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Current Position

2008-present *Hartwick College (NY)*: Director of the Pine Lake Institute for Environmental and Sustainability Studies. Direct Hartwick's living and learning environmental campus, coordinate annual Academic Theme, oversee campus sustainability initiatives, and teach first-year residential seminar on sustainability.

Teaching Experience

1997-2007 *Holyoke Community College (MA)*: Professor of Biology
2004 *Antioch University-New England (NH)*: Adjunct, Environmental Studies
2003-2005 *Monteverde Institute (Costa Rica)*: Adjunct, Tropical Studies
1990-1997 *Warren County Community College (NJ)*: Instructor, Biology/Environmental Studies
1994-1996 *Harrisburg Area Community College (PA)*: Adjunct, Environmental Studies
1992 *West Virginia State College (WV)*: Adjunct, Biology
1990-1992 *Marshall University (WV)*: Adjunct, Biology

Professional Experience

1990-1997 *Environmental Policy and Technical Consultant*
Conducted research, testified before legislative committees, wrote articles, acquired grants, and provided organizational and technical support to a number of not-for-profit environmental and conservation groups. Co-founder of one statewide coalition and interim director of another statewide group.
1986-1990 *West Virginia Department of Agriculture: State Survey Coordinator*
Coordinated state insect and disease pest survey program.

Education

2006 Antioch University-New England Ph. D. Environmental Studies
Dissertation: *Reconceptualizing natural history study in higher education: Perspectives from the field*
1986 University of Florida Master of Science, Entomology
Thesis: *Biological and ecological approaches towards the integrated management of cockroach populations in Florida*
1983 Pennsylvania State University Bachelor of Science, Entomology

Professional Collaborations

Science Education for New Civic Engagements and Responsibilities (SENCER)

Senior Associate and Integrated/Interdisciplinary Cluster Coordinator. NSF dissemination project teaches “to” science “through” complex, capacious, and unresolved issues and applies science of learning to learning of science. As member of leadership team, I am active in faculty development, regional coordination, symposium organization, project management, etc. (www.sencер.net)

Network of Conservation Educators and Practitioners (NCEP)

Based at American Museum of Natural History, NCEP is a faculty development project creating and implementing comprehensive set of biodiversity teaching and learning modules for international use. Serve on NCEP Board of Reviewers. (<http://ncep.amnh.org>)

Science, Technology, Engineering, Mathematics Teacher Education Collaborative (STEMTEC):
University of Massachusetts-Amherst project enhancing pre-teacher education and faculty development in active learning pedagogies. (<http://k12s.phast.umass.edu/~stemtec/>)

Leadership Role in Faculty Development Workshops

The future we must create: Science education and the future of scientific literacy. SENCER Center for Innovation—New England Symposium. Southern Connecticut State University (2008)

SENCER New England Regional Symposium. Springfield College (2007, 2005)

Brave new teaching worlds: Integrated Learning Communities in undergraduate general education.

Warren County Community College, Washington, NJ. (2003).

Cross-disciplinary and interdisciplinary approaches in teaching college science. (Co-taught with Gerald L'Heureux). NSF Chautauqua Short Course for College Teachers, Memphis, TN. (2001)

The nature of nature: A cross-disciplinary approach to teaching college science. (Co-taught with Gerald L'Heureux) NSF Chautauqua Short Courses for College Teachers, Philadelphia, PA. (2000).

Problem-Based Service Learning. Faculty development workshop. Holyoke Community College, (2000)

Professional Development

Introduction to ArcGIS: Community Education Workshop. (Westfield State College, 2007)

Annual Conference on Teaching Case Studies in Science: University of Buffalo, NY. (2006)

NCEP Faculty Development Workshops. (Arizona-2005, California-2006, New York-2007)

Massachusetts Vernal Pools Educators Workshop: Ipswich, MA. (2002)

Forest Ecosystem Analysis in the White Mountains: Mt. Moosilauke, NH. (2001)

Keeping Track, Inc. Wildlife Tracking and Monitoring Workshop: Richmond, VT (2001)

Learning Communities Initiative: Evergreen State College (WA). (1999)

Conservation Biology Revisited: NSF Chautauqua Short Course. Cambridge, MA. (1999)

Circle of Science and Spirituality: Fort Berthold Indian Reservation, Fort Berthold, ND. (1999)

College and Community Service

Sabbatical: Created and tested multi-tiered assessment framework for biodiversity education in collaboration with Network of Conservation Educators and Practitioners (NCEP). Worked with a faculty focus group implementing and evaluating the framework (Spring, 2007).

Faculty Development: Participate in ongoing workshops on community service learning, website development, safe zone training, cultural diversity, academic advising, vocational education, disability and deaf services training, and universal design for learning.

Academic Committees: Curriculum, General Education, Learning Communities, Scholarship & Awards, Sabbatical, Distance Education task force, Biology Search Committee Chair

Professional Service: Reviewer, *American Biology Teacher*, *International Journal of Science Education and Civic Engagement*, NCEP Board of Reviewers, and McGraw-Hill Publ.

Memberships: Society for Conservation Biology, Ecological Society of America, Association of College and University Biology Educators

Community Service: Mt. Holyoke Ecological Working Group—Citizens group monitoring wildlife populations on the Mt. Holyoke range for conservation planning initiatives.

Community Service Learning: Student placements with Red Cross, nature centers, service foresters, conservation commissions, K-12 schools, homeless shelters, and reforestation projects. Recent interest focuses on class-wide collaborations in community-based research.

Academic Awards

Who's Who Among America's Teachers (2002)

John T. Creighton Memorial Award for Outstanding Graduate Student Research in Urban Entomology (University of Florida, 1986)

Who's Who Among American Junior College Students (1980)

Stand-Alone Courses and Learning Communities Taught

Biology Today I and II: Introductory biology and labs: Evolution, ecology, cell biology, genetics, biodiversity, five kingdoms, human biology

Conservation Biology: Created and teach lab-based lecture emphasizing field studies on biological diversity and multidisciplinary approaches to conservation problem solving

Current Environmental Issues in Massachusetts—Watershed Management. State-funded project linking six academic institutions in a collaborative distance learning project.

Entomology for Educators: Graduate level course for K-12 and environmental education students

Environmental Science: Introductory environmental science courses and labs

Environmental Studies: Introductory interdisciplinary environmental studies courses and labs

Idea and Practice of Sustainability: First-year residential living and learning seminar

Science Research and Writing: Developed research and writing course for science majors.

Tropical Studies: Initiated, developed and co-taught travel abroad course with the Monteverde Institute, Monteverde, Costa Rica

Coordinated Studies Program

What in the World Are We Doing? An Exploration of Life. Developed and piloted a 16-credit, five course, four faculty, first-year experience program.

Interdisciplinary and Cross-disciplinary Learning Communities

Collision of Life Worlds: Science and Philosophy in the New Millennium (Topics in Science & Philosophy)

Fantastic Voyage: Exploring the Diversity of Life (Biology & English Literature)

On the Brink of Extinction: Science, Politics, and the Fate of the Earth (Conservation Biology & Political Science)

Our Changing Universe: Understanding the Nature of Nature (Natural and physical sciences)

Ten Million and One: Humans and the Natural World (Topics in Science & English Literature)

What is Life? (Biology & English Composition)

You Are Here: Nature, Ecology, and Home (First Year Honors Learning Community combining Topics in Science & English Literature)

Grants Acquired

Acquired more than \$300,000 in public and private grant funding for numerous non-profit organizations, academic institutions, and government agencies.

Select Publications and Presentations

Hagenbuch, B. E. 2006. *Reconceptualizing natural history study in higher education: Perspectives from the field*. Doctoral Dissertation. Antioch University—New England. Keene, NH.

Peer-reviewed articles

Hagenbuch, B. E., A. Bower, N. Bynum, E. Sterling, J. Pierce, J. Cigliano, J. Mull, B. Anderson, S. Ketcham, M. Mayer, M. Palmer, & J. Rhode. 2008. A multi-tiered assessment framework for biodiversity education. *Teaching Issues and Experiments in Ecology*. Vol. 6. (in review)

Hagenbuch, B. E. The pedagogy of fire: Using disturbances to teach ecology and conservation. *Bioscene*. (in prep.)

Hagenbuch, B. E. & J. Mikalson. (2008). Adding depth to debate: Enhancing the pedagogy of controversial issues. *International Journal of Science and Civic Engagement* (in prep)

Hagenbuch, B. E., Koehler, P. G., & Patterson, R. S. (1989). Biological control of the American cockroach with inundative releases of *Tetrastichus hagenowii* (Ratzeburg) (Hymenoptera: Eulophidae). *Journal Economic Entomology*, 82, 190-194.

Hagenbuch, B. E., Koehler, P. G., Patterson, R. S., & Brenner, R. S. (1988). Peridomestic cockroaches (Orthoptera: Blattidae) of Florida: Their species composition and suppression. *Journal of Medical Entomology*, 25, 377-380.

Hagenbuch, B. E., Patterson, R. S., Koehler, P. G., & Brenner, R. J. (1988). Mass production of the cockroach oothecal parasitoid, *Tetrastichus hagenowii* (Hymenoptera: Eulophidae) and its host the American cockroach (Orthoptera: Blattidae). *Journal of Economic Entomology*, 81, 531-535.

Hagenbuch, B. E., Koehler, P. G., McGovern, T. P., Patterson, R. S., & Brenner, R. J. (1987). Two chemical repellents for control of German and American cockroaches. *Journal of Economic Entomology*, 80, 1022-1024.

Hall, J. E., Amrine, J.W., Gais, R.D., Kolanko, V.P., Hagenbuch, B.E., Gerencser, V.F., & Clark, S.

M. (1991). Parasitization of humans in West Virginia by *Ixodes cookei* (Acari: Ixodidae), a potential vector of Lyme Borreliosis. *Journal of Medical Entomology*, 28, 186-189.

Jones, C. J., Patterson, R. S., Koehler, P. G., Bloomcamp, C. L., Hagenbuch, B. E., & Milne, D. E. (1988). Horn fly (Diptera: Muscidae) control on horses using pyrethroid tags and tail tapes. [Scientific Note]. *Florida Entomologist*, 71, 205-207.

Patterson, R. S., Hagenbuch, B. E., Koehler, P. G., & Brenner, R. J. (1988). Efficiency of *Tetrastichus hagenowii* (Hymenoptera:Eulophidae) to control the American cockroach, *Periplaneta americana* (Orthoptera:Blattellidae). *Advances in Parasitic Hymenoptera Research*, 433-443.

Select Professional Presentations (*co-presented with students)

Hagenbuch, B. E. (2007, November). *The future we must create: Sustainability in the context of Liberal Arts*. Hartwick College.

Hagenbuch, B. E., & J. Mikalson. (2007, August). *Adding depth to debate: Pedagogical strategies to enhance meaning of controversial issues*. Science Education for New Civic Engagements and Responsibilities (SENCER) Sixth Summer Institute. Portland, ME.

Hagenbuch, B.E. (2006, August). *Not just how and what we teach: But who!* The How and What of the Scholarship on Teaching and Learning (Panel). Sixth SENCER Summer Institute. San Jose, CA.

- *Hagenbuch, B.E. & M. Sawyer. (2005, November). *Science education and civic engagement: Faculty and student perspectives on engaging students in science and learning*. SENCER New England Regional Symposium. Springfield College, Springfield, MA.
- Hagenbuch, B. E. (2005, April) *Active learning through conservation biology modules: Experiences at Holyoke Community College*. NCEP Faculty Development Workshop, Portal, AZ.
- Hagenbuch, B. E. & Koupelis, T. (2004, August). *Community colleges, STEM education, and SENCER*. Fourth SENCER Summer Institute, Santa Clara, CA.
- Hagenbuch, B. E. (2004). Going interdisciplinary: Coordinated Studies and the first-year experience at Holyoke Community College. *SENCER Fourth Summer Institute*, Santa Clara, CA.
- Hagenbuch, B. E. (2002, November). *SENCER, science, and civic engagement: New approaches to general education*. Montclair State University, Montclair, NJ.
- Hagenbuch, B. E., Greeney, R., Knapp, J., & Hicks, K. (2002, April). *Teaching science for civic engagement: Multiple approaches*. Massachusetts Community Colleges' Conference on Teaching and Learning, Holyoke, MA.
- *Rossier, A. & Hagenbuch, B. E. (2001, June). *Teaching Gaia: A Cross-Disciplinary Approach to Enhancing Science Education in the K-12 Classroom*. STEMTEC Pathways to Change Conference. University of Massachusetts, Amherst, MA.
- Dutcher, J., Hicks, K., & Hagenbuch, B. E. (2001, March). *Beyond the two cultures: Integrating the arts and sciences*. Learning Communities: Strategies for Strengthening Connections Conference, Providence, RI.
- Hagenbuch, B. E. & Hicks, K. (2001, February). *A tale of two cultures: An interdisciplinary approach to integrating the arts and sciences*. STEM Education Institute Seminar, UMass-Amherst, MA.
- Hagenbuch, B. E. & Hicks, K. (2000, June). *Integrating the arts and sciences: An interdisciplinary model for science education*. STEMTEC Pathways to Change Conference. Hampshire College, Amherst.
- Hagenbuch, B.E. & Hicks, K. (2000, April). *Integrating the arts and sciences: Curricular models for community-based research and partnerships*. Rethinking Scientific Literacy in the Age of Diversity and Specialization Conference, Charleston, SC
- L'Heureux, G. & Hagenbuch, B. (1999, October). *Our changing universe: Understanding the nature of nature: A cross-disciplinary approach to teaching college science*. 5th International Alliance for Teaching Scholars Conference, Boston, MA.
- L'Heureux, G. & Hagenbuch, B. E. (1999, May). *Our changing universe: Understanding the nature of nature*. Transforming Campuses Through Learning Communities Conference, Seattle.
- *Lempart, J., Roberts, G. Wiedersheim, J., & Hagenbuch, B. E. (1999, March). *Multimedia approaches to watershed education for the Westfield River*. Poster at Westfield River Symposium. Westfield State College, Westfield, MA.

Abstracts and Posters

- Hagenbuch, B. E., M. Zjhra, E. Sterling, J. Pierce, M. Palmer, J. Mull, M. Mayer, S. Ketcham, J. Gibbs, C. Engels, J. Cigliano, N. Bynum, A. Bower, & B. Abraham. (2008). Evaluating a multi-tiered framework for biodiversity education. Third SENCER Capitol Symposium. Washington, DC. (poster)
- Hagenbuch, B. E., R. Sanford, N. Bynum, & E. Sterling. (2007). Biodiversity conservation and NCEP: Science education on a local to global scale. *SENCER Sixth Summer Institute*. Portland, ME (poster).

- Hagenbuch, B. E., M. Zjhra, E. Sterling, J. Pierce, M. Palmer, J. Mull, M. Mayer, S. Ketcham, J. Gibbs, C. Engels, J. Cigliano, N. Bynum, A. Bower, & B. Abraham. (2007). Expanding assessment in biodiversity conservation education: A methodological framework. *Ecological Society of America Annual Meeting*. San Jose, CA. (poster)
- Bower, B. Abraham, N. Anthony, N. Bynum, J. Cigliano, C. Engels, J. Gibbs, B. Hagenbuch, S. Ketcham, M. Mayer, J. Mull, J. Pierce, J. Rhode, E. Sterling, S. Willson, & M. Zjhra. (2007). Emerging Tools in Teaching Biodiversity Across Disciplines. *Ecological Society of America Annual Meeting*. San Jose, CA. (poster)
- Hagenbuch, B. E., Amrine, J. W., & Stasny, T. A. (1989). Distribution of rose rosette disease of multiflora rose and its eriophyid mite vectors in the United States. *Proceedings of the West Virginia Academy Science*, 61 (1), 16.
- Hagenbuch, B. E., Thomas, M. C., McCutcheon, T., & Weaver, J. (1989). Species composition, distribution, and flight periodicity of adult *Phyllophaga* in West Virginia. *Proceedings of the West Virginia Academy Science*, 61 (1), 16-17.

Articles and Reports

- Hagenbuch, B. E. (2006). *Expanding the teaching commons: Initiating the conversation*. SENCER E-Newsletter. 6(1): 2, 8. <http://www.sencer.net/pdfs/Newsletters/September2006.pdf>
- Hagenbuch, B. E. (1993). *Pollution prevention: Solving Ohio's toxics legacy*. Columbus, OH. Ohio Environmental Council. 98pg.
- Hagenbuch, B. E. (1991). Pollution prevention: Industrial hype or environmental hope. *In Proceedings of the WV Earth Day Symposium--1991*. West Virginia State College.
- Hagenbuch, B. E. (1991). *Blueprint for the environment: West Virginia--1991*. Charleston, WV. West Virginia Environmental Council. 8pg.
- Hagenbuch, B. E. (1990). *Blueprint for the environment: West Virginia--1990*. Charleston, WV. West Virginia Environmental Council. 8pg.
- Hagenbuch, B. E. & Williams, R. L. (1990). Rose rosette disease. *In Mid-Atlantic Regional Plant Pest Survey Manual*. Charleston, WV. West Virginia Department of Agriculture.
- Wimmer, M. & Hagenbuch, B. E. (1991). Avoiding tumult in the mountains: Planning for the future of West Virginia's forest-based industries. *In Proceedings of the WV Earth Day Symposium--1991*. Institute, WV. West Virginia State College.

Academic Videos Produced (*co-produced with students)

- Hagenbuch, B. E. (1998). Watershed management in Massachusetts. *Current Environmental Issues in Massachusetts*. Holyoke Community College.
- Hagenbuch, B. E. (1998). Reading the forested landscape: A natural history of New England. *Current Environmental Issues in Massachusetts*. Holyoke Community College.
- Hagenbuch, B. E. (1998). Perspectives on watershed management: A panel discussion. *Current Environmental Issues in Massachusetts*. Holyoke Community College.
- *Lempart, J., Roberts, G., Weidersham, J., and B. E. Hagenbuch. (1998). Watershed education and management: A case study of the Westfield river. *Current Environmental Issues in Massachusetts*. Holyoke Community College.

Student Posters/Presentations Mentored

- Carey, E., Osborne, B., & G. Scartilli. (2006, April). *The impact of surface fire on structure and composition of a mixed deciduous forest*. Poster presented at 12th Annual Massachusetts Undergraduate Conference, Boston, MA.
- Martin, F. (2005, April). *The role of citizen volunteerism in conservation biology*. Poster

- presented at 11th Annual Massachusetts Undergraduate Conference, Boston, MA.
- McMahon, M. (2005, April). *Experiential learning: A primary factor in Costa Rican environmentalists desire to participate in conservation efforts*. Poster presented at 11th Annual Massachusetts Undergraduate Conference, Boston, MA.
- Steinecker, K., Sunny, B., & Ryan, S. (2005, April). *Impact of a surface fire on structure and composition of a mixed deciduous forest*. Poster presented at 11th Annual Massachusetts Undergraduate Conference, Boston, MA.
- Gonneville, J. (2004, May). *Dental regeneration through stem cell science*. Poster presented at 10th Annual Massachusetts Undergraduate Research Conference, Boston, MA.
- DiMatteo, J., Funk, L., Haas, E., Loew, W., & Putnam, J. (2003, April). *Washing our hands with soil: Ecological and personal restoration in Costa Rica*. Paper presented at 9th Massachusetts Undergraduate Conference, Boston, MA.
- Funk, L., DiMatteo, J., Loew, W., & Putnam, J. (2003, April). *Costa Rica: A journey of experiential education, heightened environmental awareness, and elevated self-consciousness*. Paper presented at the 9th Annual Massachusetts Undergraduate Conference, Boston, MA.
- Rossier, A. (2001, April). *Environmental explorations in education*. Poster presented at 7th Massachusetts Undergraduate Conference on Research and Scholarly Activities, Sturbridge, MA.
- Funk, L. & Rossier, A. (2000, April). *The origins of human feelings toward nature: A look at youth and their special places*. Poster presented at 6th Undergraduate Conference on Research and Scholarly Activities, Boston, MA.
- Lempart, J., Roberts, G., & Wiedersheim, J. (1999, April). *Multimedia approaches to watershed education and management: A case study of the Westfield river watershed*. Poster presented at 5th Undergraduate Conference on Research and Scholarly Activities, Boston, MA.