

## J. BRADFORD HUBENY, Ph.D.

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### EDUCATION

**Graduate School of Oceanography, University of Rhode Island**, Narragansett, RI

Ph.D., Geological Oceanography, July 2006

Dissertation Title: Late Holocene climate variability as preserved in high-resolution estuarine and lacustrine sediment archives. Advisor: John W. King

**Bates College**, Lewiston, ME

Bachelor of Science with Honors, Geology, May 1997

Thesis Title: Late Quaternary stratigraphy and geologic history of The Basin, Phippsburg, Maine.

Advisor: Michael Retelle

### PROFESSIONAL APPOINTMENTS

**Assistant Professor**, Geological Sciences Department, Salem State College (September 2006 – Present)

**Adjunct Assistant Professor**, Dept. of Geological Sciences, Univ. of Arkansas (September 2008 – Present)

**Adjunct Faculty**, Rhode Island School of Design (Winter Session 2006)

**Undergraduate Research Advisor**, University of Rhode Island. (September 2005 - May 2006)

**Lecturer**, University of Rhode Island, Geosciences Department (Spring 2005)

**Instructor**, University of Rhode Island, College of Cont. Educ., OCG/GEO 110 (Summer 2002, Fall 2003)

**Teaching Fellow**, NSF Funded GK-12 Program (May 2001 to August 2003)

**Graduate Student Mentor**, Summer Undergraduate Research Fellowship, Oceanography (Summer 2002)

**Teaching Assistant**, Bates College (September 1995 to December 1996)

### PROFESSIONAL DEVELOPMENT

**“Early Career Geoscience Faculty,”** On The Cutting Edge (June 2008)

Five-day workshop addressing teaching, research, and career management; competitive application.

**“Research and Writing Initiative,”** Salem State College (Summer 2007, 2008)

Participant in this program designed to promote faculty publications; competitive application.

**“Designing Effective and Innovative Courses in the Geoscience,”** On The Cutting Edge (August 2006)

Four-day NSF-funded on-line workshop; competitive application.

**“Varves: High-Resolution Recorders,”** University of Arizona (May 2006)

Invited participant: NSF-funded workshop on progress involving annually-laminated sediments.

**“How to Establish and Sustain an Undergraduate Research Program,”** GSA Workshop (October 2005)

**“Preparing for an Academic Career in the Geosciences,”** On The Cutting Edge (July 2005)

Three-day NSF-funded workshop to prepare geoscience faculty for academia; competitive application.

**“Disabilities Training for Future Faculty,”** Disability Services Dept., URI (February to March 2004)

**“Course Planning Workshops,”** Instructional Development Program, URI (August 2001)

**Experiential Education Training**, URI Office of Marine Programs (May 2001)

Two-week NSF-funded inquiry-based pedagogical training program; competitive application.

**RESEARCH EXPERIENCE**

- Paleolimnology and Environmental Laboratory**, Salem State College (September 2006 – Present)  
 Developing and maintaining an active and externally-funded laboratory with undergraduate researchers.  
 Active collaborations with Univ. of Rhode Island, Univ. of Mary Washington, Univ. of Arkansas,  
 Plymouth State University, Environmental Protection Agency.
- Graduate Research Assistant**, Paleomagnetism Laboratory, U. of Rhode Island (May 2000 – August 2006)
- Sediment Logistics Manager/Core Logger**, GLAD6 Drilling Project (July 2004 - September 2004)
- Environmental Scientist/Boat Captain**, Narragansett Bay Commission (August 2003 - January 2004)
- Beach Surveyor**, State of Rhode Island (Sept. 2000 - August 2001)
- Student Research Assistant**, Bates College (Summer 1996)
- Laboratory Assistant**, Auburn (ME) Water District (Summer 1995)

**GRANTS**

- American Chemical Society's Petroleum Research Fund**, Type UNI, \$50,000, Status: Funded 2009/11  
*Organic carbon sources and accumulation rates along a regional transect of meromictic lakes, Maine*
- MA Department of Marine Fisheries**, \$24,398, Status: Funded 2009/10  
*Stocking and Monitoring of Soft-shell clams *Mya arenaria* for HUB Line Remediation – Year IV*  
 co-PIs: J.K. Buttner and M. Fregeau, Salem State College Biology Dept.
- SSC Graduate School Summer Research Grant**, \$3,000, Status: Funded 2009/10  
*Environmental History of Sluice Pond, Lynn: Establishing a Chronology from Radiocarbon Analyses*
- National Science Foundation**, \$600,063, Status: Pending  
*CAREER: Oxbow lakes as archives for floods and human impacts*, Submitted July 2009  
 PI: S. Hausmann; Senior Associate: J.B. Hubeny

**PROFESSIONAL SERVICE**

- Session Co-Chair**, NEGSA 2009 Meeting: Symposium *Lakes and Environmental Change* (March 2009)
- Journal Peer-Reviewer**, *Environmental Modelling and Software* (2008 – Present)
- Science Mentor**, GEMS-NET Curriculum Program, URI (November 2004 – May 2006)
- Outreach Scientist**, Narragansett Bay Classroom, University of Rhode Island (April 2001 – May 2006)
- Marine Science Instructor/Boat Captain**, Project Oceanology, Groton, CT (June 1993 – May 2003)
- Volunteer**, National Ocean Sciences Bowl Competitions, Narragansett, RI (2002 - 2004)
- Tall Ship Experiential and Environmental Educator** (June 1997 – August 2000)

**COMMITTEES/BOARDS**

- North Shore Chapter, Sigma Xi**, Chapter Secretary (Sept 2009 – Present)
- Sigma Xi North Shore Chapter Installation Steering Committee** (2008/09)
- Academic Policies Committee**, Salem State College (Sept 2007 – Present)
- Geological Sciences Department Curriculum Committee** (Sept 2006 – Present)
- Strategic Planning Committee**, SOAS, Salem State College (2006/07; Sept 2009 – Present)
- Foundations of Excellence Committee**, Salem State College (2007/08)
- Alumni Awards Committee**, GSO, URI (2004/06)
- Student Admission and Review Committee**, GSO, URI (2002/04)
- Executive Board**, Friends of Oceanography, GSO, URI (2002/04)

**PROFESSIONAL ASSOCIATIONS**

- Member, Geological Society of America (1996 - Present)
- Member, Sigma Xi (1997 - Present)
- Member, American Geophysical Union (2003 - Present)
- Member, Council on Undergraduate Research (2003 - Present)
- Member, American Association for the Advancement of Science (2005 – Present)

**AWARDS/FELLOWSHIPS**

- Awarded GSO Alumni Association Grant for dissertation research supplies (2005)
- Awarded the Germaine and Francis Webb Graduate Fellowship in Oceanography for marine environmental research and outreach accomplishments stemming from thesis work in Rhode Island (2003/2004).
- Awarded GSO Alumni Association Grant for travel to national GSA meeting (2003)
- Awarded the Kenneth N. Weaver GSA Student Travel Grant (2003, 2004)
- Inducted to Sigma Xi as an associate member (1997).
- Awarded a Geologic Society of America Student Travel Grant (1997).
- Awarded the Howard Hughes Student Travel Grant, Bates College (1997).
- Awarded a Bates College Student Research Fund Grant (1996).

**LICENSES AND CERTIFICATIONS**

- USCG Licensed Merchant Marine Captain** (April 1998 - Present)  
100 Ton Near Coastal Master, 200 Ton Near Coastal Mate for Power and Sail Vessels.
- USCG Endorsed Able-Bodied Seaman-Sail** (November 1997 - Present)
- TSA TWIC Certification for Transportation Workers** (May 2009 - Present)
- Radioactive Source and Material Training**, PDLOT, URI (2002 - 2006)  
Certified to work with radioactive sources and materials.
- Laboratory Waste Management Training**, PDLOT, URI (2001 - 2006)  
Certified to work with hazardous laboratory chemicals and wastes.

**INVITED TALKS/PANELS**

- SSC SOAS Faculty Retreat:** Invited panelist for workshop *Fostering scholarly work among faculty and students*; Research advisee Courtnie Ciapciak also participated (January 2009)
- Sluice Pond Association:** *Post-Glacial History of Sluice Pond* (November 2008)
- Lynn Fish & Game Protective Association:** *The Geologic History of Sluice Pond as Preserved by Sediment Deposits* (September 2008)
- Salem State College Academic Colloquium:** *Reconstructing Histories: Creating Scholarly Community* (April 2008)
- North Shore Community College's National Global Warming Teach-In:** *Earth's Climate: Past, Present, and Future* (January 2008)
- Salem State College Honors Convocation:** Keynote Speaker (April 2007)
- Salem State College Darwin Festival:** *Paleoclimate Variability in New England and the Midwest as Recorded by Mud* (February 2007)
- Salem State College Honors Program Research Symposium:** Faculty Panelist (October 2006)
- Salem State College School of Arts and Sciences First Lecture Series:** *MUD: The Untold Story* (October 2006)

**SENIOR THESIS ADVISEES (Salem State College)**

- |         |   |
|---------|---|
| Current | Crescenzi, Em: <i>Historic trace metal accumulation in Sluice Pond, MA: Linkages between industry and the environment</i>         |
|         | English, Chip: <i>Holocene organic carbon sources and accumulation rates as recorded by sediments from Conroy Lake, ME</i>        |
|         | Lewis, Jon: <i>Comparison of the seismic and lithostratigraphic record of Holocene sediments preserved in Sluice Pond, MA:</i>    |
| 2008/09 | Ciapciak, Courtnie: <i>A multi-proxy analysis of sediment cores from Chain of Ponds, Maine</i>                                    |
|         | Sherman, Andrea: <i>A stratigraphic investigation of the Goldthwait Reserve salt marsh, Marblehead, MA</i>                        |
| 2007/08 | Ritch, Nicole: <i>Analysis of core sediments gathered from Sluice Pond (Lynn, MA) indicate post-glacial environmental changes</i> |

**THESIS COMMITTEES**

**Graduate:** Bhattacharya, Ruchi, Ph.D. candidate, University of Arkansas Department of Geosciences: Doctoral committee member for dissertation *Oxbow lakes as paleo-flood indicators* 2008 – Present

**B.S. Honors Thesis Outside Examiner**

2009: Arnold, Megan Sarah: *Sedimentation in high-arctic lake Linnévatnet, Svalbard: A modern process study using sediment traps*: Bates College Honors Thesis

2009: Pickoff, Michael Everett: *Multi-proxy organic geochemical analysis of the late-Holocene sediment record from Meetinghouse Pond, Phippsburg, ME*: Bates College Honors Thesis

**PUBLICATIONS***Peer-Reviewed Articles*

Lewis, C.F.M., King, J.W., Blasco, S.M., Brooks, G.R., Coakley, J.P., Croley, T.E. II, Dettman, D.L., Edwards, T.W.D., Heil, C.W., Jr., **Hubeny, J.B.**, Laird, K.R., McAndrews, J.H., McCarthy, F.M.G., Medioli, B.E., Moore, T.C., Jr., Rea, D.K., and Smith, A.J., 2008, Dry climate disconnected the Laurentian Great Lakes: *EOS*, V. 89 (52), p. 541-542.

**Hubeny, J.B.**, King, J.W., and Cantwell, M., 2008, Anthropogenic influences on estuarine sedimentation and ecology: Examples from the varved sediments of the Pettaquamscutt River Estuary, Rhode Island: *Journal of Paleolimnology*, doi: 10.1007/s10933-008-9226-2.

Shanahan, T.M., Overpeck, J.T., **Hubeny, J.B.**, King, J., Hu, F.S., Hughen, K., Miller, J., and Black, J., 2008, Scanning  $\mu$ -XRF elemental mapping: A new tool for the study of laminated sediment records: *Geochemistry Geophysics Geosystems*, v. 9.

Lewis, C.F.M., Rea, D.K., **Hubeny, J.B.**, Thompson, T.A., Jr., Blasco, S. M., King, J.W., Reddin, M.\*, and Moore, T.C., Jr., 2008, Past changes in the Great Lakes of North America: Context for a better understanding of their future: *Proceedings of the International Association of Theoretical and Applied Limnology*, v. 30.

King, J.W., **Hubeny, J.B.**, Gibson, C., Laliberte, E., Ford, K., Cantwell, M., McKinney, R., and Appleby, P.G., 2008, Anthropogenic eutrophication of Narragansett Bay: Evidence from dated sediment cores, in Desbonnet, A., and Costa-Pierce, B.A., eds., *Science for Ecosystem-based Management: Narragansett Bay in the 21st Century*, Springer, New York, NY, 570 pp.

Lewis, C.F.M., Heil, C.W., Jr., **Hubeny, J.B.**, King, J.W., Moore, T.C., Jr., and Rea, D.K., 2007, The classic Stanley Unconformity in northwestern Lake Huron, evidence for a closed lowstand about 7500  $^{14}\text{C}$  BP: *Journal of Paleolimnology*, v. 37 (3), p. 435-452.

**Hubeny, J.B.**, King, J.W., and Santos, A., 2006, Subdecadal to multidecadal cycles of Late Holocene North Atlantic climate variability preserved by estuarine fossil pigments: *Geology*, v. 34 (7), p. 569-572.

Lima, A.L., **Hubeny, J.B.**, Reddy, C.M., King, J.W., Hughen, K.A., and Eglinton, T.I., 2005, High-resolution historical records from Pettaquamscutt River basin sediments: 1.  $^{210}\text{Pb}$  and varve chronologies validate record of  $^{137}\text{Cs}$  released by the Chernobyl accident: *Geochimica et Cosmochimica Acta*, v. 69, p. 1803-1812.

*Theses, Reports, and Additional Articles*

**Hubeny, J.B.**, 2009, Sluice Pond: A local environmental archive and geologic laboratory: *ASPECT*, February 2009: *The Cutting Edge in Research and Teaching*: <http://aspectwebsite.com/sluice-pond>.

Buttner, J.K., Fregeau, M., Weston, S., and **Hubeny, J.B.**, 2009, Hubline III: Final Report: *Summary Report of Grant Results Submitted to MA Department of Marine Fisheries*, 31pp.

- Hubeny, J.B.** 2006 *Late Holocene climate variability as preserved in high-resolution estuarine and lacustrine sediment archives*. PhD Dissertation, University of Rhode Island, Graduate School of Oceanography.
- Hubeny, J.B.** 2002. *Elevation Profiling of Eight Barrier Beaches on Rhode Island South Shore: September 2000 to August 2001*. University of Rhode Island, Graduate School of Oceanography.
- Hubeny, J.B.** 1997. *Late Quaternary Stratigraphy and Geologic History of The Basin, Phippsburg, Maine*. Undergraduate Honors Thesis, Bates College.

#### *Papers Presented at Professional Meetings*

- Ciampi, C.M.\* and **Hubeny, J.B.**, 2009, A multi-proxy analysis of sediment cores from Chain of Ponds, Maine: GSA Abstracts with Programs, v. 40, no. 3.
- Crescenzi, E.\*, **Hubeny, J.B.**, Buttner, J.K., Fregeau, M., Weston, S., and Shields, T., 2009, Grain size characterization and soft shell (*Mya arenaria*) clam survival rates in selected Boston Harbor tidal flats: Proceedings of the New England Estuarine Research Society Spring 2009 Meeting.
- Lewis, C.F.M., King, J.W., Blasco, S.M., Brooks, G.R., Heil, C.W., Jr., **Hubeny, J.B.**, and McCarthy, F.M.G., 2009, A low-level phase in Great Lakes Holocene history, newly-revealed by study of lake sediments and geomorphology : GSA Abstracts with Programs, v. 40, no. 3.
- Hausmann, S., Bhattacharya, R., **Hubeny, J.B.**, Black, J.L., Boss, S.K., and Brown, E., 2009, Floodplain lake sediments as archives for environmental change: GSA Abstracts with Programs, v. 40, no.3.
- Hubeny, J.B.**, Bhattacharya, R., Hausmann, S., Black, J.L., and Boss, S.K., 2009, Environmental correlations between surface sediment trace metal concentrations and limnologic variables during flood conditions in 30 White River oxbow lakes, AR : GSA Abstracts with Programs, v. 40, no. 3.
- Kiker, J.M.\*, Tibert, N.E., Abbott, M.B., and **Hubeny, J.B.**, 2009, Late Holocene sea level and climate variability at Potomac Creek (Virginia) in the Chesapeake Bay Watershed : GSA Abstracts with Programs, v. 40, no. 3.
- Sherman, A.L.\* and **Hubeny, J.B.**, 2009, A stratigraphic investigation of the Goldthwait Reserve salt marsh, Marblehead, MA : GSA Abstracts with Programs, v. 40, no. 3.
- Lewis, C.F.M., King, J.W., Heil, C.W., **Hubeny, J.B.**, MacDonald, R.A., Shumchenia, E.J., Goodyear, D.R., Slattery, S.R., and Todd, B.J., 2008, Lake Simcoe Sediment Architecture: Evidence for a Lowstand During Early Holocene Dry Climate. International Association of Great Lakes Research Annual Meeting, Peterborough, ON.
- Longstaffe, F.J., Lewis, C.F.M., King, J.W., Heil, C.W., **Hubeny, J.B.**, Goodyear, D.R., Slattery, S.R., and MacDonald, R.A., 2008, Stable Isotope Evidence for Groundwater Seepage into Kempenfelt Bay, Lake Simcoe. International Association of Great Lakes Research Annual Meeting, Peterborough, ON.
- Randall, J.\*, **Hubeny, J.B.**, and Tibert, N., 2008, Sluice Pond geophysical sub-bottom survey, Lynn, Massachusetts. GSA Abstracts with Programs, v. 40, no. 2.
- Reddin, M.\*, **Hubeny, J.B.**, and King, J.W., 2008, Using carbonate thicknesses in Fayetteville Green Lake, NY, to establish variability in precipitation during the Late Holocene. GSA Abstracts with Programs, v. 40, no. 2.
- Ritch, N.\* and **Hubeny, J.B.**, 2008, Analysis of core sediments gathered from Sluice Pond (Lynn, MA) indicate post-glacial environmental conditions. GSA Abstracts with Programs, v. 40, no. 2.
- Vaillancourt, T.\* and **Hubeny, J.B.**, 2008, Lead study of the Forest River Estuary, Salem, Massachusetts. GSA Abstracts with Programs, v. 40, no. 2.
- Reddin, M.\*, **Hubeny, J.B.**, and King, J.W., 2007, Late Holocene precipitation reconstructed from Fayetteville Green Lake, NY, varved sediments. GSA Abstracts with Programs, v. 39, no. 6.
- Hubeny, J.B.**, Reddin, M.\*, and King, J.W., 2007, Precipitation variability in the Northeast United States during the Late Holocene and its relationship to teleconnection patterns. GSA Abstracts with Programs, v. 39, no. 6.

- Hubeny, J.B.**, King, J.W., Lewis, C.F.M., and Reddin, M.\*, 2007, Teleconnection influences on precipitation variability in the Southern Great Lakes Watershed as reconstructed from Late Holocene varved lake sediments. International Association of Great Lakes Research Annual Meeting, State College, PA.
- Hubeny, J.B.**, and King, J.W., 2006, New millennial-length Pacific/North American (PNA) teleconnection pattern proxy reconstruction from New England reveals present anomalous state. GSA Abstracts with Programs, v. 38, no. 7.
- King, J.W., Heil, C., **Hubeny, J.B.**, Lewis, C.F.M., and Reddy, C., 2006, Environmental magnetic studies in the Great Lakes watershed: Closed lake status for the Great Lakes from 9400-7700 cal BP. GSA Abstracts with Programs, v. 38, no. 7.
- Lincoln, S.A.\*, **Hubeny, J.B.**, and King, J.W., 2006, A microscopic characterization of varved sediments, Pettaquamscutt River Estuary, RI. GSA Abstracts with Programs, v. 38, no. 2, p. 14.
- Hubeny, J.B.**, King, J.W., and Santos, A. Thermohaline circulation variability preserved by estuarine fossil pigments. AGU Annual Meeting, 2005.
- Hubeny, J.B.** and King, J.W., 2005, A paleo-perspective on future drought conditions in southern New England. GSA Abstracts with Programs, v. 37, no. 7.
- Hubeny, J.B.**, 2005, Diversifying introductory class teaching with hands-on activities. GSA Abstracts with Programs, v. 37, no. 7.
- Hasle, E.\*, Rutherford, S., and **Hubeny, J.B.**, 2005, Toward a reconstruction of long-term climate variability using sediments from an anoxic estuarine basin. GSA Abstracts with Programs, v. 37, no. 1.
- Hubeny, J.B.**, King, J.W., and Lewis, C.F.M., 2005, Fayetteville Green Lake (NY) mid-Holocene lowstand correlative to Great Lakes' lowstand?. GSA Abstracts with Programs, v. 37, no. 1.
- Hubeny, J.B.**, King, J.W., and Santos, A., 2004, North Atlantic Oscillation signal in New England estuarine fossil pigments, Pettaquamscutt River Estuary, Rhode Island. GSA Abstracts with Programs, v. 36, no. 2.
- Hubeny, J.B.** and King, J.W., 2003, Anthropogenic eutrophication as recorded by varved sediments in the Pettaquamscutt River Estuary, RI, USA. GSA Abstracts with Programs, v. 34, no. 7.
- King, J.W., Lewis, C.F.M., **Hubeny, J.B.**, Moran, K., Coleman, D., and Coakley, J.P., 2003, Understanding Sensitivity of Great Lakes Water Levels to Climate Forcing: Closed-Lake Status 8.4-6.8 KA (9400-7700 CAL BP). Third International Limnogeology Congress.
- Hubeny, J.B.**, 1997, Late Quaternary Relative Sea-Level Change in The Basin, Phippsburg, Maine. GSA Abstracts with Programs, v. 29, no. 1.
- Ongley, L.K., Eden, J., **Hubeny, J.B.**, Montgomery, E., Pavlik, R., Tichenor, S., 1996, Arsenic Sorption to Aquifer Material from Auburn, Maine. GSA Abstracts with Programs, v. 28, no. 3.

\* Student Author