

ALYSSA M. KIESOW, PH.D.

EDUCATION

University of South Dakota, Vermillion, SD, Ph.D., Biology, 2008.
South Dakota State University, Brookings, SD, M.S., Biology, 2003.
South Dakota State University, Brookings, SD, B.S., Biology, 2000.
Winona State University, Winona, MN, A.A., Liberal Arts, 1997.

NOTABLE AWARDS/HONORS

Western Academic Leadership Academy Cohort, 2023-2024. (Nominated and selected as a member of the 2023-2024 cohort, as part of Western Interstate Commission for Higher Education [WICHE].)
National Science Foundation Panel Reviewer, 4x (Years: 2020, 2021, 2022, 2023)
Online Learning Consortium Certificate for Online Teaching, 2018. (Received grant for 10-week foundation course, three workshops, and final presentation in online education through OLC.)
Community Leadership Award, Northern State University, Aberdeen, SD, 2018. (Selected for Science, Technology, Engineering, and Mathematics [STEM] outreach activities.)
Teamwork Award, Northern State University, Aberdeen, SD, 2018. (Selected for collaboration on new Harvey Jewett Regional Science Center, which opened Fall 2019.)
Outstanding Faculty for International Students, Northern State University, Aberdeen, SD, 2016. (Selected for mentorship to international students.)
Outstanding Faculty Member, Northern State University, Aberdeen, SD, 2013. (Delivered winter commencement speech in December 2013.)
Joseph F. and Martha P. Nelson Research Fellow, University of South Dakota, Vermillion, SD, 2006-2007. (Received doctoral fellowship/scholarship for research endeavors.)

PROFESSIONAL EMPLOYMENT

2020 – **Dean, College of Arts and Sciences**, Northern State University, Aberdeen, SD (Interim AY20-21)
2020 – **Director of Sponsored Projects**, Office of Vice President for Academic Affairs, Northern State University, Aberdeen, SD
2018 – 2020 **Associate Dean, College of Arts and Sciences**, Northern State University, Aberdeen, SD
2018 – 2020 **Chair, Department of Science and Mathematics**, Northern State University, Aberdeen, SD
2018 – **Professor, Biology (tenured)**, Department of Science and Mathematics, Northern State University, Aberdeen, SD
2013 – 2018 **Associate Professor, Biology (tenured)**, Department of Science and Mathematics, Northern State University, Aberdeen, SD
2012 – 2018 **Founding Coordinator of STEM Outreach Program**, Department of Science and Mathematics, Northern State University, Aberdeen, SD
2010 – 2018 **Founding Coordinator of Undergraduate Research Program**, Office of Vice President for Academic Affairs, Northern State University, Aberdeen, SD
2008 – 2013 **Assistant Professor, Biology (tenure-track)**, Department of Science and Mathematics, Northern State University, Aberdeen, SD
2007 – 2008 **Instructor of Biology**, Department of Science and Mathematics, Northern State University, Aberdeen, SD
2006 – 2007 **Graduate Research Fellow**, Department of Biology, University of South Dakota, Vermillion, SD
2002 – 2006 **Wildlife Biologist (Terrestrial Ecologist)**, South Dakota Game, Fish, and Parks, Pierre, SD

ADMINISTRATIVE EXPERIENCE

2020 – present

Dean, College of Arts and Sciences, Northern State University, Aberdeen, SD (Interim AY20-21)

*Northern State University (NSU) is a comprehensive regional university in northeastern South Dakota (SD) that has a tradition of strong academics rich in education focused on training future educators and critical thinkers. The university was established to deliver graduate and undergraduate programs; promote excellence in teaching and learning; support research, scholarly and creative activities; provide service to SD, the region and the nation; and place special emphasis on E-learning in the university curriculum and service. Enrollment is approximately 3,400 students with a total operating budget of approximately \$50 million. NSU is consistently ranked one of the top schools in the Midwest by US News and World reports. It has three schools and one college, the College of Arts and Sciences (CAS), which makes up **the largest college with 450 full-time student majors (Fall 2023), ~50 faculty and staff, ~\$4.1 million budget, three departments (i.e., History and Social Sciences; English, Communication and Global Languages; and Science and Mathematics), and a nationally accredited concurrent enrollment program, i.e., Rising Scholars program. Soon, we will add a fourth department, the Department of Nursing, to develop and initiate a new bachelor of science nursing (BSN) program.** In my current role as dean, I oversee the activities of the CAS, which is the “heart and soul” of the university and serves the entire campus through its strong liberal arts education through programs in English, communication studies, math, sciences, history, government, languages, criminal justice, social science, and nursing.*

Significant accomplishments under my leadership

Executive Experience

Member of Deans Council

Member of Athletic Director search committee and part of School of Business Dean, Director of Admissions, and Director of Marketing searches

Member (or former member) of four South Dakota Board of Regents (SDBOR) Work Groups, which include:

Member of Faculty Workload work group

Member of Nursing Collaborative work group

Member of Recruitment and Retention work group

Member of Risk Identity work group

Revenue Generation, Philanthropy, and Partnerships

Worked with NSU Foundation to seek collaborations and opportunities with external partners

Coordinated and attended alumni events, in and outside of Aberdeen

Built relationships with industry partners, e.g., 3M, Ag Processing Inc. (AGP) Soybean, One-legged Pheasant (OLP), and Lake Oahe Walleye Restoration Coalition (LOWRC)

Secured new \$2 million endowment for English faculty line and CAS WolfPact scholarships

Secured new nursing scholarships to support new Bachelors of Science in Nursing (BSN) program

Raised new funds each year during GiveNDay

Raised approximately \$5,000 each year to support student scholarships

Raised approximately \$5,000 each year in new funds to support CAS initiatives

Created revenue-generating research in collaboration with local, state, and international businesses

Worked with OLP to create Alpha Lager and Waldo Ale beer, where 15% of sales comes back to CAS

Worked with AGP Soybean to create/build applied research experiences for students and faculty

Currently working with Northern’s President, South Dakota Game, Fish and Parks and LOWRC regarding student internships and walleye restoration (logistics ongoing) to build Recirculation Aquaculture System (RAS) facility on Northern’s campus

Communication in- and outside College

Strengthened relationships/collaborations within CAS, across campus, and among the SDBOR institutions via continual communication through semi-monthly coffee chats and “Friday” emails

Worked as part of a team to address COVID-19 practices and policies for CAS and NSU during AY2020-2021

Work with campus offices, e.g., Online and Continuing Education, Admissions, Marketing, Registrar’s office, Finance, Purchasing, Human Resources, Academic Affairs, Foundation, Student Affairs, Student Success Center, and Financial Aid to ensure proper operations and student success

Manage college newsletter, website, promotional materials, social media, podcast (called *WolfTrax*), and various marketing efforts in collaboration with university relations

Academic Staff and Faculty Development

Oversaw Promotion and/or Tenure of 14 CAS faculty and successfully hired 8 faculty and 8 staff, including 2 associate deans and 2 chairs
Developed policies and procedures for activities in CAS to ensure common, fair practice
Created CAS Faculty Research Award to give release time to faculty
Established CAS Distinguished Faculty Award to recognize longevity and dedication to the college
Established CAS Faculty Development Award to support research publications
Retoiled CAS mentorship program to ensure successful on-boarding of new faculty and staff
Support training for Chairs and Associate Deans at annual workshops/conferences, e.g., Council of Public Liberal Arts Colleges (COPLAC) and Council for College of Arts and Sciences (CCAS)
Encourage and support faculty, staff, and student governance. Meet semi-monthly with representatives of these groups.

Strategic Planning and Operations

Built initial CAS strategic plan in AY2019-2021 utilizing “strategic doing” methodology. Continue to work with Chairs, Dean, faculty, staff, and students to develop the CAS strategic plan with a strong vision and actionable goals and tasks. New CAS strategic plan, AY2023-2025, was recently developed.
Member of recruitment and retention committee as part of campus-wide Strategic Enrollment Management (SEM) plan guided by EAB
Led the renovations of Mewaldt-Jensen, which included majority of NSU classroom spaces. Built classrooms to allow HyFlex delivery. (Note: Also led the development of the new science building, but as Chair.)
Member of the campus-wide master planning team to create 10-year plan of campus renovations and spaces

Program Development and Assessment

Collaborate with Chairs, Deans, universities, faculty and staff on curriculum, program development, and articulation agreements
Built the following degrees: Biochemistry, Global Languages and Culture, **Nursing**, and BSEd Science Education
Built the following agreements: guaranteed admission in Engineering with South Dakota State University (SDSU), direct admit in accelerated Nursing with SDSU, 2+2 in General Studies and Criminal Justice with Southeast Technical College (STC), and 4+1 in Sociology and Master of Social Work with University of South Dakota (USD)
Embrace/encourage Artificial Intelligence (AI) and HyFlex in the classroom. Work with Center for Excellence in Teaching and Learning (CETL) to provide pedagogy training. Work with colleagues to develop pertinent curricula.
Conduct annual and three-year program assessments and six-year program review for General Studies program, and review all departmental assessments and program reviews
Assist with assessment and accreditation needs in CAS and Higher Learning Commission (HLC) by working with Chairs, faculty, and staff for program and course level assessment
Updated CAS review processes. Provided standardized process to ensure accuracy and consistency in reviews.
Conduct continual data analyses of CAS programs (e.g., student numbers, faculty to student ratios, etc.) by working directly with the Office of Institutional Research
Supervise and work with NSU’s CAS Director of Rising Scholars, which is SD’s only National Accreditation of Concurrent Enrollment Programs (NACEP) accredited program, to ensure all accreditation needs/requirements are met. Programs serves approximately 850 high school students annually.

Increasing/Improving Opportunity for All

Member of the CCAS Advisory Committee regarding informs policy and guidance related to opportunity for all
Subawardee of National Science Foundation (NSF) ADVANCE grant. (ADVANCE: Organizational Change for Gender Equity in STEM Academic Professions). Worked with a team of colleagues to use data to drive/inform policy change at the SDBOR level as it related to fair and consistent practices, e.g., Family Leave policies, Stop-the-Clock policies, etc.

Leadership Development

Affinity Leader for COPLAC ADVANCE grant (2020-2023). Provided leadership guidance to chairs at liberal arts schools throughout North America, through semi-monthly Zoom sessions/chats.

Nominated and selected for Western Academic Leadership Academy available through WICHE as member of the AY23-24 cohort

Attended several Leadercast trainings: 2021, 2022, 2023

Attend annual CCAS Deans Conference and International Leaders Association (ILA) conferences

Budget Acumen

Manage CAS budget \$4.1 million budget

Utilize unrestricted funds responsibly focusing on CAS initiatives, e.g., needs-based scholarships

Allocate restricted funds according to state and federal rules and regulations

Make data-driven decisions with budget cuts, allocations, reallocations, etc.

2020 – present

Director of Sponsored Projects, Office of Vice President for Academic Affairs, Northern State University, Aberdeen, SD

*Northern State University is a regional comprehensive university located in Aberdeen, SD, and according to “grant” standards the university is considered a Primarily Undergraduate Institution (PUI). The director of sponsored projects serves the entire campus as well as the represents the university at the state-level regarding research, e.g., the SDBOR Research Affairs Council and state Research, Excellence: A Critical Hallmark committee. **The director role is similar to a Vice President for Research and Economic Development, as Northern State University does not have a formal research office.** Since serving as the director of sponsored projects, faculty have been successful in securing federal, state, and private awards. Some notable federal allocations include Economic Development Association’s (EDA) Build to Scale grant, United States Department of Education’s (US DOE) Upward Bound and McNair awards, and NSF’s Campus Cyberinfrastructure (CC)* grant, while some notable state/non-profit allocations include a SDBOR Research and Development, 3M Foundation, and Knight Foundation awards. These recent successes provide infrastructure necessary to compete on a global scale in technology and business as well as support underrepresented groups. Each year faculty, with the support from the director of sponsored projects, submits \$5 million of proposals to federal, state, or private entities, with approximately \$1.5 million awarded from these submissions.*

Significant accomplishments under my leadership

Executive Experience

Member of SD Research, Excellence: A Critical Hallmark (REACH) committee that informs science and technology research and state spending in SD

Member of SDBOR Research Affairs Council (RAC) that works collaboratively among the state regental schools to ensure consistency of practices and provide collective decisions

Member of National Council for University Research Administrators (NCURA), an organization tailored to provide resources and guidance to Sponsored Projects

Member of the Institutional Research Board (2020-2022). Certified through Collaborative Institutional Training Initiative (CITI) for human and animal research as well as animal use and care. As Director, added Institutional Animal Care and Use Committee (IACUC) in 2023 under IRB umbrella.

Member of a collective team working with SDBOR to build standard, centralized platform, i.e., Cayuse

Raising the Research Profile

Helped faculty and staff secure major grants and awards from public and private entities, some include:

US DOE, Upward Bound - \$1.72 million (5-year award)

Knight Foundation, Public History and Civic Engagement - \$32,000 (3-year award)

SDBOR, Research and Development – 2 awards, each ~\$200,000

NSF, CC* - \$998,750 (3-year award)

EDA Venture Challenge, Build2Scale - \$1.48 million (5-year award)

SD Education Access Foundation (SDEAF), Northern Academy & Empowering Innovators – 2 awards totaling \$1.5 million

3M, STEM Outreach and STEM Scholarships – 2 awards totaling \$30,000

US DOE, McNair – \$1.5 million (5-year award)

Helped assist new Coordinator for Research and Scholarship transition into and retool the program

Increasing/Improving Opportunity for All

Member of the Organizing Committee (and contributor) on recent state (MT, ND, and SD) collaborative NSF Growing Research Access for Nationally Transformative Equity and Diversity (GRANTED) award

Pre- and Post-Award Guidance with Budget Acumen

Prior to submission review all grants (content, budgets, etc.), conduct internal review approval, ensure meets rules and regulations related to granting agency and university

After submission and notification of award, work with all granting agencies to obtain allocations to make purchases according to budget as well as provide necessary contact, data/allocation requests, etc.

Work with faculty and staff to ensure compatible with content of original submission and complete all necessary reports (e.g., interim and final) in a timely manner

Communication in- and outside University

Developed an annual Sponsored Projects newsletter for campus community with annual updates on grants

Created intranet site for “everything grants” to ease understanding of the process and provide resources to faculty

Worked with RAC to identify and adopt a universal resource, i.e., Cayuse, with other SD institutions that assists with pre- and post-award activities

Work with campus offices, e.g., Marketing, Finance, Purchasing, Human Resources, Academic Affairs, Foundation, Student Affairs, and Financial Aid to ensure proper operations and student success

Email faculty each month just to remind them of me as a resource

Provided information sessions during in-service and during CETL trainings to increase awareness of Sponsored Projects and drive new ideas and grant submissions

2018 – 2020

Associate Dean, College of Arts and Sciences, Northern State University, Aberdeen, SD

*NSU provides education and degrees to students focused on career readiness. Much of this includes preparedness in communication and critical thinking, which is often handled and housed in the CAS. To effectively address employer needs, it is important to be goal-driven and establish action items around strategic efforts. **Strategic efforts for the CAS were led by the associate dean; thus, a new, actionable strategic plan was developed to effectively address the goals of the college.** Behind this development, data collection and analyses, collective discussion and decisions, and collaborative design and creation were important. For the first time in 2019, the CAS created a two-year working plan with achievable tasks to make the college an effective and collaborative learning environment supported by faculty, staff and students.*

Significant accomplishments under my leadership

Strategic Planning

Oversaw activities of a new strategic plan

Utilized new idea, strategic “doing,” that focuses on actionable tasks over a short-term

Oversaw new initiatives for CAS as it related to new strategic plan

Academic Staff and Faculty Development

Refined “open classrooms” and “peer review” process to ensure effectiveness of these programs

Developed competency in institutional policies and procedures, particularly standards for faculty evaluation for annual reviews and promotion and tenure

Provided mechanisms to support student activities and faculty development in CAS, i.e., funding sources

Connections and Communication

Served as faculty liaison and advocate to Dean of CAS

Shared the responsibility (with the Dean) of representation on campus-related committees or at campus-related events, e.g., international “sashing” ceremony, Northern lights launch, and graduation
Strengthened relationships within CAS and across campus through continual communication through individual faculty meetings

2018 – 2020

Chair, Department of Science and Mathematics, Northern State University, Aberdeen, SD

NSU is a regional comprehensive university located in Aberdeen, SD with a “first-class” regional science education center. The Jewett Regional Science Education Center, which opened in 2019, is a state-of-the-art facility equipped with classrooms, teaching labs and research lab spaces. This facility is well-equipped for undergraduate science education, STEM outreach activities, and research efforts in most disciplines. It was built from a vision by biology faculty in 2009, with my leadership, upon the receipt of our first NSF Established Program for Stimulating Competitive Research (EPSCoR) subaward allocation, as a target for the program. Ten years later, we received private funding through our efforts and connections to build a \$25 million building, and the chair was integral in shepherding the development, construction, and move regarding the new building. Further, the chair is responsible for faculty development, evaluations, curriculum, and other related duties in the largest department, Science and Mathematics, in the CAS.

Significant accomplishments under my leadership

Strategic Planning and Operations

Coordinated efforts in design, planning, and move into the new Harvey Jewett IV Regional Science Education Center, a 25-million-dollar science building with a “move in” date of Aug 19, 2019
Organized meeting for South Dakota Academy of Science in 2020 at regional science center, cancelled due to COVID-19

Academic Staff and Faculty Development

Supervised two science lab managers (one part-time), one part-time greenhouse manager, 18 tenure-track faculty, and three adjunct faculty (at a satellite community campus)
Conducted annual reviews and mentored faculty and staff within the department
Summarized student opinion surveys and met with faculty each semester to discuss these surveys

Committee Experience

Member of NSU Teacher Education Council
Member of NSU Graduate Council
Member of SD Academy of Science Executive Committee
Member of Institutional Research Board

Advocacy for Department

Served as faculty liaison and advocate to Dean of CAS to ensure transparency between the department and the Dean’s office
Coordinated and worked with Provost’s office and Sponsored Projects’ office with regard to operating grants, submitted proposals and/or other funding requests
Represented department and faculty at CAS, Graduate Council, and other such meetings
Collaborated with Chairs and Dean to improve administrative activities and daily work duties of faculty and staff

Budget Acumen

Managed departmental budget, approved travel and purchases, and prepared budget requests necessary to improve the operation of the science and math department

Departmental Operations

Produced and reported departmental updates to appropriate parties, particularly for website
Worked with faculty and staff to plan academic schedules conducive to other activities, organize and conduct annual and seven-year program reviews, revise and/or create new curriculum
Met regularly with department to ensure communication among colleagues and streamline program revisions/new program requests to the SDBOR

Provided data sharing mechanisms to faculty and staff
Established new graduate programs (e.g., Science “track” for Master of Science in Teaching and Learning; Lab Management “track” for Master of Science in Management)
Worked with campus offices, e.g., Online and Continuing Education, Admissions, Marketing, Registrar’s office, Finance, Purchasing, Human Resources, Academic Affairs, Student Affairs, Student Support Services, and Financial Aid to ensure proper operations and student success

2012 – 2018

Founding Coordinator of STEM Outreach Program, Department of Science and Mathematics, Northern State University, Aberdeen, SD

To support the university’s mission, the STEM outreach program was created to provide opportunities and capture an interest in STEM fields. NSU’s STEM outreach program utilizes a graduate student and works with pre-service teachers to design and deliver science programs to elementary classrooms in northeastern South Dakota. These programs range from chemical to life science programs, and have been widely successful. Some examples include creating slime, conducting electricity, using microscopy, and observing density. Since its inception, this program has grown from servicing two classrooms, each with 25 students, to 11 classrooms, each with 25 students, and includes a variety of educational models and additional opportunities to for elementary students, and, now, teachers to learn science and math from individuals trained in such fields.

Significant accomplishments under my leadership

Community Connections

Developed and delivered activities at local K-5 schools but also provided opportunities at NSU in greenhouse classroom and via cadaver visits
Science programs provided to The Learning Tree, Montessori School of Aberdeen, May Overby Elementary, Simmons Elementary, and OM Tiffany Elementary
Topics ranged from experimentation with fruit flies to DNA extractions to chemical explorations
Provided tours of science labs with small lab activities, including cadaver viewing (for older groups)

Improved Science Interest and Literacy

Program grew from two classrooms in one community (~50 students) to eleven classrooms in two communities (~275 students) during 2012 to 2018
NSU student assistants increased from zero to six, and a GA was hired to assist

2010 – 2018

Founding Coordinator of Undergraduate Research Program, Office of Vice President for Academic Affairs, Northern State University, Aberdeen, SD

Supporting and celebrating undergraduate research is the norm at NSU, and part of its mission. I worked directly with the Provost’s office to create 1) an undergraduate research and travel grant program with \$10,000 available per academic year, 2) an undergraduate research forum, 3) a strong student selection process for the Pierre poster session (a legislative research poster session), and 4) an undergraduate research newsletter to promote undergraduate research across campus. When I began as the coordinator, there were no monies and few faculty working with students on research. Now, NSU has faculty in every school/college working with students, twice to triple the number of projects each year; many of these are supported by the undergraduate research program. The coordinator oversees these activities and ensures undergraduate students have the means and support to succeed.

Significant accomplishments under my leadership

Program Development and Oversight

Created infrastructure of undergraduate research program
Oversaw a committee of faculty to monitor/guide undergraduate scholarly activities
Created an undergraduate research grant program by working with the Provost’s Office
Allocated \$10,000 to undergraduate research and travel to support undergraduate scholarship

Started and planned annual undergraduate research forum
Organized participation in annual Pierre poster session, an opportunity to celebrate undergraduate research at the capital during the legislative session
Produced and maintained undergraduate research website
Produced undergraduate research component for SDBOR as well as annual assessment/review for Higher Learning Commission (HLC) accreditation
Managed budget related to grants and other activities supported by program
Served as faculty liaison to Provost's office and Sponsored Projects' office

TEACHING AND PROFESSIONAL EXPERIENCE

2018 – present

Professor of Biology (tenured), Department of Science and Math, Northern State University, Aberdeen, SD

Taught face-to-face and online courses to pre-health students (see Courses Taught). Continue to teach Physiology online.

Conducted laboratory preparation, purchased items for my biology courses, and maintained biology laboratory equipment related to my teaching and scholarship

Advised and mentored biology education, pre-nursing, and pre-dental students

Conducted graduate (through NSU School of Education) and undergraduate research activities, oversaw approximately 30 projects (mostly at undergraduate) to date

Served on various campus and community committees (e.g., Teacher Education Council, Graduate Council, Institutional Research Board)

Conducted STEM outreach activities to K-5 schools, 1x/month per academic year, and built an internship program for college students (see Founding Coordinator of STEM Outreach)

2013 – 2018

Associate Professor of Biology (tenured), Department of Science and Math, Northern State University, Aberdeen, SD

Conducted annual program assessments and seven-year program review for biology education

Integral for National Council for Accreditation of Teacher Education (NCATE), now Council for Accreditation of Educator Preparation (CAEP) site visit and accreditation for science BSEd programs

Revised curriculum for biology and biology education programs

Served on various campus and community committees (e.g., SD Academy of Science board)

Worked to establish new graduate program, Master in Science in Math for Teachers, note: Intent to Plan passed but department did not pursue

See duties as noted under Professor of Biology

2008 – 2013

Assistant Professor of Biology (tenure-track), Department of Science and Math, Northern State University, Aberdeen, SD

Took Praxis II test, received high (passing) score, for certification as educator

Advised and mentored pre-physical therapy, pre-veterinary, pre-dental, and pre-nursing students

Served on various campus committees (e.g., advisor to Science Club)

Conducted program reviews for Biology Education

Established new programs, e.g., Biotechnology and Accelerated Nursing

Organized SD Academy of Science meeting in 2009

See duties as noted under Professor of Biology

2007 – 2008

Instructor of Biology, Department of Science and Math, Northern State University, Aberdeen, SD

Taught pre-health courses (see Courses Taught), conducted research in genetics, and participated in service-related activities affiliated with the sciences

2006 – 2007

Graduate Research Fellow, Department of Biology, University of South Dakota, Vermillion, SD

Received Joseph F. and Martha P. Nelson Research Fellowship

Conducted research in conservation genetics (e.g., phylogeny and genetic structure) with focus on northern flying and red squirrel populations in the Black Hills

Used and created microsatellite loci

Oversaw undergraduate research assistants in the lab and the field

Used ArcMap for phylogeny research

2002 – 2006

Wildlife Biologist (Terrestrial Ecologist), SD Game, Fish, and Parks, Pierre, SD

Obtained monies for and conducted nongame species research/surveys throughout the state, from the west to the east
Connected with biologists, universities, and landowners throughout the state as well as nation

Fulfilled and wrote statewide conservation plans, monitoring schemes, etc. for species of conservation need

Used ArcView, ArcMap, and Natural Heritage Database (Biotics)

Aided graduate (SDSU, USD) and undergraduate (SDSU) research activities

2003

Adjunct Faculty for Human Anatomy, Capital University Center, Pierre, SD

2000 – 2002

Graduate Teaching (Academic Year) & Research (Summer) Assistant, Department of Biology, South Dakota State University, Brookings, SD

COURSES TAUGHT

Face-to-Face: Human Anatomy, Gross Anatomy, Physiology, Genetics, Developmental Biology, Biological Survey, Freshman Seminar, Environmental Biology, Introduction to Biotechniques

Online: Human Anatomy, Physiology, Mammalogy, Herpetology, Genetics

Abroad (Faculty-Led): Cultural Perspectives in Medicine and Ecology in Costa Rica

GRANTS - Total Grants Funded: >\$2.5M

- 2022 *NSF CC* Grant Subaward (Total: \$998,750; Subaward: \$552,450, ongoing)*. Campus Cyberinfrastructure, South Dakota Research and Education Data Interchange (SD-REDI). (NSU co-PIs: D. Bumpous and **A. Kiesow**)
- 2021 *3M STEM and Skilled Trades Award (\$10,000, completed)*. 3Mgives to Northern American Indian students. (co-PIs: L. Nelson, **A. Kiesow**, J. Mitchell, T. Trentham, and M. Jacobson)
- 2019 *3M STEM Equity Education Fund Award (\$22,000, completed)*. Crazy Excited for STEM in NE South Dakota. (co-PIs: E. Brownlee, **A. Kiesow**, A. Dolan, G. Francom, M. Jacobson, and J. Ramsay)
- 2018 *SDBOR Research and Development Innovation Grant Award (\$76,000, completed)*. Monies for two fluorescence microscopes. (PI: **A. M. Kiesow**)
- 2017 *Online Learning Consortium (OLC) Award (\$1,500 + course cost, completed)*. Monies received for OLC course and subsequent training. (PI: **A. M. Kiesow**)
- 2015 *NSF ADVANCE: PLAN IHE Grant Subaward (Total: \$750,000; Subaward: \$36,515, completed)*. **NSU Institutional PI**. South Dakota Working in STEM for Equity (SD WISE): A System, Institutional, and Individual Level Approach to Policy Change. (PI: SDSU Department of Sociology, co-written by all SDBOR schools)
- 2014 *NSF Research Infrastructure Improvement EPSCoR Grant SubAward (Subaward: \$755,535, completed)*. Center for Environmental Studies. (PI: SDSU BioSNTR, co-written with science faculty)
- 2014 *SDBOR Research and Development Innovation Grant Award (\$26,000, completed)*. Monies for qPCR. (co-PIs: **A. M. Kiesow**, J. Mitchell, and A. Russell)

- 2014 *Faculty Development Fund (\$700, completed)*. Presentation at American Society of Mammalogists Meeting – Monies for Travel.
- 2014 *Dean's Incentive Account/Award (\$700, completed)*. Proposal for Science Recruitment. (co-PIs: **A. M. Kiesow** and J. Mitchell)
- 2012 *NSU Research Grant Monies (\$3,000, completed)*. Summer Stipend for Research Proposal Development.
- 2012 *Area Health Education Center (AHEC) Grant (\$19,930, completed)*. Lab Improvement for Health Care Courses. (co-PIs: **A. M. Kiesow** and T. Piatz)
- 2011 *Area Health Education Center (AHEC) Grant (\$2,300, completed)*. Health care workshop for non-traditional students. (co-PIs: S. Landon-Arnold, G. Nora, and **A. M. Kiesow**)
- 2009 *South Dakota BOR Competitive Research Grant (\$76,908, completed)*. Characterization and isolation of microsatellite loci for three species, ring-necked pheasants, common yellowthroats, and false map turtles, for the purposes of conducting population genetic structure analyses.
- 2009 *Faculty Development Fund (\$600, completed)*. Presentation at The Wildlife Society Meeting – Monies for Travel.
- 2009 *NSU Margin of Excellence Grant (\$1,600, completed)*. Attendance to the Developmental Biology Teaching Workshop at Darling Marine Center.
- 2006 *Parks and Wildlife Foundation Grant (\$4,000, completed)*. Production of South Dakota frog and toad call compact disc (for herpetofauna book)
- 2004 *State Wildlife Grant (\$250,000, completed)*. Natural history and genetic structure of northern flying squirrels (*Glaucomys sabrinus*) and red squirrels (*Tamiasciurus hudsonicus*) in South Dakota. (co-PIs: **A. M. Kiesow**, H. B. Britten, and C. D. Dieter)
- 2003 *State Wildlife Grant (\$79,000, completed)*. Ecology of the Black Hills redbelly snake (*Storeria occipitomaculata pahasapae*) with emphasis on food habits. (co-Award: **A. M. Kiesow** and C. D. Dieter)
- 2003 *Pittman-Robertson Grant (\$173,000, completed)*. Distribution, range, abundance, and habitat of white-tailed jackrabbit (*Lepus townsendii*) and black-tailed jackrabbit (*Lepus californicus*) populations in South Dakota. (co-Award: **A. M. Kiesow** and C. D. Dieter)
- 2003 *Pittman-Robertson Grant (\$8,700, completed)*. Monitoring bats along the Missouri River.
- 2003 *Wildlife Conservation and Restoration Grant (\$25,000, completed)*. Publication of a book on herpetofauna in South Dakota.
- 2002 *Wildlife Conservation and Restoration Grant (\$88,000, completed)*. Pilot program to implement and coordinate volunteer, nongame species monitoring programs in South Dakota.
- 2000 *Pittman-Robertson Grant (\$20,000, completed)*. River otter reintroduction program: feasibility study. (co-PIs: **A. M. Kiesow** and C. D. Dieter)

PUBLICATIONS, MANUSCRIPTS/BOOKS

*Denotes undergraduate student co-authors.

1. Liebl, A., P. Rowland, **A. M. Kiesow**, M. Redlin, C. Anderson, and A. Surovek. 2021. Salaries in Higher Education Systems: A System-wide Perspective on Career Advancement and Gender (Sex) Equity. The ADVANCE Journal 2: 1-18. URL: <https://www.advancejournal.org/article/26007>
2. **Kiesow, A. M.**, and D. Davis. 2021. Amphibians and Reptiles in South Dakota, 2nd Edition. South Dakota Game, Fish and Parks, Pierre, South Dakota. 161pp. *Book*
3. Surovek, A. E., A. L. Liebl, **A. M. Kiesow**, M. Emery, P. F. Rowland, and C. Anderson, C. 2020. A Statewide Policy-driven Approach to Gender Equity. Paper for Association for American Society for Engineering Education Conference. DOI: 10.18260/1-2—34054, URL: <https://peer.asee.org/34054>
4. *Keryakos, J., *A. VanOosbree, and **A. M. Kiesow**. 2019. The association of TAS1R2 to dental and cardiovascular health. American Journal of Undergraduate Research 16: 47-54.
5. **Kiesow, A. M.**, and H. B. Britten. 2018. Comparison of northern flying and red squirrel phylogenies with focus on the insular United States. Prairie Naturalist 50: 59-69.
6. *Van Oosbree, A., and **A. M. Kiesow**. 2017. Phenotypic effects of probiotics on *Xenopus laevis* development. Journal of Student Research 6: 14-20.
7. **Kiesow, A. M.**, and *A. Premo. 2017. Characterization and isolation of microsatellite loci for false map turtles. American Midland Naturalist 177: 327-332.

8. **Kiesow, A. M.**, E. M. Monroe, and H. B. Britten. 2012. Genetic Structure of the arboreal squirrel species (*Glaucomys sabrinus* and *Tamiasciurus hudsonicus*) in the North American Black Hills. *Canadian Journal of Zoology* 90: 1191-1200.
9. **Kiesow, A. M.**, *T. Kasmarik, and *R. Binstock. 2011. Detection of domestic cattle gene introgression in a small population of North American bison. *Proceedings of South Dakota Academy of Science* 90: 79 – 85.
10. **Kiesow, A. M.**, L. E. Wallace, and H. B. Britten. 2011. Characterization and isolation of microsatellite loci for northern flying squirrels (*Glaucomys sabrinus*). *Western North American Naturalist* 71: 553–556.
11. **Kiesow, A. M.**, and J. A. Kiesow. 2010. Bat census in riparian areas along the Missouri River in central South Dakota, 2003 – 2005. *Prairie Naturalist* 42: 66 – 67.
12. *Viall, E., *C. R. Fellbaum, and **A. M. Kiesow**. 2009. Distinguishing between *G. volans* and *G. sabrinus* using microsatellite analyses. *Proceedings of South Dakota Academy of Science* 88: 119 – 126.
13. **Kiesow, A. M.** 2008. Genetic structure of northern flying squirrel (*Glaucomys sabrinus*) and red squirrel (*Tamiasciurus hudsonicus*) populations in the Black Hills. University of South Dakota, Vermillion, SD.
14. **Kiesow, A. M.**, M. J. Hough, and J. A. Kiesow. 2007. Distribution of northern flying squirrels (*Glaucomys sabrinus*) and red squirrels (*Tamiasciurus hudsonicus*) in South Dakota, excluding the Black Hills. *Proceedings of South Dakota Academy of Science* 86: 35-40.
15. **Kiesow, A. M.** 2007. Amphibians and Reptiles in South Dakota. South Dakota Game, Fish and Parks, Pierre, South Dakota. 178pp. *Book*
16. **Kiesow, A. M.**, and C. D. Dieter. 2005. Availability of habitat for river otters (*Lontra canadensis*) in South Dakota. *Great Plains Research* 15: 31-43.
17. Backlund, D., E. D. Stukel, **A. M. Kiesow**, J. Shearer, and R. Olson. 2005. 2004 Bird banding report for Farm Island and Fisherman Point, near Pierre, SD. *South Dakota Bird Notes* 57: 4 – 10.
18. **Kiesow, A. M.**, and C. D. Dieter. 2003. Status and distribution of river otters (*Lontra canadensis*) in South Dakota. *Proceedings of South Dakota Academy of Science* 82: 79 – 87.
19. **Kiesow, A. M.** 2003. Feasibility of reintroducing river otters (*Lontra canadensis*) in South Dakota. South Dakota State University, Brookings, SD.

ANNOTATED GENES, NCBI GenBank

False Map Turtles (*Graptemys pseudogeographica*) - Accession Numbers: KP795715.1 to KP795725.1 (11 genes)

Northern Flying Squirrel (*Glaucomys sabrinus*) - Accession Numbers: FJ755452.1 to FJ755456.1 (5 genes)

PUBLICATIONS, ABSTRACTS

*Denotes undergraduate student co-authors.

1. *Rud, O., and **A. M. Kiesow**. 2021. Quantification and DNA sequencing of staph species found on different materials used in medical emergency supplies. *Proceedings of South Dakota Academy of Science* 100: 145. *Abstract*
2. *Rogers, L., and **A. M. Kiesow**. 2021. Biofilm study of oral bacteria. *Proceedings of South Dakota Academy of Science* 100: 144. *Abstract*
3. *Engebretson, R., *H. Hillstrom, and **A.M. Kiesow**. 2020. Developmental effects of Bang© on zebrafish embryos. *Proceedings of SD Academy of Science* 99: 23. *Abstract*
4. *Podoll, J., *H. Cho, and **A.M. Kiesow**. 2020. Effects of isotretinoin on zebrafish embryos. *Proceedings of SD Academy of Science* 99: 22. *Abstract*
5. *Homayoupour, P., and **A.M. Kiesow**. 2018. Effects of anti-epileptic drugs on *Danio rerio* development. *Proceedings of SD Academy of Science* 97: 57. *Abstract*
6. *Ristau, M.J., and **A.M. Kiesow**. 2018. The effects of BPA on *Xenopus laevis*. *Proceedings of SD Academy of Science* 97: 27. *Abstract*
7. *Keryakos, J., and **A. M. Kiesow**. 2017. Genes and their linkage to tooth decay. *Proceedings of SD Academy of Science* 96: 228. *Abstract*
8. *Harr, B., *B. Jackson, and **A. M. Kiesow**. 2016. Effects of Delta-9-Tetrahydrocannabinol on developing *Xenopus laevis*. *Proceedings of Academy of Science* 95: 168. *Abstract*

9. *Martin, C., *C. Johns, *S. Meridha, *A. Wanous, and **A. M. Kiesow**. 2016. Effects of environmentally induced stress (cortisol) on *Danio rerio* development. Proceedings of Academy of Science 95: 162. *Abstract*
10. *Van Oosbree, A., and **A. M. Kiesow**. 2016. Effects of probiotics on *Xenopus laevis*. Proceedings of SD Academy of Science 95: 169. *Abstract*
11. *Rockey, A., *S. McClanahan, and **A. M. Kiesow**. 2015. Phylogeny of armadillos. Proceedings of Academy of Science 94: 367. *Abstract*
12. *Trauffer, A. and **A. M. Kiesow**. 2015. Expression of ADH gene in populations with a high frequency of alcohol dependency. Proceedings of South Dakota Academy of Science 94: 369. *Abstract*
13. *Gylfe, A., and **A. M. Kiesow**. 2013. Isolation and characterization of bison (*Bison bison*) DNA from an 800 year bison bone. Proceedings of South Dakota Academy of Science 92:167. *Abstract*
14. *Forred, B. J., and **A. M. Kiesow**. 2009. Measurement of lung capacity, heart rate, and recovery times of smokers versus non-smokers. Proceedings of South Dakota Academy of Science 88: 200. *Abstract*
15. **Kiesow, A. M.**, and C. D. Dieter. 2002. Determining the feasibility of restoring river otters in South Dakota. Proceedings of South Dakota Academy of Science 81: 279. *Abstract*

PRESENTATIONS, ORAL AND POSTER

**Denotes undergraduate student co-authors.*

1. *STEM For ALL: 2021 Video Showcase on COVID, Equity and Social Justice*. 2021. Equity for STEM faculty through policy change. A. Surovek, M. Redlin, J. Eduful, C. Anderson, A. Liebl, P. Rowland, and **A. M. Kiesow**. (3-min video showcasing SD WISE research, <https://stemforall2021.videohall.com/presentations/2254>)
2. *106th Annual South Dakota Academy of Science, Spearfish, SD*. 2021. **1)** Quantification and DNA sequencing of staph species found on different materials used in medical emergency supplies. *O. Rud and **A. M. Kiesow**. **2)** Biofilm study of oral bacteria. *L. Rogers and **A. M. Kiesow**. *Note: two presentations.* (Virtual Conference)
3. *Human Anatomy and Physiology Society, Ottawa, Canada*. 2020. **1)** Student opinion surveys: A glance at in-person versus online administration in Human Anatomy courses. **A. M. Kiesow** and A. Dolan, and **2)** Academic (dis)honesty in online Anatomy courses: A comparison of student outcomes before and after instituting the use of online proctoring software. A. Dolan and **A. M. Kiesow**. *Note: two presentations.* (Abstracts in Conference Proceedings, Infographic Presentation in Virtual Conference in June 2020)
4. *Equity in STEM Community Convening Conference, Cleveland, OH*. 2019. Salaries in Higher Education Systems: A System-wide Perspective on Career Advancement and Gender (Sex) Equity. **A. M. Kiesow**, M. Redlin, J. Eduful, C. Anderson, P. Mabee, P. Rowland, and A. Surovek. (+Abstract in Conference Proceedings)
5. *Great Plains Sociological Association Annual Conference, Aberdeen, SD*. 2018. South Dakota working in STEM for equity (SD-WISE): A system, institutional, and individual level approach to policy change. **A. M. Kiesow**, J. Long, M. Redlin, J. Eduful, C. Anderson, R. Miskimins, P. Mabee, A. Podhradsky, P. Rowland, and A. Surovek. (+Abstract in Conference Proceedings)
6. *PULSE 2018 Midwest and Great Plains Regional Network Conference, Chicago, IL*. 2018. Cultivating science in the classroom, an opportunity for change. **A. M. Kiesow**, J. Mitchell, and M. Fritz.
7. *7th Annual NSU Undergraduate Research Forum, Aberdeen, SD*. 2018. **1)** Effects of AEDs on *Danio rerio* development. *P. Homyoungpour and **A. M. Kiesow**, and **2)** Effects of BPA on *Xenopus laevis* development. *M Ristau and **A. M. Kiesow**. *Note: two presentations.*
8. *Association for Women in Science: ADVANCE/GSE Program Workshop, Washington, DC*. 2017. **1)** Salaries in higher education systems: A system-wide perspective on career advancement and gender (sex) equity. **A. M. Kiesow**, A. Podhradsky, A. Ahmed, M. Redlin, E. Tolman, C. Anderson, R. Miskimins, S. Huang, and A. Surovek, **2)** Symposium: Six Universities, six sets of data, one process of system change: SD-WISE work in the South Dakota Board of Regents System. E. Tolman, M. Redlin, C. Anderson, R. Miskimins, **A. Kiesow**, A. Surovek, A. Podhradsky, and S. Huang, and **3)** A good departmental citizen: A qualitative analysis of Faculty Annual Reviews about professional and general service. E Tolman, M. Redlin, C. Anderson, R. Miskimins, **A. Kiesow**, A. Surovek, A. Podhradsky, and S. Huang. *Note: three presentations.* (+Abstracts in Conference Proceedings)
9. *Annual Conference for Society for the Psychological Study of Social Issues, Albuquerque, NM*. 2017. Gender ratio among students and faculty in varying types of institutions. *S. Torrence and **A. M. Kiesow**. (+Abstract in Conference Proceedings)

10. *102nd Annual South Dakota Academy of Science, Mitchell, SD & 6th Annual NSU Undergraduate Research Forum, Aberdeen, SD.* 2017. Genes and their linkage to tooth decay. *J. Keryakos and **A. M. Kiesow**.
11. *Invited Speaker, NSU Faculty Development Week, Aberdeen, SD.* 2016. Undergraduate Research at NSU. **A. M. Kiesow**, G. Blair, K. Brownfield, A. Anderson, and J. Howard.
12. *101st South Dakota Academy of Science, Sioux Falls, SD & 5th Annual NSU Undergraduate Research Forum, Aberdeen, SD.* 2016. **1)** Effects of environmentally induced stress (cortisol) on *Danio rerio* development. *C. Martin, *C. Johns, *S. Meridha, *A. Wanous, and **A. M. Kiesow**. **2)** Effects of probiotics on *Xenopus laevis*. *A. Van Oosbree and **A. M. Kiesow**, and **3)** Effects of Delta-9-Tetrahydrocannabinol on developing *Xenopus laevis*. *B. Harr, *B. Jackson, and **A. M. Kiesow**. *Note: three presentations.*
13. *5th Annual NSU Undergraduate Research Forum, Aberdeen, SD.* 2016. Comparison in mitosis in regrown *Ophiocoma paucigranulata* tissue exposed to B₁₂ and creatine injections. *C. Martin, *A. Moeller, and **A. M. Kiesow**.
14. *100th South Dakota Academy of Science, Oacoma, SD & 4th Annual NSU Undergraduate Research Forum, Aberdeen, SD.* 2015. **1)** Phylogeny of Armadillos. *A. Rockey, *S. McClahanan, and **A. M. Kiesow**. **2)** Expression of ADH gene in populations with a high frequency of alcohol dependency. *A. Traufler and **A. M. Kiesow**. *Note: two presentations*
15. *94th American Society of Mammalogists, Oklahoma City, OK.* 2014. Phylogeography of *Glaucomys sabrinus* and *Tamiasciurus hudsonicus* populations: a new perspective in the insular United States. **A. M. Kiesow** and H. B. Britten. (+Abstract in Conference Proceedings)
16. *3rd Annual NSU Undergraduate Research Forum, Aberdeen, SD.* 2014. **1)** Fetal Alcohol Syndrome in Zebrafish. *M. Perryman, *M. Abrahamson, and **A. M. Kiesow**. **2)** Effects of *Penicillium* versus *Streptomyces* on the Development of *Xenopus laevis*. *K. Kjerstad, *A. Rockey, and **A. M. Kiesow**. **3)** Nicotine Effect on Embryological Development in Zebrafish. *Tymesen, D., *S. Nygaard, and **A. M. Kiesow**. **4)** Resilience of *Xenopus laevis* Tadpoles. *K. Hofschild *Z. Grauman, and **A. M. Kiesow**. **5)** Effects of Copper on *Xenopus laevis*. *W. Geditz, *M. Klueber, and **A. M. Kiesow**. *Note: five presentations*
17. *98th South Dakota Academy of Science Conference, Sioux Falls, SD & 3rd Annual "It's All About Science Festival," Sioux Falls, SD.* 2013. Isolation and characterization of bison (*Bison bison*) DNA from 800-year old bison bone. *A. Gylfe and **A. M. Kiesow**
18. *1st Annual NSU Undergraduate Research Forum, Aberdeen, SD.* 2012. **1)** Fetal alcohol syndrome in chicks. *B. Hiten, *C. Hendrickson, and **A. M. Kiesow**. **2)** Effects of gonadotropin on tadpole development. *C. Kopfmann, *S. Hintz, and **A. M. Kiesow**. **3)** Lead nitrate and the development of *Xenopus laevis*. *C. Peterson, *E. Brown, and **A. M. Kiesow**. **4)** The Effect of Heat shock on developing *Xenopus laevis* embryos. *A. Olson, *C. Bickel, and **A. M. Kiesow**. **5)** Effects of varying temperatures on fruit fly growth and development. *A. Wolken, *C. McCormick, and **A. M. Kiesow**. **6)** Effects of petroleum derivatives on *Xenopus laevis* tadpoles. *G. Firmin, *E. Peterson, and **A. M. Kiesow**. *Note: six presentations*
19. *96th South Dakota Academy of Science Conference, Oacoma, SD.* 2011. **1)** Detection of domestic cattle gene introgression in a small population of North American bison. **A. M. Kiesow**, *T. Kasmarik, and *R. Binstock. **2)** Evaluation of important respiratory and cardiovascular attributes before and after exercise in non-smokers and smokers, Ages 18 – 25. *J. Lee, *S. H. Young, *B. Forred, *K. Ystebøe, *A. Premo, and **A. M. Kiesow**. *Note: two presentations*
20. *Invited Speaker, NSU Faculty Development Week, Aberdeen, SD. FA and SP 2010.* Research and Publishing at NSU. **A. M. Kiesow**
21. *Invited Speaker, Women in Science Annual Conference, Aberdeen, SD.* 2010. Fields in the Biological Sciences for Women. **A. M. Kiesow**.
22. *The Wildlife Society 16th Annual Conference, Monterey Bay, CA.* 2009. Comparison of the genetic structures of two squirrel species, *Glaucomys sabrinus* and *Tamiasciurus hudsonicus*, isolated in the Black Hills. **A. M. Kiesow**, L. E. Wallace, and H. B. Britten. (+Abstract in Conference Proceedings)
23. *Society for the Study of Evolution, Moscow, ID.* 2009. Comparison of the genetic structures of two squirrel species, *Glaucomys sabrinus* and *Tamiasciurus hudsonicus*, isolated in the Black Hills. **A. M. Kiesow**, L. E. Wallace, and H. B. Britten. (+Abstract in Conference Proceedings)
24. *94th South Dakota Academy of Science Conference, Aberdeen, SD.* 2009. **1)** Distinguishing between *G. volans* and *G. sabrinus* using microsatellite analyses. *E. W. Viall, *C. R. Fellbaum, and **A. M. Kiesow**. **2)**

- Measurement of lung capacity, heart rate, and recovery times of smokers versus non-smokers. *B. J. Forred, and **A. M. Kiesow**. *Note: two presentations*
25. 92nd South Dakota Academy of Science Conference, Brookings, SD. 2007. Status and distribution of northern flying squirrels (*Glaucomys sabrinus*) and red squirrels (*Tamiasciurus hudsonicus*) in South Dakota, excluding the Black Hills. **A. M. Kiesow**, M. J. Hough, and J. A. Kiesow.
 26. University of South Dakota Forum for Graduate Research and Creative Work, Vermillion, SD. 2007. Genetic structure of *Glaucomys sabrinus* and *Tamiasciurus hudsonicus* in the Black Hills and their ecological relationships. **A. M. Kiesow** and H. B. Britten.
 27. Invited Speaker, The Wildlife Society (South Dakota Chapter) Annual Conference, Oacoma, SD. 2006. Recent bat research in South Dakota. **A. M. Kiesow**.
 28. Invited Speaker, The Wildlife Society (South Dakota Chapter) Annual Conference, Oacoma, SD. 2005. Wind power development in South Dakota and wildlife impacts (e.g., birds and bats) in the Dakotas. **A. M. Kiesow** and J. Shaffer.
 29. Invited Speaker, Missouri Breaks Audubon Society Meeting, Pierre, SD. 2004. Ecology and conservation of northern flying squirrels in South Dakota. **A. M. Kiesow**.
 30. Invited Speaker, South Dakota Trappers Association Annual Conference, Huron, SD. 2003. Ecology and conservation of river otters in South Dakota. **A. M. Kiesow**.
 31. Invited Speaker, Missouri Breaks Audubon Society Meeting, Pierre, SD. 2003. Ecology and conservation of river otters in South Dakota. **A. M. Kiesow**.
 32. 88th South Dakota Academy of Science Annual Conference, Rapid City, SD. 2003. Status and distribution of river otters in South Dakota. **A. M. Kiesow** and C. D. Dieter.
 33. 87th South Dakota Academy of Science Annual Conference, Sioux Falls, SD. 2002. Determining feasibility of restoring river otters in South Dakota. **A. M. Kiesow** and C. D. Dieter.
 34. The Wildlife Society (South Dakota Chapter) Annual Conference, Oacoma, SD. 2002. River otter feasibility study in South Dakota. **A. M. Kiesow** and C. D. Dieter.
 35. 61st Midwest Fish and Wildlife Conference, Minneapolis, MN. 2001. Feasibility of reintroducing river otters in South Dakota. **A. M. Kiesow** and C. D. Dieter. (+Abstract in Conference Proceedings)
 36. Invited Speaker. Animal Damage Control Program (South Dakota Game, Fish and Parks) Annual Meeting, Chamberlain, SD. 2001. Status and distribution of river otters in South Dakota. **A. M. Kiesow** and C. D. Dieter.

SELECT MENTORED STUDENT RESEARCH

- 2021 O. Rud. Evaluation of chemical substances used in the mask portion of medical bag-valves that have the best anti-microbial properties.
- 2021 L. Rogers. Biofilm study of oral bacterial treatment.
- 2020 J. Podall. Effects of isotretinoin on zebrafish embryos.
- 2020 R. Engebretson. Effects of Bang© on zebrafish embryos.
- 2018 M. Ristau. Effects of Bisphenol-A (BPA) on embryonic development of *Xenopus* and quantitative determination of BPA in local waterways.
- 2018 P. Homayounpour. Effects of Anti-Epileptic Drugs (AEDs) on embryonic development of *Xenopus* and consequences of using of AEDs in concert with alcohol during development.
- 2017 S. Torrence. Examination of male:female ratios of faculty and students in STEM fields among research and teaching institutions.
- 2017 J. Keryakos. Genes and their link to tooth decay.
- 2016 A. Van Oosbree. Effects of probiotics on *Xenopus* and *Strongylocentrotus* embryos.
- 2016 R. Rogers. An examination of the relationship of risky behaviors and utilization of university health service.
- 2015 M. Richardson. Formation of health education pamphlet in English with translation in Spanish.
- 2015 A. Trauffer. Expression of ADH gene in populations with a high frequency of alcohol dependency.
- 2014 C. Carmichael. Importance of pre-participation sports screening in athletes to prevent undetected cardiac diseases/disorders.
- 2013 A. Gylfe. Isolation and characterization of bison (*Bison bison*) DNA from an 800-yearbone.

- 2013 B. Hiten. Effects varying alcohol percentages on the developing embryos of zebrafish (*Danio rerio*) and African Clawed Frog (*Xenopus laevis*).
- 2012 A. Warcken. Characterization and isolation of microsatellite loci for False Map Turtles (*Graptemys pseudogeographica*).
- 2012 A. Jares. Quantitative determination of cortisol in human saliva.
- 2010 K. Ysteboe. The acute effects of smoking before and after exercise.

SELECT SERVICE ACTIVITIES

- Promotion and Tenure Committee (as Dean)** – representation of College of Arts and Sciences. (2020 – present)
- NSF ADVANCE COPLAC Affinity Group Leader** – selected to provide guidance on leadership to COPLAC women in science. (2021 – 2023)
- SD Academy of Science Board Member** – appointed by SD Academy of Science President-Elect to represent NSU on the member board. (2015 - 2023)
- Institutional Research Board (IRB)** – appointed by Provost to make sure research follows federal protocol. CITI Certified since 2010.m (2010 - 2022)
- Teacher Education Council** – active participant, selected for position due to biology education mentoring and program review. (2010 – 2019)
- Graduate Council** – selected by CAS Dean and Associate Vice President for Academic Affairs and Director of Graduate Studies to serve on the council. (2016 - 2019)
- Promotion and Tenure Committee (alternate faculty representative)** – elected by colleagues to represent the CAS on committee that evaluates fellow faculty. (2015 - 2018)
- Sanford PROMISE Board Member** – appointed by Sanford Health Education Council to represent faculty at SD Regental schools. (2013 - 2017)
- Common Read Committee** – active participant in selection of author and book for campus-wide common read activities. (2012 - 2016)
- Student Affairs Judiciary Committee** – selected by Student Affairs office to serve on committee and represent faculty. (2013 - 2015)
- Interim Student Senate Faculty Advisor** – selected by students to assist with re-election of new faculty advisor for Student Senate at NSU. (2013 - 2014)
- Science Club Faculty Advisor** – selected by department and students to guide and mentor students with Science Club activities. (2009 - 2011)

SELECT STEM OUTREACH ACTIVITIES

- AHEC Health Care career workshop, Aberdeen, SD** **2011**
 Provided workshop to non-traditional students pursuing health care careers
 Enlisted volunteers from various health care careers to present information on fields, schooling needed, etc.
- Ecology outreach to 1st and 2nd grade, Pierre, SD** **2006 – 2007**
 Science programs provided to Jefferson Elementary School
 Topics focused on ecology, conservation, and diseases associated with bats in South Dakota
- Bat outreach to public at SD Game, Fish and Parks: Custer and Lake Poinsett, SD** **2003 & 2007**
 SD Bat Festival – Custer State Park: Festivities related to bat ecology and conservation for the general public
 State Park in Eastern SD – Lake Poinsett and Oakwood Lakes State Parks: Ecology and conservation of bats
- University of South Dakota, TRIO Program: Bird Workshop, Vermillion, SD** **2005**
 Bird census and database development workshop
 Upward Bound, Talent Service, and Student Support (TRIO) students used bird data to create a database
- SD Bat Working Group: Acoustic Monitoring Workshop, Rapid City, SD** **2005**
 Provided workshop regarding use of AnaBat bat detectors and Sonobat acoustic recording devices
 Conducted field work demonstrating use, and analyzed bat calls using Sonobat

SD Wildlife Federation: Native Prairie Workshop, Fort Pierre, SD

2002

Provided instruction for identification of grassland birds and mammals as well as native plants
Demonstrated use of sampling techniques for grassland birds and mammals and Great Plains identification keys

PROFESSIONAL MEMBERSHIPS

National Council for University Research Administrators (current member)

Association of Women in Science (current member)

Council for Colleges of Arts and Sciences (current member)

South Dakota Academy of Science (current member)

Human Anatomy and Physiology Society (2017-2022)

Society for Developmental Biology (2008-2020)

Council for Undergraduate Research (2010-2019)

American Society of Mammalogists (2003-2015)

Phi Kappa Phi Honor Society

Gamma Sigma Delta Honor Society