

National Park Service



***Digital Imaging for the
NPS Museum
Collection Web Catalog***

PMIS 73179

Harpers Ferry Center, Department of Media Assets

National Park Service



HFC 13897 - 0020
GETT 00041560
10 - 04 - 2006
BT



HFC 13818 - 0013
GETT 00004064
09 - 08 - 2006
BT



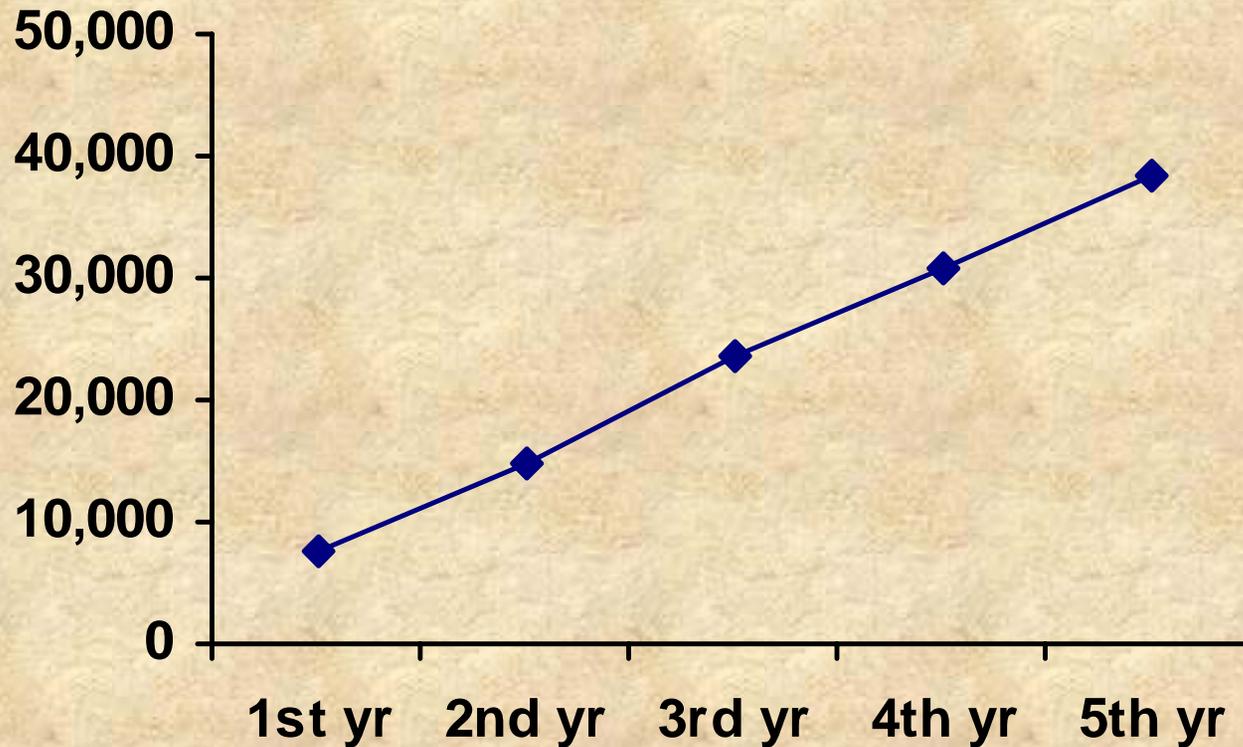
HFC 13818 - 0043
GETT 00005777
09 - 11 - 2006
BT



HFC 13901 - 0023
GETT 00025667
10 - 12 - 2006
BT



Images Captured Over 5 Years





Purpose

- *Provide digital images for a variety of park uses*
- *Reduce risks to objects*
- *Increase public use of the collections by 10%*

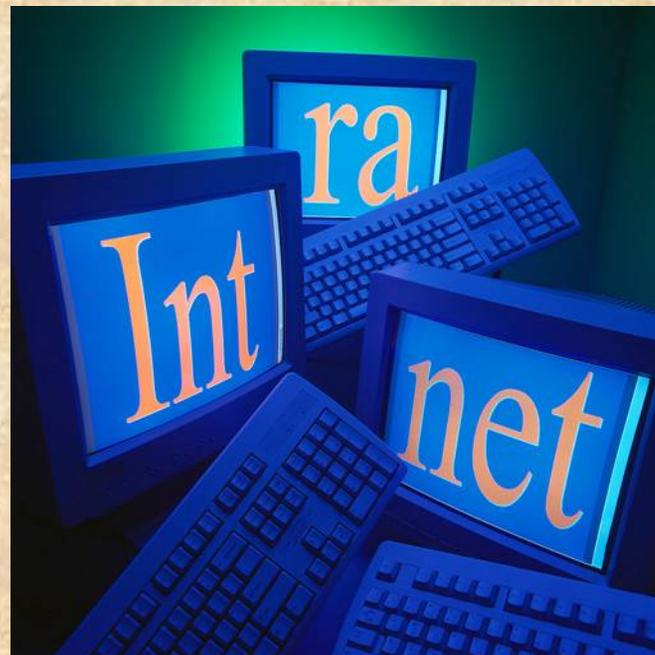
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Blogosphere
NPS Museum Web Catalog
BLOG

Photobucket
upload
NPS Focus

Web Site
Flickr
personal digital agenda
image
watermark



YouTube

Desired Results



- Make objects available to the public
 - Digital images provide information about the objects of our cultural heritage
 - Rethink methods for public interaction with objects
 - New uses on the internet
 - Become part of a personal digital agenda

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- Use established information systems

The screenshot shows the NPS Focus Digital Library and Research Station website. The browser title is "NPS Focus Digital Library and Research Station - Microsoft Internet Explorer provided by Harpers Fer...". The address bar shows "http://npsfocus.nps.gov/". The page features a header with the National Park Service logo and the text "National Park Service U.S. Department of the Interior". Below the header is a banner with the text "NPS Focus digital library & research station" and a row of five images: a natural rock arch, a man with a horse-drawn wagon, a scuba diver, a person in a boat, and a lighthouse. A sidebar on the left contains navigation links: Home, Browse subjects, Browse parks, Advanced search, Research on- & off-line resources, About, and Help. The main content area has a search bar with "Search" and "Reset" buttons, and two dropdown menus for browsing by subject and by park. The footer includes links for nps.gov, U.S. Department of the Interior, FOIA, Privacy, Disclaimer, and FirstGov.

The screenshot shows the Alcatraz Island Golden Gate National Recreation Area website. The browser title is "Alcatraz Island - Golden Gate National Recreation Area - Microsoft Internet Explorer provided by Harpers Ferry Center IT". The address bar shows "http://www.cr.nps.gov/museum/en/habitat/alkalngal.html". The page features a header with the National Park Service logo and the text "National Park Service U.S. Department of the Interior". Below the header is a banner with the text "Museum Collections at The Rock ALCATRAZ ISLAND Golden Gate National Recreation Area". The page is divided into several sections: "MILITARY PERIOD" with a grid of images, "Military Period - Glover Case File" with a grid of images, and "Military Period - Historic Photographs" with a grid of images. The footer includes links for FEDERAL PRISON, INMATES, OFFICERS, EQUIPMENT & PROCEDURES, INDIAN OCCUPATION, and ALL IMAGE GALLERY.

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- Increase the public's personal level of access that will allow them to make a connection with the objects and stimulate site visits.



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■ Help Develop Protocols

Guidelines for Conservators Draft (8-06) - Microsoft Word

File Edit View Insert Format Tools Table Window Help

Normal + Garar Garamond 14 B I U

Final Showing Markup Show

90%

DRAFT, 8/10/06, Adam Novak, WUDPAC Fellow

Guidelines for Conservators: Documentation Images Captured with a Digital Camera

		Minimum Accepted Practice		Recommended Practice	
		Master Files	Access Files	Master Files	Access Files
Image	Resolution	6 to 14 megapixels, or 3000 pixels by 2000 pixels to 4500 pixels by 3100 pixels	6 to 14 megapixels, or 3000 pixels by 2000 pixels to 4500 pixels by 3100 pixels	10 to 22 megapixels, or 3872 pixels by 2592 pixels to 5200 pixels by 4200 pixels	10 to 22 megapixels, or 3872 pixels by 2592 pixels to 5200 pixels by 4200 pixels
	File Format	Uncompressed TIFF, 24-bit RGB mode	JPEG, 24-bit RGB mode	Uncompressed TIFF, RAW, 24-bit RGB	JPEG, 24-bit RGB mode
	Compression	No compression	Variable	No compression	Variable
	Color Space	Adobe RGB 1998			
Image Review	Software	Adobe Photoshop CS		Adobe Photoshop CS2 (or the most current version)	
	Hardware	Images should be viewed on monitors that are color managed at regular time intervals (dependent on use).			
	Physical Output	Printed images should be compared to either the object in the photograph or the color target included in the image.			
Metadata	Metadata Schema	Not recorded		The source institution should establish a metadata schema (the structure and fields of the metadata) based on specific needs. Metadata already present in the image file, known as EXIF (Exchangeable Image File Format), should be supplemented by additional fields, such as creator, subject, title, etc.	
	Metadata Format	Not recorded		Metadata should be recorded in a digital format that is widely accepted, such as XML (Extensible Markup Language).	
	File Naming	The source institution should establish a file naming schema to accurately identify images. Different notations should be incorporated into the file name, such as accession number, stage of treatment, creator, etc. Note that file names could get long and time consuming, therefore, it is recommended that the file name identifiers be kept to a minimum and that supplementary metadata be utilized.			
Storage and Preservation	Long-Term Management	Electronic files should not reside on individual internal hard drives. They should be saved on multiple physical formats, such as a Gold CD-R with phthalocyanine dye and an external hard drive. Protocol should be in place for periodic review and upgrading physical systems.		Electronic files should not reside on individual internal hard drives. They should be saved on dedicated servers with RAID technology as well as off-site storage at a facility that is geographically distant from the source institution. Protocol should be in place for periodic review and upgrading physical systems.	
	File Transfer to Client	Gold CD-R with phthalocyanine dye		Gold CD with phthalocyanine dye, File Transfer Protocol (FTP)	
	Physical Copy	AIC Guidelines require a physical copy to be kept with treatment records. Images should be printed with a combination of pigmented inks and photo quality paper that has been tested for longevity by an independent firm such as Wilhelm Research Institute (WRI). Laser printed copies have been proven to not be archival, and therefore should not be used for documentation photography.			

Page 1 Sec 1 1/1 At 0.6" Ln 1 Col 1 REC TRK EXT OVR

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Regional Contact



The regional contact will:

- Check park lists
- Make recommendations to parks for changes
- Forward lists to program coordinator
- Provide encouragement and information to the parks

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Who can participate now without cost?

- ❑ Fee collection parks that retain 100% of admissions
- ❑ Parks that do not collect admission fees
- ❑ How can my 80% fee retention park participate?
 - Use PMIS template to apply for future funding



How will the Project Work?

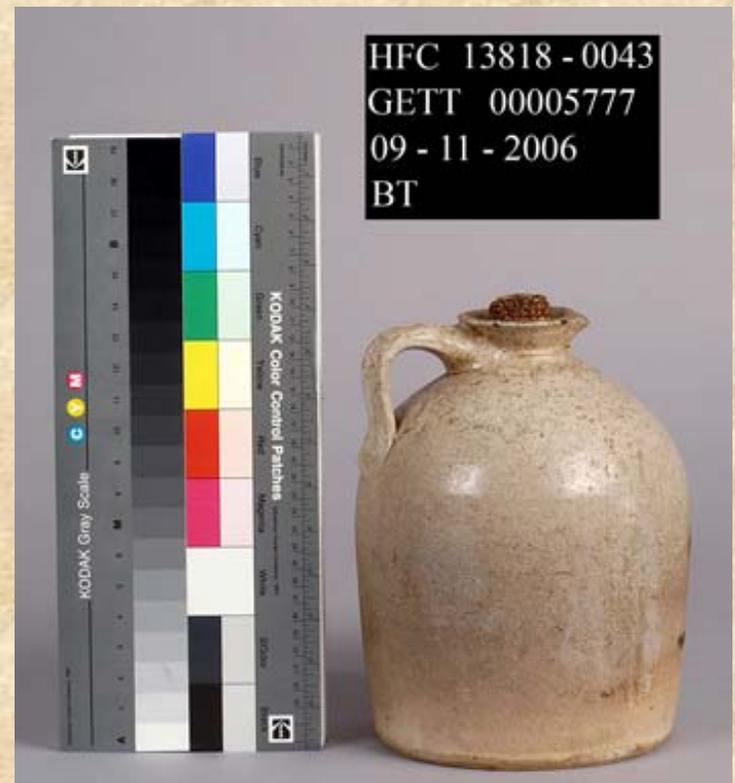
- A. Each park designates a contact person
- B. Provide a list of up to 300 objects to be photographed
- C. List approved by the Regional Contact
- D. Forward list to project coordinator, Alice Newton

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Photographed Objects:

- Must be owned by the park
- Must be cataloged
- Must be free of copyright or other use restrictions



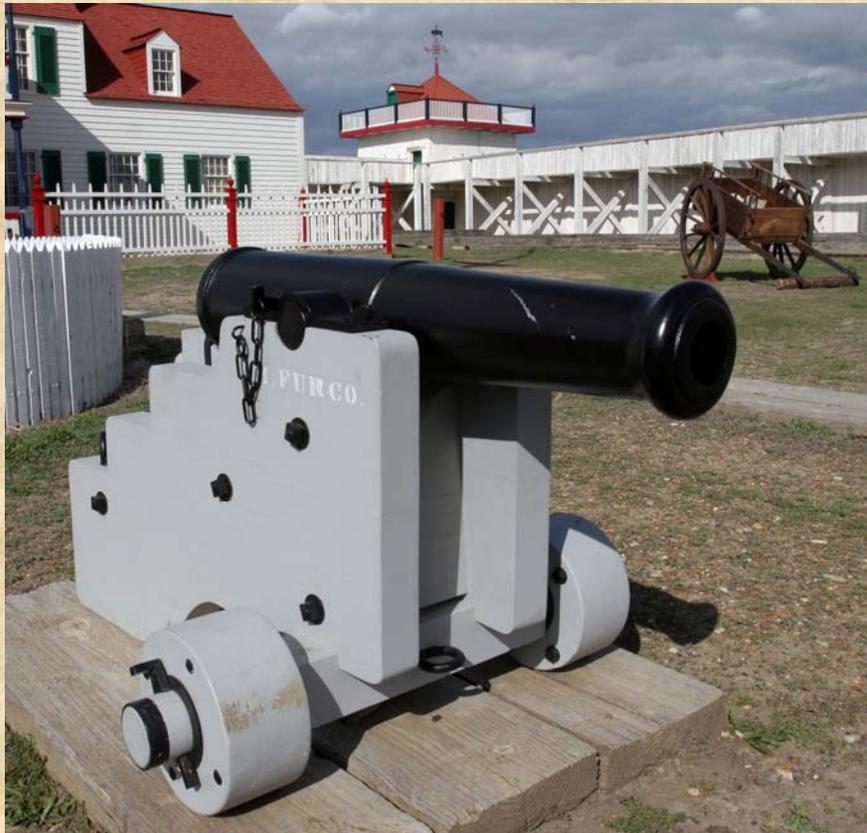
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- Large, small, flat or three-dimensional objects can be photographed



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- Objects may be located outdoors.



Books or Photo Albums:

- Count as one object when the exterior only is photographed
- Each interior page that is captured will be counted as one image.

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Scheduling

- The park will be contacted
- Schedule for the site visit will be developed with park
- Park will provide catalog cards for all objects to be photographed



Trip Preparation



- All equipment needed is brought or sent to park

Digital Imaging Work Area

- Low traffic area
- Access to power
- Need flat surface
- Free of obstruction



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Project Museum Technician



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Digital Asset Management



Naming, organizing, reproduction and archiving protocols will adhere to established project standards and be completed on color managed equipment.

Layers



The image contains multiple layers increasing usefulness

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- Add a layer with a watermark

HFC 13722 - 0001
GETT 00030224
10 - 12 - 2006
AT



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■ Metadata

Ammo_Box_2.jpg

Description

Document Title:

Author:

Author Title:

Camera Data 1

Make: NIKON CORPORATION

Model: NIKON D2X

Date Time: 2006-10-12T07:51:20-04:00

Shutter Speed:

Exposure Program: Manual

F-Stop: f/9.0

Aperture Value:

Max Aperture Value: f/2.8

ISO Speed Ratings:

Focal Length: 60.0 mm

Lens:

Flash: Did not fire

No strobe return de

Unknown flash mod

Flash function prese

No red-eye reductio

Metering Mode: Pattern

Powered By **xmp**

Ammo_Box_2.jpg

Camera Data 1

Make: NIKON CORPORATION

Model: NIKON D2X

Date Time: 2006-10-12T07:51:20-04:00

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Unknown flash mod

Flash function prese

No red-eye reductio

Metering Mode: Pattern

Powered By **xmp**

Ammo_Box_2.jpg

Camera Data 2

Pixel Dimension X: 4008 Y: 2368

Orientation: Normal

Resolution X: 300 Y: 300

Resolution Unit: Inch

Compressed Bits per Pixel:

Color Space: sRGB

Light Source: Unknown

File Source: DSC

OK Reset

Powered By **xmp**

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Product

The park will receive
72 and 300 dpi
images on gold
standard disk for
their use





What will this “free” service cost the park?

- Salary of park staff member who is contact and helps retrieve objects for photography
- Additional use of electric power for lighting
- Use of space during on-site visit



Benefits To The Park

- Receive high quality digital images captured by professional photographers
 - Use images on the NPS Web Catalog and NPS Focus, for in-house or commercial publications, on park web site or other electronic media and with ANCS+ catalog records
 - Images are in the public domain
- Collections will be preserved through reduced handling
- Increase visitation through media generated interest

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- Public will have a greater understanding of the park and its collection
- Receive a greater number of research requests
- More volunteers to the park
- Increase external funding for special object care
- Increase sales in gift shop
- Park participates in the development of digital imaging standards

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Next Steps

- Complete beta testing photographic and image processing at HFC with the GETT objects
- Complete documentation of project protocols and standards
- Site test in the local geographic area
- Revise protocols, techniques and logistics as needed
- Start park work



Digital Imaging Team



Darryl Herring

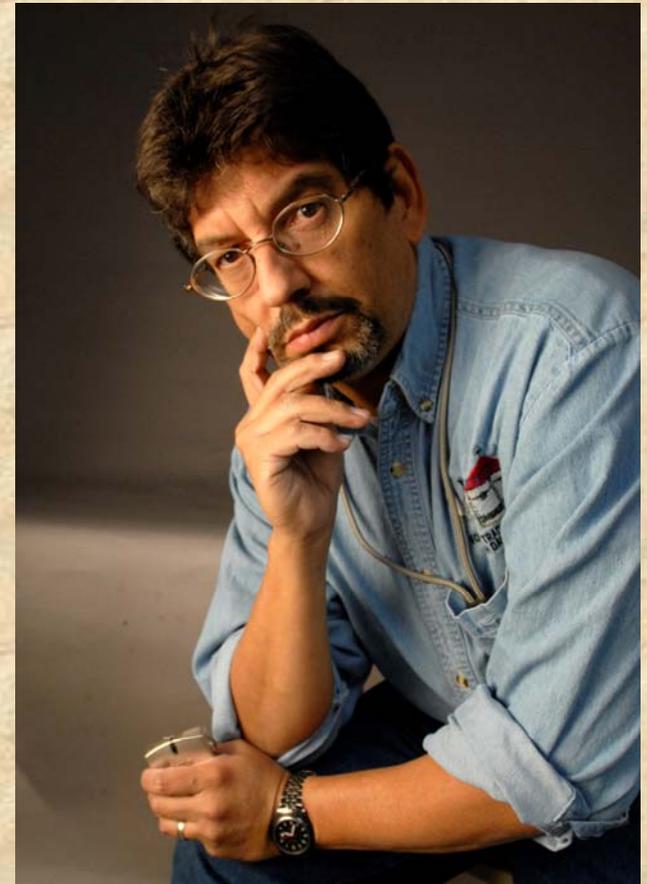
- Photographer and technical advisor to the Digital Imaging Project
- Former Naval photographer earning the highest military commendations
- Former lead preservation photographer for National Archives

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Max Ramirez

- Digital Team photographer
- MA in Photography from San Francisco State University
- Over 30 years of still and motion picture experience in the private sector

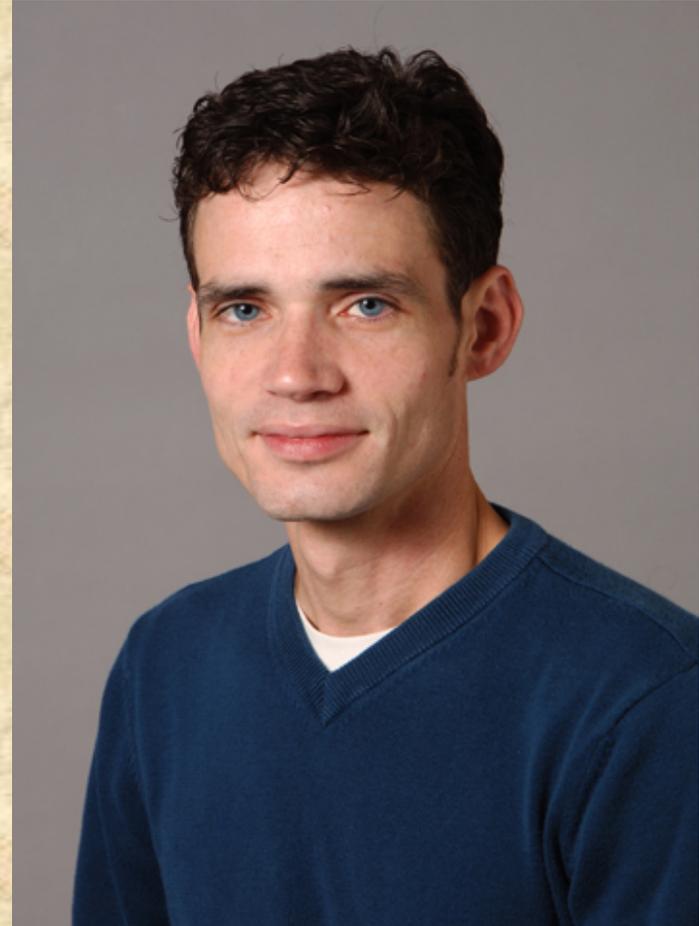


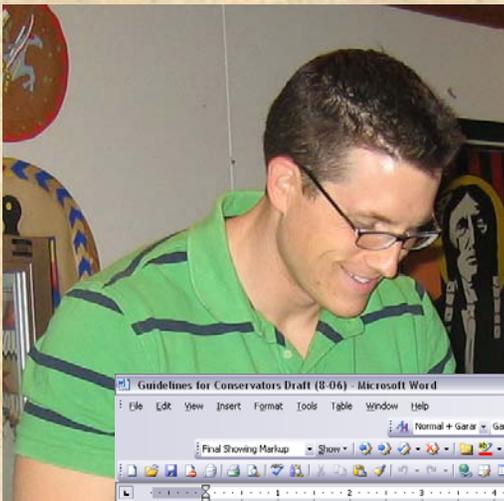
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Jim Carey

- Shepherd University Graduate with Historic Preservation Certificate
- Worked for Kathleen Byrne in the National Catalog as a NCPE intern
- Worked for HAFE with staff archeologist





Adam Novak

- Intern with NPS as a U of Delaware student in Art Conservation graduate program
- Working on an independent study to further establish standards in consultation with leaders of industry and conservation fields

Guidelines for Conservators Draft (8-06) - Microsoft Word

DRAFT, 8/10/06, Adam Novak, WUDFAC Fellow

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Page 1 Sec 1 1/1 At 0.6" Ln 1 Col 1 REC TRK EXT OVR

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Alice Newton

- Project technical lead
- 20 years with the NPS in conservation and collection management

