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MAR 23 2006

Connecting Campus and Community

UM scientist helps discover leaky Saturn Moon

Enceladus, the icy sixth moon of Saturn, has sprung a leak.

Scientists analyzing data from NASA's Cassini spacecraft — including researcher Dan Reisenfeld at The University of Montana — have discovered a plume of gas venting from the moon's south pole. This plume evidently explains the mysteriously high levels of water vapor found in Saturn's magnetosphere.

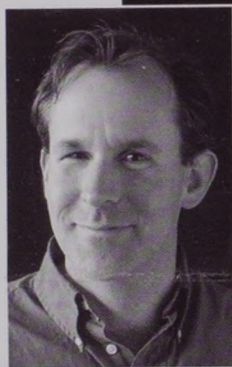
The team's work was published in the March 10 issue of *Science*, one of the world's leading research journals.

"I love being part of this," Reisenfeld said. "This is pure discovery. You are learning something that nobody on the entire planet ever knew before."

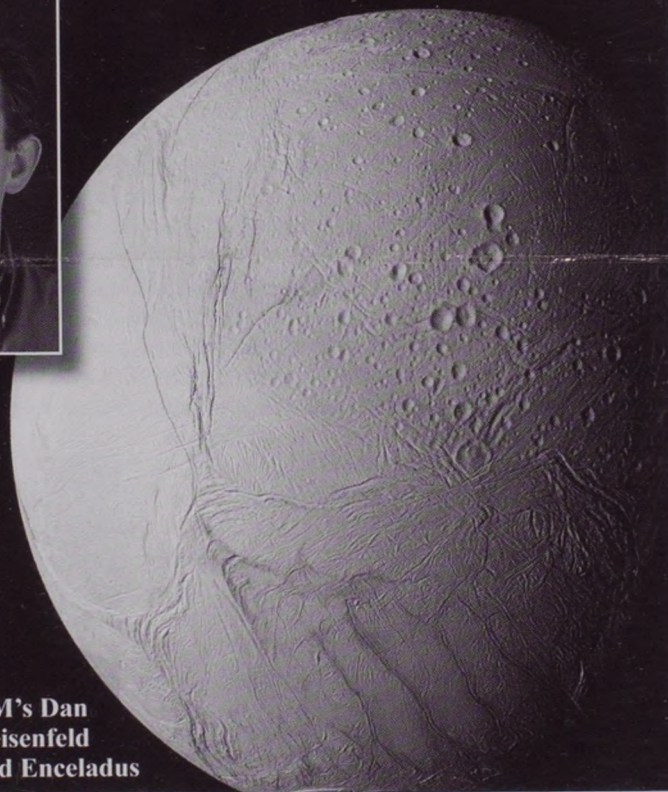
Named for a Titan from Greek mythology, Enceladus [en-SELL-ah-dus] was long considered an average Joe among Saturn's nearly 50 known moons. Only 310 miles in diameter, the white moon reflects most of the sunlight striking it, keeping the surface a chilly minus 330 degrees Fahrenheit.

But upon closer examination the satellite becomes more interesting. The surface is scoured by fissures, plains, corrugated terrain and other crustal formations that suggest it has been resurfaced in the recent geologic past.

Reisenfeld said Cassini spacecraft scientists noticed an odd deflection of the magnetic field of Saturn around Enceladus last year, so they reorientated the probe's trajectory for a close flyby of



UM's Dan
Reisenfeld
and Enceladus



NASA Cassini spacecraft image

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National Archives, Kew, Surrey, England

Part of a 1924 map of Western Montana by explorer David Thompson. Note that Flathead Lake (upper center) was called "Saleesh Lake" back then. It also shows locations for the "Saleesh" and "Snake" Indian nations.

University publishes historical maps

UM's Regional Learning Project has scoured archives across the continent, seeking historical maps depicting Big Sky Country. The latest finds — 20 maps titled "West of the Divide/Salish, Pend d'Oreille, Kootenai" — have just been published.

The maps are the third in a series called "Discovering Our Own Place, A Map Saga for Montana." The newly printed 9-by-12-inch full-color images show areas west of the Continental Divide in Montana at various stages of development.

"They are a visual resource for place names, trails, location of tribes and the changing political landscape throughout the 19th century," said Kim Lughart, who does research and produces publications for the Regional Learning Project. "They are useful in classrooms, but we have

found the general public is also extremely interested in them."

Two maps by Pierre Jean DeSmet are featured in this set. DeSmet, a Jesuit priest, was the first missionary to visit Montana and start a settlement. One of his maps from the early 1840s is a beautiful sketch titled "Clark Fork & Kootenay Rivers and their tributaries."

The other DeSmet map shows a Western Montana section he prepared for the 1851 treaty negotiations at Fort Laramie, Wyo. His map draws lines around tribal territories in what would become Montana for the first time.

The "West of the Divide" maps are available at The Bookstore at UM for \$54. More information may be found by visiting <http://web.umtbookstore.com/>

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Enrollment Rises—Once again, UM set a new record for spring semester enrollment. A total of 13,285 students are taking classes this semester, an increase of 246 over last spring. In addition, full-time equivalents (FTE) increased slightly for a total of 11,095.80, compared to last spring's 11,035.80. An FTE represents 15 undergraduate or 12 graduate semester credits. This spring's boosted enrollment came at the undergraduate level and mostly is made up of part-time students. It comes almost entirely at the College of Technology, which enrolled a total of 1,303 students — 234 more than spring semester 2005.

UM Adds Climate Office—Gov. Brian Schweitzer has officially endorsed an office of climatology at UM. This means the Montana Climate Office — located in UM's College of Forestry and Conservation — has become one of the state's premier conduits for weather and climate information. The Montana Climate Office's Web site, <http://climate.nts.umn.edu/index.html>, is a gateway to information including weather alerts, current satellite snapshots of Montana skies and instant links to weather conditions in communities across the state. The Web site is maintained by UM's Numerical Terradynamic Simulation Group.

Special Print Exhibits—UM's Montana Museum of Art and Culture is showing two special exhibitions of prints that are rarely on display for public viewing. "The Pop Prints of Blake, Kitaj and Salle" and "Prints of the 1970s from the Permanent Collection" will be in the museum's Meloy and Paxson galleries through May 6. These complementary exhibitions feature prints from the museum's Permanent Collection by several internationally known abstract expressionists and pop artists. The two art styles convey the transitions between post-World War II art and art of the 1950s and 1960s. For gallery hours and more information, visit <http://www.umt.edu/partv/famus/>.

Funding Indian Leaders—UM's O'Connor Center for the Rocky Mountain West has received \$40,000 to operate the Indian Leaders Institute for a second year. The Helena-based Student Assistance Foundation made the grant to help continue efforts to enhance tribal self-governance, strengthen American Indian/state relations and encourage opportunities for future Indian leaders now graduating from post-secondary schools. This year, the institute plans to hold two governance seminars on the Fort Peck and Blackfeet reservations, as well as initiate professional development opportunities for Indian post-secondary students.

Joining the Corps—The Peace Corps has released its list of "Top-Producing Colleges and Universities 2006," and UM retained its top-10 ranking for medium-sized institutions. With 39 alumni volunteers, UM ranked ninth nationally among colleges with undergraduate enrollments between 5,001 and 15,000. Last year UM was ranked 10th. This year's ranking places UM ahead of institutions such as Boston College and Brown, Harvard, Northwestern and Yale universities. Montana State University landed at 13th on the list with 31 alumni volunteers.



Star-Studded Evening—A prominent musician and a talented actor/singer/playwright will headline the sixth-annual Odyssey of the Stars — A Celebration of Artistic Journeys at 7:30 p.m. Saturday, April 8, in the University Theatre. Performing artist Gary Herbig '69 and actor Dennis Kozeluh '82 will return to the UM stage during the event, which raises money for UM's School of Fine Arts scholarship fund. Odyssey of the Stars showcases fine arts alumni who have gone on to successful careers. Herbig, a Billboard Top-10 jazz artist, is one of the most successful studio musicians in the business today. An accomplished soloist on all woodwind instruments, he has toured and recorded with Elvis, Donna Summer and other superstars. Kozeluh, a bass-baritone, has performed on musical, operatic and theatrical stages for more than 20 years. Living and performing in Vienna since 1983, he has appeared in more than 60 productions. For information about sponsoring the Odyssey of the Stars or to purchase tickets, call (406) 243-4971.

School Honors Partners—The UM School of Education recently held a reception to present its 2006 Partnership Awards. The awards recognize individuals and programs in the community that consistently provide mentoring to education students through various field experiences. The annual event provides individuals and community programs public recognition for their support. The Partnership Award acknowledges the important role each program or individual has in helping to prepare UM students for professional careers. This year's award recipients are: the English departments at Big Sky, Hellgate and Sentinel high schools; Mike Rankin, fitness director at the Missoula Courthouse Sports and Fitness Club; and Greg Oliver, a school counselor at Paxson Elementary School. Also presented was the 2006 Outstanding Educational Leadership Award to Mary Sheehy Moe, dean of Montana State University's Great Falls College of Technology.



"Giant," a UM museum wood engraving by Peter Blake

First-Prize Journalist—Stan Pillman, a senior in broadcast journalism at UM, took first place in the recent radio-news round of the Hearst Journalism Awards Program — considered the Pulitzers of college journalism. A student from Chicago, Pillman received \$2,000 for his efforts and the opportunity to advance in the competition. If he performs well in the next round, he will be invited to the June finals in San Francisco. Pillman's first-place stories were about meth use and a series of assaults in downtown Missoula.

No Longer Bland—A trip through the stairwell of UM's School of Education building has become a lot more interesting. The stairwell walls of the second and third floors now have colorful quilts hanging on them. A third quilt also will soon be hung as well. The quilts were donated by Don Wattam, a School of Education alumnus and adjunct faculty member. Wattam made the quilts himself exclusively for the school's stairwells.

Students Land Fellowships—Four UM students are among 24 in the nation recently named 2005-06 Doris Duke Conservation Fellows by the Woodrow Wilson National Fellowship Foundation. The fellowships went to students enrolled in multidisciplinary master's degree programs at UM, Yale and Duke universities, and the universities of Michigan and Wisconsin. Montana's 2005-06 Doris Duke Conservation Fellows are Jeffrey Gailus, Anna Holden, Jamie Silberberger and Christa Torrens. The four are graduate students in the University's Environmental Studies Program. The fellowships pay for a year of tuition, up to \$25,000, and provide a \$5,000 stipend for a summer internship.

Modern Musicians Honored—UM students Elisha Williams and Jason Varnado and UM Assistant Professor Charles Nichols have been selected to perform at this year's annual conference of the Society for Electro-Acoustic Music in the United States. The conference will be held March 30-April 1 at the University of Oregon in Eugene. Williams, who is from Frenchtown, will present her composition "Silver Morning" for quadrasonic computer-generated sound. Varnado, a senior from Helena, will present "Epitaph," a composition for octaphonic computer-generated sound inspired by Bart, a Kodiak bear of Hollywood fame. Nichols, who teaches composition and music technology at UM, will present "The Air Inside Our Heads" for electric violin and computer.

Exploring Pakistan—Sarah Halvorson, UM associate professor of geography, has been awarded the 2006 McColl Family Fellowship by the American Geographical Society. The fellowship, funded by Dr. and Mrs. Robert W. McColl, covers airfare to anywhere in the world to conduct research that results in an article suitable for publication in the AGS magazine FOCUS on Geography. Halvorson plans to spend three months in Northern Pakistan making field visits to 10 mountain villages to assess the impact of the recent cataclysmic South Asian earthquake. She will travel overland from Islamabad to remote villages to explore the wide-scale destruction and local response and recovery efforts.

Alcohol Education—There is safety in numbers, say UM's new alcohol awareness posters. The posters offer information such as how much a person can safely drink in a night and in what situations it is not safe or legal to drink. More than 400 copies of the poster are being posted around campus and the Missoula community. The posters grew out of a collaboration between the Curry Health Center's health enhancement department at UM, which designed and distributed the posters, and the Montana Department of Revenue, which paid for them.

Encouraging Young Scientists—The interactive radio program "Science is Cool" promotes scientific exploration using experiments that children can perform easily at home while adults are available for assistance and discussion. The segment airs every other Saturday morning during the two-hour "Children's Corner" program on the UM-based KUFM public radio. "Science is Cool" is hosted by UM Assistant Research Professor Katie George — "Dr. Katie" to her audience — who invites listeners to perform experiments at home along with her "lab assistants" in the studio. To reach wider audiences across the state, a four-compact disc set of the first "Science is Cool" broadcasts has been distributed to all Montana public libraries and elementary schools this month. The public radio program is funded by the Experimental Program to Stimulate Competitive Research grant awarded to UM jointly by the National Science Foundation and the state of Montana. 🐾



UM President George Dennison (left) accepts his award from Gov. Brian Schweitzer.

Group honors UM president

UM President George Dennison was named Educator of the Year by the Montana Ambassadors during that group's annual meeting Feb. 16 in Whitefish.

The Montana Ambassadors are a volunteer, nonprofit organization of leaders in business, education and the professions with a common dedication to living and doing business in Montana and furthering the interests of the state.

Rich Semenik, dean of the Montana State University College of Business, received the same award.

Larry Gianchetta, dean of UM's School of Business Administration, also was named Ambassador Plenipotentiary, an honor given periodically to an individual who exemplifies what an ambassador is supposed to be. 🐾

Charter Day winners named

UM celebrated its 113th birthday by presenting eight Charter Day awards on Feb. 17. Winners exhibited outstanding service to the University. The awards and their recipients are:

■ **Dennison Faculty Award** — Bob Pack, distinguished senior lecturer, UM Department of English.

■ **Dennison Staff Award** — Steve Wing, production manager, UM Department of Drama/Dance.

■ **ASUM Student Service Award** — Karissa Drye, coordinator, UM Advocates, UM senior.

■ **Robert T. Pantzer Award** — Paul Lauren, UM Regents Professor of History.

■ **Neil S. Bucklew Presidential Service Award**

— Ev and Nikki Sliter, UM alumni, Kalispell.

■ **Montana Faculty Service Award** — Garon Smith, professor, UM Department of Chemistry.

■ **Montana Alumni Award** — Bob Bonner, a friend of UM, Las Vegas.

■ **Community Service Award** — Dr. George Reed, volunteer at UM's Curry Health Center. 🐾



Bob Bonner (left) receives his plaque from UM President George Dennison.

the innocuous moon. On July 14, 2005, the craft zoomed within about 109 miles of the surface.

In the process, NASA had a few "Eureka!" moments. First, Enceladus has a slight atmosphere, making it only the third moon in the solar system (along with Jupiter's Io and Saturn's Titan) to have one. Secondly, Enceladus has volcanic activity.

"The plume of ionized water plasma coming off the south pole enshrouds the moon," Reisenfeld said. "However, this gas isn't gravitationally bound, so it would quickly dissipate if it weren't being continually replenished."

Like the Earth, Saturn has a magnetosphere — an invisible shroud of ionized gas trapped by a world's magnetic field. (The Earth's magnetosphere protects us from harmful space radiation.) Cassini found that water ions dominate composition of the magnetosphere closer to Saturn.

Reisenfeld said scientists previously theorized that the ionized water around Saturn came from its rings, which are mostly made of water. But now they know Enceladus is the source.

Why is a frigid moon volcanically active? Researchers don't know for sure, Reisenfeld said, but they speculate the gravity of Saturn and some of its other moons tear and elongate Enceladus, creating tidal warming on the small world in which the south pole is warmer than at the equator.

"It would be like if we discovered Antarctica was warmer than

the Sahara," he said. "The source must be internal heat. It's a reasonable theory."

Before becoming a UM astronomy and physics professor, Reisenfeld worked on NASA projects at Los Alamos National Laboratory in New Mexico from 1998 to 2004. He remains an active player with several space probe missions, and with Cassini his group interprets data from the ion mass spectrometer, an instrument that detects ionized particles.

At his Missoula office, Reisenfeld takes raw Cassini data and graphs it. "All the code that does the analysis is here at UM," he said. The ion mass spectrometer takes periodic snapshots of the atoms and molecules around Saturn and its moons, and he can then determine the proportions of ionized helium, atomic oxygen, hydronium or whatever is in a given area.

"NASA built the instrument [Cassini], and then the data comes down to Earth and is streamed to all these different scientists around the country that do different things with it," Reisenfeld said. "So if the data shows me something, I'm the first person on the planet to know this. It's a great feeling."

He said his group's Enceladus findings were published in *Science* under the title "The Interaction of the Atmosphere of Enceladus With Saturn's Plasma." His team leader and the article's lead author is Bob Tokar of Los Alamos National Laboratory.

Reisenfeld's upcoming plans call for outfitting a Montana Space Flight Prototype Facility at UM, which would test designs for future spacecraft. 🚀

Maps — continued

umtbookstore/ and then clicking on the "Understanding Regional History" box at the bottom of the page. Educational discounts are available for those who qualify.

The other two completed map sets in the series are "Hi-Line & Judith Basin/Gros Ventre" and "Rocky Mountain Front/Blackfeet." Lughart said a fourth in the series, "Missouri and Yellowstone River Headwaters/Crow," will be out soon. The maps are printed by UM's Printing and Graphic Services and published by The University of Montana Press.

The Regional Learning Project collaborates with tribes to produce top-quality, primary resource materials about American Indians, Montana and regional history. Projects include Web sites, videos and print media. Based at UM's Center for Continuing Education, the project works to disseminate primary historic resources to educators teaching Indian history and the settlement of the American West. 🗺️

Montana Lifelong Learning Institute classes—

March 31-May 5, meet on Fridays. Class schedule and registration: <http://www.umt.edu/ce/plus55>. Information: (406) 243-2905, jessica.carter@mso.umt.edu.

Track and field—April 1, Dornblaser Field. Information: <http://www.montanagrizzlies.com>.

Lecture—April 3, "Ethics of Community Justice Initiatives" by Norman Lavery, president, Common Quest Mediation, 12:10 p.m., Gallagher Building, Room L14, free. Information: (406) 243-6605, huntercs@mso.umt.edu, <http://www.umt.edu/ethics>.

Composers' Showcase—April 3-4, 7:30 p.m., Music Recital Hall, free. Information: (406) 243-6880.

President's Lecture Series—April 3, "Ethical Politics: Illusion or Reality?" by Robert Bellah, professor of sociology (emeritus), University of California, Berkeley, 8 p.m., University Theatre, free and open to the public. Information: UM President's Office, (406) 243-2311.

Play—April 4-7, "The Debutante Ball," 7:30 p.m. (2 p.m. matinee April

UM Events

8). Includes adult themes and partial nudity. Cost: \$15

general: \$12 students and seniors; \$5 children 12 and under. Tickets: PAR/TV Center Box Office, (406) 243-4581. Montana Theatre, PAR/TV Center.

Friends of the Mansfield Library Annual Banquet—April 6, 6 p.m., University Center Ballroom. Information: (406) 243-6800, julia.ludlow@umontana.edu.

Play—April 11-18, "Endgame," Montana Repertory Theatre production. Information: UM Department of Drama/Dance, (406) 243-4481

Student Chamber Recital—April 11, 7:30 p.m., Music Recital Hall, free. Information: (406) 243-6880.

Easter Eggstravaganza—April 15, the area's largest Easter egg hunt with prize eggs and candy, 1 p.m., UM Oval. A free event for children 9 and under. Information: University Relations, (406) 243-2522.

Art exhibit—April 17, "Montana Barns" and "California Industrials," by Peter Keefer, University Center Art Gallery, free and open to the public.



Main Hall to Main Street is published by University Relations at The University of Montana. Send questions or suggestions to Cary Shimek, editor, Brantly Hall 330, Missoula, MT 59812, or call (406) 243-5914. Brianne Burrowes, Rita Munzenrider, Patia Stephens and Cory Walsh are contributing editors and writers. Todd Goodrich is the primary photographer. The newsletter is online at <http://www.umt.edu/urelations/mainhall>.