SMALL FACULTY RESEARCH GRANTS

Small Grant Awards for 2019-2020 - $22,680

- **Heidi Super**: "Teaching Old Cancer Drugs New Tricks: Using Epigenetic Modifying Compounds to Sensitize Leukemia Cells to Respond to a Derivative of Vitamin A" funded for $3000
- **John McCollum**: "Extraction, Class, and Consciousness: An Examination of Unionization in North Dakota's Bakken Oil Shale Region" funded for $1488
- **Jynette Larshus**: "Tensions of Transformation in Snowboarding Culture: From Lifestyle Sporting Activity to Legitimate Occupation" funded for $3000
- **Wenjing Zheng and Holly Pedersen**: "The Effects of Swivl Robotic Technology and Guided Video Analysis on Teacher Candidates' Reflective Ability and Instructional Skills" funded for $977
- **Bishnu Sedai**: "Spectral Shift Function and Trace Formula" funded for $1960
- **Ryan Stander**: "Photographic Printmaking Exploration" funded for $3000
- **Rebecca Daigneault**: "Positive Partnering Program: An Effort to Reduce High School Truancy and Dropout Rates for Turtle Mountain Community High School" funded for $1000
- **Mary Huston and Sarah Boyle**: "Enhancing Student Learning through 3D Printed Anatomical Models" funded for $2255.
- **Naomi Winburn**: "X Ray Diffraction of Materials" funded for $3000

Small Grant Awards for 2018-2019 - $17,907

- **Alexey Shipunov** - $2,497 for Vascular Flora of Western North Dakota
- **Mark Singer** - $2,973 for Medieval Manuscript Research in London, Oxford, and Cambridge, UK
- **Joseph Jastrzemski** - $2,197 for Bears Arm. Benson, Mandan. and Beckwith: Collaboration and the Collection of Mandan and Hidatsa Texts
- **Kathy Hintz & Erik Kana** - $1,370 for University & P-12 Education Partnerships: A Pilot Project to Develop a Model Program for Early and Mid-Program Clinicals in Teacher Education
- **Holly Pedersen & Lisa Borden-King** - $1,370 for University & P-12 Education Partnerships: A Pilot Project to Develop a Model Program for Early and Mid-Program Clinicals in Teacher Education
- **Christopher Heth** - $3,000 for Thiophene-based Ionic Liquids as Precursors for the Production of Conjugated Polymer Films
- **Wenjing Zheng & Holly Pedersen** - $2,500 Online Training with Paraprofessionals to Support Students with Disabilities: A Characteristics Approach
- **Ryan Stander** - $2,000 Post Digital Printmaking Exploration

Small Grant Awards for 2017-2018 - $17,500

- **Ryan Stander** – $2,500 – John Kaericher Printing and Archive
- **Alexey Shipunov** – $2,434 – Vascular plants flora of southwestern North Dakota
- **Daniel Ngugi** – $1,000 – Adoption of mobile banking among small businesses in medium sized businesses in Kenya
- **Nathan Hopkins** – $2,500 – Reconstructing the mid-Weichselian Fennoscandian Ice Sheet: Assessing magnetic fabric as an ice-flow indicator in coarse-grained till
- **Elaheh Gorgin** – $2,500 – Interdisciplinary research experience in mathematics for undergraduates
- **Joe Engler and Anna Silva** – $2,200 – The role of minority parental involvement in students' access to college preparatory programs: An investigation in the TRiO Upward
Bound Program

- Mikhail Bobylev – $2,996 – Investigation of the sensitivity of Acremonium alabamense to common antifungal drugs
- Ann Beste-Guldborg and Mary Huston – $1,370 – What matters most? An examination of variables related to SLP PRAXIS scores

Small Grant Awards for 2016-2017 - $20,993

- Micah Bloom - $2,430.00 – Codex: Natural disaster and the printed word
- Hasan Buker - $2,999.00 – An Assessment of the Functions and Needs of Child Advocacy Centers in North Dakota
- Daniel Clayton - $2,993.00 – Size and Shape Control of Silver Nanoparticles.
- Daniel Ngugi - $1,415.00 – Acceptance and Use of Internet Banking among Small and Medium Enterprises in Kenya
- Elaheh Gorgin - $1,920.00 – Inverse Problems and Regularization
- Joseph Zajdel - $1,540.00 – Students’ Epistemologies of Science in Teacher Education and Other University Majors.
- Holly Pedersen & JoLynn Webster - $725.00 – The Impact of Disability Awareness Training on the Knowledge and Self-Efficacy of Church Ministry Personnel
- Ernst Pijning - $1,500.00 – A Dutch merchant courted in Portugal. Daniel Gildemeester and the Portuguese diamond contract during the eighteenth century
- Alexey Shipunov - $2,680.00 – The Aquatic Vascular Flora of the Richland County, North Dakota
- Ryan Stander - $2,000.00 – David Driesbach/John Kaericher Exhibits

Small Grant Awards for 2015-2016 - $14,800

- Alexey Shipunov - $1,600.00 – The Vascular Flora of the Sioux and Grant counties, ND
- Daniel Clayton - $1,600.00 – Sized Controlled Synthesis of Silver Nanostructures for Utilization in Enhanced Photodecomposition Processes.
- Daniel Ngugi - $1,600.00 – Adoption of Mobile Banking among Small Businesses in Medium Income Countries: The Case of Kenya
• **Jacob Sowers** - $1,600.00 – *Where and What is North Dakota? Exploring perception of ND’s regional identity, landscape iconography, and sense of place*

• **Joseph Collette** - $1,600.00 – *Can Geomorphology Select for Major Evolutionary Transitions?*

• **Katie Kilroy** - $2,000.00 – *Geologic Structure Mapping on the Missouri Coteau near Minot, ND using VLF Geophysics*

• **Lisa Roteliuk** - $1,600.00 – *Normative Values for the Voice Handicap Index and Voice Handicap Index-10*

• **Matthew Eddy** - $1,600.00 – *Documentary Film Animation Segments*

• **Ryan Stander** - $1,600.00 – *Continuation of ND “Man Camp” Survey*

**Small Grant Awards for 2014-2015 - $16,750**

• **Bethany Andreasen** - $2,300.00 – *Training Teachers on the Plains: Educational Leadership, Centralized Control, and the Development of Normal Schools in North Dakota and Saskatchewan, 1890-1930*

• **Matthew Eddy** - $1,000.00 – *Documentary Film Animation Segments*

• **Jean-Francois Mondon** - $2,300.00 – *Salvaging a Dying Language: Documenting Breton*

• **Holly Pedersen & Ann Beste-Guldborg** - $2,300.00 – *A study of language related content in elementary and special education teacher preparation programs*

• **Holly Pederson & Jolynn Webster** - $2,300.00 – *University Faculty, Staff, and Student Perceptions of Disability in Society*

• **Alexey Shipunov** - $2,300.00 – *A survey of the vascular flora of the Pembina Gorge in Cavalier County, North Dakota*

• **Narayan Thapa** - $4,250.00 – *Interdisciplinary Research Experience in Mathematics for Undergraduates*

**Small Grant Awards for 2013-2014 - $23,115**

• **Alexey Shipunov** - $475.00 – *Flora of North Dakota*

• **Ann Beste-Guldborg** - $2,000 – *Knowledge, Perceptions, and Beliefs of Pacific Coast and Southwestern Indians toward Stuttering*

• **Deb Olson** - $1,875.00 – *The Effect of varying the Timing & Order of Odor Presentation on Subject Craving*

• **Jacob Sowers** - $4,000.00 – *No Home On The Range: Exploring Loss of Place Attachment Among Rural Residents in Western North Dakota’s Bakken Oil Field Landscape*

• **Micah Bloom** - $1,900.00 – *Codex: a post-flood struggle between nature, humanity and the printed word*

• **Mikhail Bobylev** - $2,610.00 – *Addressing the Hazards of Post-Flood Mold to Public Health.*

• **Narayan Thapa** - $4,000 – *Interdisciplinary Research Experience in Mathematics for Undergraduates*

• **Ryan Stander** - $5,000.00 – *A Photographic Survey of North Dakota “Man Camps”*
• **Mehmet Ali Koseoglu & Gary Ross** - $1255 - Strategic Doffisopm. Knowledge-Sharing Barriers, and Strategy-Implementation Barriers in Hotels in Minot, North Dakota

**Small Grant Awards for 2012-2013 - $13,570**

• **Dr. Ann Beste-Guldborg**, Department of Communication Disorders, $1500, *Knowledge, Perception, and Beliefs of Northern Plains Indians toward Stuttering.*

• **Dr. Mikhail Bobylev**, Division of Science, $3000, *Addressing the Hazards of Post-Flood Mold to Public Health.*

• **Dr. Heather Golly**, Department of Teacher Education and Human Performance, $3000, *The Usefulness of the Wii Balance Board in Determining the Resolution of Postural Stability Deficits Following a Concussion.*

• **Dr. Vicki Michels, Dr. Don Burke, and Dr. Paul Markel**, Department of Addiction Studies, Social Work, and Psychology, and **Dr. Terry Eckmann and Dr. David Rochholz**, Department of Teacher Education and Human Performance, $2400, *Effects of Zumba Gold Exercise and Yoga on Psychological and Physical Performance in Older Adults.*

• **Ms. Lisa Roteliuk**, Department of Communication Disorders, $1000, *Study of Voice Disorders in North Dakota Teachers.*

• **Dr. Narayan Thapa**, Department of Mathematics and Computer Science, $2670, *Interdisciplinary Research Experience in Mathematics for Undergraduates.*

**Small Grant Awards for 2011-2012 - $20,685**

• **Dr. Kodwo Annan**, Department of Math and Computer Science, $1500, *Determinants of Binge-Drinking Behavior using TPB and External Factors such as Older Siblings and Parents.*

• **Dr. Ann Beste-Guldborg**, Department of Communication Disorders, $1336, *Attitudes towards Cluttering & Stuttering: Perceptions of Undergraduate Communications Students.*

• **Micah Bloom**, Division of Humanities, Art Department, $1500, *Ex Libris--Recovery and Interment of the Lost Book.*

• **Dr. Deb Jensen**, Director, CASCLS, and **Dr. Lisa Borden-King**, Department of Teacher Education and Human Performance, $4969, *Exploring Eye Tracing Differences in Struggling Readers Who Exhibit Difficulties with Visual Closure and Bilateral Coordination, and Controls Without Those Characteristics.*

• **Dr. Jynette Larshus**, Department of Sociology, $1200, *Tensions of Transformation in Snowboarding Culture: From Lifestyle Sporting Activity to Legitimate Occupation.*

• **Audra Myerchin**, Department of Broadcasting, $400, *Minot State University Students and Crisis Response.*


• **Dr. Bryan Schmidt**, Division of Science, $4080, *Mode of action studies of novel and classic fungicides*
- **Dr. Alexey Shipunov**, Division of Biology, $1200, *Historical Flood Damage to the Trees of Minot.*
- **Dr. ShaunAnne Tangney**, Division of Humanities, $1500, *Researching the Archives at Tor House.*

**Small Grant Awards for 2010-2011 - $28,826**
- **Dr. Rebecca Anhorn**, Department of Teacher Education and Human Performance, and **Dr. Cheryl Nilsen**, Department of Mathematics and Computer Science, $5000, *The Experiences of Co-Teachers in Mathematics.*
- **Dr. Kodwo Annan**, Department of Mathematics and Computer Science, $3720, *Undergraduate Mathematics Modeling Training Program for Interdisciplinary Research in Biological, Medical, and Physical Sciences.*
- **Dr. Becky Brodell**, Department of Nursing, $345, *An Assessment of the Group Caring Environment in Nursing.*
- **Dr. Shirley Cole-Harding, Dr. Rita Curl-Langager, Dr. Paul Markel, and Dr. Deb Olson**, Department of Addiction Studies/Psychology/Social Work, $2176, *Neuroscience Research Using EEG: Pilot Studies.*
- **Dr. Deanna Klein**, Department of Business Information Technology, $1000, *Understanding Strategies Used to Prepare University Students for Multi-Cultural Business and Technology Environments.*
- **Dr. Jynette Larshus**, Division of Social Science, $3385, *Tensions of Transformation in Snowboarding Culture: From Lifestyle Sporting Activity to Legitimate Occupation.*
- **Dr. Patricia Lomire**, Division of Social Science, $2000, *The Glass Ceiling in Criminology Textbooks: Myth or Reality?*
- **Dr. Jaimie M. McMullen**, Department of Teacher Education and Human Performance, $1000, *Promoting Student Ownership in a Non-Traditional Physical Education Teacher Education Internship Course.*
- **Dr. Daniel Ngugi**, Division of Social Science, $3200, *Placing Dollar Values on Roosevelt Recreational Park.*
- **Linda Olson**, MFA, Division of Humanities, $1000, *Rock Art Documentation in the Coal Draw and Meeteetse Ridge Areas.*
- **Dr. Bryan Schmidt**, Division of Science, $3500, *Analysis of a Potential Allosteric DisulfideBond in the Protein Cytochrome c Oxidase.*
- **Dr. Chelsea Starr**, Division of Social Science, $2500, *Transnational Activism Against Femicide in Ciudad Juarez, Mexico.*

**Small Grant Awards for 2009-2010**
- **Dr. Bethany Andreasen**, Department of History, Social Science Division, "*Normal Schools and the Northern Great Plains in the Twentieth Century: An International Perspective.*"
- **Dr. Lisa Borden-King**, Department of Teacher Education and Human Performance, and **Dr. Shirley Cole-Harding**, Department of Addiction Studies/Psychology/Social Work, $3945, *Effects of Contrasting Colors for Text/Background on Reading Fluency and Accuracy in College Students with and without Reading Disabilities.*
- **Dr. Alexandra Deufel**, Department of Biology, "*Exploration of feeding mechanics in a*
Diverse assemblage of opisthoglyph snakes.

- Dr. Cheryl Gerard and Ms. Cassandra Meyer, Department of Communication Disorders, $2000, Effects of 50-vs 100-Utterance Language Sample on MLU Scores of Children with ASD.
- Bill Harbort, Department of Art, Humanities Division, The Great Great Plains Goes Pop!
- Stephen Hayton, Department of Mathematics and Computer Science; Cathy Horvath, ITC; and Roger Kluck, Plant Services, A study of power consumptions, heat creation, dissipation, cooling and aero-dynamic airflow of various computer workstations used at MSU using typical system, application, and benchmark systems.
- Stephen Hayton, Department of Mathematics and Computer Science; Scott Kast, Department of Mathematics and Computer Science; Dr. Paul Lepp, Department of Biology; Dr. Selmer Moen, Department of Mathematics and Computer Science; Dr. Bryan Schmidt, Division of Science; Darrin Seifert, NDCPD, Developing several proofs of concept and prototype software programming algorithms which will allow Minot State University to conduct simplified targeted searches of standard open source DNA data sets.
- Dr. Lesley Magnus and Ms. Meagan Guest, Department of Communication Disorders, $1602, The Hodson Cycles Approach to Phonological Remediation.
- Dr. John Morrow, Division of Humanities, $2000, Shi’ite Traditions from Islamic Spain.
- Ms. Lisa Roteliuk, Dr. Cheryl Gerard, and Ms. Beth McAleer, Department of Communication Disorders, $1710, Effects of Facial Feature Checklist on the Recognition of Emotion in Children with ASD.
- Dr. Bryan Schmidt, Division of Science, Stereosgraphic Analysis of Potential Allosteric Disulfide Bond Rotamers in Proteins.
- Dr. James Ondracek, Department of Business Administration, Group Composition Based on the MBTI and the Resulting Influence on Group Decision Making.
- Deborah Townsend, Department of Nursing, Quality of Life as Perceived by Rural Dwellers with a Serious Mental Illness.
- Dr. Maila Zitelli, German Program, Humanities Division, Archival Research to Seek Corroboration on Findings of Parody in Censured Cold War authors Manfred Bieler, Anna Seghers, and Ludvik Askenazy.

Small Grant Awards for 2008-2009 -

- Dr. Lisa Borden-King, Teacher Education and Human Performance,$4752, Addressing visual-spatial disturbance in word solving difficulties involving left-right print processing impairment using virtual processing rehabilitation paired with strategic reading instruction.
- Elizabeth Brodell, Nursing, $131, Technology and Caring in Nursing Education and Practice.
- Andy Bertsch, Business Administration, Exploring Perceptions of Values in U.S. Managers: Interstate Cross-Cultural Differences and Similarities within the U. S.A.
- Linda Haider and Judith Swanson, Nursing, $262, Comparison of Student Satisfaction and Master of Knowledge between On-line and On-ground Students in HMS 243,
Pathophysiology.

- **Steve Hayton** (Math and Computer Science), **Dr. Paul Lepp** (Biology), **Dr. Selmer Moen**, (Math and Computer Science), and **Dr. Bryan Schmidt** (Science), *Development of Two Low Cost Experimental Distributive Computer Prototypes to Support STEM Research and Teaching (such as Biochemistry, Bioinformatics, Computer Science, Mathematics, and Statistical Studies)* at Minot State University.

- **Kathy Hintz**, Teacher Education and Human Performance, *History Alive! In the Classroom*.


- **Dr. Stewart Kelly**, Philosophy, $1313, *Truth, Objectivity, and Postmodernism*.

- **Dr. Lesley Magnus and Mary Huston**, Communication Disorders, $780, *A Comparison of Subjective and Objective Intelligibility Measures in Preschoolers*.

- **Dr. Paul Markel and Dr. Deb Olson**, Addiction Studies/Psychology/Social Work, $4307, *Development of a prototype for a precision tactile-transmitter device*.

- **Dr. Ernst Pijning**, History, $1700, *Getting Lost in the Land of Opportunity: The Nederlandsche Handel-Maatschappij in Brazil*.


- **Dr. Ryan Winburn**, Science, $3045, *Pilot Program for an Undergraduate Mentorship Program in Research Focusing on the X-Ray Diffraction of Materials*.

- **Dr. Young Seob Son** Business, $3,000, *Survey for an Economic Base Analysis*.

**Small Grant Awards for 2007-2008 - $31,700**

- **Ms. Becky Barcomb**, Teacher Education and Human Performance - $1,769 “Secondary First Year Teachers’ Experiences.”


- **Dr. Shirley Cole-Harding**, Addiction Studies, Psychology, and Social Work - $3,920 “Group Testing in Alcohol Research: Does it matter if everyone gets the same dose?”

- **Dr. Shirley Cole-Harding, Ms. Debra DeWitz, Dr. Vicki Michels, and Dr. Deborah Olson**, Addiction Studies, Psychology, and Social Work - $2,320 “Energy Drinks: What’s the Big Deal?”

- **Dr. Shyamal Kumar Das**, Social Science - $2,980 “Economic Reforms, Cultural Values, Political Institutions, and Regional Distinctiveness: Determinants of Sex Trafficking Network as a Global Commodity Chain.”

- **Dr. Alan Ekblad**, Special Education - $2,480 “Adapting Curriculum to Meet All Children’s Needs (ACMAC).”

- **Dr. John Girard**, Business Information Technology - $2,100 “Continuing the Quest: An Examination of Information Anxiety Amongst Job Corps Managers.”

- **Dr. Paul Lepp**, Biology - $3,900 “Gene Flow Across the Bering Sea: In Search of the Eurasian Parents of the North American Hybrid Succulent Rhodiola Integrifolia.”

- **Dr. Heidi Super**, Biology - $3,920 “Analysis of Protein Binding in the MLL Translocation Breakpoint Region.”
• Dr. Ursula Schittko, Biology - $3,610 – Gene Flow Across the Bering Sea

Small Grant Awards for 2006-2007 - $20,267
• Dr. Brent Askvig, NDCPD - $1,010 - “Cultural and Service Variances Between Northern Norwegian and North Dakota Institutions for Persons with Mental Retardation.”
• Dr. Robert Crackel, Chemistry - $500 - “Development of Methods Using a Gas Chromatograph-Mass Spectrometer for Determining Concentrations of Substances Present at Clandestine Drug Laboratory Sites.”
• Dr. Shyamal Kumar Das, Sociology - $1,520 - “Economic Reforms, Cultural Values, Political Institutions, and Regional Distinctiveness: Factors in Corruption.”
• Dr. Conrad Davidson, Humanities - $300 - “Creative Writing: Writing a Mystery Play.”
• Mr. Guy Hanley, Science - $1,500 - “Digital Imaging of California cerambycidae Fauna” and “Faunal Analysis of Prairie Coleoptera Collected During an Enclosed Drift Fence Herpetological Study.”
• Dr. Chad Heinzel, Geoscience - $835 - “An interdisciplinary quest for an Elymian (Iron Age) prehistoric kiln site in Western Sicily.”
• Dr. Steve Huenneke, Economics - $500 - “Thorstein Veblen and Titanic: A Metaphorical Excursion.”
• Dr. Thomas Linares & Johnna Westby, Communication Disorders - $2,600 - “Self-Regulation Training for Children with Learning and Behavioral Challenges.”
• Drs. Deb Olson & Paul Markel, Psychology - $2,300 - “Short-term Memory Characteristics of Tactile-Spatial Memory.”
• Dr. Ursula Schittko, Biology - $4,232 - “Gene Expression in Nectaries of Gender-Dimorphic Plant Species Rhodiola Rosea L.”
• Dr. Paul Sims, Chemistry - $2,600 - “Catalytic and Structural Studies of Glycerate.”

Small Grant Awards for 2005-2006
• Dr. Robert Crackel, Chemistry, “Development of Methods for Determining Concentrations of Lithium and Ammonia at Clandestine Drug Laboratory Sites.”
• Dr. Terry Eckmann, Teacher Education/Human Performance, “Training Effects of Two Exercise Programs on Women 40 to 70 Years of Age.”
• Dr. Chad Heinzel, Geoscience, “An Integrated (GIS) Approach Linking the Physical and Cultural Environments: An Analysis of Ancient Cultures of North Dakota.”
• Dr. Paul Lepp, Biology, “Fixation Genes in Oral Bacteria.”
• Linda Olson, M.F.A., Art, “Rock Art Inventory: The Location of Additional Rock Art Sites in the Meeteetsee Draw Rock Art Special Management Area in Wyoming.”
• **Dr. Michelle Sauer**, English, “*Companion to Pre-1600 British Poetry* (edited collection.)

• **Dr. Ryan Winburn**, Chemistry, “*X-ray Diffraction of Complex Materials: Applications and Errors.*”

**Small Grant Awards for 2004-2005**

• **Dr. Conrad Davidson**, Humanities, “*A Language-Based Approach to Playwriting.*”

• **Dr. Alexandra Deufel**, Biology, “*Kinematics of the Predatory Strike of an Unusual Elapid Snake that is Convergent on Vipers.*”

• **Dr. Terry Eckmann**, Teacher Education/Human Performance, “*Training Effects of Three Exercise Programs with Various Education and Group Support Components on Women 4- to 60 Years of Age.*”

• **Dr. Lee Ellis**, Social Science, “*Sourcebook for Male-Female Differences.*”

• **Dr. Chad Heinzel**, Geosciences, “*Determining Provenance of Anthropogenic Source Materials in the Trapani Region, Western Sicily.*”

• **Dr. Karland Kilian**, Physics, “*Computer Modeling of Exchange Bias in Ferromagnetic-Antiferromagnetic Bilayers.*”

• **Dr. Allen Kim**, Science, “*Latest Cretaceous Vertebrates from Vega and James Ross Inlands Antarctica.*”