Designing Interdisciplinary Collections Internships for College Students

Emily Patton Smith, Collections Manager Randolph College Natural History Collections Project (NHCP) March 19, 2015

My Background...





- BA in Heritage Preservation from Randolph College (2012)
- Preservation Institute: Nantucket (University of Florida, 2004); Poplar Forest Archaeological Field School (2014)
- Summer research in England & Scotland (2006): Sydney Parkinson
- Senior Thesis: "Tales Dead Birds Tell: the historical and cultural context of early avian specimens in the Biology collections of Randolph College" (2011)
- Research Partner in HistoryTech, LLC (present)

Natural History Museum, London

Natural History at Randolph College

- Begun c. 1895
- Zoological Specimens: Birds, Mammals, Fish, Reptiles, Amphibians, Insects, Marine Invertebrates
- Fossils & Geology
- Herbarium: Indigenous & Non-Native Plants (Eastern U.S.)
- Human Osteological Specimens
- Antique Wall Charts & Microscope Slides



Our Collections in 2011:





- Handwritten inventory of mammal and bird skins (incomplete)
- Geology inventory for only a few hundred specimens, tags missing & numeration not current
- Specimens hastily boxed and stored in attic, basement







The Natural History Collections Project

- Begun 2011; started with 1 intern / 2 volunteers
- Currently 8-12 interns and 15+ volunteers *per academic semester*



What Our Interns Do:

- Specimen preparation
- Photography / digitization
- Cataloging and inventory
- Tagging and organization
- Cleaning, repair, and reconstruction
- Display design and setup
- Website design and maintenance
- Social media management
- Active collections-based research (with collaborating faculty)
- Educational outreach programs
- Art and creative writing projects





Why Internships?

- Recent emphasis on "co-curricular activities"
- Supplement & enhance classroom learning while providing career-related experience
- Students with hands-on experience are more competitive
- Helps mitigate cost of personnel / staffing



Why Interdisciplinary?

Dr. Loretta Jackson-Hayes (Rhodes College):



http://www.washingtonpost.com/posteverything/wp/2015/02/18/we-dont-need-more-stem-majors-we-need-more-stem-majors-with-liberal-arts-training/?hpid=z11

Why Interdisciplinary?

- Randolph College has a liberal arts emphasis
- Collections work is relevant to students outside museum studies or science career fields
- Students from "outside disciplines" bring fresh perspective, innovative approach to tasks
- Advocates for the importance of collections: journalism, business, law, education, political science / public policy...
- Collaboration with other departments = expanded possibilities for sources of funding





Structuring Internships



At the Smithsonian with Chris Milensky

Milanalar

Randolph College ScienceFest

Consider:

- Collection needs / priorities
- Student interests
- Unusual opportunities (including community outreach and networking)



Collections-Based Projects: The Walter A. Weber Collection



Sketches and specimens by Walter A. Weber





Inventory

Digitizing



Structuring Internships

- Joint effort with Career Development Center
- Requirements for • academic credit:
 - 3 hrs work / week per credit hour
 - Writing requirement (blog posts)
 - Associated reading (articles if 1-credit, book if 3-credit)
 - Public presentation
 - Workshop attendance

Learning from Taxidermy Posted on April 22, 2014 by Emily Smith





NO BONE UNTURNED

ı Kelia Cutkelvir

As a biology major, and a hope-to-be veterinary student, learning all I can about animals has been a very important and enjoyable effort in my life. I never tire of finding new and interesting ways to expand my knowledge and finding thrilling experiences in the biology field. For this reason there was no doubt in my mind that for my spring internship I wanted to participate in Randolph College's Natural History Collection. I had heard much about the Collection's Project in the fall and had been able to take part in it after finding a deceased bird on the steps of Moore Hall and it was that one experience that let me know that this was something I would be interested in.



Other Options...



- Non-credit internships (volunteer)
- Independent study (research)
- Work study



Managing Internships

Create straightforward systems:

- Clear procedure sheets
- Reference binders
- Project folders
- Project task board
- Log of hours
- Specimen collecting kits





Managing Internships

• Open workdays

- students interact with other interns who have different tasks or projects
- Weekly & monthly workshops
 - teach collections management skills (weekly)
 - topics-based or career development opportunities (monthly)





Managing Internships





Advertising Internships:

- Brochure
- Word of mouth
- Social media:
 - Facebook, Twitter, Tumblr (Hootsuite)
- Community bulletin board (online portal)
- Collections bulletin board (in department)
- Direct targeting—professors in related disciplines
- Gold Key (Admissions) tours
- Campus "Involvement Fair" (fall)

Effective Internships:

- Communication: email, verbal
- Active demonstration
- Accountability, clear expectations
- Approachability
- Productivity
- Timeliness
- Sometimes the best interns are *not* the best students!



Projects to Consider for Interdisciplinary Internships:

- Specimen preparation / restoration (art students, biology / pre-vet)
- Cataloging / data entry (museum studies, all sciences, library science / archiving, history, archaeology, sociology)
- Digital photography (art / photography, biology, journalism / communications)
- Geology identification and cataloging (environmental studies, geology, chemistry)
- Wet preps / fluid identification and maintenance (biology and chemistry)
- Website development (business/ marketing, computer technology, graphic design, creative writing / journalism, psychology)
- Display design (art / graphic design, history, education, museum studies, marketing, creative writing, communications, philosophy)
- 3-D replication and printing (art / graphic design, technology / engineering, physics)
- Virtual gift shop (business / marketing, art / graphic design, psychology)

Forensics:

- health and gender data for archaeological remains and articulated skeletons
- DNA sampling
- sources of specimens
- detection of hemoglobin







Bioarchaeology

- MNI for burials at Bir-el-Knissia, Tunisia
- Palynology and phytolith analysis of historic farm sites (proposed)





Dendrochronology

species and growth rates of trees on campus





Field ecology

- Pollinators in Botanic Garden and Organic Garden
- Micro- and macro-invertebrate studies of local stream systems (possible)

Species most at risk for window kills, roadkill in different seasons (salvage collections)



Collections-Based Projects: Art Collaborations



Eagle study by Laura Snell



Opening reception for "Aves" at the Maier Museum of Art



Aves: Birds from the Natural History and Art Collections at Randolph College

January 22-April 12, 2015





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tes, and fossils. The herbaris ands of specimens of plants indi al Virginia. In addition, a e

tes back to at least 1895, with ogical specimens amassed by Fernando Wood tin, chair of the department of Physics and Biol hat was then Randolph-Macon Woman's Colleg

Khavya Pradhan with Prof. Kathy Muehlemann, showing Khavya's painting of our Carolina Parakeet

What A Few of Our Members and Graduates Are Doing Now:

• Graduate Studies:

- History
- Veterinary Studies (Virginia Tech--2)
- MS Microbiology (Wagner College)
- MS Environmental Science (Evergreen State University)
- Ecology research at Oak Ridge National Laboratory
- Avian species documentation in Ecuador
- Assistant to Executive Director, Provisions Library (George Mason University)
- Internship at Chicago Botanic Garden
- Teaching (Rustburg High School)
- Project Official for Carbon Business Office (CBO) at Thailand Greenhouse Gas Management Organization
- Wilderness Guide (Greenland)
- Year in Britain (University of Reading)

