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Research projects by more than 80 UMaine graduate students were exhibited at the third annual Graduate Research Exposition on campus, April 11-12. This year's event included a gallery of posters, as well as presentations. A team of judges reviewed the displays and made awards for creativity and technical presentation. Winning students will travel to Augusta later this spring to show their exhibits to legislators. See related story page 10.

Photo by Monty Rand

First-year enrollment continues to rise

New enrollment data show that the number of students choosing to enroll at the University of Maine is continuing to increase. This marks the fourth consecutive year of enrollment increases, which have been accomplished while maintaining the same admission standards.

As of April 6, the number of students who had confirmed their plans to begin taking classes at UMaine in September is 4 percent higher than last year at this same time. The number is 53 percent ahead of early April 1998, when UMaine began to post enrollment gains after seven years of decline.

The number of confirmed transfer students is up 12 percent over last year at this time.

"The fact that our enrollment numbers are continuing to increase is a very good sign," says John Beacon, UMaine's dean of Enrollment Management. "We have made significant gains since 1998 and we are confident that we can continue to sustain at least modest growth each of the next few years, despite projections of a downturn in the number of Maine high school graduates over the next decade."

Enrollment is up in every category and measures of student quality, such as SAT scores and high school class rank, are also on the rise.

UMaine President Peter Hoff made increasing enrollment a stated priority when he arrived at UMaine in 1997. He established the Enrollment Management operation and hired Beacon that same year.

Hoff has been active in working to spread the word about UMaine to prospective students and others,

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John Glenn next Cohen lecturer



John Glenn

Retired U.S. Sen. John Glenn, one of America's great heroes of the 20th century, will visit the University of Maine on Tuesday, May 1, 2000 for UMaine's third annual William S. Cohen Lecture. The event is scheduled for 10 a.m. in Hutchins Concert Hall.

Cohen, the Bangor native who represented Maine in Congress for 24 years and served as Secretary of Defense in the Clinton administration,

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In Perspective

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As a service to the University community, costs of producing Maine Perspective are underwritten by University Printing Services.



Council of Retired Employees formed by President Hoff

President Peter Hoff has created a council to recommend ways to improve interaction between the community of retired employees and the University.

The 12-member Council of Retired Employees, representing retired faculty, and professional and classified staff, has met twice this semester. Chaired by Harold Brown, 4-H specialist and Extension professor emeritus, the council is discussing ways to keep retirees involved in the University community for the benefit of both.

"Our biggest role is to facilitate a close relationship between all retirees and the University," says Brown. "We need to see to it that, once employees retire, they continue to be included in the life of the University. The community of UMaine retirees is an untapped resource and a base of (advocate) support. From volunteering to serving as mentors, retirees have many roles they can play."

The University of Maine System Office of Human Resources estimates that there are 976 retired UMaine employees. Upward of 40 employees are retiring this year.

While some emeritus faculty stay connected to the University through research and other activities, staff members often do not, says Brown. One of the first recommendations of the council may be to survey retirees to get a sense of their interests, including their ideas for involvement. Other preliminary suggestions of the council include inviting retirees to participate in the annual employee retirement banquet and reduced fees for campus activities. For former employees who spent their careers at UMaine and now live

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Students offer perspectives as part of Disabilities Awareness Days

The cold October rain was coming down heavy by the time Gordon Prahm got out of class and headed to his van in the parking lot. He needed his books for his next class and his lunch. He needed to get out of the rain.

But it turns out what Prahm really needed was the illegally parked vehicle, in the egress area beside his van, to move so he could open the door of his vehicle.

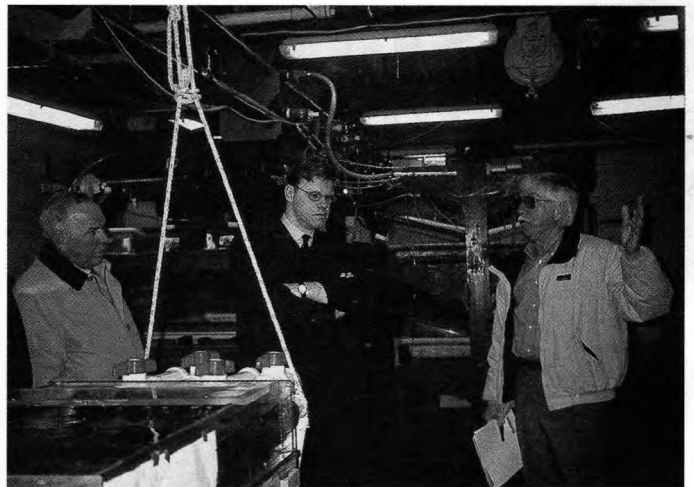
"If you're going to park near a handicapped spot, you need to check and see if you've left enough room for a wheelchair lift," says Prahm, a construction management technology major who commutes to campus from his home in Orrington. "That day, I had to come from the other side of campus to the Onward Building (to get help). I was late for my next class, and I was soaking wet. I had to go home."

This isn't the first time that access has been a problem for Prahm. But until members of a community like that at the University of Maine better understand and are mindful of the needs of persons with disabilities, Prahm says, there will be unnecessary conflict that affects quality of life.

"I understand Rome wasn't built in a day," says Prahm, 48, of the struggle to attain equal access for persons with disabilities. "I also know I can't get angry when something like this happens. But it does make you stressed when you're sitting in class wondering if you're going to be able to get back in your van (because someone parked in the egress area). I come to campus an hour early, and still return to find someone parked beside me."

"Perhaps awareness of the needs of others should be taught in a 100-level class," he says. "We're dealing with a certain ignorance, a

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Cooperative research opportunities involving the University of Maine and Iceland were discussed during a visit by Arni Mathiessen, Iceland's Minister of Fisheries, and his staff to the Darling Marine Center in Walpole, March 28. Mathiessen, pictured in the center, met with Kevin Eckelbarger, right, director of the Center, and other UMaine scientists for lunch and a laboratory tour. Also on the tour was Thorsteinn Geirsson, left, secretary general of the Ministry of Fisheries.

Lobster College created for crustacean enthusiasts

Enrollment is now open for the inaugural session of Lobster College, offered by UMaine's Lobster Institute, Sept. 13-16.

Lobster College is designed as a unique educational experience on the Maine coast for people interested in learning about Maine's premier crustacean.

Home base for Lobster College will be the Oceanside Meadows Inn, an historic sea captain's home at the head of Sand Cove in Prospect Harbor. Fieldtrips are scheduled throughout the Schoodic Peninsula and Frenchman Bay area as part of the curriculum.

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MAINE PERSPECTIVE PUBLISHING SCHEDULE

The final issue of *Maine Perspective* this semester:

May 7 (copy deadline April 27).

MAINE Perspective

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MAINE Calendar

<http://calendar.umaine.edu>

All events are free and open to the public, unless specified. Any speaker not otherwise identified is a member of The University of Maine faculty, staff or student body. Send notices of upcoming campus events to: The University of Maine Master Calendar, Public Affairs. For the most up-to-date calendar listings, see <http://calendar.umaine.edu> or call 581-3745.

APRIL 27 – MAY 19

27 Friday

Maine Poetry and Story Exchange, part of the New Writing Series, April 27, Soderberg Center, Jenness Hall. x3822.

"Dietary Intake and Growth of Children: An 8-Year Longitudinal Study," by Jean Skinner, professor, University of Tennessee, offered by the Dietetic Internship Program, 10-11:15 a.m., April 27, Dexter Lounge, Alford Arena. x3134.

"Fisheries Stock Assessment in Maine: A Population Dynamicist's Perspective," by Yong Chen, part of the School of Marine Sciences Seminar Series, 11a.m.-noon, April 27, 100 Bryand Global Sciences Center. x4381.

"Plant Exchange Programs in Beijing Botanical Garden," by Ling Guo, director of plant introduction of Beijing Botanical Garden, China, offered by the Landscape Horticulture Program, noon-1 p.m., April 27, 113 Deering Hall. x2768.

Performance by the Jazz Ensemble, part of the TGIF series, noon-1 p.m., April 27, Bangor Lounges, Union. x1793.

"Current Research in Franco-American Studies," with presentations by Jacques Ferland, Amy Morin and Suzanne Moulton, part of the Franco-American Studies Brown Bag Luncheon Series, 12:15-1 p.m., April 27, FFA Room, Union. x3791.

"Innovations in Undergraduate Research and Honors Education from the Schreyer National Conference," by Randall Alford, Darlene Bay, Eugene Del Vecchio, Dennis King, James Patton and Charlie Slavin, offered by the Center for Teaching Excellence, 1-2:30 p.m., April 27, Honors Center Studio Classroom, Colvin Hall. x3472.

"Bond and Static Bending Strength of FRP-Reinforced Glulam Beams Using Western Wood Species," by John Poulin, candidate for master's degree in structural engineering, 2 p.m., April 27, Advanced Engineered Wood Composites Center.

"Good Things Come in Small Packages: New Strategies for Fluorescence-Based Biosensors," by Paul Millard, a Department of Chemistry Colloquium, 2 p.m., April 27, 316 Aubert Hall. x1169.

"Ontology-Driven Geographic Information Systems," by Frederico Fonseca, candidate for graduate degree in spatial information science and engineering, 2 p.m., April 27, 326 Boardman Hall.

"Ecological Implications of Rockweed (*Ascophyllum nodosum*) Harvesting," by Jill Fegley, candidate for Ph.D. in ecology and environmental sciences, part of the Department of Biological Sciences Seminar Series, 3:10 p.m., April 27, 102 Murray Hall. x2970.

Bumstock, 3:30-11 p.m., April 27, Concert Park. Admission Fee. x1701.

International Coffee Hour, offered by the International Student Association and the Office of International Programs, 4-5 p.m., April 27, Bangor Lounge, Union. x2905.

"Destination Mars: Mission to the Red Planet," a Planetarium show for ages 9-adult, 7 p.m., April 27, Wingate Hall. Admission Fee. Reservations. x1341.

"Auden in Music," a performance by Nancy Ogle, Francis Vogt, Ginger Yang Hwalek, Liz Downing, Beth Wiemann and John Burns, part of the School of Performing Arts season, 7:30 p.m., April 27, Minsky Recital Hall. Admission Fee. x1755.

28 Saturday

Advanced Beginner Whitewater Canoeing, offered by Maine Bound, April 28. Admission Fee. Registration required. x1794.

Maine Poetry and Story Exchange, part of the New Writing Series, April 28, Soderberg Center, Jenness Hall. x3822.

Sea Kayaking Day Tour, offered by Maine Bound, April 28. Admission Fee. Registration required. x1794.

Women's Intermediate Rock Climbing, offered by Maine Bound, April 28, Eagle Bluff. Admission Fee. Registration required. x1794.

College of Liberal Arts and Sciences Annual Undergraduate Research and Creative Achievement Conference, featuring students presenting academic research and creative projects, 9 a.m.-4 p.m., April 28, Wells Conference Center. x1954.

Softball: UMaine vs. Towson, noon, April 28, softball field. xBEAR.

Bumstock, 1-11:30 p.m., April 28, Concert Park. Admission Fee. x1701.

Performance by Cellist Alisa Weilerstein, part of the Maine Center for the Arts performance season, 8 p.m., April 28, Minsky Recital Hall. Admission Fee. x1755. Concert preview by David Klocko, 7 p.m., Bowdell Lounge, Maine Center for the Arts.

29 Sunday

Softball: UMaine vs. Towson, noon, April 29, softball field. xBEAR.

"Our Sky Family: The Friendly Solar System," a Planetarium show for ages 4-8, 2 p.m., April 29, Wingate Hall. Admission Fee. Reservations. x1341.

University Orchestra Spring Concert, part of the School of Performing Arts season, 2 p.m., April 29, Minsky Recital Hall. Admission Fee. x1755.

30 Monday

"The Salton Sea: A Contemporary Wildlife Conservation Issue," by Milton Friend, Salton Sea Science Office, Middleton, Wis., part of the Wildlife Ecology Noontime Seminar Series, noon, April 30, 204 Nutting Hall. x2862.

Academic Honors Convocation, 3:30 p.m., April 30, Hutchins Concert Hall, Maine Center for the Arts.

1 Tuesday

PowerPoint Introduction, an IT workshop, 9-10:50 a.m., May 1, 215 Little Hall. Reservations required. x1638.

"Calculating Women: Using and Thinking About Numbers," with Sharon Crook, Susan McKay, Mary Rumpho, Natalie Steiger and Honey Warnke, part of the Women in the Curriculum Lunch Series, 12:15-1:30 p.m., May 1, Bangor Lounge, Union. x1228.

"Financial Returns to Northeast Timberland," by Julie Rodenberg, candidate for master's degree in forest management, 1 p.m., May 1, 204 Nutting Hall. x3217.

"The Evolution of the Environmental Justice Movement and Its Contributions Toward Community Building in the U.S.," by Deborah McCarthy, 3:15-5 p.m., May 1, 204 Fernald Hall. x2380.

Poetry Reading by Dick Lourie, part of the New Writing Series, 4:30 p.m., May 1, Soderberg Center, Jenness Hall. x3822.

GLBTQ: Coffee Talk, 7-8:30 p.m., May 1, 207 Little Hall. x1793.

Percussion Ensemble in Concert, part of the School of Performing Arts season, 7:30 p.m., May 1, Minsky Recital Hall. Admission Fee. x1755.

Performance by Beth Wood, part of the Coffeehouse series, 8-10 p.m., May 1, Bangor Lounges, Union. x1793.

2 Wednesday

"Can a Little Ice Age Signal be Found in the Southern Alps of New Zealand?" by Jessica Black, candidate for master's degree in Quaternary and climate studies, 2:15 p.m., May 2, 100 Bryand Global Sciences Center. x3217.

La Haine, part of the Cinematique film series, 7-9 p.m., May 2, Devino Auditorium, Corbett Business Building. Admission Fee. x1793.

3 Thursday

Alcohol & Drug Awareness Training for Supervisors, with workplace

consultant and clinical social worker Jill Balagur-Conn, offered by EAP, 2-4:30 p.m., May 3, Palmer Lounge, Mahaney Clubhouse. Registration required. x4014.

Maine Review Reading, part of the New Writing Series, 4:30 p.m., May 3, Soderberg Center, Jenness Hall. x3822.

Jazz Ensemble in Concert, part of the School of Performing Arts season, 7:30 p.m., May 3, Minsky Recital Hall. Admission Fee. x1755.

4 Friday

Beginner Whitewater Kayaking, offered by Maine Bound, May 4. Admission Fee. Registration required. x1794.

New Hampshire on the Rocks, offered by Maine Bound, May 4. Admission Fee. Registration required. x1794.

Alcohol & Drug Awareness Training for Supervisors, with workplace consultant and clinical social worker Jill Balagur-Conn, offered by EAP, 9-11 a.m., May 4, Palmer Lounge, Mahaney Clubhouse. Registration required. x4014.

"Caring for Our Children: Addiction and the Family," by clinical social worker Jill Balagur-Conn, offered by EAP, noon-1 p.m., May 4, Palmer Lounge, Mahaney Clubhouse. Registration required. x4014.

The Maine Event: Drive-In Movie on the Mall, 9 p.m., May 4. x1793. (In case of rain, Lengyel Gym.)

School of Marine Sciences Seminar by Dave Garrison, part of the SMS Seminar Series, 11 a.m.-noon, May 4, 100 Bryand Global Sciences Center. x4381.

"Polymers and Their Properties," by Tom McCarthy, Department of Polymer Science and Engineering, University of Massachusetts, a Department of Chemistry Colloquium, 2 p.m., May 4, 316 Aubert Hall. x1169.

"The Production of Emotional Prosody in Varying Severities of Apraxia of Speech," by Steffany Van Putten, candidate for master's degree in communication sciences and disorders, 3-5 p.m., May 4, 316 Dunn Hall.

"The Use of Structural Changes in Chloroplast and Nuclear Genomes in Phylogenetics, Symbiotic Relationships, Population Genetics," by Jim Manhart, Department of biology, Texas A&M, part of the Department of Biological Sciences Seminar Series, 3:10 p.m., May 4, 102 Murray Hall. x2970.

International Coffee Hour, offered by the International Student Association and the Office of International Programs, 4-5 p.m., May 4, Bangor Lounge, Union. x2905.

Spring Dance Concert, part of the School of Performing Arts season, 7:30 p.m., May 4, Hauck Auditorium. Admission Fee. x1755.

5 Saturday

Softball: UMaine vs. Hofstra, 11 a.m., May 5, softball field. xBEAR.

Baseball: UMaine vs. Vermont, noon, May 5, Mahaney Diamond. Admission Fee. xBEAR.

Benefit Concert by the Maine Steiners, with proceeds to benefit the Make-a-Wish Foundation, 7:30 p.m., May 5, Hutchins Concert Hall. Admission Fee.

Spring Dance Concert, part of the School of Performing Arts season, 7:30 p.m., May 5, Hauck Auditorium. Admission Fee. x1755.

6 Sunday

On the Water Sea Kayak Navigation Workshop, offered by Maine Bound, May 6. Admission Fee. Registration required. x1794.

Women's Beginner Rock Climbing, offered by Maine Bound, May 6, Eagle Bluff. Admission Fee. Registration required. x1794.

Softball: UMaine vs. Hofstra, 11 a.m., May 6, softball field. xBEAR.

Baseball: UMaine vs. Vermont, noon, May 6, Mahaney Diamond. Admission Fee. xBEAR.

Collegiate Chorale in Concert, part of the School of Performing Arts season, 2 p.m., May 6, Minsky Recital Hall. Admission Fee. x1755.

7 Monday

President's Open Office Hour, 2-3 p.m., May 7, President's Office, Alumni Hall. x1512.

8 Tuesday

PowerPoint Intermediate, an IT workshop, 9-10:50 a.m., May 8, 215 Little Hall. Reservations required. x1638.

VALIC Group Meeting for Employees, by Jane Brann, retirement planning specialist, 11 a.m.-3 p.m., May 8, 220 Corbett Hall.

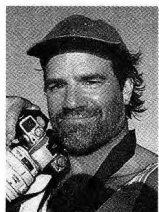
Booksigning by Jon Waterman, author of *Arctic Crossing: A Journey Through the Northwest Passage and Inuit Culture*, offered by Maine Bound, 3 p.m., May 8, Bookstore. x1794.

Division of Lifelong Learning Honors Convocation, 4-6 p.m., May 8, Soderberg Center, Jenness Hall. x3072.

Arctic Crossing Slide Show and Lecture, by Jon Waterman, author of *Arctic Crossing: A Journey Through the Northwest Passage and Inuit Culture*, offered by Maine Bound, 7 p.m., May 8, 101 Neville Hall. Admission Fee. x1794.

GLBTQ: Coffee Talk, 7-8:30 p.m., May 8, 207 Little Hall. x1793.

Look Who's On Campus



Adventurer Jonathan Waterman, author of *Arctic Crossing: A Journey Through the Northwest Passage and Inuit Culture*, will be on campus Tuesday, May 8. He will hold a booksigning at 3 p.m., University Bookstore, and a slide lecture at 7 p.m., 101 Neville Hall. Waterman has worked as a naturalist, Outward Bound instructor, park ranger, mountain guide, writer/editor and director of a small press. He has developed, written and appeared in the television documentaries, including ESPN's Emmy-winning *Surviving Denali*. Waterman is widely known for his diverse experiences on Mount McKinley. He began travelling to the Arctic 20 years ago.

Ongoing Events

Exhibits/Demonstrations/Tours

Department of Art Student Exhibition, a Museum of Art exhibit, through May 11, Carnegie Hall. x3255.

Ustamdan Orendim, "I Learned From My Master": Traditional Turkish Occupations, a Hudson Museum exhibit of photographs and objects, through June 3, Maine Center for the Arts. x1901.

Meetings of Groups/Organizations

Circle K, meets every Monday, 6:30 p.m., Bangor Lounge, Union.

Fellowship Meal, 5:30 p.m., every Thursday, Wilson Center. 866-4227.

Foreign Language Tables, Monday - French; Tuesday - Russian; Wednesday - German; Thursday - Spanish; Friday - Irish, 207 Little Hall. x2073.

Gay/Lesbian/Bisexual/Transgender/Questioning Discussion Group, meets every Monday, 6 p.m., Old Town Room, Union. x1793.

Maine Peace Action Committee (MPAC), meets every Monday, 3:30-5 p.m., Maples Building.

Muslim Prayer, noon-2 p.m., every Friday, Drummond Chapel, Union. x1793.

Wednesday Prayer and Meditation, 1-2 p.m., offered by the Wilson Center, Drummond Chapel, Union. 866-4227.

Open Mike Night, part of the Coffeehouse series, 8-10 p.m., May 8, Bangor Lounges Union. x1793.

9 Wednesday

Faculty Senate Meeting, 3:15 p.m., May 9, Mahogany Room, Wells Conference Center. x1167.

Blood Simple, part of the Cinematique film series, 7-9 p.m., May 9, Devino Auditorium, Corbett Business Building. Admission Fee. x1793.

10 Thursday

"Cultural Influences on Communication: Yes Means Yes and No Means No - Or Does It?" by Diana Lawson, founder and director of Family Connections, part of the EAP Lunch and Learn Series, noon-1 p.m., May 10, Bodwell Lounge, Maine Center for the Arts. x4014.

Cross-Cultural Conversations, offered by Peace Studies and Multicultural Programs, 3:30-5 p.m., May 10, 205 East Annex. x2609.

Poetry Reading by Laura Moriarty, part of the New Writing Series, 4:30 p.m., May 10, Soderberg Center, Jenness Hall. x3822.

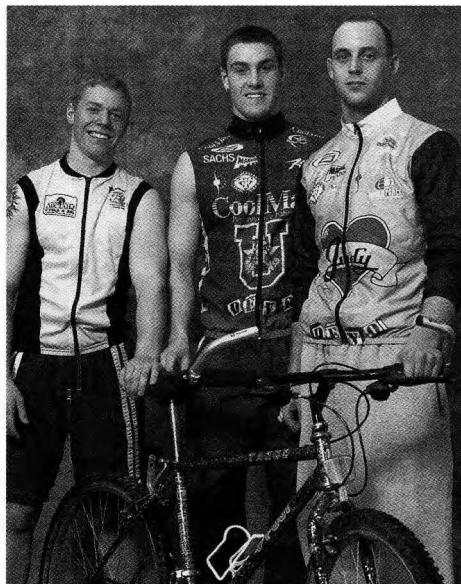
11 Friday

State Science Fair, 8 a.m.-5 p.m., May 11, Alford Arena. x4092.

"Phosphate Depletion in the Western North Atlantic Ocean," by Jinfeng Wu, research scientist, Department of Earth, Atmospheric and Planetary Sciences, MIT, part of the School of Marine Sciences Seminar Series, 11 a.m.-noon, May 11, 100 Bryand Global Sciences Center. x4381.

"Fortune's Rock," group discussion of Anita Shreve's portrait of French Canadian culture, part of the Franco-American Studies Brown Bag Luncheon Series, 12:15-1 p.m., May 11, FFA Room, Union. x3791.

"The Interface of Chemistry and Biology: Long-Range Electron Transfer in Proteins," by Harry Gray, a Staples Lecturer from the Department of Chemistry, California Institute of Technology, a Department of Chemistry Colloquium, 2 p.m., May 11, 316 Aubert Hall. x1169.



Three UMaine students from Augusta – business majors Abraham Furth and Kevin Bunker, pictured left and center, and engineering major Adam Wintle, right – will leave after finals week for a 3,640-mile trek by bicycle from San Francisco to Washington, D.C. to raise money for the prevention of child abuse. The three are gathering pledges toward their goal of raising \$150,000 to benefit the Maine Children's Trust, a statewide non-profit organization established by the Maine legislature to prevent child abuse and neglect through advocacy, education and community programming. Support for the cross-country journey, dubbed the "Black Bears for Kids Campaign," has included a donation of new touring bikes from Fuji America Advanced Sports Inc., and promotional advice by UMaine's Marketing Department. The students plan to ride 100 miles a day for 36 days, resting for nine days, reaching Washington by July 4. For Furth, this will be his second cross-country ride in two years to benefit those in need. Two summers ago, as a recent Cony High School graduate, Furth and a friend rode 4,600 miles from Anacortes, Wash., to Lubec to raise \$30,000 for a local shelter for abused women and children.

Photo by Monty Rand

"Impressions of a Biologist Traveling Around the World with Semester at Sea," by Irv Kornfield, part of seminar series of the School of Marine Sciences and the Department of Biological Sciences, 3:10 p.m., May 11, Devino Auditorium, Corbett Business Building. x4381.

International Coffee Hour, offered by the International Student Association and the Office of International Programs, 4-5 p.m., May 11, Bangor Lounge, Union. x2905.

Classes End, 5 p.m., May 11.

Baseball: UMaine vs. Northeastern, 7 p.m., May 11, Mahaney Diamond. Admission Fee. xBEAR.

Robinson Ballet and Los Angeles Brass Quintet in Concert, 7:30 p.m., May 11, Hauck Auditorium. Admission Fee. 942-1990.

12 Saturday

Sea Kayak Surf Zone Clinic, offered by Maine Bound, May 12. Admission Fee. Registration required. x1794.

Farmers' Market, 8 a.m.-1 p.m., May 12, Steam Plant parking lot. 827-2225.

State Science Fair, 8 a.m.-5 p.m., May 12, Alford Arena. x4092.

Baseball: UMaine vs. Northeastern, 1 p.m., May 12, Mahaney Diamond. Admission Fee. xBEAR.

Robinson Ballet and Los Angeles Brass Quintet in Concert, 7:30 p.m., May 12, Hauck Auditorium. Admission Fee. 942-1990.

13 Sunday

Baseball: UMaine vs. Northeastern, noon, May 13, Mahaney Diamond. Admission Fee. xBEAR.

Carmina Burana, performed by the University Singers, Oratorio Society, St. John's Youth choir, soloists and the Bangor Symphony Orchestra, part of the School of Performing Arts season, 3 p.m., May 13, Hutchins Concert Hall. Admission Fee. x1755.

14 Monday

Stress Free Finals, with various events to relieve stress during study times and between finals, May 14, Union. x1793.

Final Exams Begin, 8 a.m., May 14.

17 Thursday

FFA State Convention, 8 a.m.-4 p.m., May 17, Corbett Business Building. Admission Fee. x4092.

"The Power of the Media: Past, Present, Future," the 8th Annual Student Journalism Conference; registration required, 9 a.m.-3 p.m., May 17, Wells Conference Center. x1283.

Retirement Reception for Jeanne Soule, 3-4:30 p.m., May 17, Child Development Learning Center, Merrill Hall. x2441.

18 Friday

Francis Crowe Society Installation, for College of Engineering graduating seniors, faculty and distinguished members, 1-3 p.m., May 18, Minsky Recital Hall. x2217.

Graduate Recognition Ceremony, 4 p.m., May 18, Hutchins Concert Hall. Reception at Wells Conference Center. x3217.

Final Exams End, 6 p.m., May 18.

ROTC Commissioning Ceremony, 6 p.m., May 18, Devino Auditorium, Corbett Business Building. x1121.

School of Nursing Pinning Ceremony, 7:30 p.m., May 18, Hutchins Concert Hall. x2592.

19 Saturday

Commencement, May 19.

Farmers' Market, 8 a.m.-1 p.m., May 19, Steam Plant parking lot. 827-2225.

Yoga (session 3), offered by EAP, Fridays, noon-1 p.m., June 1-22, Dexter Lounge, Alford Arena. \$34. Preregistration required by calling EAP, 581-4014.

Hours for the Depot Recycling and Redemption Center: noon-6 p.m., Monday-Friday, 10 a.m.-2 p.m., Saturday. For more information, call Denny Grant, x3076.

People in Perspective

As a child, Patricia Henner aspired to be an archaeologist or a museum curator. For her, museums were magical places.

The Massachusetts native moved to Maine with her family in 1976. In Atkinson, she lived in a home built in 1845 by former UMaine President Fred Hutchinson's great-grandfather. On the old farmstead, Henner spent many days "excavating" for trash and treasure.

"My family has always been very aware of its heritage," says Henner. "I'm a second-generation American. My mother's family is from Portugal, my father's from Port Royal, Canada. They are always talking about the past, more so than the present and future."

Anthropology was a natural area of interest for Patricia Henner as an undergraduate at the University of Maine beginning in 1994. A year later, she worked in a work study position as a curatorial assistant at the Penobscot Marine Museum. For the next two years, she was a work study student in the Hudson Museum under registrar Kimberly Sawtelle.

Henner received a bachelor's degree in 1998. Her first of several field seasons was that summer when she joined Professor of Anthropology Alaric Faulkner on a 17th-century archaeological site near St. George.

"I was part of a small, intimate team of like-minded individuals excited about the same things," says Henner, who also has worked in the department's conservation lab.

Henner's master's thesis in historical archaeology is on the Stillwater Canal, a seven-mile passage used to move rafts of lumber around three falls on the Stillwater River. Lumber driven down the Stillwater to the Orono mills needed to be carted by oxen prior to the digging of the canal in 1828. Railroads put the canal out of business in the 1880s.

Henner's experience as a student learning the ropes of conservation and curation prepared her to work at the Page Farm and Home Museum as a graduate student. For three years, she applied her knowledge of preparing exhibits and cataloging artifacts, and learned museum administrative practices from longtime Page Museum Director Bill Reed.

At the start of this year, when Reed took a job with the American Red Cross, Henner was named interim museum director.

"The Page Museum is all about Maine," says Henner. "A lot of things here remind people of growing up in the state or, in my case, of living in a 19th-century farmhouse. Here, galleries are designed to put



Patricia Henner

Photo by Monty Rand

you in that time, place and atmosphere. For instance, the museum's main floor galleries are set up with a parlor, bedroom and kitchen, to appear as if someone just left the room."

Among the programs Henner is orchestrating is a History Fun Day for youngsters in grades K-5 – an opportunity for hands-on learning about games and activities of the past. Based on research of life in 19th-century one-room schoolhouses, a turn-of-the-century curriculum will be developed for today's school groups, with the cooperation of the AAUW.

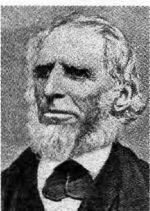
"When children tour the museum, we get the most excited responses during their visits to the one-room schoolhouse," Henner says. "Children can relate closely to the school experience."

The major project of the museum staff under Henner is the completion of recording the more than 6,000 pieces in the Page Museum collection on an electronic database. She also has been instrumental in adding interpretive text panels to the museum exhibits.

"I've been doing this because I love the museum and (care of) collections," Henner says. "It's about educating future generations about their past – who came before them and what the Maine experience is all about."

"A good museum is where people can go to see neat nostalgia," she says. "But a great museum teaches children about the type of life their great-grandfather experienced and the roots of our cultural heritage."

Faces Behind the Places



Ezekial Holmes, a central figure in Maine agriculture in the 19th century, strongly supported the idea of a state university. As a member of the State Board of Agriculture and editor of the *Maine Farmer*, Holmes put forward the idea of a separate college, geared to the "industrial classes" when a Morrill grant to establish a college in Maine was available. The library of Ezekial Holmes was purchased in 1872 to help build UMaine's library.



Winthrop Libby served as president of UMaine, his alma mater, from 1969-73. He began his career in 1934 as assistant professor of agronomy. Nine years later, he was named chair of the department. In 1950, he was the associate dean of the College of Life Sciences and Agriculture, and dean in 1957. He became director of the University Extension Service (Cooperative Extension and the Continuing Education Division) in 1963.



Lyle Jenness came to the University to teach mathematics in 1923. Three years later, he became a chemistry instructor, and eventually was named head of the Department of Chemical Engineering. In the early 1950s, he was instrumental in organizing the Pulp and Paper Foundation. Following his retirement in 1964, he was executive secretary of the Foundation for 10 years.



Leon Merrill directed UMaine's Agricultural Extension Service for 20 years. In 1911, he was named dean of the College of Agriculture, a position he held until his death. Merrill formulated Extension Service policies and established relationships with the farming community. Under his direction, the Extension Service grew to a key position in the agricultural life of Maine. Merrill received an honorary degree from UMaine in 1922.

University scientist joining Mt. Everest expedition

A post-doctoral researcher at the University of Maine will climb the shoulder of Mt. Everest in May in a project spurred by Chinese and American collaboration on global climate research.

Shichang Kang and other researchers with the Chinese Academy of Science will climb to 21,325 feet (6,500 meters) on the north side of the world's highest peak.

Kang left for China April 15 to make his fifth high-elevation climb in the region since 1992. He returns to Orono June 10.

For the past four years, he has been working with Paul Mayewski, co-director of the Institute for Quaternary and Climate Studies at UMaine and one of the world's leading ice core researchers.

Kang's destination is a relatively level area on the East Rongbuk Glacier. As have many Himalayan glaciers, the lower end of the Far East Rongbuk Glacier has retreated significantly (seven meters per year) in the past decade.

"The main crest of the Himalayas represents the climatic boundary between a region dominated by the influence of the Indian summer monsoon to the south, and the relatively cold and dry continental climate which characterizes the Tibetan plateau to the north. The location of the East Rongbuk Glacier . . . provides a unique opportunity to describe and understand the south Asian monsoon system and its relationship with the global climate system," he has written in a summary of the project.

Kang will take two weeks to travel by truck from the city of Lanzhou in western China to a base camp on the mountain at 16,700 feet. From there, the expedition will travel by yak to a second camp. Much of the trip will follow a river bed that drains melting glaciers on the northern side of Everest.

While at the work site, Kang and his colleagues will use ground-penetrating radar to determine the depth of the glacier to underlying bedrock. The team will also place an automatic solar-power weather station on the glacier and take global positioning system measurements at stations established in past years.

Kang plans to return to the site next year to drill a deep ice core. ▲

Undergraduate Research and Creative Achievement Conference

Some of UMaine's top student researchers in the arts, humanities, social sciences and sciences will provide formal presentations of their academic work at the annual Undergraduate Research and Creative Achievement Conference April 28.

Sponsored by the College of Liberal Arts and Sciences, the daylong event on campus is designed to spotlight academic excellence. It also offers these leading students the opportunity to formally present their work in a forum modeled after professional conferences. Most often such professional presentation opportunities are available only to students at the graduate level.

To be eligible for the Undergraduate Research and Creative Achievement Conference, students submit research or theory papers, or creative projects to their academic departments. One student may be selected per academic discipline. In the weeks leading up to the conference, faculty members work closely with the students as presentation advisors.

Student participants give 15-minute presentations on their papers or projects. At the close of the conference, each student receives a Dean's Certificate for Research and Creative Achievement in recognition of outstanding achievement.



Graduate student Jessica Sargent-Michaud, left, and undergraduate Jesse Hankla are this year's UMaine Student Employees of the Year. Hankla also has been named the State of Maine Employee of the Year by the Northeast Association of Student Employment Administrators. Hankla, who grew up in Bath, is a senior in business administration. For the past four years, she has been a work study student with Cooperative Extension, working first in the administrative offices, and then in the publications office on high-profile Web-based projects. Hankla graduates next month. Sargent-Michaud of Skowhegan studied natural resources as an undergrad, and is now pursuing a master's degree in the Department of Resource Economics and Policy. She has assisted faculty with field soil sampling and an ice fishing survey as a student field work assistant. Most recently, Sargent-Michaud was a teaching assistant in an introductory course in natural resources, and the developer of the Web site for the Natural Resources Program. This year, 26 UMaine students were nominated for employee awards. Photo by Monty Rand

Hoffs to lead fall course on higher education in literature

As a literary topic, college life has long captured the fascination of writers, filmmakers and others. In September, UMaine President Peter Hoff and his wife, Dianne, a faculty member in the College of Education and Human Development, will add their unique perspective on the subject as they team-teach an interdisciplinary course based on the academic novel.

The Hoffs will collaborate to teach an upper-level English and graduate education course, "The University in Literature." The course will use works of fiction to illuminate the culture of academia. Students who take the class can expect to learn more about the craft of fiction and also to gain deeper insights into the nature of colleges and universities. They can enroll in the three-credit course as either Topics in Literature (English 429) or Topics in Education (Education 690). It is scheduled for Mondays from 5-7:30 p.m.

Peter Hoff, who became UMaine's 17th president nearly four years ago, earned a Ph.D. in English and humanities from Stanford University in 1970, and began his teaching career at the University of Wisconsin-Parkside that same year. He has been a professor of English and an administrator in Indiana, Georgia and California during his 31 years in higher education.

Dianne Hoff, who holds a doctorate from the University of Louisville, is an assistant professor of educational leadership. She is a former English teacher and school principal. She has been a full-time faculty member at UMaine since fall 1999.

The course reading list will consist of six novels that deal in one way or another with higher education. They range from the traditional view of academia in *Goodbye Mr. Chips* to the sardonic vision created by Maine author Richard Russo in *Straight Man*. ▲

A personal call to healthcare



Mari-Ellyn Bennage

The Undergrad Experience

This May, Bennage will complete that nursing degree, which she says offers her and her son a new lease on life.

"As a divorced single mom, I realized I was not going to make it without an education," says Bennage. "I wanted to give my son more than what a single mom would be able to ever give him on a CNA's pay. I knew a degree would help me achieve that."

Eight years after graduating from high school, Bennage enrolled at UMaine in 1995 for a year. When she returned three years later, the challenges she faced loomed large.

Bennage commuted from Monson that 1998-99 school year, leaving her young son with relatives. For the first time in her life, she was forced to accept "outside help" by moving into low-income housing. The only time to study was after her son went to bed. But Bennage persevered, and it wasn't long before she saw the results of her determination. In spring 1999, she made the dean's list. It was a lesson in accomplishment.

That spring, she was one of a handful of UMaine nursing students who spent spring break in Nicaragua providing women's healthcare in a clinic. There, she learned "how lucky we are in the U.S. to have what we have, and how we use our medical supplies unwisely."

Last summer, Bennage worked in the medical surgical unit of Mayo Regional Hospital in a student-nurse partnership. Bennage was the only student nurse on the medical surgical floor. She worked three days a week in 12-hour shifts with a registered nurse (RN) as a mentor. "It was a wonderful experience coming into my senior year," says Bennage. "It was great how open all the nurses were. They allowed me to act as a nurse and I got practical experience."

In this, her senior year, the range of nursing experience has been equally dynamic. Bennage has worked in the oncology and respiratory units at Eastern Maine Medical Center, in school nursing in Old Town, and in the children's unit at Acadia Hospital. This semester, Bennage has been in the forensic unit of Bangor Mental Health Institute, and in the ER at St. Joseph.

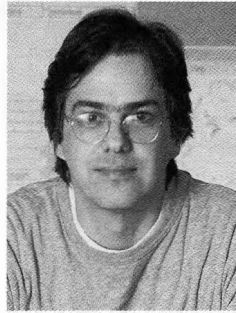
Bennage has been offered a full-time position in EMMC's Cardiac Care Unit after graduation. ▲

Mari-Ellyn Bennage was inspired to pursue a degree in nursing by the healthcare providers who saved the life of her son, who was born with a heart defect.

"I had always wanted to be a nurse but felt (when I was younger) I just couldn't do it," says Bennage. "Then Sebastian was born with aortic stenosis and, at a year and a half, he had to have a balloon catheterization at the Children's Hospital in Boston. Not much after that, he was in the pediatric unit at EMMC.

"Because of the wonderful care he received at both (hospitals), I decided to go and get my degree," Bennage says. "I knew that if I could make it through all of this (with Sebastian), I could make it through nursing school."

Graduate Student Focus



Frederico Fonseca
Photo by Monty Rand

Taking GIS to the classroom

For more than a decade, Frederico Fonseca worked with the geographic information systems (GIS) technology in the municipal management of his native Belo Horizonte, a Brazilian city of 2 million. At the University of Maine, Fonseca has spent the past three years in theoretical, cutting-edge geographic information science that has earned him international recognition in his field and job offers from major national software companies.

But when Fonseca receives his Ph.D. in spatial information science and engineering next month, he is headed not to industry but to the classroom. Fonseca plans to stay in academia, and has been actively recruited by information science programs across the country this academic year.

What is most important to Fonseca is to teach and do research at a quality university, and to continue to use his expertise to help his community back home.

"Teaching to share knowledge is a very rewarding experience," says Fonseca. "I like dealing with students, advising them and sharing knowledge as others have done with me. I've learned what it means to have someone like Max (Egenhofer) be so generous with his knowledge. He's a famous scholar, yet his door is always open for students."

Fonseca appreciates the difference a strong teacher and mentor can make in the lives of youths. It was the manager of the GIS project for his city, José Henrique Portugal, who introduced Fonseca to what was then, in the late '80s, a new technology in Brazil.

"I saw the image of our city on the computer and knew that I had to work with GIS," Fonseca says, who started in data collection of geographically referenced information and became a GIS analyst. "That will always be a landmark in my career. After 10 years, I've gone back and worked with officials in city planning using GIS. It has come full circle."

In 1997, Fonseca earned a master's degree in public administration and computer science from the Government School of the Joao Pinheiro Foundation, Minas Gerais, Brazil. It was as a graduate student that his interests shifted from the object orientation of geographic information systems (GIS) to the theoretical research of geographic information science. He also became familiar with the work of Max Egenhofer, director of the National Center for Geographic Information and Analysis (NCGIA) at UMaine.

The following year, Fonseca came to the Department of Spatial Information Science and Engineering to begin his Ph.D. research on GIS interoperability. An NCGIA graduate research assistant, he has developed a theoretical basis for integrating different geographic information systems and bases to benefit users. His interdisciplinary approach incorporates artificial intelligence, software engineering and GIS.

"Large amounts of information are available in many different places, formats and perspectives," says Fonseca. "My objective is to integrate them. My dissertation work on ontology-driven GIS provides formal specification of how people view, perceive and organize the world."

continued on page 15

Calendar of campus events being compiled for fall

Submissions for the fall 2001 printed calendar of events are being accepted until Aug. 5. The calendar is coordinated by the Center for Students and Community Life. E-mail your submissions to Lauri Sidelko (lauri.sidelko@umit.maine.edu) or call 581-1734 for information.

The CUTTING EDGE

University of Maine Research on the Frontiers of Science

Urban streams suffering in the face of development

A University of Maine master's degree student has found that increasing development is taking a toll on the health of small urban streams in Maine. In the past three years, Chandler Morse, who will receive his degree in the Ecology and Environmental Sciences Program in May, has studied 20 streams in the Bangor, Augusta, Portland and Anson areas.

He has found that the condition of Maine's streams declines markedly when more than 6 percent of a watershed is covered by impervious surfaces, such as roads, driveways and parking lots. Runoff from these and other surfaces can have a dramatic effect on the insects and other organisms that live in streams, Morse says.

"At 6 percent impervious coverage, we start to see a transition from a rural area with a few houses here and there to an urban area with sewers, culverts and other facilities that drain water away," he explains. "Rain storms and snow melt can have a visible effect on streams, including carrying sediment that muddies the waters and destroys habitat, but I was looking for long-term and cumulative effects that most of us normally wouldn't see."

For his thesis, Morse worked with Alex Huryn and Chris Cronan, faculty members in the Department of Biological Sciences. The first step of the project was to identify 20 similar streams with varying levels of urban development within the watersheds. They settled on nine in the Bangor area, four near Portland, three near Augusta and four near Anson.

Morse documented the physical condition of each stream channel and habitat. Waiting at least two days after rainstorms, he collected samples of stream water and aquatic insects. Altogether, he identified almost 90,000 insects.

He quantified the level of urban development by using Natural Resource Conservation Service aerial photos and a geographic information system to map the watersheds. He also determined the proportions of the watersheds that are in forested, wetland, and agricultural land uses.

The results suggest that where development was below the 6 percent threshold, the numbers and types of insects and water chemistry were relatively unchanged. However, as the extent of development increased, streams changed in a variety of ways.

- ▼ Insects shifted to those that are more tolerant of pollution.
- ▼ Riparian zones, areas that are immediately adjacent to streams, shrank and began to lose their ability to filter sediment and nutrients from runoff.
- ▼ Dissolved oxygen levels, critical for fish and many insects, tended to be lower in more urbanized streams.
- ▼ Stream banks in more urbanized streams tended to be more badly eroded, possibly the result of higher storm water flows.

The percentage of a watershed under impervious cover has not been used in Maine as a factor in environmental management, Morse adds. However, by associating stream quality with a measure of development, this project has laid the groundwork for such an approach.

"A rule of thumb around the country is that water quality takes a nose dive when watershed development reaches 10 percent," says Morse. "But we saw this happen at 6 percent. We don't know why or what it might be about our watersheds that makes them more sensitive. That's for other researchers to work on."

Morse intends to work in the Washington D.C. area as an environmental consultant. He is the 15th member of his family to attend UMaine.

Scientists seek clues to ice sheet future

In a world that measures everything from hemlines to the speed of light, the Antarctic and Greenland ice sheets present a special challenge. They are ancient and complex, the two most massive ice cubes on the planet. Whether they are shrinking or growing has become one of the central questions in the study of global change and a focus of research in the Institute for Quaternary and Climate Studies.

The Institute has a tradition in polar studies and ice sheet behavior stretching back to its founding in 1972. UMaine scientists have worked to understand the physical processes that control ice sheet movement and the steps leading to their collapse after the end of the last Ice Age. The latest research is aimed at understanding how ice sheets respond to factors such as changes in climate.

"We use GPS (global positioning system) technology to make measurements of the ice sheets in Antarctica and Greenland," says Gordon Hamilton, a research assistant professor. "We want to understand if the ice sheets are currently changing size and contributing to sea level rise. The current estimate is that of the average two millimeters of global sea level rise that occurs annually, we can explain one millimeter by thermal expansion of the oceans and groundwater pumping. The remaining contribution is unknown, but an assumption is melting of the ice sheets in the polar regions."

Scientists do not yet know how the ice sheets are likely to respond if average global temperatures rise in the future. If snowfall increases over Antarctica and Greenland, possibly due to a warmer, moister atmosphere, they could grow. However, if the sea continues to rise or increased temperatures warm the ice, they could shrink.

Hamilton has spent much of the last decade perfecting field techniques to collect reliable data. His field experiments entail measuring the vertical velocity of ice and comparing that with snow accumulation rates derived from ice core analyses. If vertical velocity exceeds snow accumulation, the ice sheet is getting thinner, and vice versa.

So far, the results of work by Hamilton and others suggest that the ice sheets may be thinning at the edges but getting thicker inland. Nevertheless, some stations show little movement while others are rising or falling, and no clear pattern has emerged.

Hamilton and a colleague, Ian Whillans of Ohio State University, are currently funded by the National Science Foundation to carry out measurements as part of the International Trans-Antarctic Scientific Expedition (ITASE).

Data collected by Hamilton will assume new importance after the December launch of ICESat (Ice, Cloud and Land Elevation Satellite) by NASA. ICESat will use lasers to measure elevations across the world's ice sheets; the results of this work will be critical to the process of validating data from the satellite. "We know the elevation of our stations and the rates of ice thickness changes, so we can compare our numbers to those coming from the satellite. If there's a discrepancy, we'll know that the satellite has a problem," he says.

In advance of ICESat's launch, Hamilton and colleagues have been conducting measurements in Greenland as part of the Program for Arctic Regional Climate Assessment (PARCA). This NASA-funded initiative combines ground-based GPS work with overflights by a research aircraft equipped with a laser similar to that onboard ICESat. PARCA is providing valuable experience that will guide future work interpreting data from the satellite mission.

Hamilton, a native of Scotland, has a Ph.D. from the University of Cambridge. He came to UMaine from the Byrd Polar Research Center at Ohio State University and the Norsk Polarinstitut in Oslo.

John Moring, professor of zoology, Department of Biological Sciences: "Cruises of the Albatross Off San Diego and Other Parts of Southern California, 1889-1916," *Marine Fisheries Review*, 61(4):22-30 (1999, issued in 2001).

James Warhola, professor of political science: "Ethnicity, Modernization, and Regime Support in Russia's Regions Under Yeltsin," *Nationalism and Ethnic Politics*, 6(4):23-47 (Winter 2000).

Ivan Manev, assistant professor of management; Aimin Yan, associate professor, and Tatiana Manolova, doctoral student, both at Boston University: "The Evolution of the Organizational Landscape in Transforming Economies: A Four-Country Comparison," *Global Focus: The International Journal of Business, Economics, and Social Policy*, 13(1):65-78 (2001).

Kathleen March, professor of Spanish: a short story "A repelente de Lesley Gore que non se entera de nada" ("Lesley Gore's a risk and doesn't know the half of it"), *Unión Libre*, Cadernos de vida e cultura, 5 (Lugo, Galicia 2000). In addition: "Performance and Creativity in the Language Classroom," pp. 79-92, in Gerd Bräuer, ed. *Pedagogy of Language Learning in Higher Education: An Introduction* (Westport, CT: Ablex, 2001).

George Markowsky, chair, Computer Science: three articles on Information Theory, Shannon and Nyquist, *Encyclopedia Britannica* (<http://www.britannica.com/search?query=markowsky>).

Marisue Pickering, professor of communication sciences and disorders, and cooperating professor of education: "Scholarship and the Clinical Educator," *Administration and Supervision*, 11(1):11-15 (March 2001).

Nancy Hall, assistant professor of communication sciences and disorders, with Sheryl Gottwald, University of New Hampshire: "Stuttering Treatment in Schools: Developing Family Partnerships," *Fluency and Fluency Disorders Special Interest Division Newsletter*, 11(2):4-7 (April 2001).

Christine Whittington, head of reference, Fogler Library: an entry on *Peyton Place*, in *The Guide to United States Popular Culture*, edited by Ray B. Browne and Pat Browne (Bowling Green State University Popular Press).

F.H. Irons, K.J. Riley, D.H. Hummels and **G.A. Friel**: "The Noise Power Ratio – Theory and ADC Testing," *IEEE Transactions on Instrumentation and Measurement*, Special Issue on Selected Papers IMTC'99, pp. 659-665 (June 2000).

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J.P. Gambino, G.B. Bronner, **D.E. Kotecki** and C.J. Radens: "Method for Simultaneously Forming a Storage-Capacitor Electrode and Interconnect," U.S. Patent 6,124,199 (Sept. 26).

H. Resson, H. Voos, L. Litz, and P. Schmitt: "On-Line Estimation of Key Quality Parameters in Nonwoven Production," *Proceedings of IEEE International Conference on Systems, Man, and Cybernetics*, Nashville, Oct. 8-11, 2000. pp. 1745-49.

R. Eason, with E. Kawaguchi: "Development of a Digital Envelope Technique," *Bit* (a Japanese periodical), 32(10):35-41 (October 2000).

S. Khan, M. Musavi and **H. Resson**: "Critical Dimension Control in Semiconductor Manufacturing," *Intelligent Engineering Systems Through Artificial Neural Networks*, ASME Press (Proc. ANNIE 2000), 10:995-1000, (November 2000).

H. Resson: "Neural Network-Based On-Line Quality Prediction in Nonwoven Production," *Intelligent Engineering Systems Through Artificial Neural Networks*, ASME Press, (Proc. ANNIE 2000), 10:1031-36 (November 2000).

K.L. Saenger, J.H. Comfort, A. Grill and **D.E. Kotecki**: "Sidewall Capacitor With L-Shaped Dielectric," U.S. Patent 6,131,258 (Oct. 17).

L. Economikos, **D.E. Kotecki** and J.A. Mandelman: "Filling of High Aspect Ratio Trench Isolation," U.S. Patent 6,136,664 (Oct. 24).

D.E. Kotecki, C.J. Radens, J.P. Gambino and G.B. Bronner: "Method for Simultaneously Forming a Storage-Capacitor Electrode and Interconnect," U.S. Patent #6,201,272 (March 13).

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Michael Bank, instructor of wildlife ecology: review of *Jaguar: One Man's Struggle to Establish the World's First Jaguar Preserve* by Alan Rabinowitz, *The Journal of Wildlife Management* 65(2):369-70 (2001).

M.S. Farooq, **D.E. Kotecki**, R.A. Rita and S.M. Rossnagel: "High Temperature, Conductive Thin Film Diffusion Barrier for Ceramic/metal Systems," U.S. Patent 6,178,082 (Jan. 23.)

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Ten grad students take top honors in research exposition

The winners of awards for artistic creativity and academic scholarship were announced at the UMaine Graduate Research Exposition April 12. Each award includes a \$250 check and an opportunity to display the results of research to the legislature in Augusta.

The exposition, now in its third year, is "a celebration of what the graduate student community brings to the University," says Andrew Lorrey, master's student in geological sciences and graduate assistant coordinator for the event. "Graduate students work very hard, and their research often has practical value for Maine and its citizens."

The event speaks to the breadth of scholarly work undertaken by graduate students at the University of Maine, says Scott Delcourt, director of the Graduate School. "In one room, you (were) able to see presentations on subjects ranging from educational leadership to astrophysics," he says.

The categories, awards, presentation titles and graduate student winners are:

Biological Sciences

Artistic – "Actin-Rich Sensory Receptors in *Convoluta pulchra* Identified by Correlative Electron and Fluorescence Microscopy" by Regina Pfistermueller, Biological Sciences

Academic – "Chemically Stimulated Deposit-Feeding in the Spionid Polychaete, *Polydora quadrilobata*" by Timothy Riordan, School of Marine Sciences

Physics and Chemistry

Artistic – "Development of Silver Oxide Films as Sensor Materials" by Francis Bock, Laboratory for Surface Science Technology, and Department of Physics and Astronomy

Academic – "Synthesis of Nanostructured WO₃ Particles Using Sol-Gel Method and Emulsion Polymerization" by Xhixiang Lu, Laboratory for Surface Science Technology and Department of Chemistry

Humanities, Arts and Social Sciences

Artistic – "Searching for the Free Women of Post-Communist Bulgaria" by Zornitsa Keremidchieva, Communication

Academic – "Menstrual Experience, Cultural Beliefs, and Anxiety Sensitivity" by Stacy Whitcomb, Psychology

Physical Sciences

Artistic – "How Sand Beaches in Southern Maine Are Responding to Anthropogenic Influences and Meteorologic Effects" by Heather Heinze, Geological Sciences

Academic – "What's Up? What's Down? Maine's Search for an Upstream-Downstream Dioxin Monitoring Method Continues...." by Heather Shoven, Ecology and Environmental Sciences

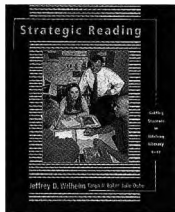
Engineering

Artistic – "FRP Glulam-Concrete Composite Bridges" by Craig Weaver, Structural Engineering

Academic – "Improving Uncertainty Management Through Readily Accessible Metadata" by Valerie Carney, Spatial Information Science and Engineering

V O L U M E S

Recent Works by University of Maine Authors

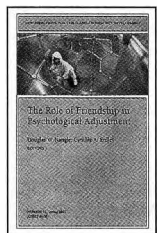


Strategic Reading: Guiding Students to Lifelong Literacy 6-12
By Jeff Wilhelm, Tanya Baker and Julie Dube
(Boynton/Cook Publishers 2001)

Strategic Reading: Guiding Students to Lifelong Literacy 6-12 provides the tools teachers need to help students of all abilities make the transition to higher-level texts by helping them figure out how to read, not just what to read. The authors take a learning-centered approach to reading by examining the issues surrounding teaching and learning, and the particular demands texts make on readers.

The book includes many examples of innovative strategies for teaching students to comprehend, engage and make use of challenging texts in middle and high school. At a time when the focus on more sophisticated kinds of texts intensifies in schools, teachers need to make reading processes visible and available to students. By understanding and implementing reading strategies, students become empowered readers in the English classroom and throughout their lives.

Strategic Reading is written by Associate Professor of Education Jeffrey Wilhelm. His co-authors are UMaine alumni and doctoral students Tanya Baker, an English teacher at Brewer High School, and Julie Dube, principal of Medway Middle School and a former English teacher. The three educators have worked together in the Penobscot River Educational Partnership – the University/public school professional development network – and in the Maine Writing Project at UMaine, an affiliate of the National Writing Project.



The Role of Friendship in Psychological Adjustment
Edited by Douglas Nangle and Cynthia Erdley
(Jossey-Bass 2001)

The idea that children's peer relations play a critical role in their overall psychological adjustment is now assumed. However, as an index of popularity or status in the peer group, peer acceptance captures only one aspect of children's experiences.

Friendships or close relationships play a unique and crucial role in children's socioemotional development. In *The Role of Friendship in Psychological Adjustment*, psychology researchers highlight different avenues of study aimed at deepening understanding of the complex relationship between children's friendship experiences and psychological adjustment.

The five-chapter book covers historical and conceptual issues involved in the study of friendship, as well as cutting-edge research linking friendship with a range of outcome indices.

The Role of Friendship in Psychological Adjustment is part of the Jossey-Bass Education Series, New Directions for Child and Adolescent Development. It is edited by UMaine Associate Professors Douglas Nangle, clinical psychology, and Cynthia Erdley, developmental psychology.

Peace Corps at the University of Maine

The Peace Corps Office on campus is located in the Career Center, third floor of Chadbourne Hall. UMaine senior Josh Anchors is the Maine Peace Corps representative. Call 581-1366 for more information or to set up an interview for "the toughest job you'll ever love."



Performing the Force: Essays on Immersion into Science Fiction, Fantasy and Horror Environments
Edited by Kurt Lancaster and Tom Mikotowicz
(McFarland & Co., Inc. 2001)

With new millennium technology continuing to advance, there has been increased interest in participatory forms of science fiction, fantasy and horror entertainment. *Performing the Force* is a compilation of essays written by experts in both electronic and non-electronic game genres – from computer games and interactive movies and Web sites to live-action role playing and amusement park rides.

The essays, all but one of which have never before been published, cover a variety of viewpoints as to how and why people become so engrossed with virtual reality-type activities. The collection of 27 essays analyzes the performative elements of the fan's immersion into the material culture of fantasy environments, and how this cultural phenomenon emerged from such works as *Star Trek*, *Star Wars* and *The Lord of the Rings*.

Editors Kurt Lancaster and Tom Mikotowicz wrote the book's introduction: "Popular Entertainment and the Desire for Transcendence: Immersion into Science Fiction, Fantasy and Horror Performances." Lancaster graduated from UMaine in 1991 with a master's degree in theatre and went on to earn a Ph.D. at New York University. A lecturer at MIT, Lancaster's books include *Warlocks and Warpdrive: Contemporary Fantasy Entertainments with Interactive and Virtual Environments*. Mikotowicz is associate professor of theatre and the review editor of the *New England Theatre Journal*. He also is the author of *Oliver Smith: An American Scenographer and Theatrical Designers*.

Book Ends

New & Noteworthy at the University Bookstore

Of Note: To faculty – if you are considering a new text for fall semester, contact the Bookstore.

▼ The Bookstore's Indoor Yard Sale is April 26-28, with discounts on books, clothing and gifts.

***Mangoes and Quince* by Carol Field, Bloomsbury (2001).** Bestselling cookbook author Carol Field has created a feast for the imagination. After being abandoned by her husband, Miranda opens a restaurant in Amsterdam, the ancestral home of Anton, her lost husband. While expressing her passion through cooking, her daughter becomes obsessed with longing for her father. *Mangoes and Quince* is part mystery, part love story, part family drama. It is an intoxicating tale about a woman whose cooking seduces an entire city. Eleven luscious recipes accompany this unusual and sensuous debut.

***Five-Finger Discount: A Crooked Family History* by Helene Stapinski, Random House (2001).** In this unforgettable memoir, Stapinski tells the heartbreaking story of growing up among swindlers, bookies and crooks in Jersey City. With deadpan humor and obvious affection, she comes clean with the outrageous tales that have swirled around her relatives for decades, and recounts the epic drama and comedy of living in a household in which petty crime was a way of life.

***Einstein, Picasso: Space, Time, and the Beauty that Causes Havoc*, by Arthur I. Miller, Basic Books (2001).** This fascinating parallel biography of Albert Einstein and Pablo Picasso as young men focuses on their greatest achievements: Einstein's theory of relativity and Picasso's *Les Femmes d'Alger*, the painting that brought art into the 20th century. Einstein and Picasso both came of age at the same moment in history, and in the most important sense, both men were working on the same problem – a deeper, more satisfying way to represent space and time.

Margo Lukens, associate professor of English, gave a paper, "Those Moosehide Pants: Henry Red Eagle's Maliseet Performances," March 10 at the annual meeting of the Southwest/Texas American Culture Assn./Popular Culture Assn., Albuquerque.

Kathleen March, professor of Spanish, read the paper "La

cuentística de Enrique Jaramillo Levi" at the Northeast Modern Language Association, Hartford, Conn., March 30-31. Jaramillo Levi is a contemporary Jewish Panamanian writer.

Jack Witham, associate scientist of wildlife, presented a workshop, "Effects of Forest Management on Small Mammals and Birds," for an eight-week course, Working with Your Woodlot, in Augusta, March 14. This workshop was sponsored by Maine Forest Service and SWOAM.

March 15, Assistant Professor of Music **Phillip Silver** accompanied Associate Professor of Music **Nancy Ogle** in a program of music by Jan Gilbert. The venue was MacAlester College in St. Paul, Minn. The day before at MacAlester College, Silver presented a series of lectures on Alma Rosé and the women's orchestra in Auschwitz. And March 9, Silver was a guest performer on a faculty recital at the University of Southern Maine in Gorham.

April 6, **Dan Sandweiss** (Anthropology and Quaternary & Climate Studies) spoke to the Pre-Columbian Society of Washington, D.C., on "Climate and Culture in Early Peruvian Coastal Prehistory."

Raymond Pelletier and **Kristina Passman** presented a paper, "Establishing a Baseline of Information About Second Language Teaching in Maine," at the first Round Table on Second Language Learning in Maine, sponsored by the University of Maine System, and Bates and Bowdoin colleges. The meeting was at the Maine School of Law, Portland, April 7.

Colin Martindale, professor of psychology, presented a colloquium, "Aesthetic Factors in Scientific Creativity," at the Center for the Psychology of Abilities, Competencies, and Expertise at Yale University, March 26.

Chris Mares, interim director of the Intensive English Institute, and **Carlos Islam**, lecturer and program development specialist at IEI, presented, "Engaging Students: Activities For Classroom Use," at the NNETESOL Spring Conference, Portland, April 7.

Deirdre Mageean, director of the Margaret Chase Smith Center and associate professor of Resource Economics & Policy; John Bartlett, North Carolina State University; and **Raymond O'Connor**, professor of wildlife, presented a paper, "Environmental and Legacy Constraints to Population Growth in the Desert South-West," at the Population Association of America annual conference in Washington, D.C., March 30.

In March, **Marcy Lucas**, wildlife ecology graduate student; **James Gilbert**, chair and professor of wildlife resources; and **Steve Renner**, wildlife ecology graduate student, were participants in the NMFS Harbor Seal Tagging Project. Lucas captured, tagged and collected biological samples. The tagging started in March 2000 and is an on-going project through summer 2001.

Lincoln Hunt, wildlife ecology undergrad, was presented with a scholarship award from the New England Outdoors Writers Club March 29. Paul Reynolds from the New England Outdoors Writers Association presented the award.

Mary Bellandese, assistant professor of communication sciences and disorders, presented an all-day workshop, "Habilitation of the Laryngectomee," at the Maine Speech-Language-Hearing Association Spring conference, Rockport, March 8.

Nancy Hall, assistant professor of communication sciences and disorders, with Sheryl Gottwald, University of New Hampshire, presented the workshop, "Stuttering Treatment in Schools: Developing Family Partnerships," at the Maine Speech-Language-Hearing Association Spring conference, Rockport, March 9.

Three UMaine doctorate students in counselor education gave presentations at the Maine Counselors' Association conference in Rockport March 26. Graduate students and their topics were: **Tamara Hunt**, Eating Disorders; **Pamela Feeney**, Integrated View of Psychosocial Development; and **Deborah Drew**, The Foundation of Ethics.

O'Connor receives Guggenheim award

Raymond O'Connor, professor of wildlife, has received a John Simon Guggenheim Memorial Foundation Fellowship to evaluate research and teaching practices in the ecological sciences.

He is one of 183 fellows, and one of only four biologists, out of 2,728 applicants to receive awards.

In recent scientific publications and workshops, O'Connor has called for a more rigorous approach to the study of ecology, one that focuses on the underlying forces that are responsible for the characteristics of wildlife populations.

O'Connor is the second recent recipient of a Guggenheim Fellowship at UMaine. Linne Mooney in the Department of English, a specialist in medieval literature, received one in 1999. Other past recipients include Elaine Ford in 1990; Wesley McNair, 1986; and Sandy Ives, 1965.

Betsy Enright and Maria

Timberlake, inclusive education research associates at the Center for Community Inclusion, presented a workshop, "Classrooms for All: High Standards, Accountability and Inclusive Practice," at the Association for Supervision and Curriculum Development's 56th Annual Conference, Reaching for Balance, Resolving Educational Dilemmas, March 17 in Boston. Their session illustrated how one set of standards for all students, including those with disabilities or other learning needs, is leading to restructuring of special and regular education. They discussed how multiple methods of classroom instruction, interaction and assessment can fully include learners with disabilities and provide meaningful progress and achievement in the general curriculum.

Sandra Doctoroff, assistant research professor, and **Sharon Gilbert**, post-doctoral research associate at the Center for Community Inclusion, presented a workshop on different models of consultation, and the goals and responsibilities in the process of consultation, at the New England Association for the Education of Young Children's 23rd annual conference in Portland. The audience consisted of professionals in the field of early childcare and education in New England.

Lenny Berry, education specialist at the Center for Community Inclusion, presented a keynote address and multimedia presentation, "Opportunities, Support and Success," at the annual meeting of the Maine Chapter of the Association for Professionals in Supported Employment, Augusta Civic Center, April 4. Berry shared some of his life story about his education, work experience and position at the center. The audience comprised professionals who provide supported employment services to people with disabilities.

The following papers were presented by College of Education & Human Development faculty at the annual meeting of the American Educational Research Association (Seattle, April 10-14): **Jaekyung Lee** (co-authored by **Ted Coladarci**), "Multi-Level, Multi-measure, and Time-series Analysis of Student Assessment Data for Evaluation of Systemic School Reform"; **Janet Spector** (co-authored by **Paula Moore**), "Predicting Success in Reading Recovery: The Contribution of Phonological Processes"; **Ed Jadhallah**, "Teachers' Ideas About Developing and Implementing Educational Standards"; **Connie Perry**, "Rural School Connection: One Student at a Time." Coladarci also chaired a session, "Power, Effect Sizes, and Significance Testing."

The following presentations were made at the 2000 IEEE Ultrasonics Symposium, San Juan, Puerto Rico, October: **J.F. Vetelino**, **C. Zhang**, **R.B. Haskell**, **T. Grillo**, **J. Seitz** and **G. Grillo**, "Novel Electrode Configurations of Bulk Acoustic Wave Resonators for Liquid Sensing Applications"; **Zhang, J.J. Caron** and **Vetelino**, "The Bleustein-Gulyaev Wave Mode in Potassium Niobate for Liquid Sensing Applications."

The following presentations were made at the 198th Electrochemical Society Meeting, Phoenix, Oct. 21: **C. Zhang**, post-doc student in LASST, and **J.F. Vetelino**, "Theoretical Investigation of Bleustein-Gulyaev Waves in Potassium Niobate for Liquid Sensing Applications"; "Novel Bulk Acoustic Wave Sensors for Probing Liquid Electrical Property Changes"; and "Bulk Acoustic Wave Modes in Quartz for Sensing Measurand-induced Mechanical and Electrical Property Changes."

University of Maine faculty and staff served as judges for the tattoo contest at the Downeast Tattoo Show, held at the Bangor Elks April 14. Judges were librarians **Deborah Rollins** and **Christine Whittington** (Fogler Library), Art Department faculty members **Laurie Hicks** and **Owen Smith**, Bookstore publications coordinator **Krista Molnar-Smith**, Cooperative Extension graphic designer **Cindy Eves-Thomas**, Hudson Museum director **Stephen Whittington**, and **Tom Hudgins**, UNET distance education technician and May 2000 UMaine graduate in studio art. This is the fifth year that UMaine faculty, staff, students and graduates have served as judges for the Downeast Tattoo Show. Three of the judges also have tattoos of their own.

The following presentations were made at the International Chemical Sensors Meeting, Basel, Switzerland, July 2000:

J.F. Vetelino, F. Bender, C. Kim and T. Mlsna, "Characterization of a WO₃ Thin Film Chlorine Sensor"; Vetelino and B.T. Marquis, "A Semi-conducting Metal Oxide Array for the Detection of NO_x and NH₃"; Vetelino, R.F. Schmitt, J.W. Allen, **J. Parks** and **C. Zhang**, "Bulk Acoustic Wave Modes in Quartz for Sensing Measurand-Induced Mechanical and Electrical Property Changes"; Vetelino, Zhang and

J.J. Caron, "The Bleustein-Gulyaev Wave for Liquid Sensing Applications"; Vetelino, **L.J. LeGore**, **R.J. Lad**, **B.G. Frederick** and E.A. Kenik, "Aggregation and Sticking Probability of Gold on Tungsten Trioxide Films."

Rosemary Bamford and **Jan Kristo**, professors of education, conducted a workshop, "Making Facts Come Alive: Choosing Quality Nonfiction Literature," at the Northeast Regional Conference on Comprehension Strategies and Assessment for Grades 2-5 in Reading, Science, Math, and other Content Areas, March 21, Bangor.

Steve Renner and **Marcy Lucas**, wildlife graduate students, and **James Gilbert**, chair and professor of wildlife resources, are working on the National Marine Fisheries Service Harbor Seal Research Project in Cape Cod.

Carolyn Skinder attended the Marine Protected Area Designation Conference in Honolulu, March 5-21.

Lawrence Mayer, D. Weston and M. Bock presented "Cross-Phyletic Trends in Bioavailability of Zn and BaP by Marine Benthic Invertebrates" at the 11th Annual West Coast Conference on Contaminated Soils, Sediment, and Water in San Diego, March 19-22.

Cynthia Loftin, assistant professor of wildlife ecology and assistant leader of Cooperative Fish and Wildlife Research Unit, along with **Michael Bank**, instructor of wildlife ecology, and John Hagan and Darlene Siegel of the Manomet Center for Conservation Sciences, presented "Literature Synthesis of the Effects of Forest Management Activities on Riparian and In-Stream Biota of New England" at the New England Society of American Foresters 81st Annual Winter Meeting, March 15, South Portland.

Tara Henrichon, wildlife ecology graduate assistant, presented "Modeling Wetlands Using GIS" at the UMaine Student Chapter of the Wildlife Society Spring 2001 Evening Seminar Series on campus, March 29.

Timothy Riordan presented a paper he co-authored with **Sara Lindsay**, "Sweetly Scented Sediments: Identifying Phagostimulatory Cues for a Spionid Polychaete, *Polydora quadrilobata*," at the Marine Benthic Ecology Meeting in Durham, N.H., March 16-18.

James McCleave presented the paper, "Migration of European Eel *Leptocephali* Across the North Atlantic Ocean: Some Thoughts for the New Millennium," at the Portuguese-American Fish Migration Workshop at the Center for Marine and Environmental Research in Porto, Portugal, March 29-31.

Planning begun for Commute Another Way Day

June 13, 2001 is Commute Another Way Day at the University of Maine. UMaine graduate student Andre Grimard is coordinating the University's participation in the event, designed to raise awareness about alternative commuting to campus.

This one-day event encourages students, staff and faculty to try alternative commuting, such as carpooling, bicycling, walking, or riding the bus to campus in an effort to reduce pollution and the parking problem on campus.

Grimard is working with Sandi Duchesne of the Bangor Area Comprehensive Transportation System, and RideShare coordinators from Augusta and Portland to implement a carpooling program to begin in the fall for the greater Bangor area, including the University of Maine.

For more information or to get involved, contact Andre Grimard on FirstClass.

UMaine engineers sail away with honors

A team of UMaine student engineers, under the direction of chemical engineering professor John Hwalek, took second place April 7 in the national Energy Challenge 2001 competition in Gainesville, Ga.

Competing teams spent several months developing sails made from pine wood chips to be used in a boat race on Lake Lanier near Atlanta. The 17-member UMaine team won \$10,000 in prize money, to be used to enhance chemical engineering equipment at the University. The team from SUNY-Syracuse won first place.

In 1999, UMaine won the national competition. That year, students were required to design and build a kayak out of paper. Their entry was judged on the basis of energy efficiency and paper quality, as well as the best race time.

The purpose of the annual Energy Challenge, sponsored by the U.S. Energy Department and industry, is to encourage students to develop methods to reduce energy use and minimize waste as part of

their educational programs. The forest products industry generates more than 2 billion tons of waste annually and is one of the most energy-intensive industries in the country.

To construct the sail, the students worked with Hwalek, who specializes in using a type of software known as a neural network to improve manufacturing processes.

At the start of the contest, each team received 100 pounds of wood chips. The finished sail could weigh no more than 15 pounds with at least 80 percent wood fiber. The other 20 percent could be composed of common chemicals and materials used in paper manufacturing.

The students began by processing the wood chips to make the pulp. Their techniques determined the energy efficiency of the process and the strength of the product. In the competition, the sails were judged by a professional sailmaker on gross weight, materials composition, total sail area, tear and tensile energy absorption performance, aesthetics and novelty.



Photo by Monty Rand

Positions Available

The following faculty and professional positions are currently available at the University of Maine. This list includes titles and contact information. Interested parties should consult either the University of Maine contact listed for each open position or Web listing (www.umaine.edu/hr/jobs) to obtain a complete job announcement, including required qualifications. All positions are full time, unless otherwise specified. Questions about search procedures should be directed to the Office of Equal Opportunity, 581-1226.

Outdoor Program Manager, Center for Students & Community Life. Review Begins: May 1. Salary Range: \$28,000-\$32,000. Contact: Send letter of application, resume, and contact information for three professional references to: Outdoor Program Manager Search Committee, The University of Maine, 5748 Memorial Union, Orono, ME 04469-5734.

Assistant Professor of Mathematics Education (non-tenure but with the possibility of tenure-track in the future), Education & Mathematics Departments. Review Begins: May 1. Contact: Send a letter of intent, summarizing your background in teaching and scholarship; a curriculum vita; and at least three letters of reference to: Chair, Mathematics Education Search Committee, Department of Mathematics and Statistics, Room 333, 5752 Neville Hall, The University of Maine, Orono, ME 04469-5752

Research Assistant, Darling Marine Center. Review Begins: Immediately. Salary Range: \$25,000-\$30,000. Contact: Send applications with curriculum vita, three letters of reference, and statement of interest to: G.M. King, Darling Marine Center, The University of Maine, Walpole, ME 04573.

Academic Counselor (2 positions), Classic Upward Bound. Review Begins: May 1. Salary Range: \$31,000-\$33,000. Contact: Send cover letter, resume, and names and phone numbers of three references to: Linda Ives, Director; Upward Bound, The University of Maine, 5713 Chadbourne Hall, Room 226, Orono, ME 04469-5713.

Archivist, William S. Cohen Papers, Library. Review Begins: May 1. Salary Range: \$35,000-\$40,000. Contact: Send cover letter and resume to Richard Hollinger, Head of Special Collections, 5729 Fogler Library, The University of Maine, Orono, ME 04469-5729.

Parent Education Professional, Cooperative Extension. Review Begins: May 11. Salary: \$28,000. Contact: Send a letter of intent, resume, transcripts (copies acceptable), and names, addresses, and phone numbers of four current references whom we may contact to: Sandra Vaillancourt, 5741 Libby Hall, Orono, ME 04469-5741 or call 1-800-287-0274, 207/581-3191 or FAX 207/581-3325 or email sandyv@umext.maine.edu.

Judicial Affairs Officer, Center for Students and Community Life. Review Began: April 16 and will continue until the position is filled. Salary Range: \$35,000-\$38,000. Contact: Send letter of application, resume, and the names, addresses, and telephone numbers of three references to: George Criner, The University of Maine, 206 Winslow Hall, Orono, ME 04469-5782.

Research Engineer (Mechanical/Vacuum), Laboratory for Surface Science & Technology. Review Begins: April 30. Salary Range: \$35,000-\$42,000. Contact: Submit application, names, and contact information for three technical references, and description of relevant experience to: Search Committee, LASST, 5764 Sawyer Research Center, The University of Maine, Orono, ME 04469-5764

INFORMATION ON OPENINGS FOR CLASSIFIED POSITIONS

For updated information, call the jobs line, 581-4567, or check www.umaine.edu/hr/jobs. Application forms are available at: Personnel Services, 124 Corbett Hall, University of Maine, Orono, ME 04469.

The University of Maine is an Equal Opportunity/Affirmative Action Employer. In complying with the letter and spirit of applicable laws and in pursuing its own goals of diversity, the University of Maine System shall not discriminate on the grounds of race, color, religion, sex, sexual orientation, national origin or citizenship status, age, disability, or veterans status in employment, education, and all other areas of the University. The University provides reasonable accommodations to qualified individuals with disabilities upon request. Questions and complaints about discrimination in any area of the University should be directed to Evelyn Silver, Director of Equal Opportunity, The University of Maine, Room 101, 5754 North Stevens Hall, Orono, ME 04469-5754, telephone (207) 581-1226 (voice and TDD).

Enrollment *continued from page 1*

particularly in Maine. He has visited two-thirds of Maine's 140 high schools and made other public appearances all over the state, urging students to take advantage of higher education opportunities in Maine.

One of the University's successful approaches to recruiting students is being expanded this year. Beacon has developed a group of current UMaine students who place telephone calls to high school students who are considering UMaine. His research shows that students who are called as part of the program choose to enroll in greater numbers than students who are not. The number of prospects who receive calls has been expanded this year from 1,000 to 2,500.

"Students respond well to communication from their peers," Beacon says. "They speak the same language and share the same concerns."

Nearly 1,000 people – 391 of whom are prospective students, the rest are family members and friends – were on campus April 16 for an Open House. In addition, Transfer Day, a new activity this year, is April 23. It is an opportunity for students who have decided to transfer to UMaine to visit the campus, learn their way around and accomplish a variety of tasks that will make their life easier at the beginning of the fall semester in September. Nearly 90 students from other colleges and universities have already registered for this program. ▲

Glenn *continued from page 1*

will also be present at the event and will make introductory remarks before Glenn's lecture.

A retired Marine colonel who flew combat missions in World War II and the Korean War, Glenn was selected as one of the seven original *Mercury* astronauts in 1959. Three years later, he became the first person to orbit the Earth aboard the *Friendship Seven* spacecraft. He later turned to politics and was elected to his first of four terms as a U.S. senator from Ohio in 1974.

In 1997, he announced the donation of the papers documenting his career to Ohio State University. When Glenn left the Senate in 1998, he joined Ohio State in establishing the John Glenn Institute for Public Service and Public Policy. Also in 1998, he returned to space as a crew member on a 10-day mission aboard NASA's *Discovery* space shuttle.

The lecture series is a function of UMaine's William S. Cohen Center for International Policy and Commerce, established within the College of Business, Public Policy and Health in 1997. Cohen, a former faculty member in the college, donated his collection of papers chronicling his 24-year Congressional career to UMaine's Fogler Library at the time the center was established. In January of this year, he gave the papers from his tenure at the Pentagon to UMaine.

The annual Cohen lecture was established to bring to campus a distinguished speaker in international policy and commerce. Cohen delivered the first lecture in the series in March 1998; Madeleine Albright, who was Secretary of State at the time, gave the second lecture in October 1999.

Free tickets to the event are available. Contact the Maine Center for the Arts Box Office, 581-1755. ▲

Positions open on the President's Council on Women

The President's Council on Women has several openings for new members. The Council reports directly to the president on issues of importance to the status of women at the University. It represents administration, faculty, professional and classified staff, students, and the community to recommend strategies to enhance the representation, participation and recognition of women at the University. We are seeking dynamic individuals to fill the following vacancies: PEAC, classified, graduate and undergraduate students. If you are interested, contact the Council on Women co-chairs, Alice Bruce (abruce@maine.edu or on FirstClass), x1182; or Nellie Orr (nellie.orr@umit.maine.edu), x2461.

Retired *continued from page 2*

throughout the state and beyond, there could be opportunities to share perspectives and help promote the institution.

The council does not serve as a sounding board for issues and concerns of retirees, says Brown. Instead, it is in the role of advocacy and liaison, with the ability to refer retirees to those offices that can best help them deal with problems.

The idea for a retirement benefits and interaction committee stems from work by former interim provost John Alexander, according to Scott Anchors, assistant to the president and an ex-officio council member. President Hoff held a forum for retirees last spring to update them on University news and answer questions. One of the suggestions from some of the 100 retirees in attendance was the establishment of a retirement committee.

"The Gold Card is a benefit all retirees receive, but this council is broader," says Anchors. "The president sees retired employees as a resource to campus, a creative group of people committed to the University, and he wants to support their involvement."

The council invites retirees interested in regularly receiving *Maine Perspective* to call 581-3745 to be added to the mailing list. ▲

Disabilities *continued from page 2*

lack of awareness, the need for common courtesy. The bottom line is you can't think totally of yourself when you're part of a community."

The need to heighten awareness of the importance of accommodating and appreciating people's differences and disabilities is the philosophy behind Disabilities Awareness Days, an annual observance at UMaine. This year, in addition to public events and educational activities taking place through April 16, student organizers have invited University leaders to tour the campus in wheelchairs. Such an activity provides a perspective on the day-to-day life of UMaine students with physical disabilities unlike any other, says first-year student Kristen Pelletier.

"I think it's important for people to be more aware that we are like them, except that some things that are easy for them require accommodations for others," says Pelletier, 18, an English major from Sanford. "People don't understand that a step or bump, and especially snow, can make things impossible. Push buttons for automatic door can be positioned so far away (from the entrance) that there's not enough time to swing a wheelchair around and get through the door."

"Do you know what you can't do in a wheelchair? Shut a door (behind you)," adds Prahm, who has used a wheelchair for more than 12 years after an accident on a Harley Davidson.

Prahm and Pelletier will lead tours of campus for participants in wheelchairs during two days of the Disabilities Awareness observance. In particular, they plan to give day-in-the-life-of tours of buildings where students attend classes.

"This means of raising awareness works because people can see (our world) with their own eyes," says Prahm, who also led a similar tour during the administration of UMaine President Fred Hutchinson. "If people on the tour are open minded and responsive enough to get in a chair, they begin to appreciate the things they were unaware of."

A key to better understanding and awareness is for members of a community to ask questions and communicate, says Pelletier. Another, she says, is for persons with disabilities to find their voices.

"No matter what the problem, people have to speak up and stand up for what's needed," says Pelletier, who has used a wheelchair for a year and a half. "You can't wait until someone else figures out the problem. You have to stand up for yourself and be proud. Having a disability is not a bad thing but a part of life." ▲



Members of the new Council of Retired Employees are, front row, left to right, Brenda Willette, Elaine Gershman, Harold Brown, Devon Storman and Virginia Fortier; back row, left to right, Barbara Hikel, Hank Metcalf, Pete Soule, Dodd Roberts and Dale MacDonald. Not pictured are Melvin McClure and Al Michaud.
Photo by Monty Rand

Lobster *continued from page 2*

"Folks who join us for Lobster College will experience hands-on and on-site learning about lobsters directly from lobstermen and lobster dealers themselves, as well as from several University of Maine faculty," says Bob Bayer, executive director of the Lobster Institute. "We've based Lobster College in the heart of lobstering country, at one of the most picturesque areas on the coast of Maine."

Activities include a trip on a lobster boat to see how traps are hauled, fieldtrips to a tidal lobster pound and a seafood processing plant, and lectures on a variety of lobster-related topics in folklore, biology and ecology, value-added lobster products and lobster cuisine. One evening will feature a lobster bake on the beach.

In addition to being an educational program, Lobster College doubles as a fund raiser for the Lobster Institute's endowment fund. The Lobster Institute is a research and outreach organization with a mission of protecting, conserving and enhancing the vitality of the lobster and lobstering as an industry – and as a way of life. It was founded jointly by members of the lobster industry and faculty from the University of Maine.

Enrollment for Lobster College is limited to the first 24 registrants. Deadline to enroll is June 22. For more information, see the Institute's Web site (www.lobsterinstitute.org) or call 581-1443. ▲

GIS *continued from page 8*

In recent years, his numerous national and international awards for his research have included a \$10,000 scholarship from the 1999 NASA/EPSCoR Fellowship Program to support his research on geographic information science and digital imagery. That same year, Fonseca was a software engineer in a technology transfer project between UMaine and Lockheed Martin.

Last fall, Fonseca received the Graduate Research Teaching Assistant Award from the College of Engineering.

"The last two years here have been really rewarding, working in cutting-edge research," says Fonseca. "It is exciting to be in a place where everything is happening in terms of spatial information. The University is one of the leaders in spatial information in the world. I expected a lot when I came here, and I got even more. When I go back to Brazil, it is a funny feeling to be treated as a international researcher in my own country." ▲

Fund for the Improvement of Postsecondary Education, in cooperation with the European Union, invites applications to support the formation of educational consortia of institutions and organizations in the U.S. and in EU member states for coordination of curricula, exchange of students, and opening of educational opportunities.

Deadline: May 29.

National Science Foundation's new program for Quantum and Biologically Inspired Computing will support interdisciplinary research to improve the fundamental capabilities of computer science by incorporating insights from either biological systems or quantum foundations or both. Group proposals representing multiple disciplines will have priority. Deadline: June 29.

American Association for the Advancement of Science conducts a Women's International Science Collaboration Program, making grants to U.S. women scientists for travel and other costs of establishing new research partnerships with their colleagues in Central/Eastern Europe and the Newly Independent States of the former Soviet Union. Only fields normally funded by the National Science Foundation are eligible. Deadlines: July 15, Jan. 15.

Federal Highway Administration's Transportation Environmental Research Program welcomes proposals for university research on aesthetic highway design, air quality policy, community impact, environmental impact assessment, environmental justice, housing issues, environmental law, environmental planning and management, global climate change, hazardous materials, historic bridges, public involvement, social and economic impact, stormwater constituents, transportation noise, transportation planning, water quality, and wetlands. Range of awards: \$20,000-\$50,000.

Council for International Exchange of Scholars' Fulbright Senior Specialists provide short-term assistance to overseas host institutions in such areas as teacher training, developing or assessing curricula or educational materials, leading or participating in seminars or workshops, or taking part in special programs or conferences. CIES invites applications from U.S. scholars and other professionals to join the roster of Specialists in the following fields: anthropology and archaeology, business administration, communications and journalism, economics, education, environmental science, information technology, law, library science, political science, public administration, sociology, social work, U.S. studies in arts and humanities disciplines, and urban planning.

For more information, call Research & Sponsored Programs, x1476, or visit our Web site: www.orsp.umesp.maine.edu.

CENTER FOR TEACHING EXCELLENCE

The Center for Teaching Excellence, 212 Crossland Hall, is a resource for faculty at the University of Maine. Our mission is to promote continuing improvement in the quality of teaching and learning at UMaine.

(www.umaine.edu/teaching)

TEACHING LINKS

Our focus for this issue is teaching and technology:

<http://www.osu.edu/education/ftad>

Scroll on the left to "Readings on Teaching" and click "Use of Electronic Class Discussion." This handbook, prepared by Nancy Chism, includes a list of practical tips, references and appendices from Ohio State University.

<http://www.syllabus.com>

SyllabusWeb is an on-line magazine you can subscribe to for free. It is listed as "useful information on technology to enhance education."

<http://muse.widener.edu/Wolfram-Memorial-Library/pyramid.htm>

From Widener University's Wolfram-Memorial Library, visit the "Modular Approach to Teaching/Learning the World Wide Web." This pyramid includes "Introduction to the Web," "Using the Web for Research," "Comparing Web Search Engines" and "Evaluating Web Resources."

IACUC biannual training/orientation

The Institutional Animal Care and Use Committee (IACUC) announces the spring offering of the IACUC biannual training/orientation program. It will be held Wednesday, May 9 (Maine Day), 9-10:30 a.m., 220 Corbett Hall (across from the Gym). People who have attended previous training sessions do not have to attend.

This campuswide training/orientation program is in compliance with federal regulation and the University's approved Animal Welfare Assurance. All faculty, staff and students who work with live, vertebrate, non-human animals are required to participate in the program.

The IACUC will not act on protocols for approval of animal use until all project personnel have been certified as having completed the training program. Contact the Office of Research and Sponsored Programs for registration forms, x1476.

What's Ahead

**Academic Honors
Convocation
April 30**

**Spring Dance Concert
May 4-5**

**Division of Lifelong
Learning Honors
Convocation
May 8**

**Final Exams
May 14-18**

**Commencement
May 19**

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