



CANKDESKA CIKANA COMMUNITY COLLEGE

Spirit Lake Dakota Nation

Land Grant/ Natural Resources
701-766-1330

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February 2, 2021

Heidi Ziegenmeyer, Biographical Sketch

My most recent position is Land Grant Director and Natural Resources Instructor at Cankdeska Cikana Community College in Fort Totten, ND. I have held this position since April of 2018. In this role I provide leadership and direction for the growth and development of the Land Grant Extension and Natural Resource Management (academic) programs. I initiate applications for grants, oversee grant activities and budgets, and report to funding agencies. I have also developed course instruction, taught Natural Resource Management courses, and represented the Department to the public while developing and maintaining relationships with external constituencies. I have training in Public Partnerships and Community Development, Conflict Resolution, and Leadership.

The Land Grant program at CCCC is entirely aimed at providing agriculture and nutrition education to the Spirit Lake Community while keeping in mind the Dakota language and culture. The program has started an elders advisory board in order to serve the community better. The staff and myself provide workshops as well as services to beginning farmers (e.g. garden tilling, a community garden, seeds and seedling packages, "how to start a garden" workshops). We also do nutrition and food preservation workshops and a farmer's market for the community. As Director, I have connections with all of the health and food sovereignty related projects and programs on the reservation.

My previous positions have all been in public service in some form. I have worked for City government as well as State government in environmental positions. These include laboratory technician, aquatic biologist, and permit coordinator. All of these roles had many facets and required accountability both internally and externally.

For my education, I attended Michigan State University for my Master of Science in Fisheries and Wildlife and the University of Michigan for my Bachelor of Science in the Program in the Environment with Distinction and High Honors. I did thesis options at both universities and worked closely with State agencies on projects that would have public impact. I believe in making a difference in this world through education and public service.

Thank you for this opportunity.

Sincerely,

Heidi Ziegenmeyer
Land Grant Director
Cankdeska Cikana Community College
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Think Dakota • Live Dakota

Heidi Ziegenmeyer

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OBJECTIVE

To promote an understanding of the natural world and help others realize their full potential.

EDUCATION

Michigan State University, East Lansing, MI

Aug. 2011

Master of Science, Department of Fisheries and Wildlife,

Specialization in Ecology, Evolutionary Biology, and Behavior

Thesis Title: Effects of Spring Angling, Habitat Features, and Guarding Male Attributes on Largemouth Bass (*Micropterus salmoides*) Nest Survival, and Implications for Fall Young-of-Year Abundance

GPA 3.9

University of Michigan, Ann Arbor, MI

Apr. 2008

Bachelor of Science with Distinction and High Honors, Program in the Environment

Specializing in Aquatic Ecosystem Science

Thesis Title: A Comparison of Macrophyte Sampling Protocol Determined from a Michigan Lake

GPA 3.8

RELATED EXPERIENCE

Cankdeska Cikana Community College, Fort Totten, ND **Apr. 2018 – Present**

Land Grant Director/Natural Resources Instructor

- Provided leadership and direction for growth and development of the Land Grant and Natural Resource Management Programs.
- Initiated applications for grants, oversaw grant activities and budgets, and reported back to funding agencies.
- Has written and overseen implementation of over 15 grants in 3 years.
- Developed course instruction and taught Natural Resource Management classes.
- Represented the Department to the public, developed and maintained relationships with external constituencies.

Department of Public Works, City of Williston, ND

Feb. 2016 – Nov. 2016

Laboratory Technician/Wastewater Treatment Plant Operator

- Researched, wrote, and implemented standard operating procedures to obtain state certification for the city wastewater treatment laboratory.
- Performed water chemistry tests and microbiological observations to inform wastewater treatment plant operations.
- Provided support to aid compliance with State and Federal Regulations.

Department of Environmental Quality, State of Michigan

Oct. 2015 – Jan. 2016

Aquatic Biologist-11 in the National Pollutant Discharge Elimination System (NPDES) Program

- Interpreted and applied Clean Water Act regulations to determine NPDES permit limits.
- Evaluated quality of water bodies to determine whether designated uses are being met by performing sampling of fish, macroinvertebrates, and habitat.
- Collaborated with DEQ staff to issue permits and address emerging issues on work groups.

Department of Environmental Quality, State of Michigan

Mar. 2014 – Oct. 2015

Environmental Quality Analyst-11 in the Aquatic Nuisance Control (ANC) Unit

- Interpreted and implemented changes to the ANC statute.
- Coordinated with staff and took the lead on various projects for overall program improvement.
- Reviewed and issued permits for aquatic nuisance control activities, such as treatment to remove invasive aquatic species.
- Discussed and negotiated with permit applicants to determine appropriate aquatic nuisance removal treatments in accordance with all rules and regulations.
- Effectively communicated with the public as well as other agencies regarding the ANC program and to address concerns about the water body involved.

Department of Environmental Quality, State of Michigan

May 2012 – Mar. 2014

Environmental Quality Analyst-10 in the Groundwater Permits Unit

- Initiated improvements to the Groundwater Program through active involvement and coordination of staff involved to accomplish goals.
- Developed and negotiated draft permits and denials with all concerned parties in accordance with applicable state laws for proposed groundwater discharges.
- Coordinated the technical and compliance reviews conducted by staff hydrogeologists, engineers, soil scientists, toxicologists and district compliance staff.
- Organized site inspections with applicants, consultants, Water Resources Division technical staff, and district compliance staff
- Communicated with the public and organized public meetings and public hearings.

Michigan State University Dept. of Fisheries and Wildlife

Feb. 2011 – Apr. 2012

Research Assistant

- Contributed to a meta-analysis of the effects of fisheries regulations.
- Documented all major decisions and took meeting minutes.
- Created and managed databases in Excel and EndNote.
- Independently performed literature search and summarized data.

Michigan State University Dept. of Fisheries and Wildlife

May 2008 – Aug. 2011

Graduate Research Assistant

- Directed an evaluative project to assess DNR fishing regulations.
- Instructed and managed a field crew to collect data toward Master's Thesis.
- Independently conducted field sampling.
- Utilized GIS and statistical analysis software.

- Synthesized results of a large project in presentations and written documents.
- Worked collaboratively with members of the DNR Fisheries Division.

Michigan State University Dept. of Biological Sciences Jan. – May 2009/2010

Graduate Teaching Assistant

- Instructed students on biological concepts and statistical analyses.
- Entrusted to work independently to accomplish daily and long-term goals.
- Effectively demonstrated laboratory skills, safety procedures, and care and use of equipment

University of Michigan School of Natural Resources

Jan. 2007 – Apr. 2008

Undergraduate Honors Thesis

- Thesis Title: A Comparison of Macrophyte Sampling Protocol Determined from a MI Lake.
- Created and implemented an independent research project.
- Effectively collaborated with advisors and government professionals.
- Engaged professionals from both the DNR and the DEQ to aid in performance of sampling protocol.
- Analyzed data to make recommendations regarding protocol to both state agencies.

University of Michigan School of Natural Resources

May 2007 – July 2007

Research Assistant with Dr. J. David Allan

- Identified macroinvertebrates, gained experience doing lab work in aquatics.
- Independently completed tasks assigned by senior scientists.

SKILLS

- Grant writing and oversight
- Community development around food sovereignty and local foods
- Teaching and tutoring at the college level
- Report writing for government oversight
- Proficient in laboratory procedures and use of equipment
- Performance of water/wastewater sampling and analysis and wastewater treatment methods
- Performance of macroinvertebrate, macrophyte, and fish sampling methods (electrofishing, seining, and fykenetting)
- Obtaining age data from fish scale and spine sections
- Knowledge of Word, Excel, PowerPoint, Access, Outlook, SPSS, SAS, Program MARK, GIS

PRESENTATIONS

Bremigan, M.T., G.B. Steinhart, B. Roth, and **H.L. Ziegenmeyer**. 2011. Lessons learned from a literature review of sportfishing regulation effects. American Fisheries Society Meeting, Seattle, WA.

Hessenauer, J.M., **H.L. Ziegenmeyer**, M.T. Bremigan, and K.T. Scribner. 2010. Assessing the effects of spring fishing on nesting dynamics and recruitment in black bass populations. Meeting of the Michigan Chapter of the American Fisheries Society, Marquette, MI.

Ziegenmeyer, H.L. and M.T. Bremigan. 2010. Exploring natural and human-induced factors and their relationship to black bass nest success. Michigan State University Department of Fisheries and Wildlife Graduate Student Organization Symposium, East Lansing, MI.

Ziegenmeyer, H.L. and M.T. Bremigan. 2009. Angling effects and black bass nest success: integrating my M.S. research and the Fenske Fellowship experience. Michigan Chapter of the American Fisheries Society, Dundee, MI.

Ziegenmeyer, H.L. and M.T. Bremigan. 2009. Angling effects and black bass nest success: integrating my M.S. research and the Fenske Fellowship experience. Michigan State University Department of Fisheries and Wildlife Graduate Student Organization Symposium, East Lansing, MI.

PUBLICATIONS

Ziegenmeyer, H. L. (2012, November 9). [Web log message]. Retrieved from http://www.michigan.gov/documents/deq/wrd-waterwords-2012-11-9_403370_7.pdf

Ziegenmeyer, H.L. 2010. Excellence in fisheries management made possible by the Janice Lee Fenske Fellowship. Fisheries 35(5):248-249.

Ziegenmeyer, H.L. 2010. Excellence in fisheries management made possible by the Janice Lee Fenske Fellowship. MSU Fisheries & Wildlife Spotlight 6:19.

HONORS AND AWARDS

- CCCC Employee of the Year Honorable Mention 2021
- Michigan Dept. of Environmental Quality Leadership Academy 2015-2016
- MSU Dept. of Fisheries and Wildlife Graduate Fellowship Award for service to the Dept. 2010
- Janice Lee Fenske Excellence in Fisheries Management Fellowship 2008-2009
- Virginia Voss Memorial Award for Excellence in Academic Writing 2008
- University Honors 3 semesters, University of Michigan
- James B. Angell Award Scholar for all A's two or more semesters
- Jeannine Boukai Memorial Award for female sophomore with interest in environmental quality and most outstanding academic record 2006
- Anne E. Shipman Stevens Award for service to the Martha Cook Residence Hall 2006
- Residence Halls Association Representative of the Year 2005-2006

RELEVANT COURSEWORK

Graduate Education

- Water Policy and Management
- Advanced Statistics for Biologists
- Population and Community Ecology
- Seminar on Adaptive Management
- Advanced Limnology
- Conservation Genetics
- Seminar on Exploitation of Wildlife
- Seminar on Outreach, Engmnt., and Extension

Undergraduate Education

- Rivers, Lakes, and Wetlands
- Biology of Fishes
- Introduction to Environmental Analysis
- Oceanography
- General Biology
- General Ecology at UM Biological Station
- Ecology of Fishes
- Limnology
- Marine Ecology
- General Chemistry

Special Seminars/Workshops

- Annual conference attendance and professional development at USDA NIFA CYFAR, FALCON, 4-H Training, AIHEC, Extension Professionals
- ACUE Micro-credential in Online Teaching 2020
- Laboratory Test Methods Workshop August 2016
- DEQ Leadership Academy-monthly training in leadership topics, collaborative work on a project to promote the goals of the DEQ, and regular meetings with a mentor, August 2015-Present.
- Understanding Your Conflict Mode Using the TKI Instrument, November 2013.
- Operator Certification Training Courses in Wastewater Stabilization Lagoons, Activated Sludge Process Controls, and Wastewater Laboratory Procedures, October 2013
- Midwest Environmental Enforcement Association Training: Negotiation Skills, Testimony and Question Skills, Interview Skills, June 2013.
- Department of Environmental Quality Water Resources Division Hazard Awareness Training, April 2013
- MCSC Essentials of Leadership Training, August 2012
- Developing Communication and Conflict Management Skills to Save Time and Enhance Productivity Workshop, Aug. 2011
- Program MARK Introductory Workshop, May 2009

ACTIVITIES

- CCCC STEM Committee President 2019-Present
- Lake Region Public Library Board Member (2020), President (2021-Present)
- Lake Region Public Library Foundation Board President (2021-Present)
- Williston Public Works Department Safety Committee Chair 2016
- DEQ Water Resources Division (WRD) MiWaters Database Administrator 2015-2016
- DEQ WRD Harmful Algae Bloom Work Group 2014-2016
- DEQ MiWaters Database Development Subject Matter Expert 2013-2016
- DEQ Earth Day Event Volunteer 2013-2016
- DEQ WRD Compost Work Group 2013-2014
- Co-Chair (2013-2014), DEQ Groundwater Committee 2012-2014
- Volunteer, Eaton Conservation District 2011-2012
- Chairperson, Dept. of Fisheries and Wildlife Graduate Student Organization Fundraising Committee 2009-2010