

RESEARCH HIGHLIGHTS

ANTARCTIC GEOLOGICAL DRILLING (ANDRILL)

Dr. Kate Pound from the Department of Earth and Atmospheric Sciences, whose research specialty lies in the field and lab examination of the structure and composition of sediments, sedimentary rocks and volcanic rocks, has been collecting data to interpret the origin of sedimentary and volcanic materials as well as the type of environment they formed in. As a science educator, she is particularly interested in translating current geosciences research into classroom and lab teaching materials. This NSF-sponsored international research project retrieved sediment cores from the floor of McMurdo Sound in the Ross Sea in Antarctica. The sediment cores will help geoscientists interpret the history of Antarctic ice sheet development and, hence, climate change over the past 20 million years. This knowledge will help us better understand the response ice sheets have to past climate change and better predict future impacts of global warming on ice sheet melting. Together with her co-investigators, Dr. Kate Pound is developing teaching materials for use in class and lab situations that use real sediment core data to help students learn how we use earth's natural sediments to interpret past climate. The materials will be made available through several websites, including the Science Education Resource Center (SERC).

GERMAN LANGUAGE INSTRUCTION: HIGH SCHOOL-COLLEGE PARTNERSHIP

The German Language Instruction Project, headed by Maria Mikolchak, addressed the need to enhance communication/cooperation between high schools and colleges in order to provide a smooth transition for students to a college environment. The problem has been documented through data on retention attesting to the fact that there is a discrepancy between students' expectations and the actual college experience. High school students received information on college instruction and gained first-hand experience with learning styles and methods in college as well as the rigor of the college curriculum. College students, on the other hand, gained experience in collaboration/team work in the learning process. Activities included face-to-face communication in high school (groups of college students went to high school) and in college (groups of high school students visited our German classes) as well as podcasting on a regular basis.

ST. CLOUD TRAVEL INFORMATION CENTER

In 1996, the Minnesota Office of Tourism opened a Travel Information Center (TIC) on State Highway 10, just south of St. Cloud. Since opening day, students from the Geography Department's Travel and Tourism Program have been interning at the facility. Last Spring, Explore Minnesota Tourism sought to formalize the partnership, turning the daily operations and management of the Highway 10 TIC over to the Travel and Tourism Program under the direction of Dr. Randal G. Baker. The TIC on Hwy 10 is different than other TICs since it caters to travelers who are 'hunting' for a particular destination or attraction vs. 'gathering' information about the state as they cross the border. Student interns are expected to become Minnesota experts, providing navigational as well as travel counseling information for customers. When they are not assisting travelers, interns are involved in projects specific to the operations of the TIC, such as conducting simple analyses of visitor data and ordering community promotional materials. This partnership provides a unique experience for students in the Travel and Tourism program to gain practical tourism experience, while assisting Explore Minnesota Tourism in fulfilling its mission.

MAYO CLINIC ULTRASOUND RESEARCH

Yi Zheng and Aiping Yao, professors of Electrical and Computer Engineering department, are working with researchers of the Mayo Clinic and Cornell University to help develop a new medical ultrasound technology that quantitatively measures tissue stiffness. The technology induces a tiny vibration wave in a tissue region of a human body and measure the wave propagation for tissue elasticity and viscosity. Non-invasive and quantitative measurements of the tissue stiffness provides valuable pathology information for disease diagnoses such as breast lesions, liver fibrosis and cirrhosis, artery stiffness due to minor stenosis and calcifications, etc. The project is funded by a grant from the National Institute of Health (NIH). The \$2.3 million grant supports the project over a period of four years, 2006 to 2010. Dr. James Greenleaf, Director of the Mayo Ultrasound Research Lab, leads and manages the overall project. St. Cloud State University and Cornell University serve as consortium sites. Students and faculty who have participated in this research have had opportunities to work closely with Mayo researchers and have access to the advanced research facilities of the Mayo Clinic.

THE BIG READ

SCSU was one of 126 organizations to receive a grant from the National Endowment for the Arts (NEA) for The Big Read. The aim of The Big Read is to restore reading to the center of American life and unite communities through the reading of a single piece of literature. Professors from the departments of Special Education and Teacher Development in the College of Education wrote the grant and selected Bless Me, Ultima, chosen for its appeal to the growing Latino population. It was hoped that through reading this novel, people would gain a deeper understanding of Hispanic culture in both historical and contemporary contexts. The most exciting part of this project was the participation of faculty, staff and students from over 20 departments at SCSU. Because of the variety of themes in the book, the month-long celebration of Bless Me, Ultima involved an extensive array of topics. In addition to the collaboration of multiple members of the SCSU community, the project also involved students in local schools through the reading of a bilingual children's book, The First Tortilla. The illustrator of this book, Amy Cordova, came from New Mexico to St. Cloud to take part in The Little Read which was part of The Big Read. U.S. Bank, The Whitney Senior Center, The Stearns History Museum, Books Revisited and The Newman Center voluntarily hosted events to make The Big Read a success.

COLLABORATIVE NURSING SIMULATION PROJECT

The Department of Nursing Science received an \$80,000 grant from MnSCU Legislative Initiative Funds for Healthcare Simulation. Nurse educators from St. Cloud State University, St. Cloud Technical College and Central Lakes Community College have worked collaboratively to build innovative "real-life" simulation scenarios to prepare LPN and RN students for safe, evidence-based practice grounding in clearly defined scopes of practice for each level. The simulation was fully implemented at the SCSU Nursing Science Laboratory, which was set up as a patient care unit, with patient case studies being role played by faculty, community members and simulator mannequins. Faculty from the three partner schools were present to evaluate student performance based on the evaluation tools that were developed. The simulation is part of the RN students' leadership clinical and designed to evaluate the RN student's ability to safely and effectively delegate and supervise nursing care for a diverse group of five patients in a simulated non-specialized unit at a small "community hospital." Feedback from LPN and RN students and faculty revealed overwhelmingly positive comments on the value of collaborative learning in a simulated setting prior to graduation.

WOMEN'S CENTER

The Women's Center's Gender Violence Prevention Program, under the leadership of Assistant Director Lee LaDue, received a U.S. Department of Justice grant to enhance services, training and programming to better address gender violence. The grant will focus on improving educational efforts, developing protocols for relationship violence and stalking crimes, increasing adjudication of sexual assaults, improving victim services and expanding the impact of our efforts to other colleges and universities in the MnSCU system. Further, the Women's Center will partner with the Counseling Center to develop a peer education program for men. In addition to improving the educational program for new students by purchasing an on-line interactive program, the grant staff will collaborate with campus officials to develop domestic/dating violence response protocols, particularly for first responders, and a coordinated community response to stalking will be developed through the Stearns County Council. The culmination of these activities will lead to enhanced services, clear policies and procedures, and improved coordination with local law enforcement and the judicial system, creating a seamless and effective system for victim/survivors of gender violence.

FOR MORE INFORMATION, CONTACT:

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ST. CLOUD STATE UNIVERSITY

St. Cloud State University values diversity of all kinds, including but not limited to race, religion and ethnicity (full statement at bulletin. StCloudState.edu/ugb/generalinfo/nondiscrimination.html). TTY: 1-800-627-3529 SCSU is an affirmative action/equal opportunity educator and employer. This material can be made available in an alternative format. Contact the department/agency listed above.

FY 2008 RESEARCH PROFILE

Enriching lives,
strengthening communities,
making a difference in the world

RESEARCH • CREATIVITY • SERVICE
Sponsored
Programs



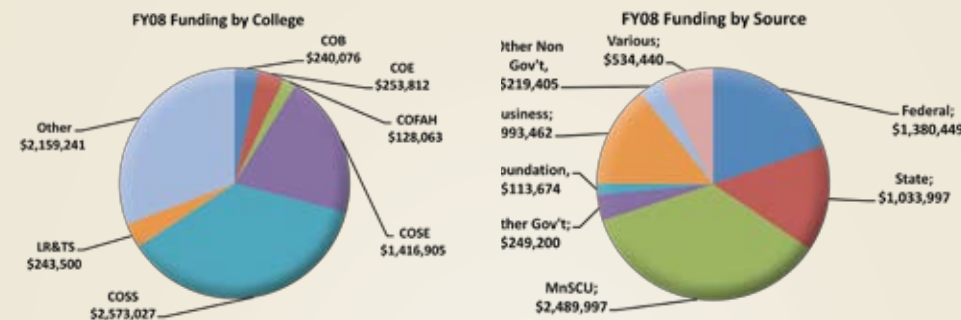
ST. CLOUD STATE UNIVERSITY



FISCAL YEAR 2008 EXTERNAL GRANTS AND CONTRACTS

(July 1, 2007 – June 30, 2008)

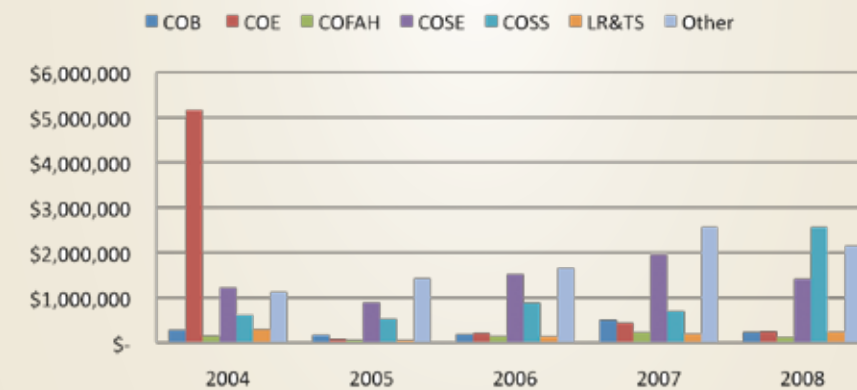
TOTAL AMOUNT AWARDED \$7,014,624



NUMBER OF AWARDS AND FUNDING BY COLLEGE

College of Business (COB) - 11	\$240,076
College of Education (COE) - 17	\$253,812
College of Fine Arts & Humanities (COFAH) - 11	\$128,063
College of Science & Engineering (COSE) - 32	\$1,416,905
College of Social Sciences (COSS) - 16	\$2,573,027
Learning Resources & Technology Services (LR&TS) - 8	\$243,500
Other - 20	\$2,159,241

GRANTS AND CONTRACTS AWARDED BY COLLEGE



NUMBER OF AWARDS AND FUNDING BY FISCAL YEAR 5 YEAR HISTORY

Total amount awarded in fiscal year 2008 (115)	\$7,014,624
Total amount awarded in fiscal year 2007 (148)	\$6,623,408
Total amount awarded in fiscal year 2006 (113)	\$4,769,437
Total amount awarded in fiscal year 2005 (86)	\$3,239,556
Total amount awarded in fiscal year 2004 (108)	\$8,889,899

Enriching lives, strengthening communities, making a difference in the world

Researchers at St. Cloud State University are driven by the desire to serve. With ingenuity, imagination and passion, faculty and staff respond to real-world issues, interests and concerns by working closely with partners from education, government, business/industry and philanthropy.

Through this public service, faculty and staff gain additional professional expertise. They also mentor students by example, cultivating the next generation of creative, thoughtful and productive citizens. St. Cloud State University faculty and staff help:

- Encourage regional economic vitality
- Support business and government through technical assistance
- Improve educational opportunities for children
- Enhance the well-being of individuals and families
- Build community capacity
- Shape public policy
- Expand access to the arts
- Bring together people of different cultures and beliefs
- Preserve cultural, historical and informational resources
- Protect the environment, wildlife and earth's natural resources
- Explore unknown areas of medical science
- And much more



INTERNAL FACULTY IMPROVEMENT GRANTS

SHORT TERM GRANTS support registration fees, travel and per diem related to non-credit workshops or training programs 1-14 days in length. Awards do not support attendance at annual meetings or professional conferences. Grant awards are generally spent during the current fiscal year which ends June 30.

LONG-TERM GRANTS support curriculum development, writing, study, work on a dissertation, pursuit of a terminal degree, and study in current or new discipline and travel projects. Activities must be longer than 14 days and can occur during one or both summer sessions or for up to 20 weeks when a faculty member is not otherwise working or teaching at the University. Grant awards must be spent during the upcoming fiscal year following the award date.

RESEARCH GRANTS support research and other scholarly activities. Grant awards must be spent during the upcoming fiscal year following the award date.

INTERNAL RESEARCH FUNDS

UNIVERSITY RESEARCHER FUNDS support faculty and staff seeking external funding of \$25,000 or more for research, scholarly or creative activity. Funding of up to \$5,000 provides a multi-faceted support system to help individuals develop and hone the skills needed to be successful in seeking at least mid-level funding from external sources. Generation of indirect costs from external grants allows this program to continue.

HELLERVIK RESEARCH AWARD is St. Cloud State University's premier prize for research and it encourages and rewards scholarly activity that holds the potential to earn external sponsorship and advance knowledge on issues of importance to society. The recipient of the Hellervik Research Award will receive their requested University Researcher Funds and an additional \$2,500 Hellervik award to further their research activity.

SAIGO ENDOWMENT FOR FACULTY AND STAFF EXCELLENCE FUND encourages and assists faculty and staff with scholarly activities including professional presentations, performances and exhibitions; research and creative endeavors; and publications. All full-time permanent or temporary faculty and staff at St. Cloud State University are eligible to apply.

STUDENT RESEARCH FUNDS support activities including materials and supplies, travel to conduct research or present at a conference or any other reasonable need directly associated with research and creative activity by St. Cloud State University undergraduate and graduate students under the direction of a faculty member. Projects must be related to academic program and career objectives with a maximum award of \$1,500. All students accepting an award agree to present their research at the annual Student Research Colloquium sponsored by St. Cloud State University.

ANNUAL EVENTS

RESEARCH AND CREATIVITY RECOGNITION RECEPTION honors the efforts of St. Cloud State University faculty and staff in pursuing external support for research, creativity and public service during the year. The Office of Sponsored Programs hosts this event to encourage our colleagues, celebrate their efforts and honor their achievements.

STUDENT RESEARCH COLLOQUIUM brings together students, faculty and members of the community involved in scholarly and artistic activities representing a range of disciplines, including Creative Arts, Mathematics, Business, Social Science, Humanities, Physical and Life Sciences and Engineering, among others. The event promotes research, scholarship and creative activity done cooperatively with faculty as a vital component of higher education.