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UNIVERSITY LETTER

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UNIVERSITY OF NORTH DAKOTA, GRAND FORKS

Volume 38, Number 14: December 1, 2000

Faculty Members Encouraged To March In Winter Commencement

UND faculty members are invited to march in academic regalia in the Winter Commencement ceremony **Friday, Dec. 22**, in the Chester Fritz Auditorium. Faculty should assemble in the lower level of the Auditorium by 1:30 p.m. University marshals will be on hand to direct participants to their places in the procession. Commencement will begin at 2 p.m. with faculty members seated on stage during the ceremony.

Please contact Sherri Korynta in the Office of the Vice President for Student and Outreach Services at 777-2725 by Wednesday, Dec. 20, or send an e-mail to sherri_korynta@mail.und.nodak.edu if you plan to participate so that the appropriate number of seats can be reserved.

I encourage participation by faculty members to help make this a memorable occasion for our graduates, their families, and friends. –
Charles Kupchella, President.

Frozen Four Champions Visit White House

The UND 2000 NCAA National Championship hockey team and University representatives will visit the White House on **Thursday, Nov. 30**, to celebrate the team's 2000 season title. North Dakota Sen. Byron Dorgan, Sen. Kent Conrad and Rep. Earl Pomeroy secured the invitation for the team's visit with President Clinton. Northwest Airlines contributed 15 roundtrip tickets for the Frozen Four Champions visit to the White House at the request of Gov. Ed Schafer. The delegation representing the University will meet with President Clinton in the Roosevelt Room at the White House Thursday.

"We're thrilled that players from our championship team and staff will have the honor of visiting the White House and meeting with President Clinton. It's great to have the accomplishments of such a hard-working team recognized, especially by the President of the United States," said Roger Thomas, director of athletics.

The delegation attending the White House celebration on behalf of the University of North Dakota championship hockey team includes: Sen. Byron Dorgan, Sen. Kent Conrad; Rep. Earl Pomeroy; President

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Strategic Plan Update

You're invited to take part in UND's Strategic Planning Process:
www.und.edu/stratplan.

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Frozen Four Champions Visit White House, continued

Charles and Adele Kupchella; head hockey coach Dean Blais and his wife Wendy Blais; members of the 2000 championship team and current seniors Karl Goehring (goaltender) and Jeff Panzer (center); members of the 2000 championship team including Peter Armbrust, Jason Ulmer, Lee Goren, Mike Commodore, Tim O'Connell, and Brad DeFauw; director of athletics Roger Thomas; associate athletics director Paul Collins; Alumni Association and Foundation executive vice president Bob Fiedler; Alumni Association and Foundation development officer Jeff Bowen; and hockey public address and official scorer Scott Hennen.

The North Dakota hockey team won the NCAA Division I hockey title with a 4-2 win over Boston College on April 8, in Providence, R.I. North Dakota finished the 2000 season 31-8-5. It was the seventh national hockey championship title for UND and the second title under Coach Blais. Previous titles were won in 1997, 1987, 1982, 1980, 1963, and 1959.

This is the first time a University of North Dakota championship hockey team has had the opportunity to visit the White House. – *UND Athletics.*

Reception Will Honor Carnegie Professor Tom Owens

A reception will be held to honor Tom Owens (Chemical Engineering), who has been named Carnegie Professor of the Year for North Dakota **Wednesday, Dec. 13**, from 2:30 to 4 p.m. in the J. Lloyd Stone Alumni Center. Please help us celebrate Tom's achievement. – *John Ettling, Provost.*

Volunteers Needed To Serve As "Green Jackets" For Winter Commencement

Your help is requested for Winter Commencement 2000 which will be held **Friday, Dec. 22**, at the Chester Fritz Auditorium. "Green Jacket" volunteers assist by seating guests, helping organize our graduates, and greeting campus visitors who attend the ceremony.

Commencement begins at 2 p.m. and all volunteers are asked to report to the lower level of the Chester Fritz Auditorium by 12:30 p.m. for a short briefing and to receive their assignments. We anticipate that commencement will conclude by approximately 3:30 p.m.

Please contact Sherri Korynta in the Office of the Vice President for Student and Outreach Services at 777-2725 or e-mail her at sherri_korynta@mail.und.nodak.edu by **Friday, Dec. 15**, to let us know if you will be able to participate. Please feel free to call if you have any questions. – *Fred Wittmann, Office of the Vice President for Student and Outreach Services.*

Events to Note

Omer Larson Will Discuss Human Parasitism

The Biology Department will hold a seminar **Friday, Dec. 1**, at 4 p.m. in 141 Starcher Hall. Omer Larson (Professor Emeritus, Biology) will present "Human Parasitism Encountered in a University Community: The Expected and the Exotic." – *Anne Gerber, Biology.*

Century Of Quantum Mechanics Will Be Colloquium Topic

A Physics colloquium is set for 4 p.m. **Friday, Dec. 1**, in 209 Witmer Hall. "100 Years of Quantum Mechanics" will be presented by Henn Soonpaa, Professor Emeritus, Department of Physics.

The dividing line between classical and modern physics is generally taken to be the line between pre-quantum mechanics and post-quantum mechanics. The 10-page article which changed the history was written by Max Planck in 1900, published in 1901, titled "Über das Gesetz der Energieverteilung im Normalspektrum," *Ann. D. Phys.* (4) 4, 553-563, 1901. The ideas and formulae advanced by Planck have been analyzed and rederived by many, but in this presentation Dr. Soonpaa will try to move us back to the times of Planck, working with the published state of knowledge 100 years ago. In just one article Planck introduced the ideas that:

- Light is propagated in quanta of energy $E=h\nu$, h being the Planck's constant of action.
- There is a constant k , which later became to be known as the Boltzmann constant k_B .
- That energy and entropy are absolute values rather than differences between initial and final values. That predates the third law of thermodynamics, which now is attributed to Nernst's 1906 work.
- Derived the distribution law, which is known as the Bose-Einstein distribution nowadays. Using these statistics Planck was the first one to apply quantitative statistical mechanics to a physics problem.

In this presentation the main emphasis will be on Planck's original publications and on his later explanations of the more controversial ideas.

Coffee and cookies will be served at 3:30 p.m. in 215 Witmer Hall. – *Department of Physics.*

Benediktson Lecture Series In Astronomy Will Feature "A Human-Dominated Planet"

George Seielstad (Associate Dean, Odegard School of Aerospace Sciences) will be the featured lecturer on "A Human-Dominated Planet" to be held **Saturday, Dec. 2**, at 10:30 a.m. in the Clifford Hall Auditorium.

"A Human-Dominated Planet" is part of the Benediktson Lecture Series in Astronomy and is made possible by the Benediktson Endowment and the UND Alumni Foundation which administers it. During his presentation, Dr. Seielstad will explain how and why between one-third and half of Earth's land surface has been transformed by humans. Much of the land that has not been transformed has been divided into fragments by human alteration of surrounding areas. Every breath one inhales today takes in 30 percent more carbon dioxide than our ancestors breathed at the start of the Industrial Revolution. More nitrogen drawn from the atmosphere is "fixed" into plants by humans than by all natural processes. More than half of all fresh surface water is put to use by people. About one-quarter of all bird species are extinct as a result of human actions. Nearly every measure indicates that we humans, one species among 10-50 million, dominate the planet.

Humans are gifted, however, when compared with the multitude of other species. We alone can foresee the consequences of our actions. We can help create a future that both fulfills our hopes and protects the health of the planet. To do so, we must accept the responsibility
(next page)

Benediktson Lecture Series, continued

that comes with the powers humanity has accumulated to transform a planet. Nature had 4.5 billion years before us to perfect a livable world. Our understanding of that world pales before our ability to change it. We owe it to our descendants to ensure a future world both livable and rich in its wonders.

Additional information about the lecture series is available from Suezette Bieri at 777-4856. The Benediktson Endowment and Chair in Astrophysics was created by Oliver L. Benediktson, a Mountain, N.D., native and a 1930 UND graduate. He created a 1.5 million bequest to establish the Endowment within the UND Foundation. The endowment provides funding to establish the Benediktson Chair in Astrophysics at UND's Odegard School of Aerospace Sciences. Benediktson died in 1996 in Long Beach, Calif. – *Odegard School of Aerospace Sciences.*

Umbrellas Provide Inspiration For Children's Art Workshop

On **Saturday, Dec. 2**, from 1 to 3 p.m., children ages 6-12 and their parents/guardians are invited to create their own art umbrella in a Saturday Art Workshop titled "Under the Art Umbrella." This workshop is inspired by Gunnar Torvund's work "Thought House (Helmet)" in the exhibition "Between Space and Time: Contemporary Norwegian Sculpture and Installation."

Attendees are asked to bring an old umbrella to make into an artwork or an additional \$5 donation to cover the expense of an umbrella for each child. With each umbrella open, participants have the opportunity to glue, tape, and hang thrift store items under the umbrella as Torvund has in his "Thought House (Helmet)." Through the collaboration of child and parent or guardian, workshop leader Morgan Owens hopes the participants enjoy creating a story out of the close relationships of the hanging objects under their umbrella.

Visit the Museum web site at www.ndmoa.com to preview the Between Space and Time exhibition. Parents and guardians are encouraged to participate in workshops as intently as their children.

Saturday Art Workshops are hands-on studios for children ages 6-12 and their parents/guardians to create together in the Museum. Participants will look at and talk about the artwork displayed in the Museum, then create their own works inspired by what they see and discuss. Participants must have reached the minimum age listed for the workshops. All materials will be provided. Tuition for Museum members is \$7 for each child, \$10 for each child for non-members. Call the Museum for registration information. Visit the Museum web site at www.ndmoa.com to preview Between Space and Time.

Saturday Art Workshops continue on **Jan. 6, Feb. 3, and March 3**. Call the Museum for more information.

Join the Museum for other activities such as the Concert Series, Family Days, Writers and Readers Series, Looking at Art for Teachers, Looking at Art for Members and Volunteers, Looking at Art with Artists, Children's Holiday Art Workshops, and Art Odyssey Seminars for Adults.

The North Dakota Museum of Art is on Centennial Drive on the campus of the University of North Dakota. Hours are 9 a.m. to 5 p.m. Monday through Friday and 1 to 5 p.m. Saturday and Sunday. There is no charge for admission. – *North Dakota Museum of Art.*

Newman Forums Continue

The St. Thomas Aquinas Newman Center invites you to the year's third Newman Forum Night **Sunday, Dec. 3**, at 7 p.m. Fr. Gregory J. Schlesselmann will present "Only One Way to God: How is That Possible?" followed by a question and answer discussion. Fr. Schlesselmann is director of the Office of Catholic Education and Formation, Diocese of Fargo. – *Newman Center.*

Scientist Will Discuss Geothermal Systems, Development

LEEPS (Leading Edge of Earth and Planetary Sciences) lectures will be presented by Ken Wisian, Department of Geological Sciences, Southern Methodist University, Dallas, Texas. He will present two lectures in Leonard Hall on **Monday, Dec. 4**:

At noon he will discuss "Where's the Heat? - Geothermal Development in the Western U.S." in the Leonard Hall Lecture Bowl (Room 100).

At 2 p.m. he will consider "Numerical Modeling of Basin and Range Geothermal Systems" in 215 Leonard Hall.

Dr. Wisian is a staff scientist at the Southern Methodist University Geothermal Laboratory. His academic career includes a B.A. in Physics from the University of Texas-Austin, an M.S. in Geology from Centenary College and a Ph.D. in Geophysics from Southern Methodist University. He is a major in the U.S. National Guard, a graduate of the U.S. Air Force Test Pilot School, and was a finalist for NASA's astronaut training program in 1999.

The LEEPS lecture series is supported by the Office of Vice President for Academic Affairs and Provost and the Department of Geology and Geological Engineering. All interested persons are welcome to attend. – *Richard LeFever, Chair, Geology and Geological Engineering.*

Museum Café Opens Monday

The Café at the North Dakota Museum of Art will open **Monday, Dec. 4**. Hours are Monday through Friday with coffee service from 9:30 a.m. to 4:30 p.m. and lunch service from 11:30 a.m. to 2 p.m. Lunches by Sam Pupino will feature Italian cooking, vegetarian meals, beef, ham, chicken, chef salad, vegetarian chef salad, home-made soup, fresh baked goods, specialty coffees and desserts.

A conference room may be reserved for up to 12 people for lunch meetings. British high tea is also available with reservations for two to 10 people from 2 to 4:30 p.m. Call 777-4195 for more information. – *Sam Pupino, Manager, Museum Cafe.*

Bands Are In Concert Dec. 5

The UND Wind Ensemble and University Band will present a concert **Tuesday, Dec. 5**, at 7:30 p.m., at the Empire Arts Center. Tickets for the event are \$5 for adults and \$2 for students, and are available at the door. All high school and middle school students will be admitted free of charge with the presentation of their student ID card.

Both ensembles will be conducted by James Popejoy, Director of Bands. In honor of the 100th anniversary of Aaron Copland's birth, the Wind Ensemble will perform the only work he originally wrote for band. "Emblems," composed on a commission from the College Band Directors National Association in 1964, is an exciting and challenging work. They will also perform Ron Nelson's "Courtly Airs and
(next page)

Bands Are In Concert Dec. 5, continued

Dances," based on Renaissance music from the 1500s; and "Slava!" written by Leonard Bernstein for his good friend, cellist Mstislav Rostropovich, for his first season as conductor of the National Symphony Orchestra. Graduate Teaching Assistant Wendy McCallum will guest conduct the Wind Ensemble in a performance of Clifton Williams "Symphonic Dance No. 3 'Fiesta.'"

The University Band's program will include Soichi Konagaya's festive "Star Puzzle March" and Larry Daehn's wonderful arrangement, "Themes from 'Green Bushes,'" which uses material from the classic Percy Grainger tune. Mrs. McCallum will conduct the band in performances of "Tryptich II" by Elliot Del Borgo, and the always fun "Lassus Trombone," written by Henry Fillmore in 1915.

For additional information concerning this performance, please contact the Band Department at 777-2815. – *James Popejoy, Director of Bands.*

Metallocenter Biosynthesis Will Be Focus Of Talk

The Department of Biochemistry and Molecular Biology will present a seminar, "Metallocenter Biosynthesis in Urease: More than a Nickel's Worth," by Robert P. Hausinger, Professor of Biochemistry at Michigan State University. It will be held at noon **Wednesday, Dec. 6**, in 5510 School of Medicine and Health Sciences.

Dr. Hausinger received his B.S. from the University of Wisconsin in 1977, and his Ph.D. from the University of Minnesota in 1982. He is currently exploring structure-function relationships in bacterial ureases as well as enzymes that degrade chloroaromatic compounds. – *David Lambeth, Biochemistry and Molecular Biology.*

Doctoral Examination Set For Patricia Groven

The final examination for Patricia Louise Groven, a candidate for the Ed.D. degree with a major in Educational Leadership, is set for 12:30 p.m. **Wednesday, Dec. 6**, in Room 208, Education Building. The dissertation title is "Parents' Perceptions of Their Involvement in Selected North Dakota Public Schools." Gerald Bass (Educational Leadership) is the committee chair.

Members of the Graduate Faculty are invited to attend. – *Carl Fox, Interim Dean, Graduate School.*

Flu Shots Now Available

The following flu shot clinics are being offered by Student Health Services:

For all UND students, shots will be administered **Wednesday, Dec. 6**, from 10:30 a.m. to 3:30 p.m. at the Student Organization Center, Memorial Union.

For UND employees, shots will be administered **Friday, Dec. 8**, at the following times and places: 8 to 9:30 a.m., Odegard Hall Lounge; 10 a.m. to noon, Edna Twamley Room, Twamley Hall; 12:30 to 2 p.m., Room 5006, School of Medicine and Health Sciences; and 2:30 to 4 p.m., Roughrider Room, Energy and Environmental Research Center. – *Sue Bartley, Student Health Services.*

Agenda Listed For Dec. 7 U Senate Meeting

The University Senate will meet **Thursday, Dec. 7**, at 4:05 p.m. in Room 7, Gamble Hall.

AGENDA

1. Announcements.
2. Minutes of the previous meeting and business arising from the minutes.
3. Question Period.

CONSENT CALENDAR:

4. Annual Report of the Senate Continuing Education, Distance Education and Outreach Committee. Don Moen, Chair. (Attachment No. 1)
5. Annual Report of the Senate Legislative Affairs Committee. Robert Kweit, Chair. (Attachment No. 2)
6. Annual Report of the Senate Library Committee. Charles Robertson, Chair. (Attachment No. 3)
7. Annual Report of the Student Policy Committee. Rebecca Urlacher, Chair. (Attachment No. 4)

BUSINESS CALENDAR:

8. Candidates for Degrees in December, 2000. Nancy Krogh, University Registrar. (Attachment No. 5)
9. Senate Executive Committee recommendation for a Senate Bylaws amendment by adding the following language to the end of the present bylaw on Officers:

In the event of any vacancy in the office of Chair, the Vice Chair shall become the Chair. In the event of any vacancy in the office of Vice Chair, the Committee on Committees shall at the next regular meeting of the Senate nominate at least two elected members, the Chair must ask for nominations from the floor, and the Senate shall elect a new Vice Chair from all the nominees.

Randy Lee, Senate Chair. (Attachment No. 6)

10. Recommendations from the Curriculum Committee for New Academic Program Requests; New Academic Program Requests with New Courses; Change of Title of Department, Major, Minor Requests; New Course Requests; Course Deletion Requests; Course Change Requests; and Change in Program Requirement Requests. David Perry, Chair. (Attachment No. 7)

– *Nancy Krogh (Registrar), Secretary of the Senate.*

William Sheridan To Speak On Biology And Modern Poetry

William Sheridan (Biology) will give a talk, "Impressions on Imprinting: Biological Insights in Modern Poetry," in 116 Merrifield Hall **Thursday, Dec. 7**, at 4 p.m. Dr. Sheridan describes "imprinting" as a special form of learning. Animals, including human beings, can "learn" to form a permanent attachment to another individual. Such a bond is not reversible.

A Chester Fritz Distinguished Professor, William Sheridan specializes in genetics and developmental biology of plants. His current research focuses on corn genetics. Sponsored by the English Lecture Series, the presentation is free and open to the public. – *Martha Meek, Coordinator, English Lecture Series.*

NDPEA Reception Will Honor LuAnn Anderson

LuAnn Anderson, Building Services Manager at Memorial Union, School of Medicine and Health Sciences, Barnes and Noble Bookstore, and Era Bell Cultural Center was awarded the 2000 NDPEA Chapter 49 Employee of the Year. LuAnn has been a public employee for 16 years, of which the last 10 years has been with the University of North Dakota.

NDPEA is sponsoring an Open House in her honor **Thursday, Dec. 7**, from 1 to 2 p.m. in the River Valley Room, second floor, Memorial Union. – *Carol Hjelmstad, Computer Center.*

International Programs List Thursday Night Event

The International Centre will hold Costa Rica Night at 7 p.m. **Thursday, Dec. 7**, at the Sharon Rezac Anderson Cultural Room, International Centre, 2908 University Avenue. The event is free and open to all. -- *International Centre.*

UND's Own "Nine & Numb" To Perform Dec. 7

The University Program Council will present Nine & Numb **Thursday, Dec. 7**, at 8 p.m. in the Memorial Union Fireside Lounge. Nine & Numb is a high-energy audience participation comedy improv troupe, made up of UND students from all regions of the world. Nine & Numb will appear free of charge to all UND students and community members. – *Maria Albertson, University Program Council Public Relations.*

Biologist Will Give Seminar

The Biology Department will hold a seminar **Friday, Dec. 8**, at 4 p.m. in 141 Starcher Hall. Chris Beachy, Assistant Professor, Minot State University, will present "Can Life History Evolution Result in Speciation? Behavioral and Morphometric Evidence in the Plethodontid Salamander, *Gyrinophilus Porphyriticus*."

Dr. Beachy has a B.A. from the College of Wooster (1984), an M.S. from Western Carolina University (1988), and earned his Ph.D. from the University of Louisiana, Lafayette in 1992. After completing his doctorate, he spent a year doing postdoctoral research at the Highlands Biological Station in North Carolina, followed by a one-year sabbatical teaching replacement at Jamestown College. He arrived at Minot State University in 1998 after teaching for four years at Clarke College in Dubuque, Iowa. – *Department of Biology.*

Nutcracker 2000 Plays Dec. 8, 9, 10

Nutcracker 2000 will play **Friday, Saturday, and Sunday, Dec. 8, 9, and 10**, at the Chester Fritz Auditorium. Show times are Dec. 8 at 7:30 p.m., Dec. 9 at 3 and 7:30 p.m., and Dec. 10 at 3 p.m. Tickets for adults are \$25 main floor, \$25 mezzanine, and \$15 balcony. Prices for students are \$15 main floor, \$15 mezzanine, and \$7.50 balcony. Tickets are available at the Chester Fritz Box Office, 777-4090, or any ticketmaster outlet, the ticketmaster charge line, 772-5151, or online at www.ticketmaster.com.

For more information, contact the North Valley Arts Council, 746-4732. – *Jan Orvik, Editor, for the North Valley Arts Council.*

Master Chorale, Varsity Bards, Allegro Will Give Holiday Concert

The Grand Forks Master Chorale will be joined by the UND Varsity Bards and Allegro Women's Choir to fill St. Michael's Catholic Church with traditional Christmas music in their holiday concert, "Tidings of Great Joy." The 160 voices under the direction of Susan McMane will perform **Sunday, Dec. 10**, at 7:30 p.m.

Works by J.S. Bach, including his "Magnificat" with orchestra, will be performed to honor the 250th anniversary of the composer's death. Chants, anthems and carols of the season will also be part of the concert. This project is supported in part by a grant from the North Dakota Council on the Arts and by Bremer Bank. – *Grand Forks Master Chorale.*

Plan To Attend Martin Luther King Jr. Awards Luncheon

The annual Martin Luther King Jr. Awards Luncheon will be held at 11:30 a.m. **Thursday, Jan. 11**, in the Memorial Union Ballroom. Attendees must RSVP by **Friday, Dec. 15**. There will be no charge to attendees for this luncheon. To reserve a space, please contact Multicultural Student Services, Box 7092, phone 777-4259, fax 777-4362, or e-mail mc_diop@mail.und.nodak.edu, or linda_skarsten@mail.und.nodak.edu – *M.C. Diop, Multicultural Student Services.*

Retired Faculty And Staff Invited To Open House

Retired faculty and staff are invited to attend an Open House, **Tuesday, Dec. 12**, at the J. Lloyd Stone Alumni Center from 2 to 4 p.m. If you need transportation, please call us at 777-2611. – *Alumni Association and Foundation.*

Reception Will Honor Chuck Wood

Faculty, staff and students are invited to a farewell reception for Charles Wood, Chair of Space Studies, from 2 to 4 p.m. **Wednesday, Dec. 13**, in the Space Studies Department located on the fifth floor of Clifford Hall. In January, Dr. Wood will leave UND to become Dean of Education at Columbia University's Biosphere II near Tucson, Ariz. – *Suzette Bieri, Space Studies.*

Alumni Association Hosts Holiday Open House For Faculty, Staff

The Alumni Association and Foundation would like to thank you for being a part of our success. Faculty and staff of the University are invited to attend a Holiday Open House at the J. Lloyd Stone Alumni Center, **Tuesday, Dec. 19**, from 3:30 to 5 p.m. – *Alumni Association and Foundation.*

Announcements

Space Studies Professor To Plan Study On Civil Remote Sensing

Joanne Irene Gabrynowicz, Professor and Director of Graduate Studies for Space Studies, has been asked by the National Research Council to help plan a study on remote sensing activities and their impact on U.S. foreign policy. The study was requested by the Oceans and Bureau of International Environmental and Scientific Affairs Division of the U.S. Department of State.

Promoting the potential benefits and managing the risks of new satellite technologies will be the focus of the study. New high-resolution technologies can help the U.S. government manage humanitarian disasters, protect the environment and promote accountability and responsibility in public affairs. At the same time, these technologies can present threats to our national security. High-resolution satellite images could be used to support terrorism, espionage or military aggression and thus must be a national security and foreign policy concern of the United States.

Gabrynowicz was asked to assist in the study after she was invited by the International Institute of Space Law to present a remote sensing law paper titled "Expanding Global Remote Sensing Services: Three Fundamental Legal Considerations" at the Third United Nations Conference on the Exploration and Peaceful Uses of Outer Space in 1999. She is a member of the International Institute of Space Law and has presented her work to that organization as well as the Federal Bar Association, the Association of American Law Schools, the Space Studies Institute, and the Lunar and Planetary Institute. In 1985, Gabrynowicz testified before the National Commission on Space concerning space law. She was a member of the Congress of the United States Office of Technology Assessment Earth Observations Advisory Panel; the International Academy of Astronautics Subcommittee on Return to the Moon of the committee on International Space Plans and Policies; and, the M.I.T. Dewey Library Macro-Engineering Collection Advisory Committee. She was also an advisor for the PBS television show, "Space Worker." – *Odegard School of Aerospace Sciences.*

Center For Peace Studies Invites Membership Nominations

Each year the Center for Peace Studies invites nominations for new membership. Currently about 30 faculty members from more than a dozen departments are members of the Center, which is located in rooms 333-335 O'Kelly Hall. The faculty supervise the program, which includes an undergraduate major under Interdisciplinary Studies in the College of Arts and Sciences. Membership may, but does not necessarily, include teaching additional courses. Please refer to page 136 in the 1999-2000 Catalog. In addition to members, applications for the position of coordinator are sought.

The faculty has been charged with the following responsibilities: 1) to encourage research on issues related to peace, conflict, justice, and global security, and on methods for non-violent social change and conflict resolution; 2) to encourage curricular developments which would better prepare all students to assume the role of responsible citizens in formulating or judging public policies which bear directly on issues of peace and war; 3) to develop a program of studies at the undergraduate level for students who wish to pursue an academic major in Peace Studies; and 4) to promote informational programs to

help the general public become better informed on issues of peace and war.

Any UND staff or faculty member interested in the Center for Peace Studies and its programs, including adjunct faculty status, may contact Janet Kelly Moen, Center for Peace Studies, Box 7136, phone 777-4414, or e-mail janet_moen@und.nodak.edu. The deadline is **Wednesday, Dec. 6**; candidates will be presented to the Peace Studies Faculty who will meet on **Friday, Dec. 8**, at 3:30 p.m. in the O'Kelly lounge. -- *Janet Kelly Moen, Peace Studies Coordinator.*

New Edition Of Space Studies Journal Available

"Quest: The History of Spaceflight Quarterly" (Vol. 8: No. 2), edited by Stephen Johnson (Space Studies), is now available for sale through the Space Studies Department. Articles include "The Psychological and Social Effects of Isolation on Earth and in Space," "The Robot Explorers of Venus (Part II)," "The Foundation of the Max Planck Institute for Extraterrestrial Physics and the Roots of West German Space Research," "A Brief History of the Atlas Rocket Vehicle (Part I)," "A Short Review of Official Spy Satellite Histories," and an interview with former Vice President Walter F. Mondale.

Copies are \$6 each. For further information contact me at 777-4856. – *Suzette Rene Bieri, Space Studies.*

Exam Scoring Software Changes Jan. 1

The Computer Center has recently purchased new software for exam scoring. Our old software has been discontinued. We will start using the new software Jan. 1; the old software will continue to be used until Dec. 31. Because of the new software, the current header and answer sheets will no longer be valid as of Jan. 1. The new forms are available and can be purchased at the bookstore. An instruction booklet is being sent to each department and will also be given out at the Computer Center with each exam scored. You can stop in and pick one up if you'd like.

We ask that you direct all questions and comments to the Computer Center Helpdesk at 777-2222. -- *Computer Center Operations.*

Note Name Change When Depositing Checks

As of Nov. 13, First National Bank North Dakota changed their name to Alerus Financial. Departments currently using check endorsement stamps should order new stamps with the following information:

For Deposit Only
Alerus Financial
Grand Forks, ND
University of North Dakota
"Your Department Name"

Alerus Financial will temporarily continue to accept checks stamped with the First National Bank endorsement stamp. If you have any questions, please contact me at 777-4575. – *Lisa Heher, Cash and Investments Manager.*

Grade Report Forms Available Tuesday

The "Grade Report" forms will be available in the Office of the Registrar for pick-up by the department offices beginning at 9 a.m. **Tuesday, Dec. 5**. The procedures to follow and deadlines will be noted in a memo attached to the report forms. If you have questions, please call 777-2711. – *Veriena Garver, Admissions and Records Officer, Office of the Registrar.*

Law Library Offers Extended Hours For Exams

Law Library extended exam hours are: Friday, Dec. 8, 7:30 a.m. to midnight; Saturday and Sunday, Dec. 9-10, 10 a.m. to midnight; Monday, Dec. 11, through Saturday, Dec. 16, 7:30 a.m. to midnight; Sunday, Dec. 17, 10 a.m. to midnight; Monday, Dec. 18, through Thursday, Dec. 21, 7:30 a.m. to midnight; Friday, Dec. 22 (last day of exams), 7:30 a.m. to 4:30 p.m. – *Cherie Stoltman, Thormodsgard Law Library.*

Studio One Lists Guests

This week on “Studio One,” hairstylist Bridget Lien will share hair cutting tips. Lien will discuss why the proper shears, shampoo, and conditioner are important in both home and salon hair cuts. She will also explain how different face shapes should influence a style and cut.

“Studio One” will also feature a segment about the Grand Forks Festival of Trees, a week-long display of 60 trees, all decorated with different themes for the holidays. Trees are decorated by Boy Scouts, Cub Scouts, and church organizations and donated to needy families after the festival. The event features live holiday music, a toy show, and a visit from Santa Claus.

“Studio One” is an award-winning news and information program produced at the University of North Dakota Television Center. The program airs live at 5 p.m. on UND Channel 3 on Thursdays. Rebroadcasts can be seen at noon, 7 and 11 p.m. daily and on Saturdays at 10 a.m. Prairie Public Television airs “Studio One” on Saturday at 6 a.m. The program can also be seen in Fargo, Bismarck/Mandan, Minot, Minneapolis and Winnipeg, Manitoba. – *Mark Renfandt, Studio One Marketing Team.*

Participants Sought For Research Study

Married couples are needed for a study of parent-child picture book reading. To participate, you must be a parent of a child aged 4 to 5. Each parent will receive \$10 for 30 minutes of participation. Each parent must participate on a separate day. If interested, please contact me at 777-3017. – *Andrea Zevenbergen, Psychology.*

Credit Union Offers Holiday Loan Special

Apply now for University Federal Credit Union’s Holiday Loan Special. You can finance up to \$1,000 at 10 percent APR for a term of 11 months. Loan applications are available at both our locations. Our main office location is in the lower level of the Memorial Union; the Credit Union’s Service Center is located at 3197 S. 17th Street (east of Hugo’s on 32nd Ave. South).

Stop in during our new office hours at our Memorial Union location, Monday through Friday, 9 a.m. to 5 p.m. – *Marnie Kresel, Manager, University Federal Credit Union.*

Grants and Research

Research, Grant Opportunities Listed

Following are research and grant opportunities. For more information, contact the Office of Research and Program Development at 777-4278.

FORD FOUNDATION

Awards support domestic and international projects in education, knowledge, and religion; and media, arts and culture. The education, knowledge and religion unit seeks to enhance educational opportunity, especially for low-income and chronically disadvantaged groups, and to address the challenges of pluralism and diversity using interdisciplinary and collaborative approaches. The media, arts and culture unit seeks to strengthen the arts and media as vibrant and crucial contributors to the communities and societies in which they function. **Deadline:** None. **Contact:** Secretary, 212/573-5000; office-secretary@fordfound.org; http://www.fordfound.org/program/edu_main.cfm.

NATIONAL SCIENCE FOUNDATION (NSF)

The Louis Stokes Alliances for Minority Participation Program (LSAMP) is aimed at increasing the quality and quantity of students successfully completing science, mathematics, engineering, and technology (SMET) baccalaureate degree programs, and increasing the number of students interested in, academically qualified for and matriculated into programs of graduate study. Program goals are accomplished through the formation of alliances which are expected to involve two- and four-year higher education institutions, businesses and industries, national research laboratories, local, state, and Federal agencies. Phase I awards emphasize aggregate baccalaureate production. Phase II awards augment the Phase I emphasis with attention to individual student retention and progression to baccalaureate degrees. Phase III awards augment the Phase I and Phase II emphases with attention to aggregate student progression to graduate school entry. Two to four awards total are anticipated for all three phases. The NSF contribution to a project will not normally exceed \$1,000,000/year. **Contact:** A. James Hicks, Program Director, 703/292-4668; ahicks@nsf.gov; <http://www.nsf.gov>. **Deadline:** 1/31/01.

Social, Behavioral, & Economic Science/ Science & Technology Studies Program (SES/STS) Grants for Collaborative Research support collaborative research or infrastructure projects that deal with the intellectual and social contexts that govern development and use of science and technology. Research and related activities that contribute to systematic understanding of the character and development of science and technology, including their cultural, intellectual, material and social dimensions, are considered. Proposals are welcome from various disciplinary perspectives, including history, philosophy, and the social sciences. Infrastructure projects may involve preparation of reference works, editions of scientific papers, development of data bases and graphics resources for public use, etc. Electronic dissemination of the results of such infrastructure projects should be the norm in STS projects. Support is also considered for conferences, symposia, and research workshops. Expenses for principal investigators are normally covered up to \$60,000 (including fringes and indirect costs) for a full-time academic year of research and \$18,000 maximum per summer for each investigator. The limit for conference support is \$10,000. **Target Dates:** 2/1/01, 8/1/01. **Contact:** Bruce E. Seely, Program Director, 703/292-8763; bseely@nsf.gov; <http://www.nsf.gov/pubs/1997/nsf97142>.

Social, Behavioral, & Economic Science/Science & Technology Studies SES/STS Scholars Awards are provided to individual researchers for research about the intellectual and social contexts that govern the development and use of science and technology. The program supports research on the nature and development of science and technology, both in the past and present, and on differences in the

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Research, Grant Opportunities Listed, continued

nature of theory and evidence in various fields of science and engineering. It also supports research on the interactions among science, technology and society, including such topics as the foundations of scientific and technological knowledge and institutions; relations between science and other social institutions and groups; and processes of scientific and technological innovation and change. Proposals are welcome from various disciplinary perspectives, including history, philosophy, and the social sciences. The purpose of these fellowships is to enhance the methodological skills of researchers, so proposals should contain both research and training components. Requests for conferences and research work-shops will be considered. Awards normally allow up to \$18,000 for partial support of full-time summer research, including salary, fringe benefits and all other direct and indirect costs of research, or up to \$60,000 for partial support of one or more semesters (or quarters) of full-time academic year release time and related direct and indirect research expenses. **Contact:** Bruce E. Seely, Program Director, 703/292-8763; bseely@nsf.gov; <http://www.nsf.gov/pubs/1997/nsf97142/nsf97142.txt>. **Target Dates:** 2/1/01, 8/1/01.

Support is provided for senior research in cultural anthropology, archaeology, and physical anthropology spanning various topics, techniques, and geographic areas. Projects may be up to 2 years in duration. **Target Dates:** 12/1; 7/1. **Contact:** Division of Behavioral & Cognitive Sciences, 703/292-8740; <http://www.nsf.gov/sbe/bcs/start.htm>.

In the Joint NSF/Private Sector Research Opportunities Initiative, NSF will match private sector support for qualifying research projects in Decision, Risk, and Management Sciences for 1-2 years with funding levels of up to \$75,000/year. Problems to be studied include, but are not limited to, topics in the areas of operational control, management systems, and strategic planning. Topics can range from production, manufacturing, and marketing problems facing industrial firms and service organizations, to the role of decision analysis and decision support systems in improving the way individuals and groups make choices under conditions of risk and uncertainty. The topic should be of general interest to the research community, but still relate to a specific problem facing the cooperating organization. **Target Dates:** 1/16/01, 8/1/01. **Contact:** Ann Bostrom, Program Director, 703/292-7263; <http://www.nsf.gov/pubs/stis1993/nsf92136>.

The Program for Gender Equity in Science, Mathematics, Engineering and Technology (PGE) awards up to \$100,000 to support small, focused projects that address critical transition points that facilitate or hinder successful participation of women and girls in science, mathematics, engineering and technology (SMET) education from grade school to careers. Typical projects investigate gender-related differences in learning; gender-related differences in educational experience, interest, and performance; and pedagogical approaches and teaching styles that are gender-neutral or encouraging to female students. The findings and outcomes of the program will lead to understanding, for example, how to maintain the interest of girls in science past middle school, how to bring more girls into elective high school mathematics and advanced placement science courses, and how to increase enrollments in undergraduate studies in SMET, particularly in physical sciences, engineering and computer sciences. Maximum project duration is 18 months. **Contact:** Margarete S. Klein, 703/292-8637; mklein@nsf.gov; <http://www.nsf.gov/pubs/2001/nsf016>. **Deadlines:** 1/30/01 (Elementary and Middle School,

and Informal Education); 3/30/01 (High School, Undergraduate, Teacher and Faculty Development, and Educational Technologies).

NATIONAL LIBRARY OF MEDICINE

The Publication Grant Program provides short-term assistance for preparation of book-length manuscripts about information of value to U.S. health professionals. Grants are awarded for major critical reviews, historical studies, and current developments in informatics, technology, librarianship, and secondary reference materials in the biomedical field. Publication in formats other than traditional text (e.g., electronic, film, etc.) are encouraged, as are new and innovative ways of organizing and presenting information. The G13 award mechanism is used to provide \$50,000 direct annual costs for up to 3 years. **Deadlines:** 2/1/01, 6/1/01, 10/1/01. **Contact:** Susan M. Sparks, 301/594-4882; sparks@nlm.nih.gov; <http://www.nlm.nih.gov/pubs/factsheets/pubgrant.html>.

COOPERATIVE INSTITUTE FOR RESEARCH IN ENVIRONMENTAL SCIENCE (CIRES)

The Visiting Faculty and Postdoctoral Fellowships Program provides 12-month, in-residence (University of Colorado, Boulder) fellowships for scientists with research interests in environmental sciences. Appropriate areas include: physics, chemistry, and dynamics of the earth system (atmosphere, bio-sphere, hydrosphere, lithosphere); global and regional environmental change; climate system monitoring, diagnostics, and modeling; remote sensing and in-situ measurement techniques for the Earth system; and interdisciplinary research themes such as CIRES' Western Water Assessment. Multidisciplinary theoretical, laboratory, and field studies are conducted at the Institute in the areas listed above, plus geochemistry and biology and related subjects. Eligible applicants are Ph.D. scientists at all levels, faculty on sabbatical leave, and recent Ph.D. recipients. **Contact:** Karen DeClerk, 303/492-1168; declerk@cires.colorado.edu; <http://cires.colorado.edu/cires.vf.html>. **Deadline:** 12/15/00.

UNIVERSITY OF MICHIGAN

Program on Poverty and Social Welfare Policy--Postdoctoral Fellowships provide support for American minority scholars to spend a year or two conducting research and pursuing extensive training on a broad range of issues related to poverty and public policy. Fellows receive stipends of \$42,000 per calendar year. Applicants must have completed their Ph.D. by August 31, 2001. **Deadline:** 1/13/01. **Contact:** 734/998-8515; blramsey@umich.edu; <http://www.ssw.umich.edu/poverty/jobs.html>.

GUGGENHEIM (HARRY FRANK) FOUNDATION

Dissertation Fellowships provide support for individuals to complete the writing of doctoral dissertations in any of the natural and social sciences and the humanities that will increase understanding of the causes, manifestations, and control of violence, aggression, and dominance. Particular questions that interest the Foundation concern violence, aggression, and dominance in relation to social change, socialization of children, intergroup conflict, interstate warfare, crime, family relationships, and investigations of the control of aggression and violence. Fellowships provide \$15,000 for one year. **Deadline:** 1/13/01, 2/1/01. **Contact:** 212/644-4907; <http://www.hfg.org/html/pages/dissert.htm>.

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**JAMES MADISON MEMORIAL
FELLOWSHIP FOUNDATION**

Fellowships support graduate study that focuses on the Constitution. Fellows are encouraged to choose institutions which offer courses that closely examine the origins and development of the U.S. Constitution, evolution of political theory and constitutional law, effects of the Constitution on society and culture in the U.S., or other such topics directly related to the Constitution. Eligible applicants are students about to complete, or who have recently completed, their undergraduate course of study, plan to begin graduate work on a full-time basis, and intend to become secondary school teachers of American history, American government, and social studies. Applicants must be U.S. citizens or U.S. nationals. Awards are \$24,000 maximum for 2 years. **Contact:** James Madison Fellowship Program, 800/525-6928; recogprog@act.org; <http://www.jamesmadison.com>. **Deadline:** 3/1/01.

CENTER FOR FIELD RESEARCH

The Center provides support to promote significant scholarship and improve communication between scholars and the public. Proposals are requested for field research in any discipline that can gainfully employ non-specialists in implementation of a carefully constructed pure or applied research project. Volunteers, who are recruited and screened to meet scientists' needs, are highly educated citizens dedicated to improving environmental understanding. The Center encourages interdisciplinary and/or transnational proposals. Appropriate areas include the life, earth, and social sciences. Grants range from \$7,000-\$130,000 annually, averaging \$25,000. **Contact:** Carolyn Schneyer, Program Coordinator, 978/461-0081 x124; cschneyer@earthwatch.org; <http://www.earthwatch.org/cfr/cfr.html>. **Deadline:** None.

**UDALL SCHOLARSHIP/EXCELLENCE IN NATIONAL
ENVIRONMENTAL POLICY FOUNDATION**

Support is provided to doctoral candidates whose dissertation is in the area of environmental policy and conflict resolution. Fellowships carry a maximum stipend of \$24,000 intended to cover both academic and living expenses. Applicants must be U.S. citizens or permanent residents. **Deadline:** 1/15/01. **Contact:** Dissertation Fellowship Program, 319/341-2332; udall@act.org; <http://www.udall.gov>.

**NATIONAL CENTER FOR RESEARCH
RESOURCES (NCRR)**

The NCRR supports research that utilizes nonhuman primates and other research resources at the seven Regional Primate Research Centers (RPRCs). The overall objectives of this initiative are to: promote cutting edge scientific research; enhance utilization of nonhuman primates and other resources within the RPRCs; and promote coordinated research efforts between unaffiliated scientists and Center staff scientists located at the RPRCs. This initiative encourages mechanistic studies on addressing human disease using the nonhuman primate model to improve understanding of the basic etiology and pathogenesis of a particular disease and, at the same time, develop effective therapies to control and/or prevent the disease. The research project (R01) and exploratory/developmental (R21) award mechanisms will be used. **Standard Receipt Dates:** 2/1, 6/1, 10/1. **AIDS-Related Application Deadlines:** 5/1, 9/1, 1/2. **Contact:** Jerry A. Robinson, Comparative Medicine, 301/435-0744; jr174g@nih.gov; <http://grants.nih.gov/grants/guide/pa-files/PA-98-036.html>.

-- Sally Eckert-Tilotta, Interim Director, Office of Research and Program Development.