

CURRICULUM VITAE - JOHN ABBOTT PECK

January 5, 2011

I. **Contact Information:**

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II. **Educational History:**

Ph.D. - 1995 Graduate School of Oceanography - University of Rhode Island
(Geologic Oceanography)
M.S. - 1989 Graduate School of Oceanography - University of Rhode Island
(Geologic Oceanography)
B.S. - 1986 University of Rhode Island (Geology, Minor in Education
leading to Secondary Science Teaching Certificate)

III. **Professional History:**

2005 to present Associate Professor, University of Akron
2000 to 2005 Assistant Professor, University of Akron
1997 to 2000 Assistant Marine Research Scientist, University of R.I.
1995 to 1997 Post-Doctoral Researcher, University of R.I.

IV. **Research Activities:**

A. **Area of Specialization:**

My field of specialization is the study of sediment deposits to infer past climate change and/or anthropogenic impacts.

B. **Research and its significance**

Paleolimnology and paleoclimatology: My research includes the application of environmental magnetic and traditional sedimentologic methods to the study of sedimentary environments to address paleolimnology, and paleoclimatology issues. Through the use of this interdisciplinary approach, a more complete geologic record of environmental change can be attained. Well-dated, multiproxy climate records are required for assessing computer climate models. Currently, a major focus of my research is to provide new paleoclimatic records from West Africa.

Anthropogenic Impacts: I apply hydrologic, geomorphic, magnetic and geochemical methods to the study of human impacts on sedimentary environments. Currently, I study anthropogenic impacts on sediment yield and contamination in both lacustrine and fluvial systems in Ohio.

Dating sediments: Quaternary sediments are difficult to date; however accurate age control is required to determine the rates of biogeochemical processes. My research involves the application of traditional dating methods (^{14}C , ^{210}Pb , ^{137}Cs , U-series, OSL, paleomagnetic stratigraphy) and innovative dating methods (relative geomagnetic intensity) to construct robust age models for sediment deposits.

C. Funded Research while at The University of Akron:

1. Year of Award: 2010
Funding Agency: Friends of the Crooked River
Title: GPR investigation to locate and delineate the Pinery Feeder Dam
PI: John Peck
Funding Level: \$1,000
2. Year of Award: 2006-2010
Funding Agency: NSF-0602355
Title: High-resolution, Low-latitude Paleoclimatology from New Acquired Sediment Drill Cores from Lake Bosumtwi, Ghana
PI: John Peck
Funding Level: \$207,319
3. Year of Award: 2006-2010
Funding Agency: R7103-Ohio Board of Regents
Title: OBR Individual Research Challenge; High-resolution, Low-latitude Paleoclimatology from New Acquired Sediment Drill Cores from Lake Bosumtwi, Ghana
PI: John Peck
Funding Level: \$14,104
4. Year of Award: 2010
Funding Agency: Friends of the Crooked River
Title: Seismic Study of Gorge Dam Pool Sediments
PI: John Peck
Funding Level: \$5,000
5. Year of Award: 2007, 2008, 2009, 2010
Funding Agency: Mr. Gary Harris donor
Title: Involving students in paleoenvironmental research experience
PI: John Peck
Funding Level: \$4,000 (at \$1,000 per yr)
6. Year of Award: 2008-2009
Funding Agency: Stoller Fund (University of Akron)
Title: Undergraduate Active Learning using a Sediment Transport Demonstration Channel
PI: John Peck
Funding Level: \$16,000
7. Year of Award: 2004-2005
Grant Number: NSF-ATM-0402010
Title: Collaborative Research: High-resolution, low-latitude paleoclimatology through scientific drilling of Lake Bosumtwi, Ghana
PI: John Peck
Funding Level: \$392,412

8. Year of Award: 2003-2004
Grant Number: Summit County Environmental Services PO-003387
Title: Sediment sampling of the Cuyahoga River in the vicinity of the Munroe Falls dam
PI: John Peck
Funding Level: \$3,600
9. Year of Award: 2003-2004
Grant Number: Ohio Internal House Bill Monies
Title: Digital mapping systems for geology field camp
PI: John Peck
Funding Level: \$37,792
10. Year of Award: 2002-2003
Grant Number: 207507
Title: University of Akron Faculty Research: The environmental magnetic record of ecosystem and land use change from Summit Lake, Akron, OH
PI: John Peck
Funding Level: \$4,000
11. Year of Award: 2001-2003
Grant Number: NSF-EAR-0110840
Title: Acquisition of Basic Environmental Magnetism Laboratory Equipment
PI: John Peck
Funding Level: \$106,107
12. Year of Award: 2001-2003
Grant Number: NSF-ATM-0117414
Title: High-resolution paleoclimatology from newly acquired sediment cores from Lake Bosumtwi, Ghana
PI: John Peck
Funding Level: \$32,022
13. Year of Award: 2001-2003
Grant Number: R5492-Ohio Board of Regents
Title: OBR Individual Research Challenge; Acquisition of Basic Environmental Magnetism Laboratory Equipment
PI: John Peck
Funding Level: \$20,000
14. Year of Award: 2001-2003
Grant Number: R5537- Ohio Board of Regents
Title: OBR Individual Research Challenge; High-resolution paleoclimatology from newly acquired sediment cores from Lake Bosumtwi, Ghana
PI: John Peck
Funding Level: \$8,000

16. Year of Award: 1998-2001
 Grant Number: NSF-ATM9709438
 Title: Collaborative Research: High Resolution, Interdisciplinary Paleoclimatic Studies of Late Quaternary Lacustrine Systems in Mongolia
 PI: John Peck
 Co-PIs: John King (URI), Sarah Fowell (U.Ak), Doug Williams (Univ. S.C.)
 Funding Level: \$225,750 (Peck)
 Special Note: All funds remaining in this grant were transferred to the Univ. of Akron (~\$20,000).

17. Year of Award: 1998-2001
 Grant Number: NSF- REU Supplement to ATM-9709438
 Title: Collaborative Research: High Resolution, Interdisciplinary Paleoclimatic Studies of Late Quaternary Lacustrine Systems in Mongolia - REU Supplement
 PI: John Peck
 Funding Level: \$15,000 (Peck)
 Special Note: All funds remaining in this grant were transferred to the Univ. of Akron (~\$5,000).

D. Prior Funded Research while at the University of Rhode Island:

1. Year of Award: 1997-2001
 Grant Number: NSF-EAR9614426
 Title: Collaborative Research: Lake Baikal Drilling Project: High Resolution Studies of Paleoclimate Change in South-central Siberia During the Plio-Pleistocene
 PI: Doug Williams (Univ. S.C.),
 Co-PIs: John King (URI), John Peck (UA), Zhenya Karabanov(Univ. S.C.)
 Funding Level: \$279,829

2. Year of Award: 1998-2001
 Grant Number: NSF- REU Supplement to NSF-EAR9614426
 Title: Collaborative Research: Lake Baikal Drilling Project: High Resolution Studies of Paleoclimate Change in South-central Siberia During the Plio-Pleistocene - REU Supplement
 PI and Co-PIs: John King (URI), John Peck (UA)
 Funding Level: \$30,000

3. Year of Award: 1999
 Grant Number: National Geographic Society
 Title: Interdisciplinary Paleoclimatic Studies of Late Quaternary Lacustrine Systems In Mongolia - Field work supplement to the NSF grant
 PI: John Peck
 Funding Level: \$14,609

4. Year of Award: 1998-1999
 Grant Number: Quonset Point Development Intermodal Inc.
 Title: Geotechnical Survey of the Quonset Point Dredged Channel
 PI and Co-PIs: John King, John Peck
 Funding Level: \$83,800

E. Award:

The University of Akron
Department Chairs' Award for Outstanding Achievement-Research, 2003

**F. Student Salary Supported by Peck's grants
(26 different students since 2000, over \$60,000 in student salaries):**

1. Graduate Students supported (salary) at the University of Akron
 - Dustin Bates, summer 2010
 - Nardos Tilahun, entire summers 2008 & 2009, fall 2008, spring 2009
 - Nick Kasper, August 2009
 - Paul McDonald, summer 2007
 - Tyler McIlvaine, entire summer 2006
 - Joe Rumschlag, entire summer 2006
 - Erin Steele, August 2005
 - Phil Fox, July and August 2004; entire summer 2005
 - Stephanie Haney, entire summer 2003
 - Ryan Green, entire summer 2002; entire Spring 2003 semester
 - Dawit Yifru, May-July 2001; entire summer 2002

2. Undergraduate Students supported (salary) at the University of Akron
 - Melanie Smith, fall 2010, spring 2011
 - Jennifer Court, summer 2010
 - Chrissy DeVono, fall 2009, spring 2010, summer 2010
 - Kris Mann, summers 2008, 2009, spring 2008, fall 2008, spring 2009
 - Tom Darmin, fall 2007, spring 2008, fall 2008
 - Adam Tedrick, fall 2007
 - Julie Gouin, summers 2006 & 2007, fall 2006, spring 2007, Fall 2007
 - Elizabeth Mack, all semesters fall 2005 to spring 2009, summers 2007, 2008
 - Colleen O'Shea, spring 2007
 - Debra Harris, summers 2005 and 2006, fall 2005, spring 2006
 - Andrea Mullen, all semesters from fall 2001 through spring 2004
 - Steven Sabo, December 2003
 - Heather Adams, fall 2001, spring 2002
 - Zach Jencks, spring 2001
 - Megan Curry, summer 2001

3. Undergraduate Students supported (salary) at the University of Rhode Island
 - Lee McConnel, 1999-2000
 - Shana Hamel, summer 1999
 - Rachael Potts, 1999-2000
 - Nick Begyn, 1997-2000
 - Jim Sykora, 1998-1999
 - Caelin White, 1998-1999
 - Jess White, summer 1998

G. Outside Collaborators Last Five Years:

Dr. Ala Aldahan, Uppsala University, Sweden
Dr. Nelson Hairston, Cornell University
Dr. Chip Heil, Graduate School of Oceanography, Univ. of R.I.
Dr. Andrew Henderson, Univ. of Illinois
Dr. Brad Hubeny, Salem State College, MA
Dr. John King, Graduate School of Oceanography, Univ. of R.I.
Dr. Christian Koeberl, University of Vienna
Dr. Vadim Kravchinsky, University of Alberta
Dr. Bernd Milkereit, University of Toronto
Dr. Andrew Moore, Kent State University
Dr. Jonathan Overpeck, University of Arizona
Dr. Richard Pearce, University of Southampton, U.K.
Dr. Chris Scholz, Syracuse University
Dr. Tim Shanahan, University of Texas-Austin
Dr. Mitra Yoonessi, Ohio Aerospace Institute, Ohio

H. Scientific Cruises and Field Work:

2010 - Sediment sampling and geomorphic profiling, Cuyahoga River, OH
2009 - Sediment sampling and geomorphic profiling, Cuyahoga River, OH
2008 - Sediment sampling and geomorphic profiling, Cuyahoga River, OH
2007 - Sediment sampling and geomorphic profiling, Cuyahoga River, OH
2006 - Sediment sampling and geomorphic profiling, Cuyahoga River, OH
2005 - Sediment sampling and geomorphic profiling, Cuyahoga River, OH
2004 - Scientific Drilling, Lake Bosumtwi, Ghana
2004 - Sediment sampling, Cuyahoga River, OH
2003 - Sediment coring, Summit Lake, OH
2002 - Sediment coring, Silver Lake OH; beach profiling Lake Erie
2001 - Sediment coring, Silver Lake OH
2000 - Research sediment coring trip to Lake Bosumtwi, Ghana, May 24 to June 16.
2000 - Sediment sampling, May 11-16, 2000 Portsmouth Naval Shipyard, ME
1999 - Research coring trip to Mongolia, June 15-August 5, 1999
1999 - Sediment sampling, September 7 - 12, 1999 Portsmouth Naval Shipyard, ME
1998 - Research trip to Irkutsk, Russia June 1-15, 1998
1998 - Research coring trip to Mongolia, July 16-August 15, 1998
1996 - One month field workshop in Mongolia to establish links between NSF and the Mongolian Academy of Sciences
1996 - Baikal Drilling Project, Research trip to Irkutsk, Russia
1993 - Baikal Drilling Project, Research trip to Irkutsk, Russia. Two trips in 1993.
1992 - R/V Vereshchagin (Lake Baikal, Russia)
1990 - R/V Cape Hatteras (Gulf of Maine)

I. Presentations at Special Meetings:

(see bibliography for published abstracts at annual meetings)

14. *Coalition for National Science Funding 15th Annual Exhibition and Reception on Capitol Hill, Washington, DC, March 24, 2009.* I was one of three invited geoscientists (others from Columbia University and Texas A&M) to discuss the importance of science to members of congress. My efforts included 2 hours of preparation with Dr. Prozena; time spent researching the 5 Ohio representatives I was meeting in order to tailor my discussions; creating a flyer for the Ohio delegation that highlighted UA Geology; meeting the environmental staffer for both Ohio senators and 3 congressmen; and presenting a scientific poster in the Rayburn House Office building. A report of my presentation was widely circulated in a variety of geoscience newsletters.
13. *Special International Conference on the Response of North African Ecosystems 2007.* MARUM, University of Bremen, Germany, Nov. 13-16, 2007. I was an invited speaker at this international conference where I discussed African climate change.
12. *Continental Scientific Drilling 2005: A Decade of Progress and Opportunities for the Future,* GeoForschungsZentrum, Potsdam, Germany, March 30-April 1, 2005, I was an invited speaker at this conference and made major contributions to the conference white paper.
11. *8th Annual Workshop on Continental Scientific Drilling,* Rutgers University, NJ, May 23-25, 2004, I was an invited speaker at this conference and discussed the Lake Bosumtwi drilling project.
10. *Human-Environment Interactions in Central Asia: A workshop on the archaeological and environmental history of Mongolia,* University of Pittsburgh, February 21, 2004. I was an invited speaker at this workshop.
9. *1st International Workshop on Magnetism, Hysteresis and the FORC Method ,* University of California – Davis, April 25-27, 2003, I was an invited speaker at this conference and discussed the Lake Bosumtwi sediment hysteresis measurements as a proxy for West African paleoclimate variation.
8. *9th National Conference of the Council on Undergraduate Research,* New London, CT, June 19-22, 2002. I made a poster presentation of the Department's undergraduate research efforts.
7. *International Continental Drilling Program Lake Bosumtwi Workshop,* GeoForschungsZentrum, Potsdam, Germany, Sept. 22-24, 2001. Invited speaker at this ICDP sponsored meeting.
6. *Conference on Mongolian paleoclimatology and Environmental Research,* LDEO, Columbia University. Invited speaker at this NSF workshop Nov 3-4, 2000.
5. *PAGES Leaders Meeting,* Hilterfingen, Switzerland Nov. 7-10, 1997. I presented a talk at this meeting to assess the current status of PAGES initiatives, especially the PEP transects.
4. *Very-high resolution recording of paleomagnetic field and paleoclimate variations -* Santa Fe, N.M. June 27-30, 1996. I presented a talk on sedimentary magnetism at this NSF and Keck Foundation sponsored workshop.
3. *Science Planning Workshop - Opportunities for Collaborative Research in Northern Mongolia -* Charleston, S.C. Oct. 25-28, 1995. I was an invited participant at this NSF sponsored workshop. I presented a talk and helped discuss and write the NSF

- research initiative which provides a focus for U.S. geoscience research projects in Mongolia.
2. *9th Annual Northeast Paleomagnetism Workshop* - Narragansett, R.I. Oct. 21, 1995. I presented a talk on the Lake Baikal magnetic record and participated in discussions on paleomagnetism.
 1. *Sedimentary Biogeomagnetism* - Minneapolis, Minn Sept. 1-3, 1995. I participated in discussions about the key areas of research in sedimentary biogeomagnetism at this NSF sponsored workshop.

J. Meetings Convened

3. T95 Theme Session: *Dating and environmental interpretations of lake, loess, and marine sediment sequences using paleomagnetism and rock magnetism*, Annual Geological Society of America meeting 2006.
2. Exhibits & Sponsorships Organizer for the 40th Meeting of the North-Central Section of the Geological Society of America, April 19-22, 2006.
1. PP15 Special Session: *Tropical and Subtropical Climate Change*, Fall American Geophysical Union, 2005.

K. Lectures, Other than at Professional Meetings while at the Univ. of Akron:

- 30) College of Wooster (December 2, 2010), Geology departmental seminar
- 29) Northeast Ohio Watershed Council quarterly meeting (July 28, 2010)
- 28) Franklin Club meeting (January 12, 2009), Akron professional society
- 27) Face the Nation Climate Change and National Security Forum (Nov. 18, 2009)
- 26) Munroe Falls Historical Society (Feb. 14, 2008)
- 25) MetroParksServing Summit Co. (Nov. 30, 2007), Climate Change lecture series
- 24) Kent State University (October 5, 2007), Geology departmental seminar
- 23) Cleveland State University (October 26, 2007), Biology departmental seminar
- 22) University of Waterloo, Canada, (November 18, 2005), departmental seminar
- 21) Northern Ohio Geologic Society, (November 2, 2005)
- 20) University of Akron, (December 3, 2004), departmental seminar
- 19) University of Pittsburgh (Oct. 23, 2003), departmental seminar
- 18) Franklin Club meeting (March 10, 2003), Akron professional society
- 17) Cleveland State University (February 14, 2003), Biology departmental seminar
- 16) Kent State University (October 3, 2002), Geology departmental seminar
- 15) Northern Ohio Geologic Society, (March 7, 2001)
- 14) University of Akron, (December 7, 2000), Biology departmental seminar
- 13) College of Wooster, (November 30, 2000), Geology departmental seminar
- 12) University of Akron, (November 29, 2000), Geology Club meeting
- 11) University of Akron, (September 13, 2000), Biology departmental seminar
- 10) SUNY-Stony Brook (Feb. 9, 1999) departmental seminar
- 9) Miami University of Ohio (Feb. 4, 1999) departmental seminar
- 8) University of Ill. at Chicago (Jan. 11, 1999) departmental seminar
- 7) East-Siberian Research Institute of Geology and Geophysics, Irkutsk, Russia (June 11, 1998) departmental seminar

- 6) Syracuse University (March 2, 1998) departmental seminar
- 5) University of ME-Orono (Feb. 9, 1998) departmental seminar
- 4) University of CT-Storrs (Oct. 30, 1997) departmental seminar
- 3) University of MA-Amherst (Sept. 26, 1997) departmental seminar
- 2) University of RI (August 1997), SURFO seminar
- 1) University of SC (April 28, 1997) departmental seminar

V. Teaching Activities:

A. Courses Taught at the University of Akron

1. Introductory Physical Geology (101)
2. Exercises in Physical Geology (104)
3. Paleoclimate Seminar in Geology (680)
4. Coastal Geology (421, 521)
5. Environmental Magnetism (444, 544)
6. Field Camp I (493, 593)
7. Terrestrial Records of Environmental Change Seminar (684)
8. Sedimentation and Stratigraphy (324)
9. Guest lecturer at the Honors College Natural Science Seminar Series on:
 10-1-02; 2-21-03; 3-11-03; 10-3-03; 3-2-04; 3-19-04; 5-12-04, 3-22-05,
 3-25-05, 5-18-05, 10-28-05, 3-3-06, 5-24-06, 11-3-06, 3-2-07, 3-6-07,
 10-18-07, 9-29-08, 4-8-08, 3-12-09, 3-31-09, 10-26-09, 11-11-10

B. Inquiry-based Educational Activities beyond courses taught at the University of Akron:

1. I conduct the day-to-day supervision of paid undergraduate researchers who are gaining research experience by working in the environmental magnetics laboratory. Since 2000, I have funded 15 undergraduate students (see section IV F). In addition, I have taken three of these undergraduates to perform research at the NSF-funded sediment core laboratory at the Univ. of R.I.
2. I typically spend at least 3 Saturdays every semester taking my students on all day field trips in Northern Ohio so that they may experience first-hand the material covered in lecture. I spend many days each year in the field with undergraduate honors students, undergraduate students completing research projects and graduate students conducting thesis research.
3. I have been very active implementing latest technologies and quantitative analysis across the curriculum so that our students are better trained in STEM. These efforts include writing proposals to acquire a hydraulic sediment flume and GPS mapping instruments for computer mapping. These technologies are used not only in my courses but also by many members of the department and thus impact a diverse student population beyond Arts & Science majors.
4. I lead a Departmental-wide geology field trip on October 25, 2003. This involved organizing a 5-van field trip with activities including describing sedimentary rocks, measuring stream discharge, measuring wave-climate and longshore

transport and make geologic observations and interpretations for students from many different introductory classes.

C. Student advising at the University of Akron:

1. I serve as the Department of Geology and Environmental Science undergraduate honors student advisor.
2. M.S. Graduate Students advised:
 11. Kris Mann, expected 2012. 20-th century middle Cuyahoga River (Ohio) sediment yield.
 10. Dustin Bates, expected 2011. Seismic stratigraphic analysis of urban lake and river sediments in Ohio.
 9. Hatice Poyrazli, 2010. Reconstruction of lake-level variation and shoreline position of Lake Bosumtwi, Ghana for the last 0.5 Ma, 146 pp.
 8. Nick Kasper, 2010. An assessment of the Lafever dam pool, Middle Cuyahoga River, Summit County, Ohio, 406 pp.
 7. Nardos Abebe, 2010. Paleohydrology of West Africa using carbonate, detrital and diagenetic minerals of Lake Bosumtwi, Ghana, 187 pp.
 6. Paul McDonald, 2008. Late Holocene paleoclimatic records from small lakes in Mongolia, 107 pp.
 5. Joe Rumschlag, 2007. Fluvial geomorphic and sedimentologic responses to dam removal: A case study from the middle Cuyahoga, Ohio, 296pp.
 4. Philip Fox, 2006, A 1 Ma African climate change record from Lake Bosumtwi, Ghana. M.S. Thesis, Univ. of Akron, OH. 130 pp.
Winner best presenter UA-CUGR 2004; 2nd place student presenter OLMS
 3. Stephanie Haney, 2004, The sediment record of anthropogenic impact on the Summit Lake ecosystem, Akron, Ohio, 170 pp.
Winner best presenter UA-CUGR 2004
 2. Ryan Green, 2003, A magnetic mineral record of Late Quaternary tropical climate variability from the sediments of Lake Bosumtwi, Ghana, 107 pp.
 1. Dawit Yifru, 2002, Post-glacial environmental change as recorded by Silver Lake sediments, Logan County, Ohio, 99 pp.
3. Reader of Graduate Student theses:
Biniam Zerai (2001); Kenton Trubee (2002); Cory Dalton (2002);
Matthew Geschke (2002); Natasha Demrovsky (2003); Evan Mankoff (2004);
Beth Hochstetler (2005); Vaughn Kushner (2006); Dan Zinz (2007);
Sara Sipahioglu (2008); Belinda Franko (2008); Mark Dalmon (2009),
James Addo (2009); Mike Harp (2010)
4. Supervised 6 undergraduate students taking independent research class (499)
 - Patrick Newman fall 2010. Variations in soil magnetism as related to anthropogenic pollution, urban location, and time.
 - Kris Mann spring 2009. An urban impact on the Little Cuyahoga River.

- Included giving a seminar to the department.
- Colleen O’Shea fall 2006. Characterizing minerals, sediments, and volcanic products using magnetic hysteresis loops and first order reversal curves.
 - Andrew Clark, fall 2005. Environmental magnetic properties of fly-ash from coal-fired power plants. *Winner Best Presenter UA-CUGR 2005.*
 - Ann Donkin, fall 2002, Magnetic Testing on Paleo-soils from Ziyaret Tepe, Turkey
 - Bill Bates, spring 2002, Sediment quality of Summit Lake, Ohio
 - Paula Cooper, fall 2001, Rex and North Turkeyfoot Lakes: An analyses of modern sedimentation.
5. Supervised 4 Honors College Senior Thesis Research Projects, 3 who then won *Outstanding Graduating Geology Student in Northern Ohio* from a professional science organization (NOGS):
 4. Elizabeth Mack, spring 2009, (Honors project) Using first order reversal curves (FORCS) to better characterize the rock-magnetic paleoenvironmental record from Lake Bosumtwi, West Africa.
2009 Outstanding Graduating Geology Student in Northern Ohio Winner best presenter UA-CUGR 2008 & 2009
 3. Julie Gouin, spring 2008, (Honors project) Tidalites: A Study of an Ancient Ohio Tidal Environment pp. 58
2008 Outstanding Graduating Geology Student in Northern Ohio Winner best presenter UA-CUGR 2008
 2. Andrea Mullen, spring 2005, (Honors project) Assessing Impacts on Sedimentation due to Dam Modification on the Cuyahoga River, OH p.80
2005 Outstanding Graduating Geology Student in Northern Ohio, Winner best presenter UA-CUGR 2004
 1. Pete Mazzeo, fall 2002, (Honors project) Coastal Processes and Environments Along Lake Erie at Bill Stanton Community Park, Lake County, OH pp. 46

D. Accessibility to Students

I follow published office hours and my office door is always open to students. I have provided funding both during the academic year and summer to undergraduate and graduate students. I have lead many weekend field trips for Physical Geology, Sedimentology, Coastal Geology, and Departmental-wide students. I have spent much time in the field conducting fieldwork to acquire samples for four honors college theses, eleven graduate theses and five undergraduate independent research projects. Below are excerpts from two student course evaluations that provide further evidence of my accessibility to students.

“Dr. Peck worked very hard to me get a good grade in this class and also in helping me feel good about the Geology Dept and the U. of A. as a whole. He is very generous with his time if I needed to talk.” Physical Geology student.

“ Dr. Peck is a wonderful teacher – always available for extra assistance. He is also available for assistance in other subject matters, regardless of whether or not he is teaching the subject.” Environmental Magnetism student.

E. Summary of all Course Evaluations

Course	Semester	New Course	Overall Excellence of	
			Instructor / 5	Course / 5
Year 1				
Sed.-Strat. 324	Fall 00	Yes	4.2	3.5
Paleoclimate seminar 680	Fall 00	Yes	5.0	4.5
Coastal Geology 421/521	Spring 01	Yes	4.8	4.6
Field Camp 493/593	Summer I	Yes	not administered	
Year 2				
Sed.-Strat. 324	Fall 01	No	4.3	4.1
Physical Geology 101	Fall 01	Yes	3.7	3.4
Physical Geology 101	Spring 02	No	3.3	2.7
Environ. Magnetism 444/544	Spring 02	Yes	4.8	4.6
TREC seminar 684	Spring 02	Yes	4.4	4.5
Field Camp 493/593	Summer I	No	4.6	4.4
Year 3				
Sed.-Strat. 324	Fall 02	No	4.2	3.5
Physical Geology 101	Fall 02	No	4.2	3.8
Physical Geology 101	Spring 03	No	4.2	3.8
Coastal Geology 421/521	Spring 03	No	4.9	4.6
Field Camp 493/593	Summer I	No	4.5	4.3
Year 4				
Sed.-Strat. 324	Fall 03	No	4.0	3.8
Physical Geology 101	Fall 03	No	4.4	4.0
Physical Geology 101	Spring 04	No	4.7	4.2
Environ. Magnetism 444/544	Spring 04	No	4.6	4.4
Year 5				
Physical Geology 101	Spring 05	No	4.4	3.8
Sed.-Strat. 324	Spring 05	No	4.4	4.2
Field Camp 493/593	Summer I	No	4.1	3.5
Year 6				
Physical Geology 101	Fall 05	No	4.6	3.9
Coastal Geology 421/521	Fall 05	No	4.5	4.0
Physical Geology 101	Spring 06	No	4.2	3.5
Environ. Magnetism 444/544	Spring 06	No	4.6	4.3
Year 7				
Physical Geology 101	Fall 06	No	4.9	4.6
Sed.-Strat. 324	Fall 06	No	4.5	4.4
TREC seminar 684	Fall 06	No	4.9	4.5
Coastal Geology 421/521	Spring 07	No	4.6	4.2

Year 8

Physical Geology 101	Spring 08	No	4.7	3.9
Sed.-Strat. 324	Spring 08	No	4.2	4.0
TREC seminar 684	Fall 08	No	4.6	3.8
Coastal Geology 421/521	Fall 08	No	4.3	4.0

Year 9

Physical Geology 101	Spring 09	No	4.6	4.2
Sed.-Strat. 324	Spring 09	No	3.7	3.4
(switch from IDEA to Departmental survey)				
Colloquium 696	Fall 09	Yes	4.750	4.375
Environ. Magnetism 444/544	Fall 09	No	3.800	3.6
Physical Geology 101	Fall 09	No	4.0	3.7

Year 10

Physical Geology 101	Spring 10	No	4.1	3.8
Sed.-Strat. 324	Spring 10	No	4.7	4.7
Colloquium 696	Spring 10	No	4.8	4.8
Field Camp 493/593	Summer I	No	4.19	3.94

F. Teaching at the University of R.I.

1. Taught Geomorphology (GEL 210)
2. Marine Geology (OCG 542) Taught the coastal sedimentary processes lab and led associated field trip for 3 years.
3. I conducted the day-to-day supervision of Research Experience for Undergraduates Lee McConnel, 1999-2000; Shana Hamel, summer 1999; Rachael Potts, 1999-2000 Jim Sykora, 1998-1999; Nick Begyn, 1997-2000; Caelin White, 1998-1999 Jess White, summer 1998; Todd Carrico, 1997-1998; Pat Dowling, 1997-1998 Bojana Popic, Mentor to a SURFO, 1994
4. Using National Geographic Society travel funds, I took an undergraduate geologic oceanography student (Nick Begyn) to Mongolia to participate in meaningful field research from June 15 to August 5, 1999.

VI. Public and Institutional Service:

A. Services to the Department of Geology, University of Akron:

- Leader of Departmental undergraduate program review committee who organized, wrote and submitted the Department's undergraduate program review and detailed responses to questions concerning our internal program review 2008.
- Physical Geology (101) Laboratory coordinator (2002-present) work leading to major manual revisions and enhanced TA delivery of the lab material. Wrote successful proposal to acquire demonstration flume. Resulted in new lab exercises. Redesigned several Physical Geology labs using new topographic maps and new activities.
- Created a 1-page flyer to highlight our undergraduate degree program for the UA student recruiter's office at the request of Dr. Szabo 2008.
- Conceived and created a project description - need statement - budget for the UA Development Office in June 2008. The concept was to establish an undergraduate research fellowship program that would be funded by outside donations, run by the department faculty, and open to all our majors. The Development Office needed something concrete to show potential donors and at the request of Dr. Szabo I created it in June 2008.
- Organized, bought soda, hauled over pizza, advertised, and cleaned up the mess resulting from three days of student "open houses" (Spring 08) where students could drop in the lounge and meet faculty and learn about our degrees. This event was requested by the departmental faculty to accompany the powerpoint recruiting show Ira Sasowsky and I created.
- Organized the Departmental effort to compile and present our undergraduate research efforts to the Provost on her walk about in Fall 2006.
- Guest lecturer for Analytical Methods class in 2009, 2007, 2005, 2003, 2001.
- Organizer and Leader of 10-25-2003, 5 van, Department-wide field trip for undecided majors.
- Member Departmental merit review committee (2001, 2005, 2007)
- Department of Geology faculty meeting secretary (2000-2001)
- Wrote successful proposal to acquire 15 GPS mapping units so that the field camp could be updated to include modern mapping techniques using ArcPad.
- Chair Department RTP committee, 2005
- Led effort to produce description of our graduate program goals and objectives to comply with the Ohio Board of Regents requirements.

B. Services to the University of Akron:

- Invited speaker to the Honors College seminar (22 times since 2002) "You have become a very valuable asset to the Honors Program" 4-14-04 letter from Dr. Link, Honors Program
- College of Arts & Science representative to the Honors College Council (2007 to present), includes monthly meetings and interviewing students during the special Scholarship Saturdays.
- Judge of student presentations at the 2007, 2008, 2009 Conference on Undergraduate and Graduate Student Research, University of Akron, did not judge session in which my students were presenters.

- Taught three PhD students from the College of Polymer Science how to measure the magnetic properties of their polymers in my lab.
- Arts & Sciences Teller Committee member, 2007-2010
- Faculty representative at graduation ceremonies 2002, 2003 and 2009
- Presented two departmental seminars to the University of Akron Biology Department on 9-13-00 and 12-7-00. Presented a climate change talk at the Face the Nation Climate Change and National Security Forum (Nov. 18, 2009) in the UA Student Union. Represented the University of Akron to Congress in Washington DC on March 24, 2009 (see section IV –I-14).

C. Professional Services to the community: I regularly speaker to local community groups in an effort to recruit students and advance a positive image of the University.

- Presented (powerpoint) my Cuyahoga River research at an Ohio-EPA meeting (April 8, 2010) regarding the Ohio-Edison dam removal project and to the Cuyahoga Falls City Engineer regarding the Lafever dam pool sediment fill (September 13, 2010).
- Made and presented a poster of my Cuyahoga River sediment research at the town of Munroe Falls River Day celebrations on May 16, 2009 and May 17, 2008. I was a presenter alongside OhioEPA, MetroParks, and a host of other natural science organizations.
- Spoke to Tallmadge Elementary School students concerning fossils and rocks on 5-21-09 addressing the state standards concerning sedimentary rocks
- Interview leading to article in the Cleveland Plain Dealer on April 16, 2009 concerning my climate change research.
- Participated in the Cuyahoga Valley National Park Geologic Resources Inventory scoping meeting Fall 2009.
- Represented the Department at the Akron Roundtable and prior night's reception for the CEO of the Nature Conservancy. The request was made by Fran Bucholzer who thought that the Univ. of Akron needed to be present alongside Kent and Ohio State. Fall 2009
- Hosted and presented to school children from the Hudson Middle School who visited UA and the Department on 9-15-08. They were working on a FIRST Lego League robot club and needed a “Climate Connection” topic consultant.
- Spoke to Tallmadge Middle School students concerning the Rock Cycle on 1-4-08 addressing the state standards (ES-6-1) for the rock cycle
- Served as a reader on Sarah Strano’s University of Pittsburgh Honors Thesis. Included a trip to U. Pittsburgh on June 21, 2007 for her defense.
- Spent 2 full weeks supervising a high school student's “Senior Search” research project at the University of Akron. I took Kaitlin Carmen canoeing to measure Q and gather bed sediments; taught her how to do sedimentologic measurements; taught her excel calculations and graphing; taught her Powerpoint and how to make a poster for her school presentation. May 2006.
- Spoke to school children at Overdale Primary School on May 15, 2007 about fossils and geology.

- Was a featured speaker at the Seiberling Nature Realm on Nov. 30, 2007. I was one of several speakers (others from Ohio State University and Case Western) in MetroParksServing Summit Co. Climate Change lecture series.
- Made slide show presentations to both Summit Co. Soil&Water (June 20, 2007) and MetroParks (June 6, 2007) concerning my research on the Cuyahoga River.
- Spoke to school children at Overdale Primary School on April 11, 2006 about fossils and geology.
- Research talks at other universities and colleges.
- Spoke to school children at David Beacon School on Jan. 15, 2004 and Dunbar School on March 17, 2005 about geology.
- Interviewed for the BBC World Service Discovery radio program while onsite drilling Lake Bosumtwi in 2004. Aided Keck Films Co. production of a television program regarding Bosumtwi drilling and science for a German T.V. nature program that aired in spring 2005.
- District five science fair judge March 16, 2002
- Talked to five classes at Overdale Public School on 4-23-02 about Mongolia and what a geologist does.
- Presented a talk at the Tallmadge branch of the Akron-Summit County Public Library on 3/14/01 titled “Mongolia” as part of their travel talks series.

D. Membership in Professional Societies:

American Geophysical Union
Geological Society of America

E. Journal Reviewer:

GSA Special Publication on Bear Lake (2007)
The Holocene (2007, 2008)
Journal of Great Lakes Research (2006)
Earth and Planetary Science (2006, 2009)
Journal of Paleolimnology (2002, 2007, two in 2009)
Earth and Planetary Science Letters (2002)
Geology (2002)
Palaeogeography, Palaeoclimatology, Palaeoecology (2000, 2001, 2003, 2004, 2008)
Geophysical Journal International (2000)
Quaternary Research (2003, 2005)
Journal of Sedimentary Research (2 in 2005)

F. Proposal reviewer:

NSF Paleoclimate Panel January 2010. Read and wrote reviews of 19 proposals, read and commented on another 58 proposal.

NSF Paleoclimate Panel May27-29, 2008. Read and wrote reviews of 15 proposals, read and commented on another 24 proposal.

NSF (5 in 2009; 7in 2008; 3 in 2007; 4 in 2006; 7 in 2005; 3 in 2004; 4 in 2003; 4 in 2002; 3 in 2001; 1 in 2000)
ACS-PRF (2002)
GSA Northcentral student research proposals reviewer 2003

G. Service Prior to arrival at the University of Akron:

Proposal reviews: NSF (one in 2000; two in 1999), NERC (U.K.) (1996, 1998, 1999)

Manuscript reviews: *Geoarchaeology* (1996); *Earth and Planetary Science Letters* (1996, 1997, 2002); *Geology* (2000, 2002)

Public service: Feb. 4, 1998. Channel 10 TV news, interview on R.I. coastal erosion

VIII. Complete Bibliography:

Key:

J = Articles in Professional Journals

A = Abstracts of Conference Presentations

C = Papers in Conference Proceedings

B = Books and Book Sections

P = Popular Articles

R = Reports

O = Other

T = Thesis

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- R** Peck, J.A. and Bates, D., 2010. Seismic study of Gorge Dam pool sediments: Final Report to Friends of the Crooked River & Ohio EPA. 28pp. plus Appendices.
- R** Bates, D. and Peck, J.A. 2010. A ground penetrating radar survey to find and delineate the Pinery Feeder Dam in the Cuyahoga River, near Ohio State Route 82: Final Report to U.S. Cuyahoga Valley National Park. 45 pp.
- A** Peck, J.A. and Kasper, N.R., 2010. Multi-year assessment of the removal of the Munroe Falls Dam on the middle Cuyahoga River, Ohio. *Eos Trans. AGU*, Fall Meet. Suppl., Abstract PA31E-1593.
- A** Abebe, N. and Peck, J., 2010. Hydrological variation of West Africa for the past 1 Ma using sediment in Lake Bosumtwi, Ghana. 2010 Conference on Undergraduate and Graduate Student Research, University of Akron, April 8, 2010. p. 24.
- A** Poyrazli, H. and Peck, J., 2010. Reconstruction of lake-level variation and shoreline position of Lake Bosumtwi, Ghana for the last 0.5 million years. 2010 Conference on Undergraduate and Graduate Student Research, University of Akron, April 8, 2010. p. 28.

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- J** Shanahan, T.M., Overpeck, J.T., Anchukaitis, K., Beck, J.W., Cole, J.E., Dettman, D., Peck J.A., Scholz, C.A., King J.W., 2009. Atlantic forcing of persistent drought in West Africa, *Science*, 324, 377, DOI:10.1126/science.1166352.
- A** Abebe, N. T., Peck, J. A., Shanahan, T. M., King, J. W., Overpeck, J. T., Scholz, C. A., (2009). XRD-Mineralogy of Lake Bosumtwi (Ghana) Sediments as a Proxy for Past Hydrologic Variability of West Africa. *The Geological Society of America*, Vol 41, No. 7, p101.
- A** Mack, E. and Peck, J.A., 2009. Determination of the magnetic mineralogy of sediment from Lake Bosumtwi, West Africa. 2009 Conference on Undergraduate and Graduate Student Research, University of Akron, March 26, 2009. p. 72. *Winner Best Presenter Award*
- A** Abebe, N. and Peck, J., 2009. Past hydrologic variability in West Africa as recorded by the sediments in Lake Bosumtwi, Ghana. 2009 Conference on Undergraduate and Graduate Student Research, University of Akron, March 26, 2009. p. 32.
- A** Mann, K and Peck, J., 2009. Human impacts on the Little Cuyahoga River Sediment Load. 2009 Conference on Undergraduate and Graduate Student Research, University of Akron, March 26, 2009. p. 73.
- A** McKay, N., Overpeck, J., Brown, E., Shanahan, T., Peck, J., King, J., Scholz, C., Heil, C., 2009, A scanning-XRF record of Lake Bosumtwi sediments: Implications for West African Monsoon variability over the past 500 kyr, *Eos Trans. AGU*, 90(52), Fall Meet. Suppl., Abstract PP14A-04.

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- J** Shanahan, T.M., Overpeck, J.T., Scholz, C.A., Beck, J.W., Peck J.A., King J.W., 2008. Abrupt changes in the water balance of tropical West Africa during the late Quaternary. *J. Geophysical Research*. Vol. 113, p. D12108-D12120, doi:10.1029/2007JD009320.
- J** Shanahan, T.M., Overpeck, J.T., Beck, J.W., Wheeler, C.W., Peck J.A., King J.W., Scholz, C.A., 2008. The formation of biogeochemical laminations in Lake Bosumtwi, Ghana, and their usefulness as indicators of past environmental changes. *J. Paleolimnology*. Vol. 40, p. 339-355, doi:10.1007/s10933-007-9164-4.
- A** Gouin, J. and Peck, J.A., 2008. Tidal rhythmites: A study of an ancient Ohio tidal environment 2008 Conference on Undergraduate and Graduate Student Research, University of Akron, March 27, 2008. p. 35. *Best Presenter Award*
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- A McDonald, P.J., Peck, J.A. and Rosenmeier, M.F., 2008. Paleoclimate investigation of lacustrine sediment from Lake Telmen, Mongolia. NC-GSA Abstracts with Programs, Paper no. 23-5.
- A King, J.W., Heil, C., and Peck, J.A. 2008. Paleomagnetic and mineral-magnetic results from the Lake Bosumtwi drilling project, *Eos Trans. AGU*, 89(53), Fall Meet. Suppl., Abstract : GP14A-03
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- A** Hughen, K.A., Shanahan, T.M., Drenzek, N., Overpeck, J.T., Pigati, J., Peck, J., King, J., and Scholz, C., (2007), Abrupt changes in hydrology and vegetation in the West African monsoon region since the Last Glacial Maximum, *Eos Trans. AGU*, 88(52), Fall Meet. Suppl., Abstract : PP52B-05
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- P** Fritz, S, Johnson, T., Baker, P., Colman, S., Dean, W., and Peck, J., 2006. Large lake drilling projects supported by US National Science Foundation Earth Systems History Program. *PAGES News*, vol. 14, No. 2, 19-20.

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- A Shanahan, T.M., Overpeck, J.T., Beck, J.W., Peck, J.A., King, J.W., and Scholz, C.A. 2006. Three millennia of variations in the West African monsoon: insights into tropical and global teleconnections from the varved sediments of Lake Bosumtwi. *EOS Trans.* 87(52), Fall Meeting Suppl.
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- J** Koeberl, C., Peck, J., King, J., Milkereit, B., Overpeck, J., and Scholz, C., 2005. The ICDP Lake Bosumtwi Drilling Project: A First Report. *Scientific Drilling*, vol. 1, no. 1, p. 23-27. doi:10.2204/iodp.sd.1.04.2005.
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- A** Shanahan, T.M., Overpeck, J.T., Hughen, K., Drenzek, N., Beck, J.W., Peck, J.A., King, J., Scholz, C., Wheeler, C.W., 2005. Orbital and non-orbital forcing of hydrologic and vegetation change in West Africa since the LGM as revealed by geochemical records and hydrologic modeling of Lake Bosumtwi, Ghana. *GSA Abstracts with Programs*, v. 37 no. 7, p. 524.
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