

## AMI NOEL ERICKSON, PH.D.

### *PROFESSIONAL GOALS*

My professional goals are to become a master educator, transformational leader, and multi-faceted scientist. I select career paths and professional development opportunities that will allow me to develop in each of these areas. From developing and implementing learner-centered curriculum, to establishing rapport and shared-strategies with my team, to involving students in research opportunities, my ultimate goal is to influence and improve student success in higher education.

### *LEADERSHIP STATEMENT*

As I enjoy life by establishing and reaching exciting personal and professional goals, I will facilitate my team's achievement of goals and resolution of challenges by the following:

I will enable a fair and honest forum of communication.

I will strive to solve problems that prevent my team's ability to move forward.

I will identify, promote, and encourage opportunities to help the team excel in a dynamic process of progress and growth.

I will celebrate team and individual successes while encouraging those I serve to enjoy life.

### *EXPERIENCE - ADMINISTRATIVE*

#### **DEAN OF AGRICULTURE AND TECHNICAL CAREERS, NWCCD, SHERIDAN COLLEGE & GILLETTE COLLEGE, SHERIDAN, WY 2009-PRESENT**

Supervise Departments of Agriculture, Welding, Construction, Machine Tool, Diesel Technology, Engineering Tech, Surveying; Supervise 14 full time faculty and approximately 8 adjunct faculty; manage budgets, facilitate scheduling and program improvements; facilitate college-wide communications; develop and maintain community relationships.

#### **DIVISION CHAIR OF NATURAL SCIENCES, SHERIDAN COLLEGE, SHERIDAN, WY 2008-2009**

Supervised the Departments of Biology, Math, Physical & Earth Science, and Engineering; Supervised 10 full time faculty & 4 adjunct faculty; reviewed budgets; responded to student concerns; facilitated administrative communication channels; coordinated scheduling.

#### **LEAD INSTRUCTOR, FRONT RANGE COMMUNITY COLLEGE, WESTMINSTER, CO 2001-2003**

Hired and supervised 12 adjunct faculty; updated and maintained lab manuals, and coordinated curriculum for General Biology I and Microbiology.

### *EXPERIENCE - TEACHING*

#### **BIOLOGY INSTRUCTOR, TENURED, NORTHERN WYOMING COMMUNITY COLLEGE DISTRICT (NWCCD) - SHERIDAN COLLEGE, SHERIDAN, WY 2006-2010**

Courses Taught, General Biology 1, General Biology 2, Microbiology, Biotechnology, Ecology, Practicum for Natural Resources, Life Science, Field Botany, Topics in Biological Terrorism; Developed Curriculum for a Certificate in Biotechnology (5 new courses) and Human Biology; Committees: Curriculum and Standards (2006 - 2008, Chair 2007 - 2008), WY NASA Space Grant Consortium member representing Sheridan College (2007 - 2009), Museum of Discovery (2006 - 2009), Search committee co-chair for Vice President of Academic Affairs, Search committee chair for faculty positions in Anatomy & Physiology and Geology, First Year Matters Dimension Chair.

**BIOLOGY INSTRUCTOR, NWCCD - GILLETTE CAMPUS, GILLETTE, WY  
2003-2006**

Courses Taught: Life Sciences, General Biology 1, General Biology 2, Microbiology, Biotechnology, Introduction to Horticulture, Human Anatomy & Physiology, Topics in Research, Field Botany;  
Committees & Institutional Activities: Science Club Faculty Advisor, Faculty Senate, Search committee co-chair for Vice President of Academic Affairs, AQIP steering committee, WY NASA Space Grant Consortium member representing Gillette Campus, Search committee chair for faculty positions in Biology.

**BIOLOGY INSTRUCTOR, FRONT RANGE COMMUNITY COLLEGE  
WESTMINSTER, CO 2001-2003**

Courses Taught: Biology for non-majors, General Biology 1, General Biology 2, Microbiology, Plant Science; Committees & Institutional Activities: Faculty Chair of the Student Assessment of Academic Achievement Committee (SAAAC), Transfer Ed Goal Area Chair for SAAAC, Co-Coordinator of SUMETS (Students Underrepresented in Mathematics, Engineering, Technology, and Science), Student Success Advising.

**INSTRUCTOR, COLORADO STATE UNIVERSITY FORT COLLINS, CO 2000  
(SUMMER)**

Courses Taught: Ecology.

**VOLUNTEER EDUCATOR AT THE ARBORETUM LEARNING CENTER,  
UNIVERSITY OF MINNESOTA CHANHASSEN MN 1997 - 1998**

Taught Youth Educational Programs in Horticulture.

**TEACHING ASSISTANT, UNIVERSITY OF MINNESOTA ST. PAUL MN 1996 -  
1997**

Courses Taught: General Botany and Floriculture Production.

*EXPERIENCE - RESEARCH*

**STUDENT RESEARCH ADVISOR, NWCCD SHERIDAN & GILLETTE, WY 2004-  
PRESENT**

Project: Molecular, biochemical and microscopic characterization of soil microbial diversity and microbial-plant relationships; Student researchers present annually at the University of Wyoming Undergraduate Research Days; Research activities are funded by UW INBRE. Laboratory & Field techniques: DNA Isolation, PCR, restriction mapping, Fluorescent in-situ hybridization, antimicrobial assays, plant biomass and biodiversity surveys.

**FIELD TECHNICIAN, COLORADO STATE UNIVERSITY & CO DIVISION OF  
WILDLIFE FORT COLLINS, CO 2000**

Project: Survey of ecological and agricultural communities, plant ID and GIS mapping.

**POSTDOCTORAL FELLOW, COLORADO STATE UNIVERSITY FORT COLLINS,  
CO 1999-2000**

Department of Biology - Project: Elucidate the biochemical and molecular processes of pollen development. Laboratory & Field Techniques: Biochemical staining, Light, Transmission, Scanning, and Freeze-fracture microscopy, Western blots; Field corn crosses, propagation and hybridization.

**GRADUATE RESEARCH ASSISTANT, UNIVERSITY OF MINNESOTA,  
DEPARTMENT OF HORTICULTURAL SCIENCE ST PAUL, MN 1994-1999**

Project: Identify plant physiological and reproductive responses to high temperature exposure.

Laboratory & Field Techniques: Infra-red gas analysis to determine photosynthetic and respiration rates; Wax-embedded tissue prep and light microscopy; osmometer for measuring water potential; LI-COR

instrumentation for gas exchange and transpiration measurements; plant biomass measurements and ratios, greenhouse and growth chamber plant production.

**UNDERGRADUATE RESEARCH ASSISTANT, UNIVERSITY OF WYOMING,  
DEPARTMENT OF BOTANY LARAMIE, WY 1991-1994**

Project: Photosynthetic responses to ultra violet radiation - Senior Thesis; Laboratory & Field Techniques: Li-COR instrumentation for gas exchange; radio-labeling, wax embedded tissue prep and transmission microscopy; Fluorometry for assessing leaf fluorescence; leaf peels for identifying stomatal distributions.

*EDUCATION*

University of Minnesota, St. Paul MN — **Doctorate of Philosophy in Horticultural Science, 1999**

Faculty Advisor: Dr. Albert Markhart, III. Also collaborated with Dr. Vera Krischik, Dr. John Erwin, and Dr. Alan Smith

Dissertation title: "The Physiological and Morphological Consequences of High Temperature on Flower Development and Reproduction of Sweet Pepper (*Capsicum annuum L.*)

University of Wyoming, Laramie WY - **Bachelor of Science in Botany (Minor in Chemistry), 1994**

Faculty Advisors and mentors: Dr. Tom Vogelmann, Dr. Alan Smith, Dr. William Reiners, Dr. Dennis Knight

*AWARDS, FELLOWSHIPS AND GRANTS*

- Participant in the University of Wyoming Northern Rockies INBRE (IDeA Networks for Biomedical Research Excellence). Provides funding for undergraduate research and laboratory upgrades. Funded by NIH (2004 - Present)
- Wyoming NASA Space Grant Consortium Faculty Education Enhancement Grant for \$7071 to develop a "Certificate in Biotechnology: A Multidisciplinary Program to Augment STEM Education." (2008-2009)
- NWCCD Employee of the Year / Wyoming Community Colleges Employee of the Year Nominee (2006)
- NISOD Excellence Awards recipient (2005)
- Decision case grant from the Minnesota Office of Environmental Assessment through the Program for Decision Cases, College of Agricultural, Food, and Environmental Sciences, University of Minnesota (\$1250.00) - Grant # P29-5016 (1998)
- Co-Winner Graduate Student Teamwork Award, Department of Horticultural Science for the Food-Shelf Community Garden Project (1996)
- Outstanding New Graduate Student Award - Department of Horticultural Science (1995)
- Outstanding Graduating Senior - Department of Botany, University of Wyoming (1994)
- EPSCoR Research grant - University of Wyoming (1993)
- REU grant - University of Wyoming (1992)

*PROFESSIONAL ACTIVITIES & COMMUNITY SERVICE*

Appreciative Inquiry Facilitator Training, Company of Experts (2010 - Present)

Editor of the Bighorn Native Plant Society Newsletter (2008 - Present)

Academy for Leadership and Development, Great Lakes Chair Academy (2008-2009)

National Biotechnology Teacher-Leader – Biotechnology Institute (2007)

Advanced Course in Molecular, Microbial Ecology, Institute of Environmental Sciences, University of Zurich (2004)

## PUBLICATIONS

Erickson, A.N. and A.H. Markhart. 2002. Flower developmental stage and organ sensitivity of bell pepper (*Capsicum annuum* L.) to elevated temperature. *Journal of Plant, Cell, and Environment* 25: 123-130.

Erickson, A.N. 2001. Skirmish at Battle Lake: A decision case on the development of a high input potato farm near lakeshore residential communities. *Journal of Natural Resources and Life Sciences Education* 30: 27-34.

Erickson, A.N. and A.H. Markhart. 2001. The Influence of Elevated Temperature and Vapor Pressure Deficit on Flower Production, Fruit Set, and Physiology of *Capsicum annuum* L. *Journal of the American Society of Horticultural Sciences* 126: 697-702.

## PROFESSIONAL PRESENTATIONS

American Technical Educators' Association Region 5 conference, Gillette, WY, Presentation: Building a Biotechnology Program (2010)

Sheridan College Museum of Discovery Science Lecture Series: Biological Weapons: Past, Present & Future (2008)

Western IDEa Symposium on Evolutionary Medicine, Poster: Peterson, C., Emerson, H., Morley, J., Smith, J. and Erickson, A. Characterization of Antimicrobial Properties, morphology and salt tolerance of actinomycetes isolated from big sagebrush (*Artemisia tridentata*) rhizospheres. (2007)

Sheridan College Foundation Faculty Lecture Series. Cloning Me, Cloning You. (2006)

American Society of Horticultural Science, Charlotte, NC. Poster: Reproductive responses of *Capsicum annuum* to high temperatures. (1998)

Society of Plant Physiology, Madison, WI. Presentation: Mechanisms of fruit set reduction in *Capsicum annuum* at high temperatures. (1998)

American Society of Horticultural Science, Salt Lake City, UT. Poster: Development and abortion of flowers in *Capsicum annuum* exposed to high temperatures. (1997)

Society of Plant Physiology. San Antonio TX. Poster: The importance of heat and water stress on abortion of flowers in *Capsicum annuum* and *Fuchsia* sp. during high temperature conditions. (1996)

## PROFESSIONAL AND HONORS SOCIETIES

The Chair Academy

American Society of Botany

Wyoming Science Teachers Association

Big Horn Native Plant Society

Phi Beta Kappa

## COMPUTER SKILLS

Proficient in Windows, MAC OS, Linux, and DOS operating systems, Office and iWork software suites, and web design using Sandvox or Rapidweaver; experienced with WebCT and Blackboard e-education platforms, video and mp3 editing using I-Movie and Amadeus-Pro, and photo editing using Photoshop.