

External funding report available

NDSU received nearly \$53.7 million in external funding during fiscal 2002, according to the new annual report of the NDSU Sponsored Programs Administration. The figure represents a total increase of more than 6.4 percent over the previous year, which includes a 9 percent increase in research support.

The external awards and federal funds included \$41,119,924 in research; \$2,398,019 in Hatch/McIntire-Stennis funds; \$3,430,090 in NDSU Extension Service Smith-Lever Formula Funds; \$5,909,752 in student financial aids; and \$837,423 in unrestricted awards.

"Fiscal year 2002 was another very active year for securing research funding at NDSU," said Valrey Kettner, assistant vice president for Sponsored Programs Administration. "External funds continue to play an important role in the overall funding picture for NDSU. Such funds provide direct support for the diverse research interests on campus and provide indirect support for the infrastructure and operation of the campus."

Kettner said 76 percent of the external funding came from federal sources, 11 percent from state funds, 4.5 percent from commodity groups, 3 percent from industry, 1.5 percent from foundations and 4 percent from other sources, including other universities, research centers and non-profit organizations.

Kettner expects NDSU's external funding to continue to grow in the future. "As the Research and Technology Park continues to develop, we anticipate further growth in research opportunities, including new partnerships with private industry," she said. "This is a very exciting time to be a part of the research community at NDSU. Faculty, staff and students have truly embraced President Joseph A. Chapman's charge to take research at NDSU to the next level."

The 78-page external funding awards report can be viewed at www.ndsu.edu/research/spa.shtml. For more information, call 1-8045.

In another indication of campus success, Kettner said annual total research expenditures, which includes funding from all sources, are now being tabulated. She said that report will be the subject of an upcoming story in *It's Happening at State*. President Chapman has indicated he anticipates that figure to be close to \$80 million.

Access to Academic Press e-journals to change

Unlimited access to the entire Academic Press IDEAL e-journal package is scheduled to end by Jan. 1, with free access restricted to the approximately 30 titles formerly received in print.

Academic IDEAL is a large commercial publisher package giving researchers unlimited access to more than 200 science and social science titles offered by Academic Press. With the recent purchase of Academic Press by publisher Elsevier, all Academic IDEAL titles have been integrated into Elsevier's ScienceDirect e-journal package. Although unlimited access is restricted only to titles to which NDSU originally subscribed, back file access, as well as the ScienceDirect article-by-article access, remains available.

For more information call the Reference Desk at 1-8886 or contact your subject librarian.

You're invited to

**PRESIDENT CHAPMAN'S
Holiday Open House
2-4 p.m.
Tuesday, Dec. 17
Old Main**

Holiday hours to begin Dec. 23

Holiday hours for NDSU offices will begin Monday, Dec. 23, and run through Friday, Jan. 10. Hours will be 7:30 am.-4 p.m. University offices will close at noon Tuesday, Dec. 24. Regular hours will resume Monday, Jan. 13.

'It's Happening at State' holiday schedule reminder

The final issue of "It's Happening" for 2002 will be published on Dec. 18. Regular deadlines apply. There will be no issues Dec. 25 or Jan. 1. The regular schedule resumes Jan. 8. Due to the Martin Luther King Jr. holiday Jan. 20, the deadline for the Jan. 22 issue is Wednesday, Jan. 15.

Next Issue

Publication date: Wednesday, Dec. 18
Submissions due: noon Dec. 12
Old Main 204
Voice: 231-8326
Fax: 231-1989
ellen.puffe@ndsu.nodak.edu
www.ndsu.edu/university_relations/news

Dining Services alerts campus to need for shared leave

Dining Services employees Jacqueline Sharratt and Mary Poirer continue to be in need of donated leave. Both are eligible for the Shared Leave Program and university employees are asked to help if possible.

NDSU Policy Manual Section 147 states that an individual may donate a portion of his or her leave under these guidelines:

- If you choose to donate annual leave, you must donate it in full hour increments and you must retain a leave balance of at least 40 hours for your own use.
- If you choose to donate sick leave, you can donate up to five percent of your accrued leave hours in full-hour increments.

Anyone who would like to donate hours should contact Jane Cumber at 1-8097 or jane.cumber@ndsu.nodak.edu to receive a donated leave form. You may identify a specific person on the form and number of hours, or donate a set number of hours, leave the name blank and those hours will be used as needed. If annual leave hours are to be used by Dec. 31, it should be noted on the form.

NDSU featured on Internet2 site

NDSU's recent involvement with the Second Virtual Conference on Genomics and Bioinformatics is featured on the Internet2 Web site for projects of the Sponsored Education Group Participant (SEGP) program.

NDSU hosted the conference Sept. 24-26, using the Access Grid and Real Player to reach speakers and participants around the world. Some speakers and panel members participated at Access Grid sites in Boston, Washington, D.C., San Diego and New Mexico. There also were connections with 21 Access Grid sites across the United States, Italy, the United Kingdom, Puerto Rico and the Netherlands. In addition, Real Player provided audio and video to as many as 38 sites.

Genomics is the study of genes and their function, while bioinformatics is the management and analysis of data using advanced computing techniques. The goal of the conference was to bring together international researchers to discuss issues, identify new colleagues, share ideas and to make suggestions.

"It is quite an honor to be featured as the SEGP of the month," Rosi Kloberdanz, Information Technology Services director, said of being featured on the Internet2 Web site. "Only four states have previously been recognized (Virginia, Ohio, California and Missouri). The original Virtual Conference held by NDSU in 2001 was the first worldwide conference on genomics and bioinformatics conducted over the Access Grid."

NDSU was an early member of Internet2 and has taken an active role in many Internet2 projects and initiatives. Using STAGEnet, North Dakota's statewide network, the other nine NDUS institutions are joining Internet2, sponsored jointly by NDSU and the University of North Dakota. The state's high-speed network provides broadband connections to state agencies, all 225 K-12 schools, libraries, cities and counties, as well as North Dakota's 11 higher education institutions.

The story can be found at k20.internet2.edu/segp.

Institute publishes first children's novel

The North Dakota Institute for Regional Studies, based on the NDSU campus, has published its first novel for young readers. The book is "Tori and the Sleigh of Midnight Blue," by Margo Sorenson.

"Known as a major publisher of biography, history and politics in the state, the institute published 'Tori' to connect young readers with their North Dakota roots," said Thomas Riley, institute director and dean of arts, humanities and social sciences.

In the work of fiction, 11-year-old Tori and her family struggle with the Great Depression in North Dakota and the death of Tori's father. When a Norwegian bachelor-farmer begins courting Mama, Tori writes in her journal that her life is about to be ruined.

Sorenson is the author of 22 books for young readers. She was born in Washington, D.C., and spent the first seven years of her life in Spain and Italy. A graduate of the University of California at Los Angeles, she taught high school and middle school while raising a family of two daughters. She is now a full-time writer of books for young people, and has been invited to donate and archive her working papers with the internationally-known Kerlan Children's Literature Research Collection at the University of Minnesota. Sorenson and her husband live in La Quinta, Calif.

The book is available at local bookstores or can be ordered from the Institute for Regional Studies, NDSU, P.O. Box 5075, Fargo, ND 58105 for \$6.95 plus \$3 shipping. For more information, call 1-8338.

Development Foundation accepting grant applications

The NDSU Development Foundation Grants and Awards Committee is accepting applications from faculty and staff for grants from three endowment funds for the 2002-03 academic year. The application deadline is Friday, Jan. 17.

The Centennial Endowment Fund can provide maximum awards of \$5,000, with a total of \$22,750 available. It supports professorships, scholarships, biotechnology, faculty development, libraries and cultural arts.

The NDSU Development Foundation Board of Trustees Endowment can provide maximum awards of \$1,000, with a total of \$4,700 available. It supports general programs across campus.

The NDSU Development Foundation Libraries Endowment has \$3,700 available. It supports requests from any academic unit on campus for materials which will enhance the collections and/or operations of university libraries.

Faculty and staff can obtain copies of application forms for all three endowments in the deans' offices of their college, or by e-mail to joann@ndsualumni.com. The NDSU Development Foundation will notify applicants of funding decisions prior to April 15.

New grant offered for agricultural research

The NDSU Development Foundation Board of Trustees has established a new competitive grant to support NDSU's agricultural research efforts.

The Gordon A. Larson Agricultural Research Fund was established through contributions made by the estate of Gordon Larson. The former Jamestown, N.D., resident was an NDSU student in 1937 and made his career in farming and ranching.

Annual contributions from the Gordon A. Larson Foundation will be made available for agricultural research. The Development Foundation's Grants and Awards committee will oversee the competitive proposal process. There is a total of \$8,000 available for the 2002 academic year.

The application form is available through the College of Agriculture, Food Systems and Natural Resources, or by contacting joann@ndsualumni.com.

The deadline for the 2002-03 applications is Jan. 17, and applicants will be notified of funding decisions before April 15. Successful applicants will be required to use award funds within 18 months.

People

Hatch selected for student commencement speaker

Character, respect and ethics are the building blocks for success, so says senior Erik Hatch, who will discuss those traits as the student speaker at NDSU's winter commencement ceremonies scheduled for 4 p.m. Friday, Dec. 20, at the Fargodome.

The speech will address how individuals can take an active role in making a difference in people's lives. "It's so important to recognize what character is, and an underlying theme is respect for other people and yourself," said Hatch, a speech communication major with minors in mass communication and religion. "It's vital to understand the gifts and talents you have been given, and how you can use them.

"This is a capitalistic, competitive society that we live in. That's good for the growth of people, but what is more important is the basic knowledge of what it means to be a good person," Hatch said. "We need to base our foundation on goodness, character, morals and values. Without that, everything we build is going to fall."

The Fargo native clearly believes in the theme he has chosen for his speech, because he tries to live by it. His list of volunteer activities and organizational work is impressive.

Hatch has participated in the United Way Day of Caring and fund-raisers for the Juvenile Diabetes Association, Prairie Public Television, Nokomis Child Care Center, Salvation Army and the YWCA of Fargo-Moorhead. In total, he has volunteered more than 2,500 hours of community service and helped raise in excess of \$40,000 for community agencies.

He has been active in the Alpha Tau Omega fraternity, Blue Key National Honor Fraternity, Student Government, Inter-Fraternity Council, Order of Omega Honor Fraternity, Reed-Johnson Hall Government and Residence Hall Association. Hatch was the 2001 NDSU Homecoming King, received several scholarships and frequently made the Dean's List.

Hatch also is in his fifth year of teaching confirmation classes and leading worship service music at First Lutheran Church.

"I am just determined to make every day the greatest day of my life," Hatch said of the reasons behind his busy schedule. "Not only do I like to affect the things that I am a part of, but more importantly, I like the way those things affect me. I am a strong believer that you get out of something what you put into it."

Hatch describes himself as intense, spirited, honest and dedicated. His instructors could not agree more.

"He is vibrant, spiritual, positive, fun, energetic, empathic, sensitive, motivated, lively—just a top-notch person," wrote Ann Burnett, associate professor of communication and director of Women's Studies in a letter of nomination supporting Hatch's candidacy as student speaker.

In another nomination letter, Patty Corwin, senior lecturer of sociology-anthropology, wrote, "Erik Hatch would be the ideal commencement speaker because he is a talented, experienced, motivational and persuasive speaker. He is well-known, well-liked and respected across campus by students and faculty alike."

Hatch's connection with the university goes back to his youth, when he sold concessions during football games at Dakota Field and was a regular attendee at Bison basketball games. "As I grew up, NDSU was always there and I thought it was such an amazing institution. This place became my stronghold," he said. "For me, NDSU hasn't been just an education. It has been an opportunity and an experience.

"It has been a privilege to be a part of a pro-active, rather than reactive, environment. Being part of a campus that contributes to growth has been really beneficial to me."

After graduation, Hatch will make good use of his talents. In February, he will begin work for Youth Frontiers, Minneapolis. The organization provides character-building retreats for elementary, junior high school and high school students. The retreats focus on respect, integrity, courage and kindness.

Ambrosio article published

Thomas Ambrosio, assistant professor of political science, recently published an article titled "Congressional Perceptions of Ethnic Cleansing: Reactions to the Nagorno-Karabagh War and the Influence of Ethnic Interest Groups" in *Review of International Affairs*.

In the article, Ambrosio investigates the role Armenian-American lobbying organizations played in framing congressional perceptions of the war in the Nagorno-Karabagh region of Azerbaijan during the early 1990s. Three areas of issue including the rhetorical uses of the terms "aggression" and "genocide," responsibility for human rights abuses and ethnic cleansing are investigated. The article suggests that during the period of fighting in Karabagh, and its immediate aftermath, there was a clear correspondence between the position of the Armenian-American lobby, rhetoric in Congress and resulting legislation.

Students to work for NASA

Two NDSU students will soon watch the product of their hard work blast-off into space.

Veterinary technology students Jennifer Redfield and Natalie Rortvedt have accepted employment with NASA to prepare research rats for the 16-day Columbia space shuttle mission scheduled for January. The students will work at the Animal Care Facility of the Kennedy Space Center, Cape Canaveral, Fla., for about two months.

"This is a once in a lifetime opportunity for them," said Thomas Colville, director of the Veterinary Technology Program in the Department of Animal and Range Sciences. "They are breaking new ground, because nobody from our program has ever worked at the Kennedy Space Center before."

The students will care for approximately 200 rats in a sterile, clean room environment, eventually selecting only a few of the best animals for the mission. Many of their duties will be explained to them upon their arrival, but the students know they will tend to the animals' health and medication needs, prepare cages for zero gravity and conduct some post-mission work with the seven rats chosen for cell development experiments aboard the shuttle.

"We want to send only perfect rats up in the shuttle, that's why we are starting with so many," explained Rortvedt, a junior and the daughter of Eldon Rortvedt, Plaza, N.D., and Becky Rortvedt, Minot, N.D. She notes that the students will work with six full-time animal care workers and a team of researchers.

"I am more shocked than anything," Rortvedt said of being selected for the job. "It's hard to realize that somebody from Plaza, N.D., could go work for NASA. This is a major step in my career and I hope I'll learn more about the research field."

Redfield, the daughter of Peder and Kathy Redfield, Moorhead, Minn., explained her emotions this way. "I am just excited; I don't even know how to explain what this means to me. It's a wonderful opportunity, something that would have been hard to pass up," she said.

"For me, the hands-on research experience will be important," the senior said. "I like rats—they're nice animals, I think. But, I really don't have that much experience with rats."

The students' employment with NASA is a partial fulfillment of their required veterinary technology externship. "Most students do externships in veterinary practices. Some students go further afield, like a zoo or a research lab," Colville explained. "These two students are outstanding individuals, and they were ready to do something different, something on the cutting edge."

The opportunity arose out of ongoing conversations between Colville and Dr. Alexander Dunlap, chief veterinary officer for NASA. The two men met in May 2000 when Dunlap came to NDSU to give a Hot Zone presentation. Dunlap mentioned the employment possibilities to Colville, but it was then up to the students to go through the screening process and the job interviews.

"They earned this on their own. They are top-notch," said Colville. "They are part of a fairly elite group, because this is a selective professional program. We're one of the leading veterinary technology programs in the country, and this is another way we are demonstrating that.

"For two of our students to be involved in the space program is a big step up," he said. "These students are really helping to pave the way for others to follow."

The idea of being trailblazers appeals to the women. They smile widely at the thought that their NASA experience might be the first of many for NDSU veterinary technology students. "We are opening doors, and I like being a leader," said Rortvedt, who leaves for Florida on Dec. 22.

"It does make you feel kind of important, at least for the time being," added Redfield, who departs on Dec. 14.

As an added benefit, the students, perhaps some family members, Colville and Amy Ellwein, veterinary technology instructor, will get prime seats to watch the Columbia's launch, scheduled for Jan. 16.

The lift-off will be a moment they won't forget. "I'll be thinking that we helped get that going," said Redfield with pride.

Chenoweth retirement open house set

A retirement open house honoring Richard Chenoweth, special assistant to the vice president for academic affairs, is scheduled for 2-4 p.m. Monday, Dec. 16, in the Memorial Union Rose Room.

Chenoweth joined NDSU in 1978. He has held a number of positions at the university, including director of Summer School, director of the Division of Continuing Education, associate dean of the College of University Studies and lecturer in the Department of History.

He came to campus from Dakota Wesleyan University, Mitchell, S.D., where he was an associate professor of history and government, director of Community Education and director of Regional Studies and Older American Studies. He previously was an assistant professor of history and government at Freeman Junior College, Freeman, S.D.

Chenoweth earned his bachelor's degree at Concordia College, Moorhead, Minn.; his master's degree at the University of South Dakota, Vermillion; and his doctorate at the University of Nebraska, Lincoln.

Born on a farm near Birchdale, Minn., Chenoweth and his wife, June, have two children.

Events

Distance and continuing education to offer 'The Leader Within' satellite presentation

The Office of Distance and Continuing Education is set to sponsor a live satellite presentation of "The Leader Within: Leadership Applications from Dr. Martin Luther King for 2003 and Beyond," scheduled for 10 a.m.-3 p.m. Thursday, Jan. 16, at the Best Western Kelly Inn, Fargo, and the Best Western Seven Seas, Mandan. The five-hour leadership program offers participants an opportunity to hear King's legacy of courage and conviction firsthand from his widow, Coretta Scott King.

Other confirmed speakers include Drew Pearson, president of Drew Pearson Enterprises, former team member of the Dallas Cowboys and NFL Hall of Fame nominee; Ron Archer, author of "Dunamis: Transcendent Leadership Power for the 21st Century," and values coach to the Office of the Presidential Pilot, Air Force One; Fred Kleisner, chair and chief executive officer of Wyndham Hotels and Resorts; Hattie Hill, author of "Culture Competent Leadership," and chief executive officer and founder of Hattie Hill Enterprises; Dave Whitney, president and chief executive officer of the Dallas Convention and Visitors Bureau; Alice Rodriguez, executive vice president of J P Morgan Chase and Co.; Ellen Castro, author and faculty member of the Business Leadership Center at Southern Methodist University, Dallas; and LaDonna Gatlin, speaker, singer, entertainer and sister of the Gatlin Brothers singing group. An executive panel discussing diverse leadership applications also is scheduled.

NDSU students may receive one credit for attending the event.

The conference fee is \$99 for NDSU employees and \$35 for full-time students. The fee for other attendees is \$149 with discounts given for larger groups. Attendees are responsible for their own lunch.

Registration is available online at www.ndsu.edu/DCE, by calling 1-5376 or (800) 726-1724, or by sending e-mail to Cynthia.Lura@ndsu.nodak.edu. Registrants should include the location when registering. A \$20 fee will be assessed per person for cancellations received prior to the start of the program and no refunds will be made after Jan. 6.

Qualified individuals with disabilities requiring special accommodations should notify the Office of Distance and Continuing Education at 1-7015 one week prior to the event.

Professional development seminar on high-risk college drinking scheduled

The Office of Orientation and Student Success has scheduled Prime for Life!, a two-day professional development course designed to address high-risk drinking on college campuses for Tuesday, Jan. 7, and Wednesday, Jan. 8, in the Memorial Union Meadowlark Room. Tuesday's session is set for 9 a.m.-1 p.m. with complimentary lunch provided. Wednesday's session is set for 9 a.m.-noon. Participants should plan to attend both sessions.

NDSU currently uses the Prime for Life curriculum with students who violate the university's alcohol and drug policy. The program is aimed at reducing the risk of students experiencing any type of alcohol- or drug-related problem at any point in life.

Participants can expect to learn how to better equip themselves to help students deal with issues of alcohol and alcoholism, understand risk factors for developing alcoholism, learn low-risk guidelines for avoiding alcoholism and alcohol-related impairment problems and receive information on the latest research on alcohol and its impact.

Faculty and staff who work with college students, family members of college students and supervisors who want to help employees with alcohol-related problems should participate. There is no charge for the course. Anyone wishing to attend should RSVP by Tuesday, Dec. 31, to Nancy Mueller, student service coordinator in Orientation and Student Success, at 1-8379 or nancy.mueller@ndsu.nodak.edu.

Summer orientation and registration dates set

The Office of Orientation and Student Success has scheduled the 2003 summer orientation and registration sessions. The purpose of the sessions is to acquaint students with the NDSU campus and university life and register for fall semester classes.

An overnight honors orientation session, designed for students who have an ACT score of 31 or higher and are receiving Presidential and National Merit Scholarships, and those who have been accepted into the university Honors Program, is scheduled for June 12-13.

A one-day transfer orientation session is scheduled for June 23. Freshmen and family overnight sessions are scheduled for June 24-25, June 25-26 and June 26-27. One-day freshmen and family sessions are scheduled for July 8, July 9 and July 10.

For more information, contact the Office of Orientation and Student Success at 1-8379.

Shorts and Reminders

Venette, Sellnow article published

"Media Use, Information Seeking and Reported Needs in Post Crisis Contexts," an article by Steven Venette, lecturer in communication, and Timothy Sellnow, professor of communication, has been published in the book "Communication and Terrorism: Public and Media Response to 9/11."

Reminder for administering finals to students with disabilities

Instructors are reminded that there are guidelines for administering final examinations to students with disabilities. Instructors are responsible to make arrangements for pick up and delivery of examinations, and to provide double copies of examinations to Disability Services. For more information, contact Disability Services at 1-7671.

Union Food Court specials for Dec. 11-18

Soup of the day

Wednesday: chicken tortilla and broccoli cheese

Thursday: turkey rice and baked potato

Friday: beef noodle and tomato

Monday: California medley cheese and vegetable beef

Tuesday: cream of potato and chicken noodle

Wednesday: minestrone and cream of broccoli

The Corner Deli

Wednesday: All-American

Thursday: pastrami

Friday: roast beef

Monday: chicken

Tuesday: turkey

Wednesday: roast beef

A La Carte

Wednesday: chicken lasagna

Thursday: hand-carved turkey

Friday: beef stroganoff

Monday: meat lasagna

Tuesday: hot roast beef sandwich

Wednesday: pepper steak

Pizza Express

Wednesday: creamy garlic chicken
 Thursday: Tuscany
 Friday: once around the kitchen
 Monday: Hawaiian
 Tuesday: farmhouse
 Wednesday: meatball

The Union Grab and Go

Wednesday: beef teriyaki
 Thursday: grilled chicken alfredo
 Friday: Swedish meatballs
 Monday: broasted chicken
 Tuesday: sweet and sour chicken
 Wednesday: roast beef

Items are subject to change without notice. Call the Dining Services Lunch Line at 1-9501 to check out all of our daily specials. Questions or comments may be dropped in the suggestion boxes located in each dining center and the Union Food Court or call Kristina at the Union Buffet at 1-8122.

Positions Available

Positions open and screening dates through the Office of Human Resources, Room 205, Old Main:

Administrative Secretary/#220

History

\$21,000+/year

Dec. 5 (internal); Dec. 12 (external)

Administrative Secretary/#853/#1318/#4266

Plant Sciences

\$20,000+/year

Dec. 17

Heating Plant Operator (Entry Level)

Full-time, seasonal position; seven months; rotating shifts

Physical Plant

\$9.50+/hour

Open until filled

Research Specialist/#4949

Plant Sciences

\$25,000+/year

Dec. 16

Sign Language Interpreter/Student Services
 (Hours negotiable)

Mathematics/Financial Aid

Salary commensurate with education/experience

Dec. 11

Director/#546

International Programs

Salary commensurate with experience

Jan. 20

Licensing Associate

Sponsored Programs/Research Foundation

Competitive and commensurate with education and experience

Jan. 31

Position openings also are available through the NDSU Web site at www.ndsu.edu/jobs.

Research Opportunities

The Office of Sponsored Programs Administration announces the following funding opportunities and deadlines. Refer to the Web site or contact person provided with each listing for more information. For other grant opportunities, see www.ndsu.nodak.edu/research/funding/ or conduct an online funding search via SPIN, available at www.ndsu.nodak.edu/research/funding/spinplus.shtml.

Major Research Instrumentation

The National Science Foundation's Major Research Instrumentation Program (MRI) is designed to increase access to scientific and engineering equipment for research and research training in United States academic institutions. The program seeks to improve the quality and expand the scope of research and research training in science and engineering, and to foster the integration of research and education by providing instrumentation for research-intensive learning environments. The MRI program encourages the development and acquisition of research instrumentation for shared use across academic departments, among research institutions and in concert with private sector partners. It assists in the acquisition or development of major research instrumentation by institutions that usually is too costly for support through other NSF programs. The maintenance and technical support associated with these instruments also is supported. Proposals may be for a single instrument, a large system of instruments or multiple instruments that share a common or specific research focus. There are revised cost share requirements for non-doctorate granting institutions. Awards for instrumentation will range from \$100,000 to \$2 million. Proposals requesting funding at the low end of the range tend to have a higher funding rate than proposals at the high end. The average MRI award amount for the period FY1997-FY2002 was approximately \$312,000. Proposals are due annually on the fourth Thursday in January. More information is available at www.nsf.gov/pubsys/ods/getpub.cfm?nsf01171.

Collaborations in Mathematical Geosciences (CMG)

The National Science Foundation's Division of Mathematical Sciences (DMS), a division of the Directorate for Mathematical and Physical Sciences, and the Directorate for Geosciences (GEO), expects to make available a number of awards in fiscal year 2003 supporting the activities of groups of investigators working at the frontiers of mathematical geosciences. They also anticipate making one or two awards promoting cross-disciplinary graduate student training in mathematical geosciences. The purposes of the CMG activity are to enable collaborative research at the intersection of mathematical sciences and geosciences, and to encourage cross-disciplinary education through summer graduate training activities. The collaborative research topics should fall within the themes of either mathematical and statistical modeling of large, complex geosystems; or the representation of uncertainty in geosystems. Research projects supported under the activity should be essentially collaborative in nature. Proposals are due Thursday, Feb. 20. Visit www.nsf.gov/pubsys/ods/getpub.cfm?nsf03508 for more information.

Sensing, communication, information and control technologies

The U.S. Department of Energy invites applications for research and development in and demonstration of the Advanced Communications and Controls Program. The program's objective is to demonstrate sensing, communication, information and control technologies that achieve a seamless integration of

multi-vendor, distributed energy resources units at aggregation levels that meet individual user requirements for facility operations, including residential, commercial, industrial and manufacturing, and further serve as resource options for electric and natural gas utilities. The DOE intends to award up to six cooperative agreements for Phase I projects. Total funding for Phase I is estimated to be \$1.2 million, with an estimated six-month project duration. A 20 percent minimum non-federal cost-share of the total proposed costs for Phase I is required. Any nonprofit or for profit organization, institution of higher education and non-federal agency or entity may apply. Applications are due by Friday, Jan. 31. More information is available at a257.g.akamaitech.net/7/257/2422/14mar20010800/edocket.access.gpo.gov/2002/02-28653.htm

Creation, development, and evaluation of health information

The National Institute on Deafness and Other Communication Disorders (NIDCD) invites applications that investigate the creation, development and evaluation of health information in one or more mission areas of the NIDCD including hearing, balance, smell, taste, voice, speech or language. Projects should be based on current health communication theory and directed to address issues in disease prevention and health promotion. The institute's goal is improved public information based upon scientific discovery. Approximately \$750,000 in total costs will be available for this initiative in fiscal years 2004 and 2005, and that up to three awards will be made for each of the two submission rounds. Applications should be from interdisciplinary teams that include both health communication experts and scientists knowledgeable in normal and disordered processes of human communication. Nonprofit and for-profit organizations; public or private institutions, such as universities, colleges, hospitals and laboratories; units of state and local governments; eligible agencies of the federal government; domestic institutions; and faith- or community-based organizations are eligible to apply. Optional letters of intent are due by Tuesday, Jan. 14, and applications are due by Friday, Feb. 14. Visit <http://grants.nih.gov/grants/guide/rfa-files/RFA-DC-03-001.html> for more information.

Calendar

December

- Through Dec. 19 Juried student art exhibit, Memorial Union Gallery. Reception 4-6 p.m. Wednesday, Nov. 20.
- Through Dec. 20 Baccalaureate exhibition—Andrew Rising, Reineke Visual Arts Gallery. Reception 1:30 p.m. Sunday, Dec. 8.
- Through May 1 "Down to Earth; Photographs of North Dakota," exhibit by Dan Koeck, photographer in publications services, President's Gallery, Old Main. Reception 4 p.m., Wednesday, Dec. 11.
- 11 Information technology open forum, 8:30-10:30 a.m., Memorial Union Ballroom
- 11 USDA-ARS—Mark Liebig, Northern Great Plains Research Laboratory soil scientist, "Soil Management Research at the USDA-ARS Northern Great Plains Research Laboratory," 3 p.m., Walster 220

- 11 Physics—Feng Hong, graduate student, "Application of Laser Desorption and Photoemission to Ion Mobility Spectroscopy for Detection of Explosives: A Proposal," 4 p.m., South Engineering 208
- 11 Men's basketball vs. the University of Minnesota, Crookston, 7 p.m., Bison Sports Arena
- 11 Gold Star Concert Band and wind ensemble concert, 7:30 p.m., Festival Concert Hall. Tickets are \$5 for adults and \$2 for children, students and seniors.
- 12 SNDEA book fair, 9 a.m.-4 p.m., E. Morrow Lebedeff 270
- 12 Entomology—Tom Baker, Iowa State University, "Science with Practice: Insect Olfaction and Applied Neuroethology," 1 p.m., Northern Crop Science laboratory large conference room
- 13 SNDEA book fair, 9 a.m.-noon, E. Morrow Lebedeff 270
- 13 Last day of classes
- 13 Printmaking and ceramic sale, noon-6 p.m., art building
- 13 Animal and range sciences—Adele Gelvin, graduate student, "Effect of Creep Feed on Forage Intake of Beef Calves Grazing Native Range," 3 p.m., Hultz 104
- 13 History—Ineke Justitz, associate professor of history, "Bridge Over Troubled Waters: A Symbolic Exploration of an Act of Vandalism," 3 p.m., Minard 407
- 13-14 Women's basketball hosts the Comfort Inn Classic, 5:30 p.m. and 7:30 p.m., Bison Sports Arena
- 14 Men's basketball vs. Minnesota State University Moorhead, 1 p.m., Bison Sports Arena
- 15 Winter choral and brass ensembles concert, 2 p.m., Festival Recital Hall. Tickets are \$5 for adults and \$2 for children, students and seniors.
- 16 USDA-ARS—Scott Mills, Purdue University, "Beta Adrenergic Receptors and Animal Growth," 1:30 p.m., Biosciences Research Laboratory large conference room
- 19 Entomology—Terry Adams, USDA-ARS (retired), "Paleocene Flora of North Dakota," 1 p.m., Northern Crop Science laboratory large conference room
- 19 Women's basketball vs. Minnesota State University Moorhead, 6 p.m., Bison Sports Arena
- 19 Men's basketball vs. Mayville State University, 8 p.m., Bison Sports Arena
- 20 Commencement, 4 p.m., Fargodome
- 21 Women's basketball vs. Valley City State, 1 p.m., Bison Sports Arena
- 21 Men's basketball vs. Valley City State, 3 p.m., Bison Sports Arena
- 25 Christmas Day; university closed

January

- 10 Women's basketball vs. South Dakota State, 6 p.m., Bison Sports Arena
- 10 Men's basketball vs. South Dakota State, 8 p.m., Bison Sports Arena
- 11 Women's basketball vs. Minnesota State University, Mankato, 6 p.m., Bison Sports Arena
- 11 Men's basketball vs. Minnesota State University, Mankato, 8 p.m., Bison Sports Arena
- 12 Wrestling vs. University of Northern Colorado, noon, Bison Sports Arena
- 14-Feb. 2—Theater design and technology exhibition, Reineke Visual Arts Gallery. Reception 7:30 p.m., Saturday, Jan. 18. Call 1-8360 for more information.
- 18 Women's basketball vs. UND, 6 p.m., Grand Forks
- 24 Wrestling vs. South Dakota State, 7:30 p.m., Bison Sports Arena
- 26 NDSU faculty brass quintet concert, 2 p.m., Beckwith Recital Hall. Free.
- 28 Wrestling vs. Augsburg College, time to be announced, Bison Sports Arena
- 31 Women's basketball vs. University of South Dakota, 6 p.m., Bison Sports Arena
- 31 Men's basketball vs. University of South Dakota, 8 p.m., Bison Sports Arena

February

- 1 Women's basketball vs. University of Northern Colorado, 6 p.m., Bison Sports Arena
- 1 Jazz Festival Concert, 7 p.m., Festival Concert Hall. Tickets are \$5 for adults, and \$2 for children, students and seniors.
- 1 Men's basketball vs. University of Northern Colorado, 8 p.m., Bison Sports Arena
- 4-26 Eric Johnson and Jay Pfeifer exhibition, Reineke Visual Arts Gallery. Reception 7:30 p.m. Saturday, Feb. 8. Call 1-8360 for more information.
- 6 Women's basketball vs. Augustana, 6 p.m., Bison Sports Arena
- 6 Opera workshop performance, 7:30 p.m., Beckwith Recital Hall. Free.
- 6 Men's basketball vs. Augustana, 8 p.m., Bison Sports Arena
- 7 Theater—"Dramaturgical Theatre Experience," 8 p.m., Beckwith Recital Hall. Tickets are \$2.
- 12 Wrestling vs. Northern State, 7 p.m., Bison Sports Arena
- 20 Women's basketball vs. University of Nebraska-Omaha, 6 p.m., Bison Sports Arena
- 20 Chamber Music Recital: Andy Froelich, professor of music, 7:30 p.m., Beckwith Recital Hall. Free.
- 20 Men's basketball vs. University of Nebraska-Omaha, 8 p.m., Bison Sports Arena

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