



FUNDAMENTALS

FALL 2008

FACULTY IMPROVEMENT GRANTS

INSIDE THIS ISSUE	
FRENCH FILM FESTIVAL	2
ST. CLOUD AREA QUARTERLY BUSINESS REPORT	2
SOCIAL NORMS MARKETING IMPACT	2
EXTERNAL GRANT OPPORTUNITIES	3
EXTERNAL GRANT OPPOR.-CONT'D	4
AORTIC HEART VALVE FATIGUE TEST SYSTEM	5
THE BIG READ	5
ANDRILL	5
IRB CHANGES	6

SHORT TERM

Grant awards support registration fees, travel, and per diem related to non-credit workshops or training programs 1-14 days in length. They do not support attendance at annual meetings or professional conferences.

Application Deadlines:

- October 1, 2008
- February 2, 2009
- April 1, 2009

LONG TERM

Grant awards support curriculum development, writing, study, and travel projects. Activities must be longer than 14 days and can occur during one or both summer sessions.

Application Deadline:

- December 5, 2008

RESEARCH

Research grant awards support research and other scholarly activities. Long term and research grant awards must be spent during the next fiscal year (FY10) which will begin July 1, 2009, and end June 30, 2010.

Application Deadline:

- December 5, 2008

Applications for faculty improvement grants are located on the Office of Sponsored Programs website:

<http://www.stcloudstate.edu/osp/internal/improvementgrants.asp>

HELLERVIK AWARD

The Hellervik Research Prize is St. Cloud State University's premier prize for research, and encourages and rewards scholarly activity that holds the potential to earn \$5,000 or more of external sponsorship and advance knowledge on issues of importance to society. Probationary or tenured faculty and staff can apply for up to \$2,500.

Application deadline: To be determined; please check website

<http://www.stcloudstate.edu/osp/internal/default.asp>

UNIVERSITY RESEARCHER FUNDS

Apply for up to \$5,000 for individuals seeking external funds of \$25,000 or more for research, scholarly or creative activity. Funding is available to probationary and tenured faculty and staff. The purpose of the University Researcher Funds is to provide 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. Funds may not be used for reassigned time, extra-duty days or overload. The following criteria will be used for evaluating applications: feasibility and sustainability of the project, potential for extramural funding, integration of faculty/student research and potential to advance knowledge on issues of importance.

Application deadline: November 3, 2008 (<http://www.stcloudstate.edu/osp/internal/researchersfunds.asp>)

STUDENT RESEARCH FUNDS AND COLLOQUIUM

Student research funds support academic research and creative activity by SCSU undergraduate and graduate students under the direction of a SCSU faculty member. Funds are awarded up to \$1,500 per project with the average award being \$750. All students accepting an award agree to present their project at the Student Research Colloquium on April 21, 2009. Approximately 20-40 awards will be made each year. Supported activities include: materials and supplies, travel to conduct research or to present at a conference, or any other reasonable need directly associated with research/creative projects. All students accepting an award agree to present their project at the Student Research Colloquium.

Application deadline: October 1, 2008; February 2, 2009 (<http://www.stcloudstate.edu/src>)

IRB NEWS

Upcoming IRB Meetings and deadlines for submission.

Fall 2008:

Meeting	Deadline
9/22/08	9/8/2008
10/20/08	10/06/08
11/17/08	11/03/08
12/15/08	12/01/08

PLEASE CHECK THE LAST PAGE FOR CHANGES TO THE IRB APPLICATION PROCESS.

FRENCH AND FRANCOPHONE FILM FESTIVAL



The French American Cultural Exchange Program (FACE) is made possible with the support of the French Ministry of Foreign and European Affairs, the *Centre National de la Cinematographie*, the Florence Gould Foundation, the Grand Marnier Foundation, Highbrow Entertainment, Agnes B. and the *Fonds culturel Franco-Americain*. This program offers an annual amount of \$180,000 to university campuses nationwide, on a competitive basis. St. Cloud State University and Assistant Professor Gloria Melgarejo have been successful in receiving this grant from the FACE-Tournées organization for the past three years. The French and Francophone Film Festival “Marid-Cinema!” started in the Fall of 2006 and then

took place in the spring of 2007 and 2008. This year, the event has shown five recent, award-winning films from a variety of topics ranging from the involvement of Arab soldiers in the French army during the second World War (**Indigenes**) to topics such as homelessness and young parenthood (**L’Enfant**) or controversial international political issues in Africa (**Bamako**). The event is hosted by the Foreign Language Department and receives support from the University Programs Board and the Department of Theatre, Film and Dance. This Festival presents a unique opportunity to our students and campus community to access films in the original language, from France and countries such as Algeria, Belgium, Canada, Senegal and Mali. The faculty and students in French have been great supporters of the festival as well as the international Francophone students on campus. The grant will be applied for again this year.

ST. CLOUD AREA QUARTERLY BUSINESS REPORT

For several years, the SCSU Center for Economic Education has received grant support from the St. Cloud Area Economic Development Partnership to collect information, conduct applied research and publish a quarterly report on the state of economic activity in the St. Cloud area. The St. Cloud Area Quarterly Business Report is a joint product of the Center for Economic Education and the Department of Economics and is co-authored by economics department faculty members King Banaian and Rich MacDonald.



Research and publication of the report is made possible by a unique collaboration of SCSU, the St. Cloud Area Economic Development Partnership and the St. Cloud Times. Each quarter’s report is published by the St. Cloud Times in its *ROI Central Minnesota* business magazine and is distributed to more than 5,000 quarterly readers. Among other things, the Quarterly Business Report, now in its 9th year, highlights responses of approximately 90 area business leaders to a quarterly survey designed to assess their company’s current and expected future performance. The Quarterly Business Report also features a local Index of leading economic indicators, a regional recession probability index and an unbiased analysis of local economic data. It is a signature product for anyone who is interested in issues related to the St. Cloud area economy and is widely cited throughout a range of media. The release of the Quarterly Business Report is nearly always a leading story in the St. Cloud Times, is covered by local radio stations and is often cited in the Federal Reserve’s nationally distributed beige book.

SOCIAL NORMS MARKETING IMPACT ON CULTURE CHANGE



Corie Beckermann, Director of Student Health Services, has been doing an ongoing study designed to evaluate a media campaign to reduce alcohol frequency and the amount of consumption by advertising actual frequency and consumption on campus. This social norms campaign examined perceived normative alcohol use, and alcohol use on the MN State University Mankato campus with St. Cloud State University as the control campus. The study was conducted over a three year period from 2006-2008. The grant was funded by NIAAA (National Institute on Alcohol Abuse and Alcoholism) division of the National Institutes of Health (NIH). It has three research goals: to decrease frequency and amount of drinking episodes by college students at MSU, to increase responsible use patterns by students who are using alcohol, and to change students’ perceptions of alcohol use so they are more reflective of actual campus use patterns. Information gained from this research will be very beneficial for SCSU to develop a social norms campaign for SCSU’s campus during the 2008-2009 academic year regarding alcohol consumption as part of a multifaceted environmental approach to reducing high risk drinking on our campus.

CORIE BECKERMANN

EXTERNAL GRANT OPPORTUNITIES

Sign-up for automatic Federal Grant Notifications at <http://www.infoed.org/home/officemenu.asp>. Click GENIUS SMARTS from the list and then click Create New Profile. Follow the step-by-step process of completing your profile. Once your profile is setup, you will begin receiving personalized emails from InfoEd identifying federal granting opportunities that fall within your personalized profile criteria. You are also welcome to update your profile as needed through this process.

National Science Foundation**Expeditions in Computing**

The far-reaching impact and rate of innovation in the computing and information disciplines has been remarkable, generating economic prosperity and enhancing the quality of life for people throughout the world. But the best is yet to come! The Directorate for Computer and Information Science and Engineering (CISE) has created the Expeditions in Computing program to provide the CISE research and education community with the opportunity to pursue ambitious, fundamental research agendas that promise disruptive innovations in computing and information for many years to come. Funded at levels up to \$2,000,000 per year for five years, Expeditions represent some of the largest single investments currently made by the directorate. Together with the Science and Technology Centers CISE supports, Expeditions form the centerpiece of the directorate's award portfolio.

Deadline: February 10, 2009

Program guidelines available at http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf08568

Advances in Biological Informatics

Biological processes at all scales from molecules to ecosystems are mediated through the encoding, exchange, and interpretation of information. Advances in the biological sciences are enabled by our capacity to recognize, manage, represent and analyze the structure in biological data through the use of modern digital media and computational tools. Proposals may be submitted by Universities located and accredited in the US, acting on behalf of their faculty members. The Advances in Biological Informatics (ABI) program seeks to encourage new approaches to the analysis and dissemination of biological knowledge for the benefit of both the scientific community and the broader public. The ABI program is especially interested in the development of informatics tools and resources that have the potential to advance or transform research in biology supported by the Directorate for Biological Sciences and the National Science Foundation.

Deadline: August 12, 2009; August 12, 2010

Program guidelines available at <http://www.nsf.gov/pubs/2008/nsf08563/nsf08563.htm>

Central MN Community Foundation

The Central Minnesota Community Foundation has been connecting people and resources to build a better community since 1985. With more than 500 funds totaling \$68 million, the Foundation partners with businesses, individuals and nonprofit agencies to have a lasting impact on Central Minnesota. From scholarships to emergency services, their funds serve a variety of needs in the St. Cloud area and beyond.

Deadline: No Deadlines; Letters of Inquiry accepted but not required; contact for more information

Program guidelines available at <http://communitygiving.org>

DARPA**Instant Fire Suppression**

A radically new approach to both fire manipulation and suppression lies in the realization that flames are a cold plasma consisting of mobile electrons and slower positive ions. This discovery, first put on a firm chemical basis by Calcote in 1957, has its origins in the classic work of Volta in the early 1800s on the "electrical nature" of flames. Since typical flames cannot exist without a stable plasma, this provides an effective point of attack: control the plasma to control the fire. Control includes both fire extinguishment and spatiotemporal manipulation; the bending of flames by electric fields was first demonstrated in the 1870s. Spatiotemporal manipulation of flames could permit the creation of "escape corridors" in flame-filled environments, and achieve the spatial localization/confinement required to prevent spreading of fire to other combustible materials. It is anticipated that the methods of plasma physics and chemistry can be applied to create revolutionary new capabilities for fire suppression. In response to this challenge, DARPA is seeking innovative proposals to develop a fire suppressant system based on destabilization/manipulation of the flame plasma by physical (e.g., electromagnetic) and/or chemical means. The Instant Fire Suppression system will "instantly" extinguish Class A and Class B fires, and be triggered by shock or heat, at air-bag velocities. The Instant Fire Suppression System will: extinguish the fire directly, prevent re-ignition of fire for extended duration, control the shape of the flame and localize and direct the flame heat flux away from combustible materials, and prevent the ignition of fire or combustible materials.

Deadline: No Deadlines; PIs are requested to send proposals early in the fiscal year.

Program guidelines available at http://nsf.gov/funding/pgm_summ.jsp?pims_id=11686

EXTERNAL GRANT OPPORTUNITIES—CONT'D FROM PAGE 3***National Institutes of Health*****Mechanisms of Alcohol-Associated Cancers (R21)**

The National Institute on Alcohol Abuse and Alcoholism (NIAAA), National Cancer Institute (NCI), and Office of Dietary Supplements (ODS) invite research grant applications that will employ an integrative approach using state-of-the-art technologies to gain insight into the molecular and biochemical mechanisms by which chronic alcohol consumption leads to the development of cancers of various organs such as oral cavity, pharynx, larynx, esophagus, stomach, large intestine, liver, and breast. This includes investigating the roles of various factors such as acetaldehyde, cytochrome adenosylmethionine (SAME), folate, betaine, iron and vitamin A. The total amount awarded and the number of awards will depend upon the mechanism numbers, quality, duration and costs of the applications received.

Submission Date(s): February 16, 2009; June 16, 2009; October 16, 2009

Program guidelines available at: <http://grants.nih.gov/grants/guide/pa-files/PA-06-270.html>

Retirement Economics (R21)

The National Institute on Aging (NIA) invites applications for research on retirement economics. The research objectives of this funding opportunity announcement (FOA) include, but are not limited to: (1) the determinants of retirement behavior, (2) the variation in work patterns in later life, (3) the evolution of health and economic circumstances of individuals through retirement and into later life, (4) time use and life satisfaction before and during retirement, (5) the implications of retirement trends, (6) retirement expectations, (7) international comparisons of retirement and (8) the development of innovative retirement modeling techniques.

Submission Date(s): February 16, 2009; June 16, 2009

Program guidelines available at: <http://grants.nih.gov/grants/guide/pa-files/PA-06-236.html>

All National Institutes of Health grant opportunities can be found at <http://grants1.nih.gov/>.

National Endowment for Humanities**We the People Grant Programs**

NEH was founded on the belief that cultivating the best of the humanities has real and tangible benefits for American civic life. As America moves into the twenty-first century we find ourselves engaged in a conflict driven by religion, philosophy, ideology and views of history— all humanities subjects. Today it is all the more urgent that we study American institutions, culture and history. To help Americans continue to make sense of their history and of the world around them, NEH is launching an initiative: *We the People*. NEH encourages scholars, teachers, filmmakers, curators and librarians to submit grant applications that explore significant events and themes in our nation's history and culture and that advance knowledge of the principles that define America. NEH is accepting *We the People* proposals to all programs and at all deadlines. Proposals are expected to meet the guidelines of the programs that best fits the character of the project.

Submission Date: Multiple submission deadlines; please see website for specific program information.

Program guidelines can be found at: <http://www.wethepeople.gov/grants/index.html>

National Oceanic and Atmospheric Administration**FY 2008 Broad Agency Announcement**

The purpose of this notice is to request proposals for special projects and programs associated with the Agency's strategic plan and mission goals, as well as to provide the general public with information and guidelines on how NOAA will select proposals and administer discretionary Federal assistance under this BAA. Funding for projects in this notice is contingent upon the availability of FY 08 and FY 09 appropriations. Applicants are hereby given notice that funds have not yet been appropriated for any proposed activities in this notice. Publication of this announcement does not oblige NOAA to review an application beyond an initial administrative review, or to award any specific project, or to obligate any available funds.

Submission Date: September 20, 2009

Program guidelines can be found at: <http://www07.grants.gov/search/>

[downloadAtt.do;jsessionid=LRMYF1yIFkbbv9T44FGKGt2vPnSyhh1FrTr2gXb9hCQGpghGv0hPI-678901049?flag2006=false&attId=27276](http://www07.grants.gov/search/downloadAtt.do;jsessionid=LRMYF1yIFkbbv9T44FGKGt2vPnSyhh1FrTr2gXb9hCQGpghGv0hPI-678901049?flag2006=false&attId=27276)

AORTIC HEART VALVE FATIGUE TEST SYSTEM



DR. STEVEN COVEY

The focus of the Aortic Heart Valve Fatigue Test System study, conducted by Dr. Steven Covey in Mechanical and Manufacturing Engineering, was to develop a system which can be used to accelerate testing of replacement heart valves. While a few heart valve test systems are commercially available, the cost and capabilities are not acceptable to a local biomedical manufacturer. Consequently, they funded Dr. Covey and a team of students to develop a system based upon new technology and ideas. The test system utilizes a voice coil actuator, fluid with properties similar to blood, a load cell and a closed-loop control system to generate physiologically realistic pressure drops across the prosthetic heart valve which is placed percutaneously. The LabView-based system is low cost so that multiple stations can be set up to evaluate a variety of parameters in parallel. Excellent valve imaging is achieved so high speed video cameras and borescopes can be used to assess valve leaflet deformation modes during testing. A similar project approach was used last year by Dr. Covey to develop a planar biaxial test system for evaluation of valve leaflet candidate materials under stresses representative of those occurring in the heart. Intellectual property rights were secured from the funding agency for the project last year and a buyer of the technology was sought.

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. Since 2006, grants of up to \$20,000 have been awarded twice a year to communities around the country. Professors from the departments of Special Education and Teacher Development in the College of Education wrote the grant and selected *Bless Me, Ultima* from a selection of 16 novels. *Bless Me, Ultima* was 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. Money from the grant was used to buy copies of the book in Spanish and English for students at three local schools. Students in elementary schools were also involved through the reading of a bilingual children's book, *The First Tortilla*. The illustration 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.



RUDOLPHO ANAYA, AUTHOR

ANDRILL



DR. KATE POUND

Dr. Kate Pound, 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 is why she was selected to participate in ANDRILL (Antarctic Geological DRILLing) during the 2007 season. 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. Dr. Pound's role was as a participant in the education and outreach team. She has developed teaching materials that introduce the Antarctic environment for Introductory Geoscience classes and pre-service teachers. Together with her co-investigators, she 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).

We are on the web!!

<http://www.stcloudstate.edu/osp/>

**OFFICE OF SPONSORED PROGRAMS
ST. CLOUD STATE UNIVERSITY**

Administrative Services 210

720 4th Avenue South

St. Cloud, MN 56301-4498

Phone: 320-308-4932

Fax: 320-308-5292

E-mail: osp@stcloudstate.edu

Institutional Review Board (IRB) Changes

THREE VERY IMPORTANT ASPECTS OF IRB ARE EFFECTIVE FALL 2008. THIS INFORMATION IS APPLICABLE TO ANYONE WHO MAY SUBMIT A PROJECT FOR IRB APPROVAL.

IRB Website and Application

The revamped website, <http://www.stcloudstate.edu/osp/irb/default.asp>, will serve as a useful tool for students, faculty and staff conducting research with human subjects. The website also includes the updated IRB application which is to be used for all new IRB applications.

IRB Exempt Reviews

An additional type of IRB review has been implemented: **Exempt Review**. IRB exempt reviews are similar to the expedited reviews in that only two official reviewers are needed for approval. However, no yearly project follow-up (continuing review or final report) is needed unless project changes have been made. Upon approval, the Principle Investigator will be notified the project has been deemed exempt, the IRB application will be filed for record keeping purposes and no further actions are needed unless project changes occur. Any projects changes need to be reported to the IRB as soon as possible.

IRB Training

Like many other institutions, SCSU faculty, staff and students who are conducting research with human subjects will be required to complete mandatory IRB training before any project can be approved. The online training can be completed on your own time. Each learner group has specific curriculum that pertains to their respective group (i.e. IRB board members will have different training requirements than graduate students). 70% is required to pass and ANYONE looking to submit a project for IRB approval must complete the training before their project will be approved. This IRB training is convenient and ensures continued ethical research practices at SCSU. Faculty are also encouraged to utilize the IRB training for their students through classroom demonstration and course assignments as students are able to print certificates of completion through the site. Please feel free to contact the Office of Sponsored Programs at osp@stcloudstate.edu for more information.

Student Research Colloquium

April 21, 2009

Be a part of the upcoming Student Research Colloquium (SRC) by sponsoring an undergraduate or graduate student research project. Students receive valuable experience competing in a professional research colloquium. A poster and paper presentation competition includes monetary awards as well as passport prizes for students who attend the most paper or presentation sessions. Encourage your students to either participate as a presenter or to attend the SRC for extra credit. The Committee welcomes your feedback; send to lidonnay@stcloudstate.edu or 308-5148.

Interested in having your research project highlighted in an upcoming newsletter? If so, please contact the Office of Sponsored Programs.