

Adele C. Schepige
Associate Professor, Science and Math Education Specialist
Division of Teacher Education
Western Oregon University
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ACADEMIC DEGREES

- Ed.D. 1998 Portland State University
Curriculum and Instruction, focus area Science Education
Dissertation: A Case Study Investigating the Process of Implementing the
Recommendations of the *National Science Education
Standards* by a Fourth Grade Elementary Teacher
- M.S. 1986 Western Oregon State College, Monmouth, OR
Interdisciplinary Studies: Biology/Geology/Education
- B.S. 1983 Western Oregon State College, Monmouth, OR
Secondary Education: Biology Major, Integrated Science Minor
- A.A. 1980 Central Oregon Community College, Bend, OR

HIGHER EDUCATION TEACHING EXPERIENCE POSITIONS

Western Oregon University
Division of Teacher Education
Associate Professor, Science/Mathematics Education Specialist 1999-present
Division of Natural Science and Mathematics
Adjunct Assistant Professor of General Science 1998-99
Lecturer of Biology and Physical Science 1985-1998
Graduate Teaching Assistant 1985-86

WESTERN OREGON UNIVERSITY TEACHING ASSIGNMENTS

Division of Teacher Education

Assessment, Planning and Instruction
Content Pedagogy Courses: Science and Math (Undergraduate and MAT)
Applied Learning: Science and Mathematics
Quantitative Research
Integrated and Differentiated Instruction
Field Experience I, II, III
PDS I, II, III (Professional Development Seminar)
ED507M SEM: Interdisciplinary Studies: Teaching to the Benchmarks-Reading,
Writing, & Science. (1999) Team teaching with Dr. Sue Dauer, Dr. Susan Wood,
and three Salem-Keizer School District teachers.
Eisenhower Grant, Helen Woods principal investigator, 1996
Math/Science Workshop for Primary Teachers (Primarily Science). Western
student teachers paired with Central, Gervais, and Albany cooperating teachers.
60 hour summer workshop based on NCTM and NSES Standards and follow up
sessions during the school year. Team taught with Dr. Jeanie Behrend, Math ED

Division of Natural Science and Mathematics

Science Inquiry for Teachers GS/ED504M
All About Water GS513M (2000)
Foundations of Physical Science: GS 104,105,106
General Biology: BIO 101,102,103
Earth Science for Elementary Schools GS313
Physical Science for Elementary Schools GS312
Biology for Elementary SchoolsGS311
Systematic Field Botany: BI 321 (1991)
Man and the Ecosystem (Environmental Science) Lab

K-12 TEACHING EXPERIENCE (including volunteer)

Volunteer 2002-03 6th grade science at LaCreole Middle School, Dallas, OR
Volunteer Elementary School Science (Lyle Elementary, Dallas OR)
1993-94, 1996-2002 K-4 science, 1-2 days /week
Substitute Teacher (grades 6-12): 9/83-6/86
High School Science Teacher: 10/84-2/85
Sprague High School, Salem, OR

INSTITUTIONAL SERVICE

Division of Teacher Education

Undergraduate Program Coordinator, 2005 – present
NCATE Assessment team – 2005-present
Teacher Work Sample Inter-rater Reliability Project leader 2005- present
Curriculum Committee: Chair, 2001-2007
Undergraduate program Team leader: Fall 2000 – 2007
Search Committee: 2004-05
Search Committee for Teacher Education Position: 2000-2001
Search Committee for Elementary Reading position: 2000
Steering Committee: 1999-2001
Proficiencies Committee: 1999- Fall, 2001
Teacher Education Admissions Committee: 2002, 1999- 2001
Budget Committee: Chair, 2000-2001

Institutional Committees

WOU Faculty Workload Committee- Fall/Winter 2006-07
Strategic Planning Update committee – Feb 2007
NW Accreditation Self Study Steering Committee: 2005- present
Academic Information Services Committee: 2002-present
Sexual Harassment Task Force: 2005
Faculty Development Committee: 1999-2005, Chair 2001-2002, Vice-chair: 2000-2001
Faculty Senate: 2000-2002

Division of Natural Science and Mathematics Committees and Other Services

M.S. In Education Committee: 1998-99

Science Education Revision Committee: 1997-98

Search Committees for two geologist positions: 1997-98

Physical Science Coordinator: 1993-4, 1996-99

RESEARCH AND SCHOLARSHIP

Current research projects:

- Teacher Work samples: Evidence of Literacy Integration
- Teacher Work Samples: Evidence of teacher effectiveness in Science and Mathematics
- Oregon Collaborative for Excellence in the Preparation of Teachers (OCEPT) Evaluation (WOU Math and Science faculty and WOU student teachers: effective teaching strategies in math and science). An NSF funded project.

Publications

In Progress- Revised edition of

Field, N. & Schepige, A. (1995). *Discovering earthquakes: A nature activity book*. Dog-Eared Publications, Middleton, WI.

Schepige, A. and Bucy, M (2007). Community mapping. In Girod, M. & Steed, J. (Eds.) (2007). Technology in the college classroom: Education. Stillwater, OK: New Forums Press.

Schepige, A. and Templeton, J. (2006). Collaboration of science and science education faculty to develop a standards based Earth Systems Science course. *The Journal of Mathematics and Science: Collaborative Explorations*.

Wainright, C., Flick, L., Morrell, P., Schepige, A. (2004). Observation of Reform Teaching in Undergraduate Level Mathematics and Science Courses. *School Science and Mathematics*, 104(7), 322-336.

Templeton, J. & Schepige, A. (2002) Earth Systems Science- an innovative approach to teaching undergraduate general science. Abstract

Schepige, A., Myers, J & Courtney, A (2002). Forums for scientific research. *The Oregon Science Teacher* 43(5), 7-9.

Assessment Framework for a Proficiency-based Teacher Education Program (2001): Authors and editors - Mary Bucy, Randall Engle, Wangeci Gatimu, Judie Rhoads, Gwenda Rice, Adele Schepige, Laurie Speight and David Wright

Editorial Assistant: *Shifting the Paradigm: Professionalizing Teaching Through Accountability for Student progress in Learning* (2001), WOU College of Education.

Co-author of lab manuals for Foundations of Earth and Physical Science used at Western Oregon University, published 1999-2006

Presentations:

Schepige, A. (2006). *Integrating Project WET within a Program.*

Environmental Educators of Oregon Consortium: Integrating Environmental Education into Teacher Preparation:, Nov 13-14, 2006, Corbett, OR.

Schepige, A. (2007). *Using Evidence from Teacher Work Samples to Evaluate How Teacher Candidates Integrate Literacy into Science Teaching.* Paper presented at the annual meeting of the Association of Science Teacher Educators, Clearwater, FLA, January 2007.

Dauer, S. Rice, G. & **Schepige A.** (2007). *Using evidence from teacher work samples to evaluate how teacher candidates integrate literacy into their content area teaching.* Presentation at the AACTE annual meeting, New York, February 2007.

Schepige, A., Morrell, P., Wainwright, C., & Flick, L. (2006). *The Use of Reform-based Strategies by Three Beginning Teachers.* Paper presented at the annual meeting of the Association of Science Teacher Educators, Portland, OR, January 2006.

Flick, L., Sadri, P., Morrell, P., Wainwright, C., **Schepige, A.**, van Zee, E. (2006) *Reforming College Teaching in Science and Mathematics.* Paper presented at the annual meeting of the Association of Science Teacher Educators, Portland, OR, January 2006.

Dauer, S., Rice, G. & **Schepige, A.** (2006). *Preparing teacher candidates to enhance content area literacy in a teacher work sample context.* Paper presented at the ORATE conference, Salem, Oregon.

Schepige, A. & Rice, G. (2006). *Preparing Teacher Candidates to Analyze Assessment Data in a Teacher Work Sample Context.* Paper presented at the American Association of Colleges of Teacher Education, Washington DC, Feb 2005

Flick, L.B., Morrell, P., Wainwright, C., **Schepige, A.** (2005) *Teaching Practices of Science and Mathematics Faculty Reflecting Standards- based Reform.* Association of Educators of Teachers of Science (AETS), Colorado Springs. CO, Jan 2005.

Schepige, A. & Rice, G. (2005). *Preparing Teacher Candidates to Analyze Assessment Data in a Teacher Work Sample Context.* American Association of Colleges of Teacher Education, Washington DC, Feb 2005

Wainwright, C., Morrell, P., Flick, L., **Schepige, A.**, Park, Y., & Perkins, C. (2005) *The Development and Implementation of a Standards-Based Classroom Observation Instrument: Preliminary Results.* Scientific Reasoning Research Institute, University of Massachusetts; Amherst, MA., 3/4/05

Schepige, A., Morrell, P, Wainwright, C. & Flick, L. (2004). *Do Standards-Based Teaching Practices of Pre-service Teachers Change as They Move into their First Year of Teaching?* Association of Teachers of Science (AETS), Nashville, Tennessee Jan 2004

Schepige, A., Rice, G., & Stonecipher, L. (2002). *Problem-based Service Learning in a Teacher Preparation Program* American Association of Colleges of Teacher Education, New York, NY, Feb 2002.

Schepige, A., Rice, G., Dauer, S., Reynolds, M., & Gilbert, C. (2002). *Work Sample Methodology; A View From the Trenches*. American Association of Colleges of Teacher Education, New York, NY, Feb 2002:

Schepige, A, Rice, G., Stonecipher, L. (2001). *Integrating Service-learning in Pre-service Teacher Education: A Case Study*. World Association for Case Study Research), Sweden, June 2001

Schepige, A. (2000). *Earth Systems Science: Redesigning the Physical Science Sequence at Western Oregon University*. Paper presented at Oregon Academy of Science Annual Meeting, George Fox University, February 26, 2000.

Schepige, A. and Dauer, S. (2000). *Reading, Science and the Benchmarks*. Oregon Reading Association, Portland, Oregon: February 25-26, 2000

Schepige, A. & Tucker, T. (2000). *Muggles World of Science Magic Part I: Physics Muggles World of Science Magic Part II: Chemistry*. Workshop presented at Oregon Science Teachers Association annual Conference. Newport, OR October 13, 2000.

Schepige, A. (2000). *Student research: Connecting to the Oregon Junior Academy of Science and the Oregon Junior Science and Humanities Symposium*. Workshop presented at Oregon Science Teachers Association annual Conference. Newport, OR October 13, 2000.

Schepige, A. (1999). *Elementary Eruptions: Teaching inquiry-based volcano activities for elementary* National Science Teacher Association (NSTA) Regional Conference, Reno, Nevada: Dec 1-3, 1999

Schepige, A. Sessions presented at the Oregon Small Schools Association
June 2002: Science Inquiry for Elementary Teachers
June 1999: Inquiry science in the elementary classroom
June 1998: Teaching about earthquakes in the elementary classroom
June 1996: Science and children's literature
June 1995: Concept/process-based science

Curriculum Development:

WOU Division of Teacher Education Teacher Work Sample Guidelines and Scoring Guides Manual: 2007

ED453: Applied Learning Science and Mathematics, new course- 2006-07

Content Pedagogy I, II, III: technology integration into Mathematics and Science teaching 2004-2006

Service Learning in Teacher Education (2001-2004: with Gwenda Rice and Linda Stonecipher

Community Mapping: 2001, Developed with Gwenda Rice and Mary Bucy

Environmental Science Institute (consultant to NS faculty and on steering committee for institute development)

Math Content and Pedagogy Project: 2001-02

Oregon Collaborative for Excellence in the Preparation of Teachers (OCEPT)

OCEPT Elementary/Middle Level strand leader (2000-2001)

Plan and lead week-long session, June 2000, on science courses for middle level science teacher preparation. Conduct follow-up sessions. Develop and lead 2000-01 elementary/middle strand meetings.

OCEPT Fellow, 1999-2000

Western Team: Adele Schepige, Bradley Matson, Jeffrey Templeton

Project: Redesign the physical science lecture and lab sequence into a Standards based integrated Earth Systems science course that is appropriate for all non-science majors and is especially beneficial for future teachers.

PROFESSIONAL SERVICE

National:

Association of Science Teacher Educators Proposal reviewer, Clearwater FLA conference 2007

National Association for Research in Science Teaching (NARST) Proposal reviewer for 2007 conference.

Environmental Education Committee, Association of Science Teacher Educators, 2007

Association of Science Teacher Educators conference, Portland, OR 2006: Registration, Disabilities chairperson, Fun Run/Walk committee

National Science Teacher Association Regional Conference Inquiry strand coordinator and proposal reviewer, 2002

State:

Oregon Junior Academy of Science, Director, 1998-present

Conference Planning Committee, Central Western Oregon Science Expo Oregon Junior Academy of Science annual conference at WOU, 2002- present

Oregon Junior Science and Humanities Symposium, Director, 2000 – present

Conference Planning Committee, Central Western Oregon Science Expo: Oregon Junior Science and Humanities Symposium annual conference at WOU 2002-present

Project WET (Water Education for Teachers)

- Project WET regional coordinator: 2000-present
- Project WET workshop trainer: 1999-present
- PWET Oregon coordinators and facilitators professional development: Jan 2001
- Grant writing consultant Project WET/Oregon High Desert Museum Jan, 2001
- Grant writing consultant Project WET/Oregon High Desert Museum 9/2000

Oregon Quality Assurance in Teaching Program (O-QAT) 2001-02

Represented WOU

Oregon Department of Education

State Science Content Panel: 1999

TSPC State/NCATE subject area panel

July 17,18, 2000: Praxis content area review

November 12, 1999 served as subject area panelist: Do Oregon preparation and licensure program requirements meet the NCATE science requirements.

Local:

Dallas School District

Dallas High School Site Council 2006-present

Science Inquiry Inservice (Lyle Elementary School): Spring, 2006

Science Standards and Curriculum Evaluation (Lyle Elementary School): 2006

Lyle Elementary School Site Council Member: 2001-2006

June 1999 and August 1999: K-5 Workshops to help implement FOSS science and teach about science inquiry.

1998-2000: Coordinator for teaching science to the Lyle Elementary School Afterschool

Latchkey program by WOU students enrolled in the Biology, Earth Science, and Physical Science for Elementary Schools courses.

1999-Toyota Tapestry Grant for Lyle School: planning and writing team

1994- Elementary Science Workshop: Concept/Process-based Science

30 hour workshop and monthly follow-up sessions during 1994-95 school year

A.C. Gilbert Discovery Village

Consultant for new Earth Science/Natural Disasters exhibit, Fall 2000

Albany School District

Inservice: Physical Science and Inquiry for Elementary Teachers-
Waverly Elementary (1/29/01)

Teaching Research Child Development Center, WOU

Board member, 1997-2000

Textbook reviewer, 1995

Thompson, G. & Turk, J. (1995). *Earth Science and the Environment*. Fort Worth, TX: Saunders College Publishing.

ACADEMIC ADVISING

Undergraduate program Team leader advising 2000- present
Profession Development Seminar advisor: 1999- present
MS in ED advisor: Science and Mathematics
Preview Day: Feb 2002
ECE/Elem/Middle math and science: 1999-present
SOAR: 7/06, 7/ 01, 7/00
Early Bird (Community College Transfers): Spring 1999- 2002
OCEPT sponsored one day advising -Special focus-math and science (10/99)

GRANTS

Schepige, A. and Schoenfeld, W. NASA Educational Public Outreach Grant
"Foundations of Global Climate Change: An Institute for K-12 Educators in the Pacific Northwest." \$45,000

National Junior Science and Humanities Grant, 2007. \$16,950
National Junior Science and Humanities Grant 2006, \$16,950
National Junior Science and Humanities Grant, 2005. \$16,950
National Junior Science and Humanities Grant. 2004 \$17,500
National Junior Science and Humanities Grant 2003 \$17,500

PT3 mini grant: Digital video cameras to develop a PBSL website: awarded \$5000
PT3 mini grant: Integrating Technology into K-8 Teacher Preparation: awarded \$5000
PT3 mini grant: Integrating Technology into Math and Science Teaching: awarded \$5000
PT3 grant "Technology and Training to Implement Community Mapping and Problem-Based Service Learning in the Undergraduate Teacher Education Program: awarded \$7933.00 for training and purchase of technology (with Gwenda Rice and Linda Stonecipher)
Western Foundations Grant: \$800: sponsor WOU students to the NSTA Regional Conference in Fall '02.
Faculty Development Travel Grant Category I- Conference Presenter: 1999-2007
Eisenhower Professional Development Grant in partnership with Willamette University 1996-97: \$167,510.00
Integrating Oregon's Identified Priorities Through Inquiry-based Teaching: A Community Partnership Model for Implementing Oregon's Educational Reform and Enhancing Teacher Professional Development.

PROFESSIONAL DEVELOPMENT

Training:

GIS training, 2001 at WOU: LAS faculty Brian Dutton and Steve Taylor Trainers
Vernier Technology, 8/25/01: Using technology in the math and science classroom
Digital camera use and training through Faculty Resource Center, Spring 2000
PT3 Integrating Technology into the Curriculum: Classrooms@work 8/29/00
Classroom Technology on Wheels, WOU 4/18/00
PowerPoint/Career Track 3/3/00

Conferences-attended only:

Summer Service-Learning Institute, June 2002. George Fox University, Newberg, OR
Service Learning Seminar: Corvallis HS, May, 2002
Association of Educators of Teachers In Science, Costa Mesa, CA : Jan. 2001
National Science Teachers Association Regional Conference, Portland, OR: 2002,1994
National Science Teachers Association Conference, St. Louis, MO: 1995
National Science Teachers Association Regional Conference, Seattle, WA: 1998
Oregon Academy of Science, 1993, 1996-2000
Oregon Science Teachers Association, 1993-1998, 2000, 2001
Northwest Mathematics Conference, Portland, OR: 2002,1999

Meetings and Other:

College of Education/College of LAS teacher preparation update meeting. Feb 2007.
Preparing Teachers to Meet the Needs of Academically Diverse Learners. Workshop
presented by Carol Ann Tomlinson at WOU. Feb 2005
Secondary Integration of Literacy into Content Areas, Oregon Department of Education,
Jane Bruanger and WOU. April 23-24, 2004
PT3 (technology) Retreat November 2-3, 2000
Oregon Science Summit, February 2001 and October 14, 2000 (Integrating inquiry –
based teaching and reading into science)
Contextual Teaching and Learning Project (2000-2001): On-line discussions on
community mapping, technology and worksamples with faculty from Ohio State,
George Washington University

AWARDS

Parents Choice Award, 1996, for *Discovering earthquakes: A nature activity book*.

MEMBERSHIPS IN PROFESSIONAL ORGANIZATIONS

American Association of Colleges of Teacher Education (AACTE)
Association of Science Teacher Educators (ASTE)
National Science Teachers Association (NSTA)
National Council of Teachers of Mathematics (NCTM)
Oregon Council of Teachers of Mathematics (OCTM)
Oregon Science Teachers Association (OSTA)

