

# Preview of Award 0956129 - annual Project Report Year 4

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## Cover

Federal Agency and Organization Element to Which Report is Submitted:

4900

Federal Grant or Other Identifying Number Assigned by Agency:

0956129

Project Title:

RCN-UBE: Advancing Integration of Museums into Undergraduate Programs (AIM-UP!)

PD/PI Name:

- Joseph A Cook, Principal Investigator
- Charles C Davis, Co-Principal Investigator
- Stefanie M Ickert-Bond, Co-Principal Investigator
- Eileen A Lacey, Co-Principal Investigator

Recipient Organization:

University of New Mexico

Project/Grant Period:

05/01/2010 - 04/30/2016

Reporting Period:

05/01/2013 - 04/30/2014

Submitting Official (if other than PD/PI):

- Joseph A Cook
- Principal Investigator

Submission Date:

05/01/2014

Signature of Submitting Official (signature shall be submitted in accordance with agency specific instructions)

Joseph A Cook

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## Accomplishments

**\* What are the major goals of the project?**

The primary goal of this RCN-UBE, entitled AIM-UP! (Advancing the Integration of Museums into Undergraduate Programs), is to develop a network of educators committed to increasing the use of natural history collections in undergraduate learning. In addition to establishing connections among instructors from diverse institutions, the network seeks to develop novel tools, exercises, and pedagogical perspectives aimed at incorporating the vast physical, genetic, and bioinformatic resources of museums into the undergraduate student training experience.

**\* What was accomplished under these goals (you must provide information for at least one of the 4 categories below)?**

Major Activities:

1. Annual All-Hands Meeting – Museums and Climate Change, Asilomar, California (26 Feb-2 March 2014).
2. Annual web-based seminar (coordinated by UC Berkeley) simulcast to multiple institutions.  
  
Theme: museums and climate change.
3. Module outlines and development
4. Integration of museum-based teaching to other disciplines
5. Coordination and interaction with other RCNs (CollectionsWeb, CaseNet) and digital initiatives (e.g., iDigBio, IPlant, TCNs, VertNet, Arctos, MapofLife, TreeofLife.)
6. Poster presentations.
7. Talks and workshop participation: Sitka WhaleFest Educational Outreach (October 2013), Alaska Botany Forum (November 2013), iDigBio Education Workshop (January 2014), CollectionsWeb Small Collections meeting (April 2014);
8. Courses: Museum Databases and Climate Change (November 2013) Universidad de la Republica, Montevideo, Uruguay; Museums

Specific Objectives:

1. Develop new ways to use specimens and associated data in undergraduate education
2. Increase awareness of educational resources contained in natural history collections
3. Promote understanding of collections and specimen-based science
4. Increase data accessibility and use of freely available collections data portals
5. Partner with non-traditional users of museums collections (e.g., Tribal colleges)
6. Establish international collaborations (e.g., translate modules into Spanish)

Significant Results:

1. Publications: BioScience article, others in prep
2. New educational modules (e.g., BACK: Biodiversity Assessment using Coal “Kugeln” [Coal Balls]), new courses (University of Florida, Universidad de la Republica)

3. All-Hands meetings at Asilomar, California (26 February to 2 March 2014) — annual progress reports, exchanges of new ideas, development of modules and papers, assessment of surveys and other forms of network evaluation

4. Web-distributed Seminars—Climate Change and Museums, Spring Semester 2014, (hosted by University of California Berkeley, with University of New Mexico, University of Alaska Fairbanks, and others)

Key outcomes or Other achievements:

Nothing to report

**\* What opportunities for training and professional development has the project provided?**

Ongoing incorporation of new network members is increasing the number of educators aware of the value of natural history collections in undergraduate teaching. Participation in network activities provides these individuals with training in collections-related science and promotes development of new educational activities. Participation by network members in other RCN's and educational workshops is improving the breadth, depth, and effectiveness of materials offered by AIM-UP! to assist undergraduate instructors from diverse institutions.

**\* How have the results been disseminated to communities of interest?**

Continued development of the AIM-UP.org website allows educators and museum professionals to learn about the opportunities, download dispersion and education modules, and interact with others with similar interests. Presentations at national and international meetings and participation in workshops also serve to make educators aware of the network and its activities.

**\* What do you plan to do during the next reporting period to accomplish the goals?**

1. Regular emails and online meetings among project PIs
2. Annual workshop planned for February 2015 in New Mexico
3. Simulcast seminar during spring 2015 with focus on the human dimension of natural history collections
4. Scheduled workshops for the American Society of Mammalogists and the Ecological Society of America
5. Poster or oral presentations at Society for the Preservation of Natural History Collections, National Association of Biology Teachers, Society for Vertebrate Paleontology
6. Invited Address as iDigBio symposium "Natural History Collections in the 21st Century" Gainesville. FL

**Supporting Files**

	Filename	Description	Uploaded By	Uploaded On
<a href="#">(Download)</a>	Asilomar Agenda Final.pdf	Agenda for 2014 Asilomar All Hands meeting	Joseph Cook	05/01/2014

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## Products

### Books

### Book Chapters

### Conference Papers and Presentations

- Cook, JA. (2014). *AIM-UP! The RCN-UBE focused on integrating collections into education..* iDigBio Education Workshop. Gainesville, FL. Status = OTHER; Acknowledgement of Federal Support = Yes
- Galbreath, K. (2014). *AIM-UP! Using Natural History collections in Undergrad Education..* CollectionsWeb Small Collections meeting. Michigan. Status = OTHER; Acknowledgement of Federal Support = Yes
- Ickert-Bond, S.M., J.S. Metzgar. (2013). *ALA herbarium updates..* Alaska Botany Forum,. Fairbanks, Alaska.. Status = OTHER; Acknowledgement of Federal Support = Yes
- Kohli, B., J. Malaney, K. Bell, and J. Cook. (2012). *Aim-UP! Integrating museums into undergraduate education..* Evolution Society,. Ottawa, Canada. Status = OTHER; Acknowledgement of Federal Support = Yes
- López, A., Ickert-Bond, S.M. and K. Winker. (2012). *Improving STEM Teaching Through Integrating and Building Natural History Collections: Applications for Understanding Climate Change, Sustainability, and Adaptation..* American Indian Science and Engineering Society National Conference. Anchorage, Alaska. Status = OTHER; Acknowledgement of Federal Support = Yes
- Bell, K., J. A. Cook, and E. Lacey. (2013). *Incorporating natural history collections into undergraduate education..* American Society of Mammalogists. Philadelphia,. Status = OTHER; Acknowledgement of Federal Support = Yes
- Winker, K., Ickert-Bond, S.M., and A. López. (2012). *Using Natural History Collections in Biodiversity Research and Education at a University Museum..* AISES National Conference <http://www.aises.org/nationalconference>. Anchorage, Alaska. Status = OTHER; Acknowledgement of Federal Support = Yes

### Inventions

### Journals

- Cook, J.A., S. V. Edwards, E. Lacey, R. P. Guralnick, P. S. Soltis, D. E. Soltis, C. Welch, K. C. Bell, K. E. Galbreath, C. Himes, J. M. Allen, T. A. Heath, A. C. Carnaval, K. L. Cooper, M. Liu, J. Hanken, S. Ickert-Bond. (). Natural History Collections as Emerging Resources for Innovative Undergraduate Education. *Bioscience*. . Status = ACCEPTED; Acknowledgment of Federal Support = Yes ; Peer Reviewed = Yes

## Licenses

## Other Products

## Other Publications

- Lacey, E., Cook, J., Edwards, S. and Ickert-Bond, S. (2012). *AIM-UP!: Increasing Integration of Museums into Undergraduate Education*. Presentation at ScienceCasetNet meeting. Status = OTHER; Acknowledgement of Federal Support = Yes

## Patents

## Technologies or Techniques

## Thesis/Dissertations

## Websites

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# Participants/Organizations

## What individuals have worked on the project?

Name	Most Senior Project Role	Nearest Person Month Worked
<a href="#">Cook, Joseph</a>	PD/PI	1
<a href="#">Davis, Charles</a>	Co PD/PI	0
<a href="#">Ickert-Bond, Stefanie</a>	Co PD/PI	1
<a href="#">Lacey, Eileen</a>	Co PD/PI	1
<a href="#">Ackerly, David</a>	Faculty	0
<a href="#">Barnosky, Anthony</a>	Faculty	0
<a href="#">Bart, Hank</a>	Faculty	0
<a href="#">Carnaval, Ana</a>	Faculty	0
<a href="#">Cooper, Kim</a>	Faculty	0
<a href="#">Daly, Marymegan</a>	Faculty	0
<a href="#">Dawson, Todd</a>	Faculty	0
<a href="#">Galbreath, Kurt</a>	Faculty	0
<a href="#">Good, Jeff</a>	Faculty	0
<a href="#">Guralnick, Robert</a>	Faculty	1
<a href="#">Hanken, James</a>	Faculty	0
<a href="#">Himes, Chris</a>	Faculty	0
<a href="#">Marshall, Charles</a>	Faculty	0
<a href="#">McCormack, John</a>	Faculty	0

<b>Name</b>	<b>Most Senior Project Role</b>	<b>Nearest Person Month Worked</b>
<a href="#">Monfils, Anna</a>	Faculty	0
<a href="#">Root, Terry</a>	Faculty	0
<a href="#">Salazar Bravo, Jorge</a>	Faculty	0
<a href="#">Soltis, Doug</a>	Faculty	0
<a href="#">Soltis, Pam</a>	Faculty	0
<a href="#">Welch, Corey</a>	Faculty	0
<a href="#">Williams, Charles</a>	Faculty	0
<a href="#">Alexander, Lois</a>	Community College Faculty	0
<a href="#">Whorley, Josh</a>	Community College Faculty	0
<a href="#">Fitzpatrick, Megan</a>	K-12 Teacher	0
<a href="#">Heath, Tracy</a>	Postdoctoral (scholar, fellow or other postdoctoral position)	0
<a href="#">Liu, Mark</a>	Postdoctoral (scholar, fellow or other postdoctoral position)	0
<a href="#">Maher, Sean</a>	Postdoctoral (scholar, fellow or other postdoctoral position)	0
<a href="#">Echevarriarza, Maria Paz</a>	Other Professional	0
<a href="#">Erb, Peter</a>	Other Professional	0
<a href="#">Bell, Kayce</a>	Graduate Student (research assistant)	1
<a href="#">Hammond, Tali</a>	Graduate Student (research assistant)	6