

NICHOLAS J. HENSHUE

CURRICULUM VITAE

[Contact information withheld on Internet version of CV.]

<http://www.henshue.org>
Facebook.com/henshue Twitter: @henshue

EDUCATION:

- ◆ **Pursuing a Doctor of Philosophy, Ecology:** Rutgers University, New Brunswick, NJ. Advisor is Dr. Claus Holzapfel. Primary research is studying how earthworms can be used to clean up polluted industrial sites. Expected Graduation 2016.
- ◆ **Master of Science, Biology:** Ecology emphasis. East Stroudsburg University, East Stroudsburg, PA. Advisor was Dr. Terry Master. Thesis project was to develop a student-oriented field guide for use in my classroom. Graduated December 2010.
- ◆ **Bachelor of Science in Education:** Elementary Education/ Environmental Education. Slippery Rock University, Slippery Rock, PA. Advisor was Dr. Dan Dziubek. Graduated May 2001.

PRACTICAL EXPERIENCE:

Biology Teaching Assistant, Department of Life Sciences, Rutgers University, New Brunswick, NJ
2013- present

- ◆ General Biology workshop facilitator- During the spring semester, I work with students to help them effectively study and review the material covered in the large-group lectures. Similar to a recitation, I reinforce more difficult concepts through the use of graphic organizers and study skills.
- ◆ Principles of Biology Head Teaching Assistant (2014)- I worked closely with the head professor of the course to maintain and update an outstanding biology curriculum each fall semester for non-majors. I oversaw 3 other teaching assistants, ensuring best pedagogy especially in working with diverse and special needs populations.
- ◆ Principles of Biology Teaching Assistant- Each week, I teach two three-hour lab sections in a short lecture/long lab format, with topics that range from ecological hierarchy to human neurological systems.

Environmental Science (fall) Environmental Studies (spring) Adjunct Professor, Moravian College, Bethlehem, PA, 2014-present

- ◆ Developed an entirely new syllabi for introductory-level environmental classes, specifically targeting key concepts and skills I was using at the graduate level, but ones that students were not learning at the high school level (e.g. modeling, primary literature analysis).
- ◆ I structured the "Studies" course to be very reading intensive; in lieu of a textbook, I pulled readings for every assignment from 25+ different books, papers, and videos. These

readings reflect the best current knowledge in the field more effectively than one single textbook.

- ◆ Students also develop their analytical skills on many assignments using actual quantitative data, graphs, and formulas. This is an area consistently identified as 'needs improvement' by College Board, Middle States, and No Child Left Behind.
- ◆ As introductory classes, I encourage many of the undeclared or merely indecisive students into the environmental studies program. 36% of the students in the class last fall became Environmental majors or minors as a result of the course. (n=7/19)

Environmental Sciences/Biology Faculty, Upward Bound Program, East Stroudsburg University, East Stroudsburg, PA. Summers 2014-present

- ◆ Upward bound is a federally chartered educational program for transitioning at-risk high school pupils to university success.
- ◆ I teach 2 sections of biology and one section of environmental science in these fast-paced energetic 6-week curricula. The student body is very diverse socioeconomically, educationally, and culturally. But all the students have the one true goal of getting into college and being successful.
- ◆ Syllabi for both courses had to be freshly developed, based on student needs and university resources at our disposal. I tried to mirror a condensed program for what the students would see the following school year to give them a head start.

Earth and Environmental Sciences Teacher, Easton Area High School, Easton Area School District, 2001-2012

- ◆ Although I have taught multiple grade levels from 7th-12th in geography, meteorology, geology, biology, and oceanography, my primary field has been environmental science, which I taught for the greatest portion of my career. I have taught every ability level of student in this course- from inclusion and special education to Advanced Placement.
- ◆ I have had the good fortune of co-authoring and consulting on multiple local grants for flood education and outreach totaling \$185,000, including helping to get NOAA's "Science on a Sphere" program to the Nurture Nature Center in Easton, PA.
- ◆ As laws and standards in education changed, I re-wrote the curriculum in place for the environmental science department several times, aligning it with current regulations, best current practice, and good pedagogy.
- ◆ For the most exceptional of my students, each year I oversaw the implementation, budgeting, and fulfillment of year-long independent research projects.
- ◆ Led multiple overnight fieldwork/camping trips for students.
- ◆ Organized annual campus beautification (plantings, trails, invasive plant removal, etc.).
- ◆ Team-taught subjects with colleagues, including natural history, geography, art, and environmental policy units.
- ◆ Advised the Environmental Club, Student Council, Guitar Club, A/V Club, and built sets for the Spring Musical.

PROGRAM DIRECTOR, *Trexler Scout Reservation, Jonas, PA.* Summers of 2001, 2002, 2004

- ◆ I interviewed, hired and trained a staff of 55 in safety and educational instruction techniques.
- ◆ Along with the senior camp staff, I developed outdoor resident summer camp program for 1600 youth and 500 adults per summer, with a special focus on conservation and outdoor skills, especially for scouts with special learning needs.
- ◆ I co-managed our summer camping budget of approximately \$250,000, and also was instrumental in capital campaign grants- the greatest of which was over \$125,000.

CERTIFICATIONS:

- ◆ PA K-8 Elementary Education, Level II Permanent
- ◆ PA K-12 Environmental Education, Level II Permanent
- ◆ Pennsylvania and National Environmental Education Curricula, including certifications in Project WET; Project WILD; Project Learning Tree; Project Food, Land, and People; and Pennsylvania Songbirds.
- ◆ Boy Scouts of America National Camp Certifications for Program Director, Outdoor Skills, and Trek Director.
- ◆ Advanced Water Rescue and Advanced Canoeing (American Red Cross).
- ◆ Infant, Child, and Adult CPR Certification, and Community First Aid and Safety (American Red Cross).

FIELDWORK:

- ◆ I have coordinated, planned, and led multiple experiential fieldwork and camping opportunities for students and the community. Many of them (3-6 per year for the last 15 years) were local trips to the Poconos and western New Jersey.
- ◆ Before all of my large trips, I led three training weekends in the months prior to the trek when I taught first aid, safety, survival, language, cooking, Leave No Trace, and equipment usage.
- ◆ With 20 students, I toured Costa Rica; did environmental fieldwork and service learning projects for 12 days. As well as exploring different biological habitats, my students helped build a local primary school.
- ◆ I guided 18 students on two 70-mile canoe treks through Algonquin Provincial Park in Northern Ontario, in 2008 and 2011.
- ◆ In 2000, I camped and toured all over England and Wales with 25 students from PA and 30 students from the UK for two weeks.

EARTHWORKS: SUMMER RESEARCH INSTITUTE OF CIRES OUTREACH PROGRAM, JAMESTOWN, CO

- ◆ I have worked with teachers and research scientists from CIRES (NOAA and USGS) as part of collaborative teams to develop, study, and publish inquiry-based research project lesson plans that would be nationally useable with high school students.
- ◆ Studied ecological changes in freshwater ecosystems with regard to aquatic response to pH change throughout a diurnal cycle as a result of photosynthesis; July 2005.
- ◆ Analyzed local tree-ring data and correlated it with the published climatological history since 1880 of CO and WY; June 2006.
- ◆ Created a bio-assessment of soil-based macro-invertebrates in various habitats in the Rocky Mountains, resulting in a novel testing methodology for capture and documentation using compost in buried aquatic leaf-litter bags; July 2007.

MALTA, 1999, UNIVERSITY OF MALTA AT VALETTA

- ◆ I worked with the Ministry of the Environment of Malta on an environmental problem-solving team, specializing in the issues of solid waste management, recycling, and efficiency. We then made recommendations about recycling programs and incentives to the Maltese Government.

OUTREACH:

THE ESSENTIAL SPECIES OF PENNSYLVANIA; 2012 PUBLISHING

- ◆ Ten years ago, I set out to write a small booklet for my students that they could keep to identify local common organisms like trees, birds, flowers, fish, mammals and herps. The project has since spiraled in to a published, paperback field guide.
- ◆ The Essential Species of PA is a student-oriented field guide to 150 of the state's most common organisms.
- ◆ It is available in three formats: Paperback, Kindle E-Reader, and Educational edition. The Educational edition of the book is easily copied and royalty-free for use in classrooms all across the state. The e-book edition was even a bestseller in the Amazon Kindle store for a short time.

FLORIDA STATE UNIVERSITY; LEARNING SERVICES INST.; TALLAHASSEE, FL. SUMMERS OF 2011, 2012

- ◆ Through a US Department of Education grant, I was able to teach middle and high school teachers climate science education in a two-week intensive graduate-level course for four different sessions.
- ◆ The course was team taught with renowned meteorology professor, Paul Ruscher. Together, we educated about climate change and how to share that information effectively with students from a variety of backgrounds.
- ◆ Throughout the class, I advised and oversaw the scientific and academic rigor of participants in developing their own climate research projects that they could take back to their classrooms during the school year.

AWARDS, HONORS, AND VOLUNTEERISM:

- ♣ Garden Club of America 2015 Caroline Thorn Kissel Summer Environmental Studies Scholarship, \$2000
- ♣ Department of Parks and Recreation/Environmental Education Outstanding student award, 1998, 1999, and Chairman's Award for Distinguished Service, 2000, Slippery Rock University
- ♣ Easton Area High School Outstanding Educator
- ♣ Member, Bushkill Stream Conservancy (local watershed advocacy group)
- ♣ Eagle Scout

PERSONAL:

- ♣ Fluent in both Windows and Macintosh operating environments.
- ♣ Working knowledge of and troubleshooting capabilities with networks, printing, hardware, and software.
- ♣ Knowledge of HTML code and have published several web pages on the Internet, including Henshue.org.
- ♣ Intermediate fluency in Spanish (an advantage when doing fieldwork in Costa Rica).

I can play guitar, cook just about anything, am a passionate outdoorsman and am an avid woodworker and house restorer. I enjoy working on cars and creating my own cabinetry, woodwork, and furniture.