



Research and Sponsored Programs “SpotLight”

Summer Recap - External funding Submissions and Awards
May, 2019 – August, 2019

CONGRATULATIONS to the following faculty and staff:

College of Arts and Humanities

Dr. Candace Black – English

Good Thunder Reading Series MSAB FY21

Submitted to: Minnesota State Arts Board for \$40,014

College of Science, Engineering & Technology

Kimberley Musser And **Tyler Grupa** – Water Resources Center

Le Sueur River Watershed Restoration & Protection Cycle 2

Submitted to: Minnesota Pollution Control Agency for \$44,400

Linking Soil Health and Water Quality in Small Watershed Approach

Submitted to: University of Minnesota for \$30,048

Dr. Ryan Wersal – Biology

SePRO-Aquatic Plant Management Research Priorities

Submitted to: SePRO for \$12,500

US Army Corps of Engineers – “Phenology and Starch Allocation Patterns of Cuban Bulrush (*Oxycaryum cubense*) Harvested from Field Locations”

Awarded: \$58,156

Helena-Agri Enterprises – “Helena-Agri Enterprises, LLC Income Contract”

Awarded: \$5,000

Aquatic Ecosystem Restoration Foundation – “Aquatic Ecosystem Restoration Foundation Project”

Awarded: \$17,500

U.S. Fish and Wildlife Service – “Chemical Control for Starry Stonewort in Minnesota”

Awarded: \$42,000

Dr. Jianwu Zeng – Electrical & Computer Engineering Technology

CAREER: Reconfigurable Multiport Power Router for the Microgrid with Penetration of Renewable Energy Sources

Submitted to: National Science Foundation for \$516,254

Dr. Charles Krois – Chemistry & Geology

Identifying hormonal and metabolic signals that regulate all-trans-retinoic acid synthesis in brown adipocytes

Submitted to: National Institutes of Health for \$333,206

Dr. Rebecca Bates – Integrated Engineering

Workforce Development Methodology Enabling Advanced, Secure DoD Microelectronics

Submitted to: U. S. Department of Defense for \$1,256,597

Dr. Jacob Swanson – Integrated Engineering
**Legislative Commission on Minnesota Resources – “Deploying New
 Technology to Understand Air Pollution”**

Awarded: \$46,571

Dr. Sarah Kruse – Computer and Information Sciences
Camp Software – “Camp Software Income Contract”

Awarded: \$2,500

Dr. Stephen Druschel – Mechanical and Civil Engineering
**MN Department of Transportation – “Hot Shots for Cold Climes – Evaluating
 Treatment of the Hardest Icy Spots”**

Awarded: \$170,314

Dr. Melissa Huppert – Minnesota State Engineering Center of Excellence And
Dr. Liz Steinborn-Gourley – Women's Center
**Regenerative Medicine Minnesota “Explore STEM Program: Reducing
 Barriers and Increasing Awareness and Interest in STEM Careers”**

Awarded: \$20,000

Dr. Mohamed Diab – Construction Management And **Dr. Farhad Reza** –
 Mechanical & Civil Engineering
**MN Department of Transportation – “Construction Incentives – Are They
 Working?”**

Awarded: \$88,620

Dr. Michael Rutkowski – Astronomy
Space Telescope Science Institute – “UVCANDELS”

Awarded: \$29,894

Dr. Vincent Windsted – Electrical & Computer Engineering Technology
**Xcel Energy Renewable Development Fund – “Integrated Renewable
 Generator Development”**

Awarded: \$108,679

Dr. Yongtao Zhu– Biological Sciences
**National Institutes of Health – “Diverse Transition-Metal and Free-Radical
 Chemistry Enabling 2'-Deoxyribonucleotide Production by Bacteria
 in Restrictive Environment”**

Awarded: \$22,896

Dr. Michael Wells- Computer Information Science
Maverick Software Consulting – “Maverick Software Consulting”

Awarded: \$2,882,036

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College of Social and Behavioral Sciences

Dr. Daniel Sachau And **Dr. Kristie Campana** – Psychology
Program Evaluation C2 Training of Veteran Law Enforcement Officers in the State of California

Submitted to: C2 Group for \$25,000

Dr. Mark Bowen – Geography
Evaluation Playas in Western Kansas: Recharge to the High Plains Aquifer and Economics of Cropping

Submitted to: Environmental Protection Agency for \$32,500

Dr. Afroza Anwar – Sociology & Corrections
Early Signs, Forces and Actual Process of Genocide in Myanmar

Submitted to: American Sociological Association for \$9,360

Dr. Jeffrey Buchanan – Psychology
Vine Mind Academy

Submitted to: Minnesota Board of Aging for \$4397

Dr. Daniel Sachau– Psychology
United Health Care – “UHC Inclusion Campaign”

Awarded: \$20,000

Dr. Karla Lassonde And **Dr. Emily Stark** - Psychology
Association for Psychological Science – “Communicating Psychological Science Website Development”

Awarded: \$3,150

Dr. Susan Schalge - Anthropology, **Dr. David Engen** – Communication Studies,
Nicole Stock – New Student & Family Programs And **Margaret Hesser** –
 Student Support Services
Minnesota State Colleges & Universities – “I’m First: A Campaign to Build a Community of First-Generation Students and Scholars at Minnesota State University, Mankato”

Awarded: \$10,000

Dr. Kathleen Black– Anthropology
MN Department of Transportation – “MNDOT Osteologist”

Awarded: \$48,816

Dr. David Beimers– Social Work
U.S. Department of Health and Human Services – “Southern Minnesota Rural Behavioral Health Initiative”

Awarded: \$99,975

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Dr. Kevin Filter – Psychology

Institute of Educational Sciences – “Project PACT: Development and Refinement of the Planned Action and Commitment Tool for Strategic Measurement of Implementer Commitment”

Awarded: \$83,374

Dr. Debra Gohagan And Dr. Kimberly Zammit – Social Work

MN Department of Human Services – “Social Work Child Welfare”

Awarded: \$591,611

Institutional Diversity

Megan Heutmaker – Multi-Cultural Center

District #77 Indian Education Support Program Staff FY19 & 20

Submitted to: ISD #77 Mankato

Ann Swartz-Beckius – OASIS

Minnesota Office of Higher Education- “Mavigators: helping underrepresented students during their first year of college”

Awarded: \$142,425

Division of University Advancement

Dwayne Megaw – KMSU

MN State Arts & Cultural Heritage Grant FY20/21

Submitted to: MN Department of Administration for \$175,000

KMSU FY20/21 General Fund Grant

Submitted to: MN Department of Administration for \$73,764

College of Allied Health and Nursing

Dr. Megan Mahowald – Speech, Hearing & Rehabilitation Services And **Dr.**

Brooke Burk – Recreation, Parks & Leisure Services

Camp Maverick Rec N’Read

Submitted to: The Max and Victoria Dreyful Foundation for \$15,680

Dr. Brigette Cooper And Dr. Angela Monson – Dental Hygiene

Advanced Dental Therapy Program

Submitted to: Minnesota Department of Health for \$148,940

Dr. Hans Peter de Ruiter – School of Nursing

Examining the Ethical Implications of Healthcare Technology on Nurses and Patients as Described in US and Swedish PhD Dissertations: A Scoping Review

Submitted to: Minnesota Nurses Association Foundation for \$10,000

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Dr. Suzannah Armentrout – Human Performance
Gustavus Sports Information GA AY19/20
 Submitted to: Gustavus Adolphus College for \$19,110

Dr. Autumn Hamilton – Health Science
Measuring the influence of state policy on the recreational use of marijuana among college students
 Submitted to: National Institute for Health for \$55,143

Dr. Brooke Burke– Recreation, Parks, and Leisure Services, **Dr. Kristen Abbott-Anderson** – School of Nursing And **Dr. Sheen Chiou** -Speech, Hearing and Rehabilitation Services
Minnesota Recreation and Park Foundation – “Spring EngAGement”
 Awarded: \$1,925

Dr. Brigitte Cooper– Dental Hygiene
Compeer Financial – “Compeer Dental Hygiene Scholarships”
 Awarded: \$5,000

Dr. Patricia Young – School of Nursing And **Dr. Rhonda Cornell**– School of Nursing
MN Department of Health – “2019 MERC Grant Application”
 Awarded: \$698,377

Dr. Corey Selland And **Dr. Lynette Engeswick**– Human Performance
Northland Chapter of the American College of Sports Medicine – “Comparison of Unilateral and Bilateral Resistance Training Effects on Muscle Hypertrophy”
 Awarded: \$900

Dr. Jessica Albers– Human Performance
Northland Chapter of the American College of Sports Medicine – “HRV Associated with Stress Management & Athletic Performance in Collegiate Volleyball”
 Awarded: \$600
South Central College – “South Central College GA”
 Awarded: \$19,785
United Hospital District – “United Hospital GA”
 Awarded: \$19,110

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Strategic Business, Education and Regional Partnerships

Louis Dickmeyer – Continuing and Professional Education

Partnership Grants:

Submitted to: Mn Department of Employment & Economic Development

Dotson Iron Castings - \$264,858

Mankato Clinic - \$397,100

FlexPak - \$19,902

TSI Plastics -- \$49,371

MN Department of Employment & Economic Development – “Nonin Medical”

Awarded: \$270,000

Julie Nelson And Mike Hahn – Small Business Development Center

State Technical Assistance Grant

Submitted to: MN Department of Employment & Economic Development or \$400,000

US Bank Grant

Submitted to: US Bank for \$2,000

MN Department of Employment & Economic Development – “SBDC 2019 - DEED Portion”

Awarded: \$15,000

MN Department of Employment & Economic Development – “SBDC Federal CY2019”

Awarded: \$232,897

College of Education

Dr. Timothy Berry – Center for Educator Partnerships and Student Support

Overcoming by Word of Our Testimonies: A Spoken-Word Performed by Black Male Wounded Healers

Submitted to: Bush Foundation for \$50,000

Dr. Timothy Berry And Dr. Robbie Burnett – Center for Educator Partnerships and Student Support

Bringing Racial Equity to Teacher Education: Emerging Efforts to Launch a Networked Improvement Community

Submitted to: Michigan State University for \$87,000

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Dr. Timothy Berry And **Jill Ryan** – Center for Educator Partnerships and Student Support

ISD#508 St. Peter – “ISD #508 St. Peter Teaching Fellows”

Awarded: \$37,499

ISD#12 Centennial Teaching Fellow – “ISD #12 Centennial Teaching Fellow”

Awarded: \$37,499

ISD#829 Waseca – “ISD #829 Waseca Teaching Fellow”

Awarded: \$37,499

ISD#761 Owatonna – “ISD #761 Owatonna Teaching Fellows”

Awarded: \$37,499

ISD#77 Mankato – “ISD #77 Mankato Teaching Fellows”

Awarded: \$26,249

ISD#2397 Le Sueur – “ISD #2397 Le Sueur Teaching Fellow”

Awarded: \$13,125

ISD#2905 Tri-city United – “ISD #2905 Tri-City United Teaching Fellows”

Awarded: \$37,499

ISD#8628 Faribault – “ISD #8628 Faribault Teaching Fellows”

Awarded: \$37,499

Dr. Sean Wachsmuth – Special Education And **Dr. Kevin Filter** – Psychology
Project FIT: Function-based Interdisciplinary Training

Submitted to: U.S. Department of Education for \$1,250,000

Dr. Robbie Burnett And – **Laura Maki** – College of Education
Teacher of Tomorrow

Submitted to: Professional Educator Licensing and Standards Board for \$157,464

Carrie Chapman – k-12 Secondary Programs And **Michael Altomari** –
Concurrent Enrollment

MN Department of Education – “Concurrent Enrollment EXPANCON 19-20”

Awarded: \$51,578

Library Services

Heidi Southworth – Library Services And **Dr. Kyle Ward** - History

Americans and the Holocaust – A Traveling Exhibition for Libraries

Submitted to: United States Holocaust Memorial Museum and the American Library for \$2,000

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Division of Academic Affairs

Dr. Thomas Norman – University Extended Education

Advanced Hazardous Materials Instructor Training (AHZMIT)

Submitted to: U.S. Department of Transportation for \$657,710

Margaret Hesser – TRIO

U.S. Department of Education – “Student Support Services”

Awarded: \$419,518

Nancy Sprengler – TRIO

U.S. Department of Education – “Education Talent Search”

Awarded: \$371,978

George Corey – TRIO

U.S. Department of Education – “Upward Bound”

Awarded: \$496,614

Division of Student Affairs

Carolyn Nelson – Admissions

Emergency Grant

Submitted to: Minnesota Office of Higher Education for \$53,750

Wendy Schuh – Student Activities And **Antonia Yenser** – Student Health Services

MN Department of Human Services – “FY20 Healthy Mavericks Grant”

Awarded: \$29,871

Wendy Schuh – Student Activities

United Health Care Resources – “Student Insurance FY20”

Awarded: \$29,460

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