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8-10-2006

Volume 43, Number 61: August 10, 2006

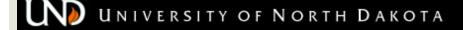
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GRAND FORKS, ND

# UNIVERSITY LETTER

UND's FACULTY/STAFF NEWSLETTER

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## TOP STORIES

## Mars space suit scores top national attention

The North Dakota Space Consortium prototype Mars space suit -- designed by a team led by the John D. Odegard School of Aerospace Sciences -- is featured in the current issues of Popular Science and Popular Mechanics. Both of these international circulation publications are notable for their coverage of forward-looking science and technology projects.

"This is tremendous," said Pablo de Leon, the UND aerospace engineer who manages the consortium's North Dakota Experimental (NDX) planetary exploration suit project. "This kind of notice tells us that we're onto something big, and the fact is, we're the only university that has actually built one of these Mars prototype suits -- the others are still virtual suits."

Another remarkable fact that was noted by both magazines is the cost. Four-time shuttle astronaut Thomas Jones, writing in Popular Mechanics, points out that the UND-led effort resulted in a suit that cost only \$100,000 to build -- and it was accomplished in just 14 months by a team comprised mostly of students from the five North Dakota colleges and universities involved in the consortium.

As de Leon said to Jones, the idea is to establish a center for space suit expertise (at UND).

For a detailed look at the NDX planetary exploration suit project and the winning North Dakota team behind it, as well as a complete list of the participants, check out the UND news web site at www.und.edu/news/; for a story about the UND staffer who actually sewed the suits vital outer layer, see http://www.und.edu/news/NEW\_SCRIPTS/newsrelease.jsp?id=1799.

For Space.com's look at the UND Mars space suit story and its Badlands test, go to www.space.com/businesstechnology/060505\_mars\_spacesuit\_test.html .

ВАСК ТО ТОР

### Haiti taps UND geospatial technology expert

Space studies professor Santhosh Seelan recently returned from Haiti following an invitation by a group of expatriate Haitian scientists and engineers to survey that troubled nation's environmental situation.

"I went there primarily to look at environmental indicators," said Seelan, a widely respected authority in geospatial technologies and satellite imaging and one-time head of India's satellite data distribution center. Seelan joined Space Studies after chairing the Department of Earth System Science and Policy. He also helped to establish a sophisticated geospatial lab and lead a National Aeronautics and Space Administration-sponsored project aimed at promoting geospatial technologies among farmers and ranchers of the upper Midwest.

Seelan, a world-recognized expert in the application of satellite imaging technologies to resource development, believes that there is a need to develop Haiti in the areas of water and agriculture resources. His status as a geospatial technologies expert and his global connections encouraged the Miami-based Haitian-American Association of Engineers and Scientists to invite him to Haiti on a fact-finding mission and to produce recommendations and strategies to redevelop Haiti's economy.

"The HAES board asked me to help suggest the areas that we could collaborate on in developing Haiti," Seelan said. "Now, the situation there is much more peaceful, with a democratically elected government in place; slowly things are returning to normal in a country has been in turmoil for quite a while."

While in Haiti, Seelan visited with the nation's prime minister and other top officials. "Their mood," Seelan said, "was cautiously upbeat."

"HAES is very interested in doing something for Haiti," he notes. "They want to invest money, bring in more international aid, and they want to make sure that their efforts directly reach people."

"Bottom line," Seelan says after his fact-finding mission, "is that Haiti needs to improve literacy, provide more water, introduce modern agricultural methods, and reverse its environmental degradation." Seelan says he'll

stay connected with HAES and now is drafting a preliminary proposal to that organization for collaborative research involving UND students.

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## EVENTS TO NOTE

## Former chair of Indian Space Research Organization to visit UND

Professor U. R. Rao, former chair of the Indian Space Research Organization, will visit UND Aug. 28 to Sept. 2, and will deliver three public lectures. On Monday, Aug. 28, he will present "Indian Space Program, An Overview"; Wednesday, Aug. 30, will be "Communication Revolution in India Through Space"; and Thursday, Aug. 31, is "Space Technology for Poverty Alleviation and Management of Natural Resources." All lectures will be in the Clifford Hall Auditorium at 4 p.m. All are welcome.

Dr. Rao will also meet with students for an informal open discussion from 3 to 4:30 p.m. Tuesday, Aug. 29, in 220 Clifford Hall.

He is a well-known space scientist, recently ranked by Space News magazine among the top 10 international personalities who have made a difference in civil, commerce and military space in the world since 1989. He was also the president of United Nations Conference on the exploration and peaceful uses of outer space (UNISPACE-III) held in Vienna in July 1999. During Prof. Rao's chairmanship of the Indian Space Research Organization, India witnessed major developments in launch vehicles, communication and remote sensing satellites and in the utilization of space technology for the country's development. He is currently the chairman of India's physical research laboratories, chancellor of Ambetkar University and a board member of Reserve Bank of India.

For more information, contact Santhosh Seelan, (Space Studies), 777-2355 or e-mail seelan@space.edu.

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# Sen. Dorgan visits UND Barnes and Noble Bookstore for book discussion, signing

Sen. Byron Dorgan, author of "Take This Job and Ship It," will visit the UND Barnes and Noble Bookstore Wednesday, Aug. 23, at 4 p.m. for discussion of his book and book signing. His book tells how corporate greed and brain dead politics are selling out America. -- Barnes and Noble Bookstore.

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## Chiara String Quartet perform with poet Anthony Hawley

The Chiara String Quartet will perform an evening of chamber music Thursday, Aug. 10, at the Faith Evangelical Free Church, 2315 Library Circle, starting at 7:30 p.m.

The program will include Johannes Brahms' String Quartet No. 3 in B flat Major, Op. 67, and a work by contemporary Chinese composer Zhou Long, "Song of the Ch'in," based on the sound of traditional folk instruments. In addition, the quartet will play a new work by Pierre Jalbert to accompany the reading of a poem series written by Anthony Hawley.

Icefield Sonnet was inspired by Hawley's northern travels, including his visits to his fiance when she was living in Grand Forks during the Chiara Quartet's residency with the Greater Grand Forks Symphony and UND. The poem, and the music, recall the harsh cold of the northern winter, as well as the stark beauty of the plains. Now married to Chiara violinist Rebecca Fischer, Hawley will be joining the musicians Thursday night to read his

poem during the performance.

Lauded for "flawless ensemble" and "intense, riveting" performances, the Chiara String Quartet (Rebecca Fischer and Julie Yoon, violins; Jonah Sirota, viola; and Gregory Beaver, cello) was awarded First Prize at the Fischoff Chamber Music Competition, top prizes at the Premio Paolo Borciani International Competition in Italy and at the Astral Artistic Services Audition, placing the group on the Astral roster of outstanding young artists launching major professional careers. The Chiara was selected as the Juilliard School's Lisa Arnhold resident quartet from 2003-2005. Currently, the quartet serve as artists-in-residence at the School of Music at the University of Nebraska-Lincoln.

The quartet began their career with a residency at UND between 2000 and 2002, and have returned regularly since then to re-connect with students, perform concerts, and serve as faculty with the Greater Grand Forks Symphony's Red River Chamber Music Festival each August.

Tickets for the concert are \$10 and may be reserved by calling the Symphony Office at 777-3359. Children 12 and under are free, but need tickets. Tickets will also be on sale at the door beginning one hour before the performance.

-- Jennifer Tarlin, Executive Director, Greater Grand Forks Symphony, jenny.tarlin@und.edu, 777-3359

ВАСК ТО ТОР

#### Red River Chamber Music Festival schedule listed

The Red River Chamber Music Festival will present three public concerts during its week-long program in Grand Forks.

Now in its second season, the program offers intermediate and advanced student musicians, ages 14 and older, a week-long program of chamber music and strings study. The program is held at the Hughes Fine Arts Center, and includes ensemble practice and coaching, private instruction, student and faculty concerts, as well as opportunities to take advantage of cultural and recreational activities in the area. This year's public performance schedule is as follows:

- \* Chiara String Quartet Concert, Thursday, Aug. 10, 7:30 p.m., Faith Evangelical Free Church. Tickets are \$10 for general admission, \$5 for students 13-22, and free to children 12 and under.
- \* Faculty Concert: Friday, Aug. 11, 7:30 p.m. Josephine Campbell Recital Hall, Hughes Fine Arts Center. Performances by Eric Lawson, Naomi Welsh, Jeff Anvinson, Paul Boese and The Chiara String Quartet. Tickets are \$5, available at the door, beginning one hour before the performance.
- \* Student Recital: Saturday, Aug. 12, 2 p.m., North Dakota Museum of Art, free admission.

Call 777-3359 for advance reservations for all concerts. This year's program is sponsored by the North Dakota Eye Clinic with support from the Center for Continuing Education.

-- Jennifer Tarlin, Executive Director, Greater Grand Forks Symphony, jenny.tarlin@und.edu, 7-3359

ВАСК ТО ТОР

### Memorial services set for Matilda Faye Weaver-Hightower

Memorial services for Matilda Faye Weaver-Hightower, infant daughter of Rebecca and Marcus Weaver-Hightower (English and Educational Foundations and Research respectively), will be held Friday, Aug. 11, at 3 p.m., Amundson Funeral Home, 2975 South 42nd St. Visitation will be for the hour before the service in the funeral home. -- Sheryl O'Donnell, chair and professor of English.

ВАСК ТО ТОР

### White coat ceremony set for Friday, Aug. 11

Sixty-two new freshman medical students, members of the Doctor of Medicine (M.D.) class of 2010, begin their medical education this week at the School of Medicine and Health Sciences.

They range in age from 21 to 42 years, with the average age being 24 years. Half of the class members are women. The students have degrees in a variety of disciplines including biology, chemistry, anthropology, engineering and global studies.

Medical students' first week is dedicated to orientation, which includes an introduction to the four-year, patient-centered-learning curriculum. Special emphasis is placed on the students' new roles as health care professionals and expectations of them as professionals.

The week will conclude with the M.D. Class of 2010 White Coat Ceremony. During the ceremony, set for Friday, Aug. 11, at 4 p.m. in the Reed T. Keller Auditorium at the UND medical school, students will be "cloaked" in white coats, the traditional garment of the physician, which have been donated by the North Dakota Medical Association. They will also recite the Oath of Hippocrates, an ancient vow to uphold basic professional principles.

Robert Beattie, professor and chair of the Family and Community Medicine, will present the keynote address to the students, and their families, friends, and faculty and staff members. Each student will also receive the book, "On Doctoring," edited by Drs. Richard Reynolds and John Stone and donated by the Robert Wood Johnson Foundation, and a pin engraved with the words, "Humanism in Medicine," from the Arnold P. Gold Foundation.

-- Amanda Scurry, public information specialist, UND SMHS, ascurry@medicine.nodak.edu, 701-777-0871

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## Aug. 15 staff info session covers student-help topics

The annual staff information session (motto: get the latest information and make sure you're prepared to help students) will be Tuesday, Aug. 15, 10 to 11:30 a.m. in Room 1, Gamble Hall. Distribution of materials is 9:30 to 10 a.m. and speaker presentations will begin at 10 a.m. sharp. Designed to provide updates on beginning-of-the-year programs and procedures, the session helps serve our students in the best and most knowledgeable ways possible.

Short briefings will cover academic advising, adult re-entry program, financial aid, fee payment and business office, housing and dining services, parking and traffic, bookstore, continuing education, new student orientation, withdrawal and crisis procedures, registration, help table, Learning Center, Writing Center, U Card and IDs, Greek life, Memorial Union, Student Health, UND Police, and Volunteer Services.

Everyone is welcome. Come at 9:30 a.m. to be sure you have collected all the handouts and are ready for the presentations at 10 a.m.

-- Patsy Nies, Special Project Assistant, Enrollment Services, patsynies@mail.und.nodak.edu, 777-3791

ВАСК ТО ТОР

#### **Doctoral examination set for Mohamad Hamad**

The final examination for Mohamad Hamad, a candidate for the Ph.D. degree with a major in Microbiology, is set for 1 p.m., Aug. 21, in Reed Keller 1350, Ed James Research, School of Medicine and Health Sciences. The dissertation title is "The Roles of LCRG and LCRV in the Secretion Control of Yops in Yersinia Pestis." Matthew Nilles (Microbiology) is the committee chair. The public is invited to attend. -- Joseph Benoit, Dean, Graduate School.

#### ВАСК ТО ТОР

#### Cirque Du Soleil's Delirium show Aug. 23 at Alerus

Cirque Du Soleil, one of the most successful live entertainment brands in the world, has created Delirium, a new event that focuses on a music/concert experience and features Cirque du Soleil music remixed. Driven by an urban tribal beat and awe-inspiring visuals, musicians, singers and dancers transform the arena into joyous frenzy. The performance, one night only, Aug. 23, is at the Alerus Center. Tickets are on sale now at http://livenation.com/cc-common/events/buy\_ticket\_cce.html?eventID=219594. For more information on Delirium, visit the official web site at www.cirquedusoleil.com. -- Jan Orvik, editor, for Kelly Strickland, marketing coordinator, Midwest Music.

ВАСК ТО ТОР

### **U2 lists workshops**

Below are U2 workshops for Aug. 28-31. Visit our web site for more. The fall U2 newsletter containing workshops for September through November will arrive soon.

Laboratory Safety: Aug. 28, 10 a.m. to noon, 211 Skalicky Tech Incubator. Learn general lab-safety principles for the use of chemicals in laboratories. The workshop covers potential health hazards in the laboratory, protective measures, and response to incidents and emergencies. This training is required for all University employees working in a laboratory.

Presenter: Greg Krause.

Saving: Making the Most of Financial Goals: Aug. 30, 3 to 4:30 p.m., 211 Skalicky Tech Incubator. Savings is not just for those dollars you don't need to spend. Savings also needs to consist of "delayed expense" monies. Learn how to manage your rainy day fund. Covers the basics of investing and retirement planning. Presenter: Marybeth Vigeland, Certified Consumer Credit Counselor, The Village Family Service Center.

Shipping and Receiving Hazardous Materials: Aug. 31, 10 a.m. to noon, 211 Skalicky Tech Incubator. Find out what your responsibilities are if you ship or receive hazardous material. If you fill out paperwork for a package, put material in a package, hand a package to a delivery person, receive a package from a delivery person, or open a package containing hazardous material, then you must have this training. Presenter: Greg Krause.

Please reserve your seat by registering with U2 by: phone, 777-2128, E-mail, U2@mail.und.edu, or online, www.conted.und.edu/U2/. Please include: (1) workshop title/date, (2) name, (3) department, (4) position, (5) box number, (6) Phone number, (7) E-mail, and (8) How you first learned about this workshop. Thank you for registering in advance; it helps us plan for materials and number of seats.

-- Julie Sturges, Program Assistant, U2, U2@mail.und.edu, 777-2128

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## ANNOUNCEMENTS

## Wellness program lists Internet health information

The sheer volume of health information on the web makes it hard to find reliable sources. If you have a medical condition that can be treated in different ways, learning about your options can be even more confusing. But if you're in that situation, don't worry. MyHealthConnection makes it easy to get reliable information by offering you the Health Crossroads web site (www.thedialogcenter.com/bcbsnd). You can find this tool by clicking on the "Health Information" tab and then click on "Health Crossroads Web Modules".

For many medical conditions, research shows that more than one treatment option is acceptable. In fact,

sometimes there is no proof that one treatment is better than another. The most common medical conditions that fit this description include:

- · Back pain;
- · Benign prostatic hyperplasia (BPH), also known as enlarged prostate;
- · Breast cancer:
- · Coronary artery disease;
- · Depression;
- · Osteoarthritis, usually affecting the hips or knees;
- · Prostate cancer;
- · Abnormal uterine bleeding; and
- · Uterine fibroids.

People with these conditions usually have to make a treatment choice based on their personal preferences. But before they can decide what they prefer, they need to understand the trade- offs involved with each option. The Health Crossroads web site is designed with these people in mind.

The Health Crossroads web site provides up-to-date, unbiased information to help you work with your doctor to make the decisions that are best for you. The site does not promote any one treatment approach over another. Instead, it describes the treatment choices and then explains what the research says about the pros and cons of each choice. Because your preferences are important in decision-making, this site also lists questions to help you think about your decision. Plus, the site offers you a glimpse into the lives of real people who have made these decisions and have agreed to share their experiences with you.

The site also offers the "Getting the Right Healthcare" guide that teaches you how to get the best care possible. The guide explains how to develop a good working relationship with your doctor, how to evaluate medical information, and how to maintain your good health.

If you would rather to speak to a real person than go online, call a health coach. Health coaches are specially trained healthcare professionals, such as nurses, dietitians, and respiratory therapists. They are available by phone, anytime, 24 hours a day, seven days a week, at no charge to you. If appropriate, a health coach will send you a complimentary video about the decision you are facing.

To talk to a health coach, call 1-800-658-2750. To visit the Health CrossroadsSM web site, go to www.thedialogcenter.com/bcbsnd. You can find this tool by clicking on the "Health Information" tab and then click on "Health Crossroads Web Modules".

-- Amanda Eickhoff, Wellness Program Assistant, Wellness Center, amandaeickhoff@mail.und.nodak.edu, 777-0210

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## Submit job listings soon for fall semester

We will post work study and institutional jobs for the fall semester on Aug. 16. Please submit your job listings as soon as possible. You can submit your job by going to the financial aid web site, employment/student employment guide, listing a position, and then select either FWS or institutional position. Remember jobs are to be posted for a minimum of three days before a student is hired or starts work. You can e-mail deannamelby@mail.und.nodak.edu or call 777-4411 for further assistance. Work study and institutional cards are located at Career Services in 280 McCannel Hall after Aug. 16.

-- Deanna Melby, Employment Clerk, Student Financial Aid, deannamelby@mail.und.nodak.edu, 777-4411

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## Law library lists fall hours

Fall hours for the Thormodsgard Law Library are: Monday through Thursday, Aug. 21-24, 7:30 a.m. to 11 p.m.;

Friday, Aug. 25, 7:30 a.m. to 5 p.m.; Saturday, Aug. 26, 10 a.m. to 9 p.m.; Sunday, Aug. 27, 10 a.m. to 11 p.m.

Monday through Thursday, Aug. 28-31, 7:30 a.m. to 11 p.m.; Friday, Sept. 1, 7:30 a.m. to 9 p.m.

-- Jane Oakland, Circulation Manager, Law Library, oakland@law.und.edu, 777-3482

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### Surplus items for sale to public

The University is offering for sale to the public by set price or sealed high bid the following items: older computer and exercise equipment, boat, camper, pool table, furniture and other miscellaneous items. These items will be sold and bids taken at the Central Receiving Building, Door 2, between 8 a.m. and 3 p.m. Monday and Tuesday, Aug. 14-15.

-- Jacque Brockling, Facilities Central Warehouse Supervisor, Facilities,

jacque.brockling@mail.und.nodak.edu, 7-3033

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## Purchasing lists policies and procedures

A policy and procedure titled "Equipment/Supplies-Transfer/Sale Procedures for Departing Faculty" is available from the Purchasing Office by calling 777-2681 or at

www.und.nodak.edu/dept/purchase/html/Policies%20&%20Procedures.html#equipment.

When a purchase for personal computers exceeds \$5,000, use a purchase requisition to place the order. Do not purchase one at a time using more than one voucher or make repeat purchases on the Visa purchasing card. You may receive a discount for ordering greater quantities.

When obtaining quotes for Gateway, please go to the ITSS (Information Technology Systems and Services) web site.

A contract has been established jointly between NDUS and the State of North Dakota with Cole Papers Inc. Use of this contract is mandatory for all paper purchases. The contract may be viewed at www.state.nd.us/csd/spo/contracts/Html/002.htm or you may call Cole Papers Inc. at 746-4531.

Cellular phone service for University use should be purchased utilizing the state contract with Alltel. The UND Alltel representative, Ken Hoffman, can be reached at 772-420 or 701-360-

4096. Departments are charged monthly via a Journal Import from the UND Telecommunications Office. If cellular phone service is to be purchased outside of the state contract, approval must be obtained from the UND Telecommunication's Office. Exempted cellular phone services must be processed by submitting the phone service agreement and a purchase requisition to the purchasing office for the creation of a blanket purchase order.

A reminder to all University employees that the UND Conflict of Interest policy requires all employees who currently have a business interest in a business entity, or whose spouse, child, sibling, parent, or relative-in-law has a business interest in a business entity that currently does business with the University, or could potentially do business with the niversity, must complete the Notification of Business Interest form and submit it to the Purchasing Office.

Any concerns or questions regarding the policy and procedure can be directed to Scott Schreiner at 777-2681.

-- Vicki Von Harz, Secretary, Purchasing, vickivonharz@mail.und.nodak.edu, 777-2682

ВАСК ТО ТОР

#### Volunteer opportunities listed

UND students, faculty and staff are invited to participate in the following volunteer opportunities:

- \* 4000 Valley Square Campus picnic and street dance to be held Tuesday, Aug. 15, from 4:30 to 8:30 p.m. Volunteers are needed to set up, serve, and clean up this event. If interested please contact Dan at 787-7814 or dkostad@valleymemorial.org.
- \* Special Olympic State Soccer and Bocce Ball Tournament Sept. 9 and 10. Volunteers are needed to referee, keep score and time, and help with Olympic Town activities. Contact Shelly at 746-0331 if you can help.
- -- Linda Rains, Coordinator of Civic Leadership, Memorial Union, **lindarains@mail.und.nodak.edu**, 701-741-6150

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### Internal job openings listed

The following position vacancies are available only to regular UND staff employees who have successfully completed their six-month probation period, earn annual and sick leave, receive BC/BS health insurance and TIAA-CREF or ND PERS retirement benefits.

Current UND faculty, please contact Human Resources for eligibility.

TO APPLY: Please complete UND application/control card form. Send letter of application and resume, referencing position name and number, to: Human Resources, University of North Dakota, PO Box 8010, Grand Forks, ND 58202. Applications MUST be received by the deadline date.

EXECUTIVE/PROFESSIONAL/ADMINISTRATIVE/COACHES:

POSITION: Head of Reference and Research Services, #07-039

DEADLINE: 9/15/06 Current UND employee (Internal) applicants will be considered with the External applicants.

SALARY: \$55,000 - \$57,000

POSITION: Associate Dean of Student Life/Director of Judicial Affairs and Crisis Programs, Dean of Students,

#06-185

DEADLINE: (I) Current UND employee (Internal) applicants will be considered with the External applicants.

Open until filled (Review of applicants began April 15, 2006)

SALARY: Commensurate with experience

POSITION: Associate Vice President for Outreach Services and Dean of Outreach Programs, #06-114

 ${\tt DEADLINE:} \ \ \textbf{(I)} \ \ \textbf{Current UND employee} \ \ \textbf{(Internal)} \ \ \textbf{applicants} \ \ \textbf{will be considered with the External applicants}.$ 

Review of candidates will begin December 1, 2005 and will continue until the position is filled.

SALARY: Commensurate with experience

TECHNICAL/PARAPROFESSIONAL:

POSITION: Information Systems Technician, Registrar Office, #07-043

DEADLINE: (I) 8/10/2006 SALARY: \$30,000 - \$33,000

POSITION: Library Associate for Copy Cataloging and ODIN Reports, Chester Fritz Library, #07-042

DEADLINE: (I) 8/10/2006 SALARY: \$16,000 - \$16,500 POSITION: Security Officer (re-advertised, M-F, 4 pm - 12 AM), UND Police, #06-207

DEADLINE: (I) 8/11/2006 SALARY: \$19,000 - \$24,000

OFFICE SUPPORT:

POSITION: Administrative Secretary, Dean of Students, #07-049

DEADLINE: (I) 8/16/06 SALARY: \$23,000 - \$25,500

POSITION: Administrative Secretary (50% time position), University Relations, #07-045

DEADLINE: (I) 8/15/2006 SALARY: \$9.00 - \$9.50

CRAFTS/TRADES/SERVICE:

POSITION: Lead Dining Room Attendant (Variable hours, Flexible Weekends), Dining Services, #07-048

DEADLINE: (I) 8/15/2006 SALARY: \$8.31 - \$9.25

POSITION: Dishwasher (variable schedule), Dining Services, #07-047

DEADLINE: (I) 8/15/06 SALARY: \$7.74 - \$8.50

POSITION: Dining Room Attendant (variable schedule, flexible weekend), Dining Services,#07-046

DEADLINE: (I) 8/15/2006 SALARY: \$7.93 - \$8.90

POSITION: Chef De Cuisine (Flexible Hours), Dining Services, #07-040

DEADLINE: (I) 8/14/2006 SALARY: \$12.00 - \$12.86

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## IN THE NEWS

# Work of UND professor shows climate change, global warming are real

Geophysicist William Gosnold has been digging into the Earth's ancient history for the truth about global warming. His renown and widely cited borehole research proves conclusively that global warming is well past theory.

"It's a fact," says Gosnold, a Chester Fritz Distinguished Professor and chair of the Department of Geology and Geological Engineering. Gosnold and other key researchers worldwide note that global warming -- the steady increase in the average temperature on Earth produced by human activity -- is measurable.

Gosnold has analyzed temperature data from several hundred sites to document the Earth's average temperature changes over the past 500 years. Gosnold says the future isn't clear -- we're talking about incredibly complex systems at work -- but this much is certain: today's data point to a number of unpleasant

outcomes, such as rapidly rising ocean levels (and the resultant displacement of millions of coastal dwellers) and many more severe weather events.

The challenge for scientists, such as Gosnold, is that climate change occurs naturally, so figuring out what's caused by global warming and what would happen anyway isn't easy.

Climate change can be caused by a number of forcing mechanisms which basically change how much solar radiation reaches the planet's surface or in how heat is redistributed after it arrives at the surface, Gosnold explains. Most of these mechanisms are natural and cannot be altered by human activity.

And, of course, global warming and global cooling both produce climate change. But today we usually associate global warming with climate change caused by human activity, Gosnold notes.

For an in-depth interview with Gosnold about his research and the conclusions he's reached, check out this week's UND Faculty Q&A at http://www.und.edu/faculty\_qa/08092006.html.

ВАСК ТО ТОР

## Glenda Lindseth receives highest nursing honor

The College of Nursing has registered another faculty member as a fellow in the American Academy of Nursing (AAN). Glenda Lindseth has been selected as a Fellow; induction will take place in early November at the 33rd AAN meeting and conference in Miami.

Dr. Lindseth's selection makes her the fifth AAN Fellow among current faculty members at the College; Loretta Heuer was inducted in the fall of 2005. The AAN is comprised of 1,500 nurse leaders at the top of their profession, having accomplished extraordinary milestones in their nursing careers. Dr. Lindseth said she feels "privileged to have been selected by an elite group of colleagues."

In addition to the prestige of being chosen, membership opens doors for collaboration with colleagues in many areas including leadership, research and policy. "I believe that belonging to this organization will put me in touch with colleagues who are on the cutting-edge of research and research policy," adds Dr. Lindseth. AAN members have been identified by their peers to be the best and the brightest in the nursing discipline.

The focus of Dr. Lindseth's research is to produce holistic, evidenced-based interventions—such as promoting good nutrition and related practices (sleep, physical activity, and others) to prevent nausea and vomiting in pregnant women. Such little-known protective factors were featured in interviews of Dr. Lindseth in Redbook and Prevention magazines.

"Dr. Lindseth exemplifies the mission and goals of the Academy" said Chandice Covington, dean of nursing.

"Acceptance into the Academy will be a powerful tribute to her positive thinking, leadership and courage that came together in North Dakota illuminating nursing research for decades to come."

Dr. Lindseth is the associate dean of research at the College of Nursing and is the principle investigator for the Northern Plains Center for Behavioral Research. The new behavioral research building, funded by the National Institutes of Health, is the first nursing research building of its kind and is scheduled to break ground in August 2006.

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ВАСК ТО ТОР