

J. William Hug

Education

Ph.D. Curriculum & Instruction. The Pennsylvania State University.
Emphasis: Science Education / Environmental Education. May 1998.

Professional Experience

Assistant Professor of Education - Montana State University, College of Education, Health and Human Development, Department of Education. (tenure-track position) August 2003 – present.

Assistant Professor of Education - Michigan State University, College of Education, Department of Teacher Education. (non-tenure teaching position) September 2000 – August 2003.

Assistant Professor of Education - Portland State University, Graduate School of Education, Department of Curriculum & Instruction. (tenure-track position) September 1998 - June 2000.

Multiple teaching positions in public schools, nature centers, resident outdoor education centers, summer camps, adventure guiding companies, etc.

Research and Other Creative Achievements

Dissertation

Ph. D. Dissertation Title: Learning and Teaching For An Ecological Sense of Place: Toward Environmental / Science Education Praxis. May 1998.
Dissertation Director: J. Daniel Marshall

M.S. Thesis Title: Prospective Teachers' Understanding of Learning to Teach Environmental Science while Participating in a Residential Outdoor Education Program. May 1995.

Selected Publications

Brody, M. & Hug, J.W. (2004). Linking environmental education research and practice through reflective participation and collaboration. *Environmental Communicator*, Dec 2004.

Hug, J. W. (1999). Sharing nature: The role of friendship in Rachel Carson's literary life. *Oregon English Journal*, 21 (1), 33-38.

Hug, J.W. (2004). [Review of book *Place-based Education: Connecting classrooms and communities*] *Encounter* 17(3), 63-64.

Hug, J. W. (2002). [Review of the book *The cultural creatives: How 50 million people are changing the World*]. *Encounter*, 15 (2), 71-72.

Research Reports

Hug, J. W. (2000, August). NASBLA Testing and Distance Learning Recommendations. Report submitted to the National Association of State Boating Law Administrators. Lexington, KY.

Hug, J. W. (2000, March). The Selborne Project Evaluation Final Report 1996 -1999. Report submitted to The Roger Tory Peterson Institute of Natural History. Jamestown, NY.

Hug, J. W., Cottrell, S. P., & Graefe, A. R. (1999, August). Pilot testing, evaluation and revision of the N.A.S.B.L.A. National Boating Education Standards. Report submitted to the National Association of State Boating Law Administrators. Lexington, KY.

Hug, J. W., Graefe, A. R., & Cottrell, S. P. (1998, December). National Boating Education Standards with rationales and supporting documentation. Report submitted to the National Association of State Boating Law Administrators. Lexington, KY.

Hug, J. W. & Campbell, L. M. (1996, August). Selborne Project research and evaluation: Final report for A. Y. 1995-1996. Report submitted to The Roger Tory Peterson Institute of Natural History. Jamestown, NY.

Campbell, L. M. & Hug, J. W. (1995). Fostering reflection in prospective science teachers through interactive videodisk vignettes. National Science Foundation.

Projects, Grants, And Contracts

Developing a Can Tho University-based Outdoor Science Learning Center: Vietnamese Scholar, Dr. Hong, Montana State University Campus Visit/Research Seminar. Michigan State University, Dr. Chris Wheeler. \$1,000. (visit host/planner, co-presenter).

Developing Citizen Scientific Literacy through Place-based Teacher Education. Montana State College of Education, Health and Human Development Mini-Grants. 2004-2005. \$1,500. (principal investigator).

Supporting Teachers Through Accessible Citizen Science Literacy Teaching Resources. Montana State University-Bozeman Teaching Learning Committee, Office of the Provost. 2003-2004. \$1,200. (principal investigator).

Creating National Standards for Boat Operator Proficiency: A Study of Education Implications. National Association of State Boating Law Administrators; Lexington, KY. January - September 2000. \$32,800. (principal investigator, lead writer).

Oregon Collaborative for Excellence in the Preparation of Teachers (OCEPT). Portland, OR. January - June 1999. \$3,600. (faculty mentor).

Validation and piloting of the draft National Boating Education Standards. National Association of State Boating Law Administrators, Lexington, KY. January - September 1999. \$30,000. (Co-principal investigator, lead standard writer).

Selborne Project Research and Program Evaluation. Roger Tory Peterson Institute of Natural History. Jamestown, NY. A.Y. 1996-1999. \$72,000. (principal investigator, lead evaluator, lead writer).

Establishment of National Standards for Boat Operator Knowledge. National Association of State Boating Law Administrators. Lexington, KY. July - December 1998. \$24,000. (Co-principal investigator, lead standard writer).

Selborne Project Research and Program Evaluation. Roger Tory Peterson Institute of Natural History. Jamestown, NY. A.Y. 1995 - 1996. \$10,000. (evaluator, writer).

Teaching, Mentoring and Curricular Achievements

Courses Taught in Resident Instruction

Elementary Science Teaching Methods 1992-present.

Curriculum Design, Development, and Deliberation in Schools (TE 870). Summer 2003.
Designing Interdisciplinary Curricula (TE 830). Summer 2003.
Practice and Inquiry in Science Education (TE 860). Summer 2001.
Curricula and Pedagogy in Place Education (TE 891). Summer 2001.
Professional Roles and Teaching Practice: Elementary Science (TE 801). Fall 2002.
Doctoral Research: Qualitative Methods (ED 610) 2000.
Research Paradigms and Methods (ED 610) 1999.
Ecological Education Seminar (CI 607) 1999.
Historical Curriculum Approaches in Environmental Education (CI 610) 1999.
Student Teaching I & II (CI 552 & 553) 1998-2000.
Professional Development Seminar (CI 510). 1999.
Instruction & Technology (CI 513) 1999.
Classroom Management (CI 511). 1998.
Teaching Conservation, Environment, and STS in the Schools (SCI ED 457). 1994-1995.
Qualitative Research Methods

Teaching Honors and Recognitions

- Gustav Ohaus Award for Innovations in College Science Teaching**, National Science Teachers Association. April 1998. A highly competitive, peer reviewed national award from a leading national organization in science education. Nomination required a written narrative of educational philosophy, science teaching innovation, and supporting documents such as student evaluations.
- Graduate Assistant Award for Outstanding Teaching**, The Pennsylvania State University. May 1996. A highly competitive, university wide award based on teaching evaluation scores, educational philosophy, and recommendations from supervisors, peers and students.

Service to the Public, Profession and University

Service to the Public

Bozeman Public Schools

- Longfellow Elem. School Wetlands Curriculum Committee, November 2004
- Middle School Science Fair Committee, October 2004 – March 2005
- Evaluated middle school student science fair projects. February 2004
- Established relationship with Irving School for future methods course instruction site. August-December 2003.
- Established relationship with science kit warehouse and facilitated a service learning project with Teaching Elementary Science (EDEL 325) students. August 2003-May 2004.

- Invited to consult with B.P.S. literacy teacher assigned science teaching duties with curriculum, instruction and resource support. August-December 2003.

Montana Outdoor Science School

- Invited to serve on School's Program Committee to organize, develop and market programs to public schools. November 2004 – April 2005.
- Observed MOSS staff lead programs at Anderson School and met with senior staff to develop a comprehensive education plan for Can Tho University in Viet Nam.

Museum of the Rockies

- Invited to present docent training program on science education methods for museum education. October 2004.
- Established relationship with education staff that resulted in coordinated Social Studies/ Science field trip curriculum module in Block B courses. August 2003-May 2004.

The Watercourse, Project W.E.T.

- Established relationship with education staff that resulted in Project WET workshop offered within Teaching Elementary Science (EDEL 325). August 2003-May 2004.

Bozeman Public Library

- Established relationship with children's librarians to conduct after school science activities for elementary children that resulted in science teaching opportunities for elementary education students. January – May 2004.

Montana Science Olympiad

- Developed and facilitated Life Science Process Skills event for Montana middle school students which provided science teaching opportunities for elementary education students. November 2004.
- Developed and facilitated Life Science Process Skills event for Montana middle school students which provided science teaching opportunities for elementary education students. November 2003.

Lansing, MI. School District.

- Elementary Science Curriculum Field Testing. Lansing, MI. Co-facilitated a team of 4th grade teachers field testing and evaluating curriculum materials in their classrooms using modified Project 2061 (AAAS) criteria. October 2001 – April 2002.

Oregon Museum of Science and Industry (OMSI) Collaborative Relationship, Portland, OR. September 1998 – May 2000.

- Developed a working relationship with the teacher education staff at OMSI, which resulted in an OMSI staff member attending science teaching methods classes at Portland State.
- Designed with the OMSI teacher education staff collaborative teaching methods class conducted at OMSI.
- Invited to participate as Physical Science Hall Advisory Board

Haag Lake Outdoor Center Advisory Board, Portland, OR. December 1999 – May 2000.

- Served as Portland State University and Graduate School of Education representative on a multi-agency (U.S. Bureau of Reclamation, Portland State University, Washington County, Northwest Regional Educational Service District) advisory board to design and build new science research / outdoor education facilities.

Oregon State Marine Board - Mandatory Boater Education Program. Salem, OR. 1999 - 2000.

- Served as board member contributing education expertise to the development of statewide guidelines to implement the mandatory boater education legislation.

Honors and Recognitions

Pi Lambda Theta, International Honor Society and Professional Association in Education. April 1996.

Phi Delta Kappa, Professional Fraternity in Education. November 1994

Second Place in Social & Behavioral Science Research, The Pennsylvania State University Graduate Research Exhibition. March 1994. A university wide, faculty judged, competition for research entitled: How do prospective teachers, participating in a residential outdoor education program, understand the process of learning to teach?

Environmental Institution Management Scholarship, Delaware Nature Society. January 1987.

Phi Kappa Phi Honor Society, Western Illinois University. May 1986.

Outstanding Senior Award, Department of Recreation and Park Administration. Western Illinois University. "For academic achievement and outstanding service." May 1986.

Vigil Honor, Order of the Arrow. National honorary of the Boy Scouts of America. "In recognition of exceptional service, personal effort, and unselfish interest in the welfare of others." July 1980.

Eagle Scout, Boy Scouts of America. March 1979.