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UNIVERSITY LETTER

UND'S FACULTY/STAFF NEWSLETTER

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University Letter is published electronically weekly on Tuesday afternoons. Submissions are due at 10 a.m. Tuesday.

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TOP STORIES

President Kelley invites faculty to participate in commencement Friday, Aug. 7

Faculty members and administrative staff are invited to join President Robert Kelley at UND's Summer Commencement Ceremony on Friday, August 7. The ceremony will begin at 3 p.m. in the Chester Fritz Auditorium. Those participating are asked to wear academic regalia and report to the Chester Fritz Auditorium no later than 2:30 p.m. Faculty members will march in the procession and be seated on the stage.

Those planning to participate should contact the Office of the Vice President for Student and Outreach Services at 777-2724 or dawnbotsford@mail.und.edu by August 5 to confirm their plans.

Please contact the Office of Ceremonies and Special Events at 777-6393 with any questions.

-- Dawn Botsford, Events Coordinator, Office of Ceremonies and Special Events,

dawnbotsford@mail.und.edu, 777-6393

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U.S. Air Force to host UAS symposium at UND

The U.S. Air Force has chosen UND Center for Unmanned Aircraft Systems (UAS) Research, Education and Training as the site for an academic outreach conference to be held August 4-6. About 100 U.S. universities will be invited to participate in the conference at UND.

Air Force leaders recently released a long-term roadmap called the "UAS Flight Plan" detailing the service's way ahead for UAS implementation. Signed into effect on June 26 by Air Force Secretary Michael B. Donley and U.S. Air Force Chief of Staff Gen. Norton A. Schwartz, the U.S. Air Force Unmanned Aircraft 40-year "Flight Plan" will be the central symposium topic.

"The U.S. Air Force wanted to reach out to academia to engage that community regarding the Air Force's future needs," said Douglas Marshall, director of program development for the UAS Center. "The long-term goal is to take people out of the cockpit to reduce the risk and still have the capability of defense."

The Air Force recently briefed UND officials on its plans for the role of unmanned aircraft in defense measures, but this will be the first time the document is made publicly available, Marshall said.

The Air Force recognizes and values the cutting edge research and development academic and industry partners undertake in furthering our military capabilities for the nation's defense. The event next month at UND will enable discussions among U.S. Department of Defense and industry on topics including the growth and application of UAS-related technologies to changes in policy, doctrine, training and organization that will enable the service to realize its goals.

The symposium will consist of briefings by key Air Force organizations related to the service's ongoing UAS efforts; presentations by leading academic institutions regarding research; and panel discussions comprising key Air Force and academic personnel.

Distinguished guests scheduled to address the attendees include North Dakota Senators Byron Dorgan and Kent Conrad, Congressman Earl Pomeroy, Governor John Hoeven and General Stephen Lorenz, commander of USAF Air Education and Training Command. The UND Center for Unmanned Aircraft Systems has provided premier UAS research and education through Sen. Dorgan's funding efforts in Congress since 2005.

Media are invited to attend the event. See registration info at <http://www.uasresearch.org>.

-- Juan Pedraza, Writer/Editor, University Relations, juan.pedraza@mail.und.edu, 777-6571

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EVENTS TO NOTE

Art & Democracy Film Series to show "The Blues Brothers"

The next installment of the Art & Democracy Film Series will show "The Blues Brothers" Wednesday, July 29, 7 p.m. at the Empire Arts Center. Each movie in the series is open to the public and free. Come join us for a discussion about assimilation, ethnic heritage, family expectations, comedy in America, and political correctness.

The "Art & Democracy Film Series" offers us all the opportunity to talk, as a community, about the American experience. What are our values? How do we deal with difference? And, of course, what's art got to do with it? Through fun and accessible movies, audiences will explore, debate, and question, the foundations of our democracy and society. Each film is shown at the Empire Arts Center and is free and open to the public. First the group watches the movie together, then the host, Jack Russell Weinstein, Director of the Institute for Philosophy in Public Life and Associate Professor of Philosophy at UND, and host of the Prairie Public radio show "Why? Philosophical Discussions About Everyday Life," interviews a guest about the topic of the film. Then the audience gets the opportunity to talk with Weinstein and his guest, as well as to each other. The conversation is light-hearted and fun, but sophisticated and interesting as well. All perspectives are welcome; the series is non-partisan.

The series also provides the opportunity to see how film-makers portray our lives. Is it accurate? Does it exaggerate? Can it help us learn about ourselves or does it interfere with our self-understanding. Previous guests have included Clay Jenkinson, who led a discussion on what it means to be a North Dakotan, Crystal Alberts, who discussed the role of protest and sub-cultures in political life, and Paul Gaffney, who discussed the place of sports in our society with special attention to women athletes and the role of equality in competition.

Upcoming movies include (guests will be announced at a later date):

July 29: The Blues Brothers

August 26: Casablanca

September 30: American Beauty

October 28: Let The Right One In

November 25: Dr. Strangelove

More information about the institute and the film series can be found at: www.philosophyinpubliclife.org.

Questions can be sent to ippl@und.edu

The Art & Democracy films series is sponsored by the Institute for Philosophy in Public Life and the North Valley Arts Council. The Institute is a partnership between The North Dakota Humanities Council and the UND College of Arts & Sciences.

-- Jack Weinstein, Associate Professor, Department of Philosophy and Religion,

jack.weinstein@und.nodak.edu, 777-2887

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University Faculty Lecture Series organizers announce 2009-2010 schedule

The University Faculty Lecture Series kicks off its 2009-2010 season Sept. 10 with "Dinosaurs or Nickel Mines:

What are the risks and rewards of Near Earth Asteroids?" by Chester Fritz Distinguished Professor Mike Gaffey, Space Studies.

Hesham El Rewini, Dean, School of Engineering and Mines, follows Oct. 8 with "Wireless Sensor Networks: Connecting the Physical and Digital Worlds."

Holly Brown Borg, Pharmacology, Physiology & Therapeutics, will kick off the spring semester January 21, 2010, with "Hormones and Long Life: Lessons from dwarf mice." Organizers of the series will meet in September to fill out the spring round of presenters.

The University Faculty Lecture Series has been held regularly on campus since 1997, when a group comprising senior faculty members and Chester Fritz Distinguished Professors Richard Beringer, Elizabeth Hampsten, Bill Sheridan, and Sharon Wilsnack along with Peter Johnson, proposed a renewal of this forum to celebrate the diversity and excellence of scholarship at UND. Then-president Kendall Baker provided encouragement and financial support, and the series was re-launched. President Kelley is continuing that tradition of encouragement and support for the series.

A key goal of the University Faculty Lecture Series is to bring together the campus community and the community at large to "recognize the university as a unique institution in society, an academic community with scholarly roles and contributions that go beyond, but at the same time enrich, its own educational programs."

According to the guidelines of the organizers, each lecture presents "with some depth and rigor the scholarly questions and goals of the individual faculty. In presenting the products of their scholarship, the Lecturers will share the enthusiasm and dedication that sustains their creative efforts."

The University Faculty Lecture Series cultivates a stronger academic atmosphere by offering a forum for distinguished faculty members selected across the disciplines to talk about their the scholarly lives and what drives their research. In presenting their scholarship, the lecturers share the enthusiasm and dedication that sustains their creative efforts.

All of the lectures are free and open to the public.

-- Juan Pedraza, *Writer/Editor, University Relations*, juanpedraza@mail.und.edu, 777-6571

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Chemistry, chemical engineering REU poster session is Aug. 5

The chemistry and chemical engineering departments would like to announce a joint undergraduate poster session on Wednesday, Aug. 5, on the second floor of Harrington Hall from 10 a.m. to noon. Eighteen undergraduate researchers from all over the U.S. will present the results of their 10-week research in the two Departments. Everyone is welcome. Juice and muffins will be served.

-- Kim Myrum, *Information Processing Specialist, Chemistry*, kmyrum@chem.und.edu, 777-2741

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Volunteers needed for Welcome Weekend info tents Aug. 21

Welcome Weekend for incoming first year students is only weeks away and plans are being made to host information tables and tents for Move-In Day on Friday, Aug. 21. Would you be willing to help? The information table is located in Wilkerson Hall and is open Friday, 8:30 a.m. to 4 p.m. Materials about orientation schedules, maps, bus schedules, etc. will be ready and waiting for you.

Information tents are located near the Chester Fritz Auditorium, the University Avenue side of the Walsh quad, and a new location near the Memorial Union. Tents are open on Friday from 8:30 a.m. to 4 p.m. Tents, signs, materials, and water for give away will be on-site.

We invite you to wear your department apparel to help promote your organization. Information to help answer questions, give directions, and provide telephone numbers will be there for you. The most fun part of this day is giving families and students your "we're glad you're here" smile and welcome them to campus. This is a great opportunity to greet and meet new students. Please call to volunteer.

-- Dawn Botsford, Events Coordinator, Office of Ceremonies & Special Events, dawnbotsford@mail.und.edu, 777-6393

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The musical HAIR explodes on the Empire Arts Center stage, August 4-15

The Crimson Creek Players are proud to bring the Tony Award-winning musical experience, HAIR, to the Empire Arts Center stage, August 4-8 and 11-15.

Just in time to usher in the dawning of a new age in America, Crimson Creek invokes this classic rock musical and explodes it on to a new generation. A celebration of life, a love letter to freedom, and a passionate cry for hope and change, HAIR features some of the greatest songs ever written for the stage, including "Aquarius," "Good Morning Starshine," and "Let the Sun Shine In."

HAIR: The American Tribal Rock Love Musical, with book and lyrics by James Rado and Gerome Ragni, and music by Galt MacDermott, is the first rock musical, and is one of the most adventurous, outlandish, and ultimately profound musicals ever.

Join the Tribe, a group of long-haired, politically active hippies, as they gather in this musical "be-in," unrestricted as it is by all the conventions of typical Broadway musicals. As the first and most successful of the rock musicals, HAIR possesses timelessness and a meaning that outlives the era of "flower power," and provokes you to take part in this celebration of life.

While HAIR is not a "story-book musical" in the conventional sense, it does follow the Tribe as they rally against racism, homophobia, sexism, and most importantly, war. Indicative of this tribal hippie mentality is free expression and drug use. HAIR follows the Tribe's leader, Berger (Doug Chavis), and his best friend Claude (Jared Kinney) as the latter is forced to decide between burning his draft card or ending up in Vietnam.

HAIR originally opened on Broadway on April 29, 1968 at the Biltmore Theatre during a truly tumultuous time. Just weeks earlier, Martin Luther King, Jr. was assassinated, and Robert Kennedy would be assassinated less than two months later. Six months later, the show would begin a two-year run at the Aquarius Theatre in Los Angeles. Ted Neely, an original cast member of that production, stated recently on "CBS Sunday Morning" that there were numerous bomb scares throughout the run of the show. Currently, HAIR has a revival currently playing on Broadway that received eight Tony Award nominations (winning for "Best Revival of a Musical"), eight Drama Desk Award nominations, and received the Outer Critics Circle Award for "Outstanding Revival of a Musical."

In 1969, our country witnessed numerous anti-war movements, including the "National Moratorium" demonstration that involved hundreds of thousands of people all over the country, and one in Washington, D.C. with almost half a million demonstrators. It was also the year of the legendary rock concert Woodstock, which took place from August 15-17 in Bethel, NY. The Crimson Creek production of HAIR will close exactly 40 years

after this historic concert opened.

HAIR is directed by Chris Berg (Great American Trailer Park Musical, Lucky Stiff) and musical director Matt Strand (Chicago, Cabaret, Sweeney Todd). Original choreography skillfully crafted by Laura Dvorak-Berry (North Dakota Ballet Company, Minnesota Dance Ensemble), and the production is produced by Benjamin Klipfel (Sweeney Todd, Cabaret, Sweet Charity, Great American Trailer Park Musical).

Crimson Creek's HAIR will run August 4-8 and 11-15, beginning at 7:30 p.m. at the Empire Arts Center in downtown Grand Forks, ND.

Tickets are \$18/15 and are available in advance at 777-4090 (group discounts for parties of 10 or more).

This production contains harsh and vulgar language, simulated drug use, and brief rear nudity. HAIR is intended for mature audiences. Walk-up discounts are available for parties who dress in "60's style hippie clothing." HAIR is sponsored, in part, by the John S. and James L. Knight Foundation Donor Advised Fund and the Greater Grand Forks Convention and Visitor's Bureau.

HAIR features 20 of the Upper Midwest's top performers and is the must-see production of 2009.

In celebration of the spirit of HAIR, a "Human Be-In" will be held in Town Square, Thursday, July 30, 5:30 to 7:30 p.m. Join the cast of HAIR, the North River Ramblers, and Amazing Grains Food Co-op for an evening of fun and frivolity, including hula-hooping, henna tattoo painting, tie-dyeing, hemp tying, music and more. This event is free and open to all ages.

For more information, visit <http://www.ggfct.org>.

-- Benjamin Klipfel, Executive Director, Greater Grand Forks Community Theatre, info@ggfct.org, 777-4090

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Wellness Center annual shutdown is August 10-14

The Wellness Center will be closed August 10-14 in order to provide routine maintenance and cleaning for the facility.

It is an opportunity to:

- Move equipment
- Make major repairs
- Attend to regular maintenance
- Clean areas that we are unable to get to during normal operation

We appreciate your cooperation and your commitment to cleanliness and a well maintained facility.

-- Joe Field, Education & Outreach Coordinator, Wellness Center, joefield@mail.und.edu, 777-0228

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Sushi class offered at Culinary Corner

Have you seen sushi but never really ventured to try it or maybe you love it and want to know how to make it yourself? Either way, join us and learn how to make your own sushi. There will be a demonstration on Monday, Aug. 17, 5:30 p.m. in the Culinary Corner at the Wellness Center. Learn how to make some basic rolls, and ingredients will be provided for you to create your own unique sushi.

Cost: \$12/person

Register online at www.wellness.und.edu. Click on Nutrition and Culinary Corner. Space is limited.

Tami Carmichael to give main address at Commencement; Reception for James Ray will follow ceremonies

Award-winning UND faculty member Tami Carmichael, coordinator of Integrated Studies, will give the main address at UND's summer commencement Friday, August 7, at 3 p.m. in the Chester Fritz Auditorium. About 500 students are eligible to cross the stage when UND President Robert Kelley presides over the UND summer commencement. On average, UND graduates about 2,700 students total in the summer, winter and spring.

At the commencement ceremony, UND also will award an honorary Doctor of Letters degree to entrepreneur James C. Ray, president of the Aerospace Capital Group and president of the Ray Foundation. Following the commencement ceremony, there will be a reception for Ray from 5 to 7 p.m. at the James Ray Idea Lab in the Center for Innovation, 4200 James Ray Drive. Please RSVP to joanne@innovators.net or call (701) 777-3132.

Tami Carmichael

Tami Carmichael, associate professor of humanities and integrated studies and coordinator of the UND Integrated Studies program, is the 2008 Carnegie Foundation for the Advancement of Teaching North Dakota Professor of the Year. Carmichael was chosen for her impact on undergraduate students, her scholarly approach to teaching and learning, as well as contributions to her profession, her community, and especially, to undergraduate education at UND, according to the foundation.

A native of Port Allegheny, Penn., Carmichael started her teaching career at UND in 1996 as a consultant in the Writing Center and assistant coordinator of the UND Honors Program. She started teaching English as an assistant professor at UND in 1998. At the same time, she was promoted to associate coordinator of the Honors Program. She has authored and co-authored several internal grant proposals that have netted more than \$40,000, allowing the UND Honors Program to improve its writing courses and the program at large. In addition, she co-authored a grant for Student Technology Fee money that established a computer lab.

Carmichael's professional interests include pedagogy and practices in general education and integrative studies, history of American undergraduate learning communities and 19th Century literature, with a concentration on women's literature and works by Herman Melville and Mark Twain.

Before coming to UND, Carmichael held an assistant teaching appointment and was an instructor in the Upward Bound Program at the University of Georgia. She's also served in instructor positions at Athens Area Technical College and Dekalb College, both in Georgia. She received the Outstanding Teaching Assistant Award from the University of Georgia in 1993.

Carmichael received her bachelor's degree from Grove City (Pa.) College, where she graduated summa cum laude. She earned her master's and Ph.D. degrees in English from the University of Georgia in 1992 and 1998, respectively.

James C. Ray

James C. Ray is president of the Aerospace Capital Group and president of the Ray Foundation of Naples, Florida. Ray has invested in more than 300 high tech aerospace and computer ventures, including Compaq Computer and Cirrus Design of Grand Forks and Duluth. Ray has funded many innovative ventures at an early research stage to advance solutions for air and pilot safety, including advancement of simulator training and curriculum development. He also is the lead investor in the Hilton Garden Inn located near the UND Center for

Innovation. "Jim is one of the most accomplished angel investors in the nation," said Center for Innovation director Bruce Gjovig in his nomination letter. "He has a significant record of investing in innovation and technology entrepreneurs, matched only by large institutional funds, not individuals. He was a venture capitalist long before being a venture capitalist was cool."

Ray first heard of the University of North Dakota from his neighbor in Switzerland, Chester Fritz, in the late 1950s. At that time, Fritz was making his gift of the Chester Fritz Library for UND's 75th anniversary celebration in 1958. Fifty years later, Ray has become a major benefactor to UND, donating \$12 million toward the growth of entrepreneurship and aerospace for the benefit of students, enabling these programs to become nationally and internationally recognized for excellence.

"The Entrepreneur Program at UND would not be ranked in the top 1 percent of the entrepreneur programs nationally by Princeton Review without the endowment and operating support that Jim provided," Gjovig said. "His support includes funding for interns and staff with the Center for Innovation and two faculty positions in the Department of Entrepreneurship in the spirit of a venture philanthropist making strategic investments."

Gjovig added, "What really drives Mr. Ray is the outstanding students on the UND campus. He makes sure he has great access to entrepreneur and aerospace students when he is on campus, engaging in their life stories and career goals. He has commented many times on the superior quality of our students who have good intellect, strong work ethic, and who expect to earn their way into the world."

Since the late 1960s, Ray has served as president of the Ray Foundation, which distributed millions of dollars in royalties earned from the development and sale of a cattle vaccine to a variety of programs including anti-drug education and mental health organizations.

He has been active in aviation for more than 65 years since joining the U.S. Army Air Corps following the Japanese attack on Pearl Harbor in 1941. Ray was a B-17 bomber pilot during the war. Major Ray also was on active duty with the U.S. Air Force during the Korean conflict. He has been owner and chief pilot of numerous aircraft since 1948 and has traveled the world in a jet.

-- Peter Johnson, Executive Associate Vice President for University Relations, 777-4317,
peterjohnson@mail.und.edu

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ANNOUNCEMENTS

Contact information for VP for research & economic development

When contacting Phyllis E. Johnson, vice president for research and economic development, please be careful to use the correct e-mail address (phyllisejohnson@mail.und.edu) to avoid mis-directed e-mails.

-- Rosemary R. Thue, Assistant to the VP for Research & Economic Development, Office of the Vice President for Research & Economic Development, rosemarythue@mail.und.nodak.edu, 777-4915

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Bradley named chair of Microbiology and Immunology at UND Medical School

David Bradley has been named chair of the Department of Microbiology and Immunology at the UND School of Medicine and Health Sciences.

An associate professor of microbiology and immunology, Bradley joined the UND medical school in 1998. He completed his doctoral degree at the University of South Dakota School of Medicine and took postdoctoral

training at the University of North Carolina, Chapel Hill, and the Mayo Clinic College of Medicine. Within the Department of Microbiology and Immunology, he served as director of Graduate Education from 2004 to 2008 and as interim chair from January to June of 2009.

Bradley and his laboratory team investigate immune responses in both autoimmune and infectious diseases. A primary focus is research aimed at creating avian diagnostic and therapeutic antibodies to emerging viral pathogens. His research has been funded by a number of sources, including the U.S. Department of Energy, National Institutes of Health, National Science Foundation, the state of North Dakota and the Arthritis Foundation.

He has written numerous articles for research journals and book chapters, is a peer reviewer for several scientific journals and serves on both the National Institutes of Health and Department of Defense study sections.

"This is an exciting time of growth for the Department of Microbiology and Immunology," said Bradley. "It's a chance to build on our expertise in infectious disease and recruit excellent new talent to UND."

-- Wendy Opsahl, Communications Director, Center for Rural Health, wopsahl@medicine.nodak.edu, 777-0871

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University Within the University (U2) lists new classes

Licensed Logo Vendors

August 4, 10 to 11 a.m., Memorial Union, Medora Room

Step-by-step instructions for ordering trademarked items. Presenter: Sara Satter

Room Scheduling 101: Helping Us Help You

August 5, 10 to 11 a.m., Memorial Union, Lecture Bowl

Brush up on room scheduling processes and procedures to understand how to schedule your room correctly the first time so you don't pay the price during the semester. This session includes a demonstration on the new Ad Astra Online room schedule viewer, how to use it, and why. There will also be some discussion on the new feature in Ad Astra for decentralizing scheduling events within the room scheduling software and how decentralizing event scheduling may help your department. Presenters: Kayla Hotvedt & Marge Ricke

Purchasing Policies & Procedures

August 11, 9 to 10:30 a.m., Memorial Union, Badlands Room

Discuss current and new policies and procedures. Presenters: Scott Schreiner & Vicki Von Harz

Be Well: New wellness program and you.

August 11, 9 to 10 a.m., Memorial Union-Memorial Room

Discover how to participate in the BCBSND MyWellnesCenter and Health Club Credit programs. We will jump start you on your way to becoming active in the program, understanding the benefits and learning how you can earn up to \$250 in incentives by building a healthier you! Instructors: Kim Ruliffson and Carrie Herrig

Internet Safety for Kids: A Parent's Guide

August 11, 1 to 3:30 p.m., Upson II, Room 361

The Internet can help kids learn, communicate, and socialize, but it also exposes them to certain risks. This seminar will help parents learn how to protect their young children and teens and keep them safe online. Some of the topics include risks associated with popular Internet tools and social networking sites; how to filter objectionable Web content and use parental control software; cyberbullying and how to prevent it; how to

educate children about Internet predators; and Web resources for parents to learn about and then use to educate their children. Presenter: Brad Miller

Records Disposal

August 12 OR Aug 13, 10 a.m. to noon, Skalicky Tech Incubator, Room 211

Year-end is upon us and once again it is time to look at disposing of records. This session will review the disposal process. Points covered include, reading/using the retention schedule, navigating the RM website, completing the process. This course is intended for those staff members directly involved in disposing of UND records. Presenter: Chris Flynn

Defensive Driving

August 12, 6 to 10 p.m., Skalicky Tech Incubator, Room 211

This workshop is required by State Fleet for all UND employees who drive State Fleet vehicles on a regular (monthly) basis, received a traffic violation, or had an accident while operating a State Fleet vehicle. Employees are encouraged to bring a family member (spouse and/or dependents). This workshop may also reduce your North Dakota insurance premiums and could possibly remove points from your driving record. Presenter: Dan Lund

Running, Reading, & Reconciling Key Finance Reports in PeopleSoft

August 13, 9 to 10 a.m., Gamble Hall, Lanterman Center, Room 9

Prerequisite: Must have previously attended either a "Budgets Overview Inquiry" or "Budget vs. Cash Inquiry" U2 session and must have a PeopleSoft user ID and password for Finance Module.

This training provides the tools necessary to navigate through PeopleSoft in order to run, read, and understand PeopleSoft financial reports. Important tips will be provided to help you recognize why, when, and how to reconcile revenue and expense transactions posted to your funds. Troubleshooting tips and tools to help you resolve budgeting errors will also be provided. This session includes hands-on practice activities. Presenter: Tom Swangler

Preventing Workplace Violence

August 13, 2 to 3:30 p.m., Skalicky Tech Incubator, Room 211

Workplace violence occurs all too often. Communication and training can help to prevent and deal with employee and/or client violence. This workshop will identify: underlying causes of workplace violence, warning signs, methods for heading off serious situations, as well as planning for prevention. Presenter: Jason Uhrir

MS Office 2007-How Will It Affect You?

August 13, 2:30 to 4 p.m., Upson II, Room 361

Become familiar with the dramatically different user interface in Office 2007 applications: The Ribbon. Learn how to recognize the new file formats for Excel, Word, PowerPoint, and Access 2007 documents. Learn about the file format compatibility issues between Office 2007 files and earlier Office versions. Find out how to install the free Office Compatibility Pack for opening and editing Office 2007 files in earlier Office versions, and how to save Office 2007 files in the earlier version (Office 97-2003 file format). This is an informational presentation, not a hands-on session. Presenter: Heidi Strande

-- Patricia Young, U2 Coordinator, Continuing Education, patriciayoung@mail.und.edu, 777-0720

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Graduate School will be closed July 28

The Graduate School office will be closed Tuesday, July 28, for an office retreat. If you have paperwork to deliver, please take this to the ND EPSCoR office in 415 Twamley Hall. Thank you.

-- UND Graduate School

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UND Athletics Speakers Bureau is created

UND Director of Athletics Brian Faison has announced the creation of the UND Athletics Speakers' Bureau. The bureau is a new initiative that is designed to expand the reach of UND Athletics in Grand Forks and the surrounding communities.

The primary goal of the bureau is to allow UND coaches and administrators the opportunity to speak in front of as many fans and supporters as possible.

The bureau will make requests for coaches and administrators for these engagements a much easier and streamlined process, with an on-line submission form available at fightingsioux.com. This is a free service to civic, professional and educational entities.

The UND Athletics Speakers' Bureau will be headed by Max Huber, Director of In-Game Management, Creative Services and Group Sales. For questions or inquiries, contact Huber at maxhuber@mail.und.edu.

-- Max Huber , Director of In-Game Management, Creative Services and Group Sales, Athletics,
maxhuber@mail.und.edu, 701-213-1110

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Donated sick leave requested for Jackie Davis

Sick and annual leave donations are sought for Jackie Davis, RAIN Program Nurse Mentor. She thanks you in advance for your generosity. Please send any donation of leave forms to LoAnn Hirsch (LoAnn @ RAIN - Stop #9025). For a form, go to www.und.edu/dept/payroll, then click on forms.

-- LoAnn Hirsch, RAIN Program Administrative Secretary, UND College of Nursing,
loannhirsch@mail.und.edu, 777-3224

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Note changes to mileage and in-state lodging rates

Rates for mileage and in-state lodging were changed during the past legislative session. Both of these changes will take effect August 1.

Senate Bill 2064, Section 1d allows the director of the Office of Management and Budget (OMB) to establish an in-state lodging rate not to exceed 90 percent of the rate established by the United States General Services Administration, plus applicable state and local taxes. At the time of this writing, 90 percent of the GSA rate for lodging in North Dakota is \$63. The GSA may periodically change the rate for lodging and OMB will adjust the in-state lodging rate accordingly during the biennium.

Senate Bill 2064, Section 7, 1c changes the mileage reimbursement to that established by the United States GSA. At the time of this writing the rate was 55 cents per mile, however, the GSA may change the rate several times during the biennium. Again, both of these changes will be effective for travel occurring August 1 and after.

If you have any questions please contact any of the following:

Bonnie Nerby, Accounting Services Auditor at 777-2966 or bonnienerby@mail.und.edu

Allison Peyton, Director of Accounting Services at 777-2968 or allisonpeyton@mail.und.edu

-- Carl Iseminger, Accounting Services Assistant, Accounting Services, carliseminger@mail.und.nodak.edu,
777-4131

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Union Convenience Store closed Friday, July 31

The Memorial Union Convenience Store, U Snack, will be closed this Friday, July 31 for store maintenance. Regular hours will resume again on Monday, August 3. We apologize for the inconvenience.

-- Jeffrey St. Michel, Assistant Director, Dining Services, jeffreystmichel@mail.und.edu, 777-3823

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UND Athletics offers group ticket packages, discounts

Treat your group of family, friends, colleagues, or clients to the excitement of UND Athletics.

There are great packages at reduced ticket prices available for groups of twenty or more at UND football, basketball, volleyball, women's hockey and select men's hockey games (Homecoming game excluded from group sales).

Make sure your group is not left out of the fast paced and action packed season. Come out and support UND.

-- Max Huber, Director of In-Game Management, Creative Services and Group Sales, Athletics, maxhuber@mail.und.edu, 701-213-1110

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Road repairs will take place through Friday on Manitoba Ave.

Road repairs began Monday, July 27, on Manitoba Ave. west of Stanford Rd. The curb and gutter repairs are scheduled to be completed by Friday, July 31.

-- Deb Merrill, Asst. to Asc Dir of Facilities, Facilities Total, debmerrill@mail.und.edu, 777-2591

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Bike path closed for repairs

Repair work begins Monday, July 27, on the bike path between University Avenue and 6th Avenue North. The repairs should be completed by the middle of August. Thank you.

-- Paul Clark, Associate Director, Facilities Management, paulclark@mail.und.edu, 777-3005

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Denim Day is July 29

Since it's the last Wednesday of the month, July 29 is Denim Day. Pay your coordinator your \$1 and enjoy going casual.

If you need buttons or posters, let me know. As always, all proceeds to charity.

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

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EERC awarded subcontract to help produce renewable jet fuel from algae

The Energy & Environmental Research Center at UND has been awarded a subcontract by Science Applications International Corporation (SAIC) [NYSE: SAI], a Fortune 500 scientific, engineering, and technology applications company based in San Diego, California, to help produce jet fuel from algae. As an example of its potential, just one acre of algae produces between 5,000 and 15,000 gallons of fuel, compared to only 50 gallons from 1 acre of soybeans.

The effort is being funded by the U.S. Department of Defense's Defense Advanced Research Projects Agency (DARPA) and is a continuation of the world's first successful production of 100% renewable fuel for the U.S. military by the EERC.

"The EERC provides real-world solutions to our nation's mounting economic, environmental, and security challenges," said EERC Director Gerald Groenewold. "With our military and commercial partners, the EERC is committed to developing our renewable fuel technologies that directly address the critical issues facing our nation," he said.

Under a previous DARPA contract, the EERC advanced the development of a feedstock-flexible process that can utilize various crop oil feedstocks to produce combinations of renewable jet fuel, diesel, and naphtha (a constituent used to create chemicals and gasoline) that are essentially identical to their petroleum-derived counterparts.

The EERC will utilize the same proprietary technology to produce jet fuel from algae oils. Working with SAIC to produce the fuels from algae enhances the EERC's capabilities for commercial production of economically viable renewable fuels that are fully interchangeable with existing fuels and distribution networks, do not negatively impact the world's food supply, and are environmentally benign.

"With algae, the EERC will expand feedstock options for our renewable fuel technology," said Chad Wocken, EERC Senior Research Manager. "With each feedstock tested, the technology is optimized to achieve maximum conversion of feedstock to fuel, resulting in lower-cost fuels," he said.

SAIC is working closely with its teammates to identify ways to minimize the cost of algae production and achieve DARPA's jet fuel (JP-8) cost target of \$3.00/gallon. Algae is a promising feedstock of the future because its oil yields per acre and growth rates are orders of magnitude higher than traditional oilseeds. Algae can also be grown in areas that are not suitable for other crops, like corn or soybeans.

Together, SAIC and the EERC will produce fuel samples for government test and evaluation. Sample production will be performed in the EERC's liquid fuel demonstration facilities.

Information generated during this effort will support development of a design for a pilot test facility with the flexibility to produce either diesel or jet fuel in response to market demand. This effort will advance the research and allow for a detailed assessment of the economic viability of the EERC's renewable oil-refining technology.

-- Derek Walters, Communications Manager, EERC, dwalters@undeerc.org, 777-5113

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EERC renewable designer fuel makes aviation history

Renewable jet propellant-8 (JP-8) fuel developed and produced by the Energy & Environmental Research Center at UND was successfully flown in a rocket built by Flometrics, Inc., a product engineering company specializing in fluid dynamics and thermodynamics based in San Diego, California. The fuel burn was so successful that the rocket approached Mach 1 (the speed of sound) and reached an altitude of about 20,000 feet. The launch was conducted on a hot summer day in the Mojave Desert, home to numerous aviation and rocket tests throughout history, just outside of San Diego.

"The demonstration worked very well, and we were pleased with the fuel. In fact, it performed better than expected," said Steve Harrington, President of Flometrics. "The initial launch was a little explosive, which we call a hard-start, but it ended up working very well. The rocket appeared to have reached the transonic regime close to Mach 1. The data are currently being evaluated for more details on this exciting flight," he said.

The EERC's fuel was created from completely renewable crop oils, such as canola and soybeans. Developed through a variety of existing contracts, the fuel was vigorously tested at the Wright-Patterson Air Force Base Air

Force Research Laboratory (AFRL), a cosponsor of the test along with the EERC and Flometrics, and meets all of the screening criteria for JP-8 aviation fuel, a petroleum-based fuel widely used by the U.S. military. The major advantage of the EERC's renewable fuel is that the fuel can be designed to meet a wide variety of mission-specific requirements.

About 8 gallons of fuel was sent to the Flometrics research facilities, enough for two launches. The rocket used in the launch was originally built as a test rocket for the Discovery Channel series MythBusters. The rocket has previously been tested with standard Jet-A fuel and rocket propellant-1 (RP-1) kerosene, for which the rocket was originally designed.

"This is a unique opportunity for the EERC's renewable fuel," said EERC Director Gerald Groenewold. "Our fuel is already providing a pathway to energy security to the U.S. military and now is becoming an option for ground-to-air missiles and even space flight." Groenewold added the fuel burns extremely clean, minimizing the environmental footprint and substantially reducing upper atmospheric particulate.

The EERC is currently securing further funding for more extensive rocket testing of the fuel. The AFRL may also be testing the fuel in this type of high-propulsion scenario. Video of the rocket launch is available at www.undeerc.org.

About Flometrics

Flometrics has been extensively involved in the amateur liquid-fueled rocket world since 1998. The company has built and flown four liquid propellant vehicles and performed numerous static tests on various Jet-A-fueled rocket engines. Visit www.flometrics.com to learn more.

About AFRL

The AFRL is the Air Force's only organization wholly dedicated to leading the discovery, development, and integration of war-fighting technologies for our air, space, and cyberspace forces. It is a full-spectrum laboratory, responsible for planning and executing the Air Force' science and technology program. Visit www.wpafb.af.mil/AFRL/ for more information.

-- *Derek A. Walters, Communications Manager, Energy & Environmental Research Center,*
dwalters@undeerc.org, 777-5113

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IN THE NEWS

UND atmospheric scientist gets NSF funds to study severe storm systems

UND climate scientist earns major National Science Foundation research grant to study severe storms

Gretchen Mullendore, an atmospheric modeler and assistant professor in the UND Department of Atmospheric Sciences, has been awarded a three-year, \$355,155 research grant by the National Science Foundation (NSF).

Mullendore, an expert on how major storms form in the atmosphere, earned the NSF grant for her proposal titled "Deep convective transport to the upper troposphere/lower- stratosphere." The proposal was submitted to the Physical and Dynamic Meteorology Program of the NSF Atmospheric & Geospace Sciences Division.

"To do this research, I'm going to use radar observations and atmospheric computer models to measure the amount of pollutants that are transported vertically in severe storms," said Mullendore.

"Severe thunderstorms, like the type we get in the summer months in North Dakota, ingest air from the surface and rapidly transport that air upwards 10-15 kilometers," Mullednore said. At those high altitudes, she said, pollutants can cause changes in the chemical balance of the atmosphere, which in turn can change the amount of heat absorbed by the Earth.

"Both the chemical changes and the amount of heat absorbed by the Earth are important for understanding changes in climate," Mullendore said.

Mulledore's NSF grant includes funds to support two graduate students and an undergraduate research assistant. There is also funding for Jeff Tilley, a research faculty member in atmospheric sciences. The department is part of the UND John D. Odegard School of Aerospace Sciences.

-- Juan Pedraza, Writer/Editor, University Relations, juanpedraza@mail.und.edu, 777-6571

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