

Greg Wiedeman

University Archivist
University at Albany, SUNY
@gregwiedeman

Born-Digital Photography at UAlbany

- Campus Photographer in Digital Media Department
 - 134 events in 2014, around 3-300 images per event
- Camera raw files (.NEF, .CR2)
- JPG derivatives
- Images go back to 1999

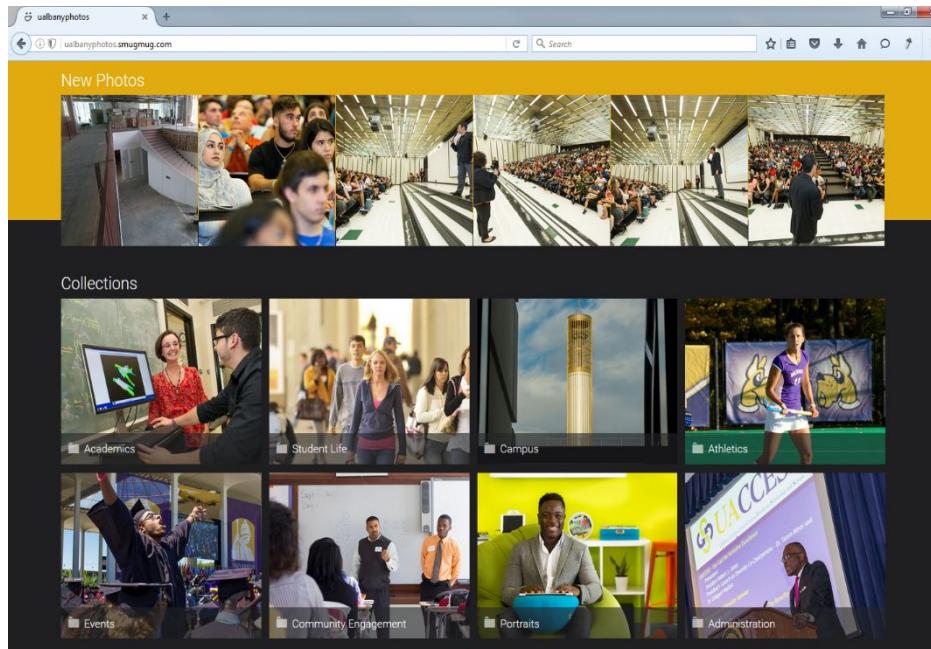
Disks in Boxes

- 4 boxes, 598 DVDs and CD-Rs
- 1.8 TB
- In folders by Job Number
- Subfolders have minimal description
- 1999-2008 Access Database
 - Has descriptions
- 2008-2012 REST DB
 - Dates, no descriptions



Born-Digital Photography at UAlbany

- Implemented SmugMug service in 2012
 - Online public photo database
 - Over 19,000 images
- Uploads and enters metadata in SmugMug



Immigration Symposium at Rockefeller Institute of Government

U.S. Immigration Reform and State-level Immigration Policymaking symposium at the Rockefeller Institute of Government.

This symposium considers opportunities and challenges presented by immigration and national immigration policy reforms with a focus on states and localities, particularly NYS and New York's cities. Featured guests include Michele Waslin, Pew Center; Neil Ruiz, Brookings Institution; and Jorge Montalvo, NYS Office of New Americans.



Principles

- Automation
 - Need to scale
 - No metadata creation, must describe themselves
- Standardization
 - Format-independent tools and utilities for born-digital records
- Transparency
 - Researchers need context
- Access
 - No restrictions, immediate public access

SmugMug API

```
<album name="Collins Circle Flag Half Mast" uri="/api/v2/album/tXw8pw">
<image>
<uri>/api/v2/album/tXw8pw/image/GbPX8qd-0</uri>
<filename>Collins Circle_Flag Half Mast_0025.JPG</filename>
<date>2015-09-11T18:16:41+00:00</date>
<weburi>http://www.ualbanyphotos.com/Campus/Aerials/Collins-Circle-Flag-Half-Mast\_0025.JPG</weburi>
<lastupdated>2015-09-11T18:17:41+00:00</lastupdated>
<archivedmd5>194a181a01b7d9ff388ad2b4c7a09970</archivedmd5>
<thumbnailurl>https://photos.smugmug.com/Campus/Aerials/Collins-Circle-Flag-Half-Mast\_0025.JPG</thumbnailurl>
<caption>DCIM\100MEDIA\DJL_0025.JPG Photo by Brian Busher</caption>
<keywords>aerial; collins circle; 911; flag; ualbany; 2015</keywords>
<archiveduri>https://photos.smugmug.com/Campus/Aerials/Collins-Circle-Flag-Half-Mast\_0025.JPG</archiveduri>
<downloadTime type="posix">1467146745.27</downloadTime>
<hash type="md5">success</hash>
</image>
<image>
<uri>/api/v2/album/tXw8pw/image/CJTPg5H-0</uri>
```

Crawling SmugMug

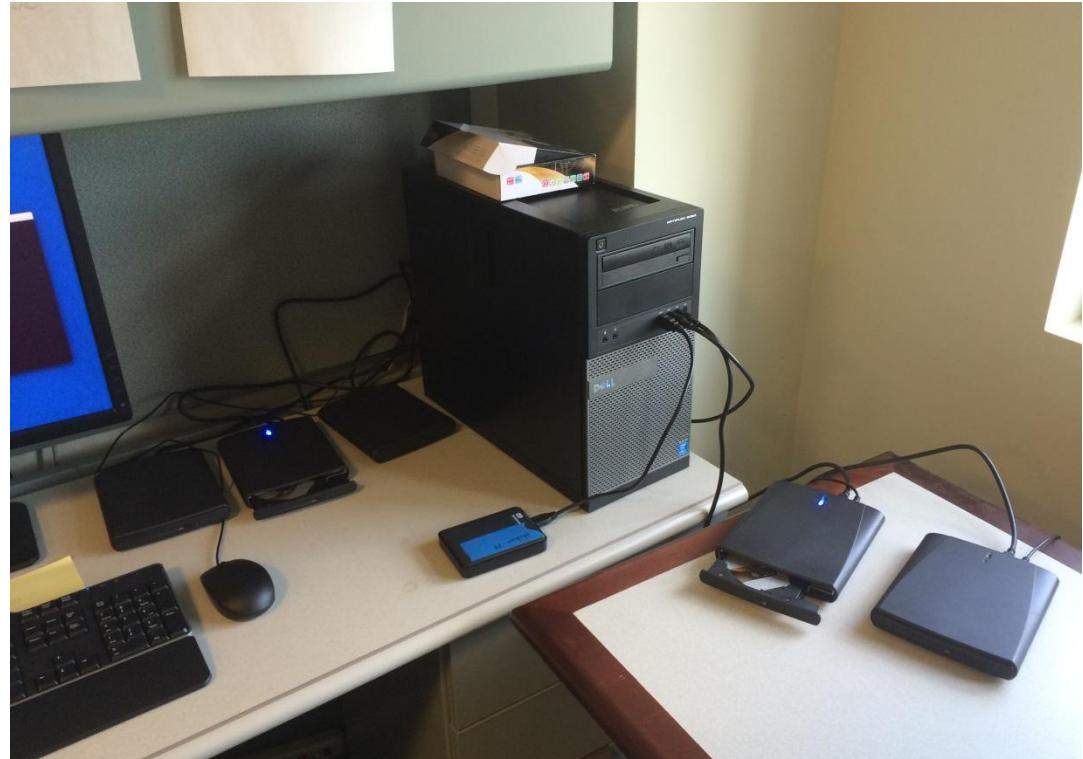
- Develop crawler for SmugMug
 - Download all images
 - Periodically crawl for updates
 - Hash index to see if already downloaded
 - Package into standard SIPs with metadata
 - After approval, automatically incorporate into EAD files and make publically available



github.com/UAlbanyArchives/ua395

Mass Image DVDs

```
22 def driveListen(drivePath, disk):
23
24     while disk == False:
25
26         try:
27             #check if disk has size:
28             get_file_size(drivePath)
29             disk = True
30         except:
31             disk = False
32
33     #do stuff with disk
34     print "Disk found, ripping disk"
35
36     #image disk
37     start = time.time()
38     subprocess.call(["dd", "if=/dev/" + driveName, "of=" + imageFile]
39     end = time.time()
40     elapsed = end - start
41     print str(elapsed) + " seconds"
42     print str(elapsed / 60) + " minutes"
43
44     print "eject disk"
45     subprocess.call(["eject", driveName], shell=False)
46
47     print "listen again"
48     disk = False
49     driveListen(drivePath, disk)
50
51 driveListen(drivePath, disk)
52
```



Issues with Disk Imaging at Scale

- Carve files with fiwalk and icat (TSK)
- Audit against fiwalk output
 - Batch 1: 49646 of 50212 – 98.87%
 - Batch 2: 47574 of 48030 – 99.05%
 - Batch 3: 22436 of 24530 – 91.46%
 - Batch 4: 49646 of 50212 – 98.87%
 - Total: 169302 of 172984 – 97.87%
- Convert with ImageMagik

Appraisal Decisions

- Not accept camera raw
 - Large, hard to make available
 - Proprietary
- Convert all files to JPG prior to accessioning
 - .CR2 Canon raw lossless or lossy JPG compression
 - .NEF Nikon proprietary lossless or lossy
 - 1.8 TB to 274 GB
 - Not using compression is not a preservation strategy
- Not spend time recovering files

Access

- New public access system
- Drupal, XTF, and static pages
- Bootstrap 3
- Schema.org
- Public domain
- Over 180,000 images

M.E. Grenander Department of Special Collections & Archives

UALBANY

Collections ▾ Digital Selections ▾ Exhibits ▾ University Records ▾ About ▾ Contact Search

Narrow Search

Browse by: All Results: 410 Items

Modify Search New Search

Sorted by: relevance ➔

Types of Materials

Web Archives 	33
Digital Files 	11

Subjects

Albany, New York	62
Social Activists and Public Advocates	57
Public Servants	45
Conservation and the Environment	42
Labor	41
more	

People

Rockefeller, Nelson A. (Nelson Aldrich), 1908-1979	6
Staudinger, Hans, 1889-1980	5
Schaefer, Vincent J	4
Baldus, David C	3
Blanchard, Duncan C	3
more	

1 Collection: American Association of University Professors, Albany Chapter Records
Date 1944-1974
Coverage:
Extent: 0.75 cubic ft.
Subjects: Education | Albany, New York

2 Collection: Albany County Civic Center Collection
Date 1984-1988
Coverage:
Extent: 0.75 cubic ft.
Subjects: Albany, New York | Social Activists and Public Advocates | Conservation and the Environment | Athletics and Sports | Architecture

3 Collection: Albany Printing Pressmen, Assistants and Offset Workers Union, No. 23-C Graphic Communications International Union Records
Date 1951-1989
Coverage:
Extent: 1 microfilm reel
Subjects: Labor | Albany, New York

4 Collection: International Union of Bricklayers and Allied Craftsmen, Local 16 Records
Date 1886-1930
Coverage:
Extent: 0.6 cubic ft.

<http://meg.library.albany.edu:8080/archive/view?docId=ua395.xml>



Narrow Search

Search: vonnegut in keywords [Clear Search]

Results: 9 items

[Modify Search](#)[New Search](#)

Sorted by:

relevance



Types of Materials

Digital Files

1

Subjects

Albany, New York

2

Conservation and the Environment

2

Schenectady, New York

2

Athletics and Sports

1

Literature

1

more

People

Blanchard, Duncan C

3

Schaefer, Vincent J

3

Vonnegut, Bernard

3

Langmuir, Irving, 1881-1957

2

Moore, Charles B., 1920-2010

2

more

Organizations

State University of New York. Atmospheric Sciences

4

Research Center

3

General Electric Company

3

State University of New York at Albany

2

Arthur D. Little, Inc

1 Collection: [Bernard Vonnegut Papers](#)

1828-1997

39.04 cubic ft.

Subjects: [Conservation and the Environment](#)

Matches:

78 hits

[...Vonnegut, Bernard - Tornado Articles...](#)[...Bernard Vonnegut Papers 1828-1997...](#)[...Tribute to Bernard Vonnegut...](#)2 Collection: [Vincent J. Schaefer Papers](#)

1891-1993

135 cubic ft.

Subjects: [Schenectady, New York | Conservation and the Environment | Athletics and Sports](#)[...Vonnegut/Florida...](#)[...Magdalena Vonnegut/Moore McLean...](#)[...Magdalena Vonnegut/Moore McLean...](#)3 Collection: [Duncan Blanchard Papers](#)

1789-2003

35.8 cubic ft.

[...2010 Schaefer, Vincent J. Vonnegut, Bernard Woodcock, Alfred...](#)[...Schaefer, and Bernard Vonnegut. While Blanchard enjoyed...](#)[...Schaefer and Bernard Vonnegut as a senior research associate...](#)4 Collection: [Eudene McLaren Papers](#)<http://meg.library.albany.edu:8080/archive/view?docId=ua395.xml>



Narrow Search

Types of Materials

Digital Files



1

Collection:

Digital Media Department Collection

Date Coverage:

2002-2016

Extent:

219.75 GB 164854 Digital Files

Types:

Digital Files

Matches:

...Bldg/ Red Room / Kurt Vonnegut 1/22/00 @ 5 PM reception...

1 hit

Organizations

State University of New York at Albany. Office of Communication and Marketing



Repositories

University at Albany M. E. Grenander Department of Special Collections and Archives



Search: vonnegut in keywords [Clear Search]

Digital Files in genreform [Clear Search]

Results: 1 Item

Modify Search

New Search

Sorted by: relevance



Open to the public Monday-Friday, 9am-5pm
Closed for state holidays and winter intersession
Located on the top floor of the Science Library on the Uptown Campus
[Directions](#)

M. E. Grenander Department of Special Collections & Archives
Science Library 350
1400 Washington Avenue
Albany, NY 12222

<http://meg.library.albany.edu:8080/archive/view?docId=ua395.xml>



1 occurrence of
"vonnegut" [Clear Hits]

Digital Media Department

About the Collection ▾

Collection History ▾

Access and Use ▾

Request

Contents

Academics

Administration

Athletics

Campus

CommunityEngagement

Events 1

Events 1

2015 Welcome Week Events

<input type="checkbox"/>	<input type="checkbox"/>	NYS Writer's Institute: 1/22/00 @ 3:30 PM State Author/Poet Award Ceremony Capitol Bldg/ Red Room / Kurt Vonnegut 1/22/00 @ 5 PM reception Elda's on Lark St. Photo session 1/22/00 @ 7 PM Public Reading/Reception Page Hall color print	2001 January 5
<input type="checkbox"/>	<input type="checkbox"/>	University Relations: 1/31/01 @ 11 AM Lecture Center Concourse Community Service Fair digital	2001 February 9
<input type="checkbox"/>	<input type="checkbox"/>	University Relations: 3/15/01 @ 4:15 PM LC-23 Carl H. Rosner at the podium digital	2001 March 29
<input type="checkbox"/>	<input type="checkbox"/>	University Relations: 3/19/01 @ 3 PM MSB-200 Roslyn Jefferson digital	2001 April 3
<input type="checkbox"/>	<input type="checkbox"/>	University Relations: 9/12/01 @ Collins Circle/CC Fountain Unity Walk	2001 September 26
<input type="checkbox"/>	<input type="checkbox"/>	University Relations: 9/21/01 @ 12:30 RACC Memorial Service digital and color print	2001 October 5
<input type="checkbox"/>	<input type="checkbox"/>	Advancement: 10/30/01 @ 8 AM Standish Room Business Matter debut taping w/ Dick Highfield digital?	2001 November 5
<input type="checkbox"/>	<input type="checkbox"/>	Advancement: 1/9/02 @ 7:15 AM Crowne Plaza Hotel Albany Boosting Business in NY State w/ Elliot Spitzer digital	2002 January 1
<input type="checkbox"/>	<input type="checkbox"/>	Health Management: 1/15/02 @ 8 AM NYS Nurses Assoc. Latham digital imagery	2002 January 22
<input type="checkbox"/>	<input type="checkbox"/>	Media and Marketing: 3/6/02 @ 2 - 3 PM CC Ballroom Public Interest Career Fair digital	2002 March 18
<input type="checkbox"/>	<input type="checkbox"/>	Annual Fund: 3/12/02 @ 6:30 PM Annual Fund Telemarketing Room web shots digital	2002 March 25
<input type="checkbox"/>	<input type="checkbox"/>	Media and Marketing: 3/14/02 @ 2 PM - 3/15/02 @ 12 Noon CC Ballroom "Leave no child behind" Conference Henry Louis Taylor / Terrence Thornberry digital	2002 March 29
<input type="checkbox"/>	<input type="checkbox"/>	Stewardship: 4/11/02 @ 1 - 2 PM BA 231 Towers Perrin Gift announcement digital	2002 April 4
<input type="checkbox"/>	<input type="checkbox"/>	http://meg.library.albany.edu:8080/archive/view?docId=ua395.xml	2002 April 17
<input type="checkbox"/>	<input type="checkbox"/>	Media and Marketing: 4/3/02 @ 10-30 AM State Capital Bldg. Harrison Campus Press Conference digital	



Digital Media Department

[About the Collection](#)[Collection History](#)[Access and Use](#)[Request](#)

Contents

[Academics](#)[Administration](#)[Athletics](#)[Campus](#)[Community Engagement](#)[Events](#)[Portraits](#)[Student Life](#)

NYS Writer's Institute: 1/22/00 @ 3:30 PM State Author/Poet Award Ceremony Capitol Bldg/ Red Room / Kurt Vonnegut 1/22/00 @ 5 PM reception Elda's on Lark St. Photo session 1/22/00 @ 7 PM Public Reading/Reception Page Hall color print

[Database Entry](#)

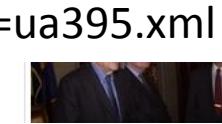
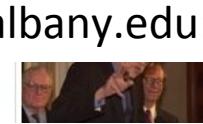
2001 January 5



Processing Details

2016 July 21 - Imaged from optical media with dd, carved from image with fiwalk and icat, converted all raw to jpg

2016 July 21 - description record extracted from photographer's Microsoft Access database by Job number



<http://meg.library.albany.edu:8080/archive/view?docId=ua395.xml>



<http://meg.library.albany.edu:8080/archive/view?docId=ua395.xml>