:agent>
10  </METS:metsHdr>
11  <METS:fileSec>
12    <METS:fileGrp VERSDATE="2007-08-14T00:00:00" USE="archive"> [353 lines]
366
367    <METS:fileGrp VERSDATE="2007-08-14T00:00:00" USE="reference image"> [353 lines]
721
722    <METS:fileGrp VERSDATE="2007-08-14T00:00:00" USE="reference image"> [353 lines]
1076
1077    <METS:fileGrp VERSDATE="2007-08-14T00:00:00" USE="reference text"> [353 lines]
1431
1432  </METS:fileSec>
1433  <METS:structMap TYPE="PHYSICAL" ID="SMD1">
1434    <METS:div xmlns:METS="http://www.loc.gov/METS/" xmlns:mods="http://www.loc.gov/mods/"
1435      xmlns:xlink="http://www.w3.org/TR/xlink"
1436      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.loc.gov/METS/"
1437      LABEL="Colonel Edward E. Cross Journal">
1438    <METS:div ORDER="1" TYPE="entry" LABEL="Front Cover">
1439      <METS:fptr FILEID="FID1a"/>
1440      <METS:fptr FILEID="FID1b"/>
1441      <METS:fptr FILEID="FID1c"/>
1442      <METS:fptr FILEID="FID1d"/>
1443    </METS:div>
1444    <METS:div ORDER="2" TYPE="entry" LABEL="Inside Cover">
```



Colonel Edward E. Cross Collection



Lesson:

- Tiny text is also hard to read.



Clement Moran Photography Collection



The University Archives Clement Moran
Photography Collection contains historic
images of the University of New Hampshire
taken between 1914 and 1940.



Clement Moran Photography Collection



Challenges:

- Original project scans low resolution and quality.
- No project documentation.
- [http://www.izaak.unh.edu/dlp/UNH-Archives/
pages/index.htm](http://www.izaak.unh.edu/dlp/UNH-Archives/pages/index.htm)



Clement Moran Photography Collection



Workflow:

- Rescan images from original glass plates.
- Extract MD from Filemaker Pro database.
- CSV ingest
- TIFF, JP2



Clement Moran Photography Collection



	A	B	C	D	E	F	G	H
1	1 File name	2 Identif	3 Title	4 Subject	5 Date	6 Description	7 Label	8 Use
2	Moran0001	al M2	Men's Track Team, February 1	Track; Varsity; Athletics	1915	coaches without hats,	M2	ARCHIVE
3	Moran0002	al M3	Football Team, Class of 1917,	Football; Athletics; Sophomores; Intra	1916		M3	ARCHIVE
4	Moran0003	al M4	Baseball Team, Class of 1917,	Baseball; Athletics; Sophomores; Intra	1916		M4	ARCHIVE
5	Moran0004	al M9	Drawing Class, January 14, 19	Drawing Class; Women Students; DeM	1916		M9	ARCHIVE
6	Moran0005	al M17a	Wood Shop, January 16, 1916	Wood Shop; Hewitt Hall	1916	lathe view; without st	M17a	ARCHIVE
7	Moran0006	al M17b	Wood Shop, January 16, 1916	Wood Shop; Hewitt Hall	1916	table saw view; work	M17b	ARCHIVE
8	Moran0007	al M19	Men's Track Team, spring 191	Track; Athletics; Varsity	1916	outdoors; appears to	M19	ARCHIVE
9	Moran0008	al M21	DeMeritt Hall, September 191	DeMeritt Hall	1916	front entrance from T	M21	ARCHIVE
10	Moran0009	al M22	Alpha Chi Sigma, ca. 1916	Fraternities; Honor Societies; James, C	1916	members; steps of Co	M22	ARCHIVE
11	Moran0010	al M23	Men's Track Team, Varsity, Fal	Track; Athletics; Varsity; Nightingale, C	1916		M23	ARCHIVE
12	Moran0011	al M25	Edward Fairchild Funeral, Janu	Funerals; Fairchild, Edward; Gymnasiu	1917	in gym, minister givir	M25	ARCHIVE
13	Moran0012	al M27	Edward Fairchild Funeral, Janu	Funerals; Fairchild, Edward; Gymnasiu	1917	open casket	M27	ARCHIVE
14	Moran0013	al M28	Edward Fairchild Funeral, Janu	Funerals; Fairchild, Edward; Gymnasiu	1917	coffin closed; closer v	M28	ARCHIVE
15	Moran0014	al M41	Faculty Potato Patch, Planting	Factato Club; World War I Civilian Effor	1917	professors in field, ho	M41	ARCHIVE
16	Moran0015	al M42	Faculty Potato Patch, Planting	Factato Club; World War I Civilian Effor	1917	professors in field, ho	M42	ARCHIVE
17	Moran0016	al M43	Faculty Potato Patch, Ford Prir	Factato Club; World War I Civilian Effor	1917	professors in field, wi	M43	ARCHIVE
18	Moran0017	al M50	Ralph Dorn Hetzel, September	Presidents; Hetzel, Ralph; Portraits	1917	in his office	M50	ARCHIVE
19	Moran0018	al M51	Ralph Dorn Hetzel, September	Presidents; Hetzel, Ralph; Portraits	1917	seated at desk; lookir	M51	ARCHIVE
20	Moran0019	al M52	Ralph Dorn Hetzel, September	Presidents; Hetzel, Ralph; Portraits	1917	seated at desk; profil	M52	ARCHIVE
21	Moran0020	al M53	Durham Railroad Station, ca.	Train Station; Durham	1917	without people	M53	ARCHIVE
22	Moran0021	al M54	Nesmith Hall, September 191	Nesmith Hall	1917		M54	ARCHIVE
23	Moran0022	al M55	Gymnasium, September 1917	Gymnasium; New Hampshire Hall	1917		M55	ARCHIVE
24	Moran0023	al M56	Morrill Hall, September 1917	Morrill Hall	1917		M56	ARCHIVE
25	Moran0024	al M57	Dairy Building, September 19	Dairy Building; Taylor Hall	1917		M57	ARCHIVE
26	Moran0025	al M59	Greenhouses, September 191	Greenhouses; MacFarlane, James; Inte	1917	James MacFarlane in	M59	ARCHIVE
27	Moran0026	al M61	Machine Shop, September 19	Machine Shop; Hewitt Hall	1917		M61	ARCHIVE
28	Moran0027	al M62	Conant Hall, September 1917	Conant Hall	1917		M62	ARCHIVE
29	Moran0028	al M66	Hamilton Smith Library, Septe	Hamilton Smith Hall; Library	1917		M66	ARCHIVE
30	Moran0029	al M68	President's House, September	President's House	1917		M68	ARCHIVE
31	Moran0030	al M69	President's House, ca. 1903	President's House	1903	1917 copy negative o	M69	ARCHIVE
32	Moran0031	al M70	Fairchild Hall, September 191	Fairchild Hall	1917		M70	ARCHIVE
33	Moran0032	al M72	Power Plant and Shops Buildin	Power Plant; Shops Building	1917	copied from an old pr	M72	ARCHIVE
34	Moran0033	al M73	Faculty Potato Patch, Harvesti	Factato Club; Faculty Potato Patch; Wo	1917	professors with harve	M73	ARCHIVE
35	Moran0034	al M74	Faculty Potato Patch, Harvesti	Factato Club; Faculty Potato Patch; Wo	1917	similar to M73 but mc	M74	ARCHIVE



Clement Moran Photography Collection



glassplatemapping.xml

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <tm:x_mapping xmlns:tm="http://com/exlibris/digitool/repository/transMap/xmlbeans" start_from_line="2">
3   <x_map>
4     <x_source position=" "/>
5     <x_target md_name="descriptive" md_type="dc">
6       dc:format
7     </x_target>
8     <x_default>tiff/jp2</x_default>
9   </x_map>
10  <x_map>
11    <x_source position=" "/>
12    <x_target md_name="descriptive" md_type="dc">
13      dc:format
14    </x_target>
15    <x_default>Glass plate negative</x_default>
16  </x_map>
17  <x_map>
18    <x_source position=" "/>
19    <x_target md_name="descriptive" md_type="dc">
20      dc:type
21    </x_target>
22    <x_default>Image</x_default>
23  </x_map>
24  <x_map>
25    <x_source position=" "/>
26    <x_target md_name="descriptive" md_type="dc">
27      dc:contributor
28    </x_target>
29    <x_default>University of New Hampshire. Library. Digital Collections.</x_default>
30  </x_map>
31  <x_map>
32    <x_source position=" "/>
33    <x_target md_name="descriptive" md_type="dc">
```



Clement Moran Photography Collection



Lessons:

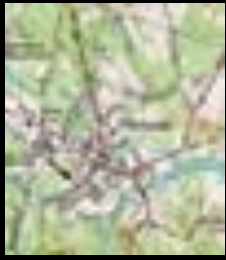
- Image quality benchmarking works.
- Rescanning may be the only good option.
- Pre-ingest metadata cleanup and normalization is worth the effort.



Historic Topographic Maps of NE and NY



Historic USGS Maps of New England & New York. The United States Geological Survey began its topographic atlas of the United States in 1882. This online collection of more than 1500 USGS topographic maps includes complete geographical coverage of New England and New York from the 1890s to 1950s.



Historic Topographic Maps of NE and NY



Challenges:

- This collection is extremely popular.
- Maps we scanned in four pieces with low quality equipment.
- Current interface uses hyperlinked indexes for navigation.
- File naming inconsistent.
- <http://docs.unh.edu/nhtopos/nhtopos.htm>

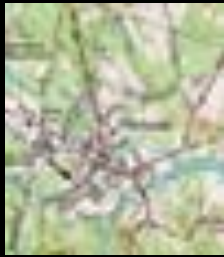


Historic Topographic Maps of NE and NY



Workflow:

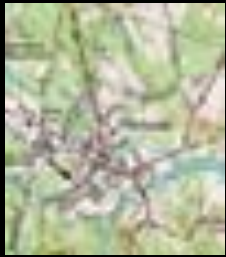
- Stitch quarter-quads into whole maps using Photoshop. Automated by a script.
- Divided into 60 batches, alphabetical by filename.
- Complex object CSV.
- MD created in CSV, including town names.



Historic Topographic Maps of NE and NY



	A	B	K	L	M	N	O	P
1	File name	Title	11 Relation ty	12 vpid	13 Relations	14 Entity type	15 Usage type	16 Status
2		Alton Quadrangle		0		COMPLEX	VIEW_MAIN	
3	altn19merge.tif		part_of	1	0		ARCHIVE	SUPPRESS
4	altn19nw.tif		part_of	2	0		ARCHIVE	SUPPRESS
5	altn19ne.tif		part_of	3	0		ARCHIVE	SUPPRESS
6	altn19sw.tif		part_of	4	0		ARCHIVE	SUPPRESS
7	altn19se.tif		part_of	5	0		ARCHIVE	SUPPRESS
8	altn19nw.jpg		manifestation	6	2		VIEW	SUPPRESS
9	altn19ne.jpg		manifestation	7	3		VIEW	SUPPRESS
10	altn19sw.jpg		manifestation	8	4		VIEW	SUPPRESS
11	altn19se.jpg		manifestation	9	5		VIEW	SUPPRESS
12		Alton Quadrangle		10		COMPLEX	VIEW_MAIN	
13	altn57merge.tif		part_of	11	10		ARCHIVE	SUPPRESS
14	altn57nw.tif		part_of	12	10		ARCHIVE	SUPPRESS
15	altn57ne.tif		part_of	13	10		ARCHIVE	SUPPRESS
16	altn57sw.tif		part_of	14	10		ARCHIVE	SUPPRESS
17	altn57se.tif		part_of	15	10		ARCHIVE	SUPPRESS
18	altn57nw.jpg		manifestation	16	12		VIEW	SUPPRESS
19	altn57ne.jpg		manifestation	17	13		VIEW	SUPPRESS
20	altn57sw.jpg		manifestation	18	14		VIEW	SUPPRESS
21	altn57se.jpg		manifestation	19	15		VIEW	SUPPRESS
22		Averill Quadrangle		20		COMPLEX	VIEW_MAIN	
23	avrl53merge.tif		part_of	21	20		ARCHIVE	SUPPRESS
24	avrl53nw.tif		part_of	22	20		ARCHIVE	SUPPRESS
25	avrl53ne.tif		part_of	23	20		ARCHIVE	SUPPRESS
26	avrl53sw.tif		part_of	24	20		ARCHIVE	SUPPRESS
27	avrl53se.tif		part_of	25	20		ARCHIVE	SUPPRESS
28	avrl53nw.jpg		manifestation	26	22		VIEW	SUPPRESS
29	avrl53ne.jpg		manifestation	27	23		VIEW	SUPPRESS
30	avrl53sw.jpg		manifestation	28	24		VIEW	SUPPRESS
31	avrl53se.jpg		manifestation	29	25		VIEW	SUPPRESS
32		Barnstable Quadrangle		30		COMPLEX	VIEW_MAIN	
33	barn93merge.tif		part of	31	30		ARCHIVE	SUPPRESS



Historic Topographic Maps of NE and NY



```
topomapping.xml
121     <x_source position="12"/>
122     <x_target md_name="descriptive" md_type="dc">
123         dc:description
124     </x_target>
125 </x_map>
126 <x_map>
127     <x_source position="13"/>
128     <x_target>relations/relation/type</x_target>
129 </x_map>
130 <x_map>
131     <x_source position="14"/>
132     <x_target>vpid</x_target>
133 </x_map>
134 <x_map>
135     <x_source position="15"/>
136     <x_target>relations/relation/vpid</x_target>
137 </x_map>
138 <x_map>
139     <x_source position="16"/>
140     <x_target>control/entity_type</x_target>
141 </x_map>
142 <x_map>
143     <x_source position="17"/>
144     <x_target>control/usage_type</x_target>
145 </x_map>
146 <x_map>
147     <x_source position="18"/>
148     <x_target>
149         control/status
150     </x_target>
151 </x_map>
```



Historic Topographic Maps of NE and NY



Lessons:

- Replace functionality when re-implementing collections.
- Some flaws are fundamental.
- Some solutions are temporary.



Granite Monthly Magazine



The Granite Monthly, a New Hampshire magazine devoted to history, biography, literature and state progress. Published from 1877 to 1930.



Granite Monthly Magazine



Challenge:

Bring OCA digitized works into local collections.



Granite Monthly Magazine



Workflow:

- Send books to OCA for scanning.
- Convert OCA book ID into URL.
- CSV with URLs ingest or PDF manifestation.
- Extract MD from ILS using MarcEdit, convert to DC and attach to ingest.



Granite Monthly Magazine



[Scanning Process Video](#)



Granite Monthly Magazine



```
OCA_SerialMapping.xml
9 <x_map>
10   <x_source position=""/>
11   <x_target>
12     control/usage_type
13   </x_target>
14   <x_default>VIEW</x_default>
15 </x_map>
16 <x_map>
17   <x_source position="2"/>
18   <x_target>
19     stream_ref/directory_path
20   </x_target>
21 </x_map>
22 <x_map>
23   <x_target>
24     stream_ref
25   </x_target>
26   <x_attr>
27     location
28   </x_attr>
29   <x_default>http</x_default>
30 </x_map>
31 <x_map>
32   <x_target>
33     stream_ref
34   </x_target>
35   <x_attr>
36     store_command
37   </x_attr>
38   <x_default>link</x_default>
39 </x_map>
40 <x_map>
```



Granite Monthly Magazine



Lessons:

- Evaluate solutions in light of new information.
- Multiple access points are a good thing.
- Mass digitization is pretty cool.
- <http://www.library.unh.edu/diglib/digitalbooks.shtml>

Open Library



Open Library [beta](#)

[Log in](#)

What's New: 1 hour ago - /user/hakim

Beta Site



Open Library

One web page for every book. (More...)

[Scanned books only](#) ▶ [Advanced Search](#)

featuring **13,439,320** books
(including **234,857** with full-text)

Open Library has new functionality!

We have greatly improved our user interface to make editing our book catalog easier. In addition to this, we have added support for [internationalization](#) so that anyone can translate the Open Library site into any language.

Find Books

- ▶ [Recent changes](#)
- ▶ [Example search](#)
- ▶ [Add a book](#)

Build The Library

- ▶ [About the project](#)
- ▶ [About the technology](#)
- ▶ [About the librarianship](#)
- ▶ [A guided tour](#)

Develop The Site

- ▶ [Bug tracking](#)
- ▶ [Source code repository \(infogami\)](#)
- ▶ [Developer documentation](#)
- ▶ [Translate the site](#)

What we've learned



- Re-implementation of legacy collections can be harder than starting over.
- Standards matter.
- Implementation is ongoing, especially when new technologies or processes are added.
- Collaborative collection building can be a big leap forward.

What's next?



- Implement Handle and Alto.
- Rights management.
- Move further away from curation of collections and toward larger scale digitization.
- Develop sustainable, consistent metadata practices.
- Integrate digital with ILS and other collections.
- Collaborate, contribute, and coordinate.
- Keep the user at the center of our plans.



Contact info:

eleta.exline@unh.edu

<http://www.library.unh.edu/diglib/>