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## Maine Perspective, v 11, i 14

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Flora Butterfield is enthralled by the story being read by UMaine student Michelle Girard at The Sharing Place Childcare Center, directed by Terri Hutchinson. Girard is one of 34 UMaine Work Study students participating in the federal America Reads program. See story page 10.

Photo by Monty Rand

## UMaine Internet Access Crosses Cyber Threshold

Internet service to Maine's research institutions crossed a major threshold when a link to a national high performance system known as Abilene went into operation this semester.

Internet traffic between the University of Maine and the more than 90 other U.S. research institutions connected to Abilene now travels over the new network. The UMaine connection was established with support from a \$350,000 two-year grant from the National Science Foundation.

The new link means that researchers can collaborate on complex modeling tasks, share sophisticated instruments and meet in virtual groups without the delays that have become common on what has become known as the "commodity Internet."

Among UMaine research projects that may take advantage of the network are the following:

- ▼ Development of an autonomous oceanographic network through simulation and manipulation of experimental vehicles.
- ▼ Interpretation of X-ray data on the microstructural characteristics of wood composites.
- ▼ Modeling of a fungus that attacks the Colorado potato beetle, a worldwide scourge of potato crops.
- ▼ Sharing of large electronic libraries of geographic data.
- ▼ Development of underwater communication devices with the U.S. Navy.
- ▼ Collaboration between researchers in UMaine's Laboratory for Surface Science and Technology and two federal labs, the U.S. Naval Research Laboratory and Oak Ridge

National Laboratory.

- ▼ Development of new digital information resources through Fogler Library working with other libraries and public institutions.

*continued on page 19*

## Plans for Hitchner Hall Addition Proceeding

Revised exterior design plans for the \$11.4 million Hitchner Hall addition have been recommended for approval by the University's Facilities Planning Committee.

The plans were presented by an ad hoc building committee that has been working with project architects and Facilities Management staff throughout this academic year.

Pending final approval of the exterior appearance, the design and development phase of the

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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.*



## Food Service Alternatives Planned During Union Expansion

Dining Services is gearing up to provide food service alternatives for the campus community during the months that Memorial Union restaurants are closed.

In May, restaurants in the Union will close while the facility is renovated and an addition constructed. Those primary retail dining units – the Damn Yankee, Bear's Den, Coffee Shop and Coe Lounge – are expected to remain closed until early in spring semester 2001.

In addition, a "buy four, get one free" lunch program, specially designed for off-campus students and other members of the University community, will be available in the dining commons this fall. Private dining rooms in Hilltop, Stewart and York Commons can be reserved for meetings. While the Union restaurants are out of service, Dining Services will make available:

- ▼ Extended hours at M.C. Fernald's. The recently renovated restaurant will be open 7 a.m.-7 p.m. during Summer Session; 7 a.m.-10 p.m. during the next academic year.
- ▼ Food service from a mobile unit. The 24-hour unit will be located on the north end of the Mall. Monday-Friday starting with the fall semester, weather permitting, the mobile food facility will serve sandwiches, salads, snacks and beverages.
- ▼ Ready-made food at Hilltop and Southside Markets. Both facilities are now offering prepared foods such as pizza and deli sandwiches.
- ▼ Coffee shops. In Fogler Library, the Oakes Room will be converted to a coffee shop for the University community. The University Club is expected to open in the Lynch Room.
- ▼ Fast food take-out. A space in the Memorial Union, to be determined soon, will be converted to allow Dining Services to maintain a presence in the Union. ▲

## UMaine Granted Patent for Seafood Freezing Process

The U.S. Patent Office has assigned a patent to the University for a new process to preserve the flavor and texture of frozen seafood. The process has been applied to lobsters and may be expanded to other types of seafood.

The patent is based on research by Robert Bayer of the Lobster Institute and Department of Biosystems Science and Engineering, and Alfred Bushway and Therese Work of the Department of Food Science and Human Nutrition. Work is now employed by the Kellogg Co., in Michigan.

James Ward of the UMaine Department of Industrial Cooperation managed the patent application procedure.

"This creates an opportunity for businesses that prefer not to handle live lobsters," says Bushway. "They will be able to use a frozen product that tastes as good and has a longer shelf life."

The process involves the injection of sugar-based compounds that help preserve texture and antioxidants that protect flavor. Undesirable flavors often result from the oxidation of lipid compounds, says Bushway. By retarding oxidation, natural flavors are maintained.

The patent notes that in addition to protecting flavor and texture, the UMaine process can promote a steady supply of products, protect public health and reduce seafood spoilage, thus conserving natural resources.

UMaine is in discussions with businesses that are interested in licensing the technology. IceBrand Seafoods in Portland supported development of the new process. Chemical work and sensory evaluation of seafood products was done at UMaine. ▲



UMaine senior Jim Leger of Saugus, Mass., received the 2000 Hockey Humanitarian Award, presented at the Frozen Four in Providence, R.I. on April 7. Leger is the fifth winner of the award, given annually to "college hockey's finest citizen." A business major and team captain, Leger is the president of UMaine's Student Athlete Advisory Board and was recognized for his work on a variety of community projects, including the Toys for Tots program, the Blaine House Conference promoting volunteerism, the Walk for Multiple Sclerosis and the Terry Fox Run for Cancer Research. Leger was also the male recipient of the 1999-2000 Dean Smith Award, given annually to UMaine's most outstanding student-athlete. Among his other academic achievements, Leger was recognized by the Maine Town and City Management Association, receiving one of only four awards to student interns statewide.

*Photo by Monty Rand*

### MAINE PERSPECTIVE PUBLISHING SCHEDULE

April 24 (copy deadline April 12); May 8 (copy deadline April 26).

## MAINE Perspective

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# Calendar

# MAINE

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 the Master Calendar Website: [calendar.umaine.edu](http://calendar.umaine.edu) or call 581-3745.

APRIL 12 - 28

## 12 Wednesday

**Find Your Way Out of the Woods Seminar**, part of the Maine Bound Winter/Summer 2000 course offerings, April 12. Registration required by calling x1794.

**Commuter Coffee Hour**, guest and topics to be announced, 10-11 a.m., April 12, Memorial Room, Union. x1406.

**Brown Bag Conversations**, weekly discussions on topics of interest to UMaine community, noon-1 p.m., April 12, FFA Room, Union. For topic information, call x1734.

**The Strategic Plan**, by Peter Hoff, part of the PEAC Brown Bag Luncheon Series, noon, April 12, Bodwell Lounge, Maine Center for the Arts. x1153.

**"English and Algonquin Women in the Age of Homespun,"** by Laurel Thatcher Ulrich, James Duncan Phillips professor of history, professor of women's studies, and director of the Charles Warren Center for Studies in American History, Harvard University, part of the Women in the Curriculum Luncheon Series and Women's History Celebration, 12:15-1:30 p.m., April 12, Bangor Lounge, Union. x1228.

**"Enhancing Students' Critical Thinking Skills,"** open to all UMaine faculty, instructors, and teaching assistants, facilitated by James Berg and Charlie Slavin, 1-3 p.m., April 12, North Lown Room, Union. Reservations required by calling x3472.

**Catching up on College Reading**, a Study Skills Workshop, 3-4 p.m., April 12, Sutton Lounge, Union. x1406.

**Athena Consort in Concert**, directed by Francis Vogt, part of the School of Performing Arts Season, 7:30 p.m., April 12, Minsky Recital Hall. Admission fee. x1755.

**Barefoot in the Park**, a Maine Masque Production, directed by Sean Fidler, part of the School of Performing Arts Season, 7:30 p.m., April 12, Hauck Auditorium. Admission Fee. x1755.

## 13 Thursday

**Registration for Fall 2000**, April 13.

**Commuter Coffee Hour**, guest will be the Solar Vehicle Team., 10-11 a.m., April 13, Memorial Room, Union. x1406.

**"Biochemical and Behavioral Defenses Against Ultraviolet Radiation in the Green Sea Urchin, *Strongylocentrotus droebachiensis*,"** by Nikki Adams, candidate for Ph.D. in zoology, noon, April 13, 104C Murray Hall.

**"Resisting the Market,"** by John O'Neill of Lancaster University, author of *The Market: Ecology, Policy and Politics* and a UMaine Visiting Scholar in Philosophy, part of the Socialist and Marxist Studies Series, 12:30-1:45 p.m., April 13, Bangor Lounge, Union. x3860.

**"Intellectual Property in Science and the Market,"** by John O'Neill of Lancaster University, UMaine Philosophy Visiting Scholar and the author of *The Market: Ecology, Policy and Politics*, offered by the Department of Philosophy, 4 p.m., April 13, Levinson Room, The Maples. x3860.

**The Ad and the Ego**, part of the Peace and Justice Film Series, 7 p.m., April 13, Devino Auditorium, Corbett Business Building. x3860.

**Barefoot in the Park**, a Maine Masque Production, directed by Sean Fidler, part of the School of Performing Arts Season, 7:30 p.m., April 13, Hauck Auditorium. Admission Fee. x1755.

## 14 Friday

**Registration for Fall 2000**, April 14.

**"The Origin and Implications of Gas-Escape Pockmarks in Gulf of Maine Estuaries,"** by Joe Kelley, part of the School of Marine Sciences Seminar Series, 11:15 a.m., April 14, 100 Bryand Global Sciences Center. x4326.

**Performance by the UMaine Jazz Combo**, part of the TGIF Music Series, 12:15-1 p.m., April 14, Damn Yankee, Union. x1406.

**"Assessing Semantic Similarity Among Spatial Entity Classes,"** by Maria Andrea Rodriguez, candidate for Ph.D. in spatial information science and engineering, 2:10 p.m., April 14, 326 Boardman Hall.

**"Neural Mutations that Affect Olfactory Function,"** by Steven DeBelle, University of Las Vegas, part of the Department of Biological Sciences Seminar Series, 3:10 p.m., April 14, 102 Murray Hall. x2970.

**"The Ecuadorian Presence in West Mexico: Cloth, Clothing and Spindylus Shells,"** by Patricia Rieff Anawalt, director, Center for the Study of Regional Dress, Fowler Museum of

Cultural History, UCLA, part of the Hudson Museum Lecture Series, 3:30 p.m., April 14, Hudson Museum, Maine Center for the Arts. x1901.

**Barefoot in the Park**, a Maine Masque Production, directed by Sean Fidler, part of the School of Performing Arts Season, 7:30 p.m., April 14, Hauck Auditorium, Union. Admission Fee. x1755.

## 15 Saturday

**Introduction to Rock Climbing Weekend**, part of the Maine Bound Winter/Summer 2000 course offerings, April 15-16. Admission Fee. Registration required by calling x1794.

**Beautiful Project 2000**, the fourth annual Beautiful Project celebrating all aspects of being a woman, with a special focus on body image, featuring workshops, a play, poetry reading, entertainment, offered by the Student Women's Association, part of Women's History Celebration, 10 a.m.-6 p.m., April 15, Corbett Business Building. x1508.

**Baseball: UMaine vs. Drexel**, noon, April 15, Mahaney Diamond. Admission Fee. xBEAR.

**Softball: UMaine vs. Boston University**, noon, April 15, North Athletic Fields. Admission Fee. xBEAR.

**Barefoot in the Park**, a Maine Masque Production, directed by Sean Fidler, part of the School of Performing Arts Season, 2 p.m., April 15, Hauck Auditorium. Admission Fee. x1755.

**Barefoot in the Park**, a Maine Masque Production, directed by Sean Fidler, part of the School of Performing Arts Season, 7:30 p.m., April 15, Hauck Auditorium. Admission Fee. x1755.

**Phat Fifteen: Dark Side of Oz**, a multimedia event featuring Pink Floyd's *Dark Side of the Moon* with the Wizard of Oz, 9 p.m.-midnight, April 15, Bear's Den, Union. Admission Fee. x1406.

## 16 Sunday

**Softball: UMaine vs. Boston University**, 11 a.m., April 16, North Athletic Fields. Admission Fee. xBEAR.

**Baseball: UMaine vs. Drexel**, noon, April 16, Mahaney Diamond. Admission Fee. xBEAR.

**Barefoot in the Park**, a Maine Masque Production, directed by Sean Fidler, part of the School of Performing Arts Season, 2 p.m., April 16, Hauck Auditorium. Admission Fee. x1755.

# 17 Monday

**Registration for Fall 2000**, April 17.

**The University of Maine Open House Showcase**, coordinated by New Student Programs, Enrollment Management, April 17, Maine Center for the Arts. x1826.

**Youth Adventure Klub**, part of the Maine Bound Winter/Summer 2000 course offerings, April 17-19. Admission Fee. x1794.

**"Ecology, Evolution and Conservation of Giant Galapagos Tortoises,"** by James Gibbs, State University of New York-Syracuse, part of the Wildlife Ecology Seminar Series, noon, April 17, 204 Nutting Hall. x2862.

**Readings by Poets Clark Coolidge and Michael Gizzi**, part of the New Writing Series, offered by the English Department, 4 p.m., April 17, 100 Neville Hall. x3822.

# 18 Tuesday

**"Performance Sea Kayaking,"** part of the Maine Bound Lunchtime Adventure Series, noon, April 18, FFA Room, Union. x1794.

**Registration for Fall 2000**, April 18.

**Commuter Coffee Hour**, guest and topic to be announced, 10-11 a.m., April 18, Memorial Room, Union.

**"Molecular Theory of Equilibrium and Nonequilibrium Solvation,"** by Fernando Ranieri, Department of Chemistry, SUNY-Stony Brook, a Chemistry Colloquium, 11 a.m., April 18, 316 Aubert Hall. x1169.

**Students with Children**, a weekly discussion group for students with children, noon-1 p.m., April 18, Old Town Room, Union. x1406.

**"Social Roles and Sex Differences in Emotional Experience: A U.S.-Pakistani Comparison,"** by Michele Alexander, part of the Women in the Curriculum Luncheon Series, 12:15-1:30 p.m., April 18, Bangor Lounge, Union. x1228.

**Chamber Music Recital**, featuring faculty and student ensembles, part of the School of Performing Arts Season, 7:30 p.m., April 18, Minsky Recital Hall. Admission Fee. x1755.

**Coffee House with David Rosvic**, 8-10 p.m., April 18, Peabody Lounge, Union. x1735.

**Reading by Poet Robert Creeley**, author of *So There: Poems 1976-1983*, *Life & Death* and *The Daybook of a Virtual Poet*, winner of the 1999 Bollingen Prize, part of a four-day residency at UMaine, offered by the Department of English, 8 p.m., April 18, 100 Neville Hall. x3822.

# 19 Wednesday

**Outdoor Leadership Training**, part of the Maine Bound Winter/Summer 2000 course offerings, April 19. Admission Fee. Registration by calling x1794.

**Registration for Fall 2000**, April 19.

**Commuter Coffee Hour**, guest and topic to be announced, 10-11 a.m., April 19, Memorial Room, Union. x1406.

**Discovery Day: Pictures on Birchbark**, an event for parents and young people, featuring Passamaquoddy artist David Bridges, a Hudson Museum Just for Kids program, for ages 7 and up, 10 a.m., April 19, Maine Center for the Arts. Admission Fee. Preregistration required. x1901.

**Brown Bag Conversations**, weekly discussions on topics of interest to UMaine community, noon-1 p.m., April 19, FFA Room, Union. For topic information call x1734.

**"Thank God It's Monday,"** UMaine Professional Development Day featuring a presentation from 1-3 p.m. by Susan Arledge, a Portland-based consultant who uses humor and real-life anecdotes to get people energized about their work, offered by the Professional Employees' Advisory Council; noon lunch reservations required by April 14 (contact Joyce Henckler via FirstClass), April 19, Wells Conference Center.

**Faculty Senate Meeting**, 3:15 p.m., April 19, Mahogany Room, Wells Conference Center. x1167.

**Baseball: UMaine vs. Colby College**, 6 p.m., April 19, Mahaney Diamond. Admission Fee. xBEAR.

**Performance of Works by Daron Hagen**, including commentary by the composer, part of the School of Performing Arts Season, 7:30 p.m., April 19, Minsky Recital Hall Hall. Admission Fee. x1755.

**Thursday Night at the Bear's Den with the Jennifer Tefft Band**, 9 p.m.-midnight, April 19, Union. x1735.

# 20 Thursday

**Registration for Fall 2000**, April 20.

**"Novel Photosynthetic Materials: New Tricks from Old Complexes,"** by Charles Kutal, Department of Chemistry, University of Georgia, a Chemistry Colloquium, 11 a.m., April 20, 316 Aubert Hall. x1169.

**Spring Bulb Sale**, offered by the Landscape Horticulture Club, 11 a.m.-3 p.m., April 20, Deering Hall. x2938.

**"Real Partners: Being a County Agent,"** by Lewis Wyman, former UMaine Cooperative Extension educator emeritus, part of the Page Farm and Home Museum Brown Bag Lunch Series, noon, April 20, Page Museum. x4100.

**"Building Communities and Media Alternatives: The Case for Community Radio,"** by Matt Murphy, general manager of WERU, and other leaders in community radio, part of the Socialist and Marxist Studies Series, 12:30-1:45 p.m., April 20, Bangor Lounge, Union. x3860.

**"Copyright, Ownership and Electronic Media,"** a panel discussion with Sharon Fitzgerald, Marilyn Lutz, George Markowsky and Harlan Onsrud, offered by Fogler Library Friends, 3-5 p.m., April 20, Special Collections, Fogler Library. x1696.

**Penobscot: The People and the River**, part of the Peace and Justice Film Series, 7 p.m., April 20, Devino Auditorium, Corbett Business Building. x3860.

# 21 Friday

**Lead Rock Climbing Clinic-Sport**, part of the Maine Bound Winter/Summer 2000 course offerings, April 21 Admission Fee. Register by calling x1794.

**Spring Bulb Sale**, offered by the Landscape Horticulture Club, 9 a.m.-1 p.m., April 21, Deering Hall. x2938.

**Performance by Slim Pickens**, part of the TGIF Music Series, 12:15-1 p.m., April 21, Damn Yankee. x1406.

**Registration for Fall 2000 Ends**, April 21.

## Ongoing Events

### Exhibits/Demonstrations/Tours

**Bangor Art Society Exhibit**, featuring works by Lindsay May Farris, Gaye Grant, Glennis Mockler, Darlene Sweezey and Helen Wolfhagen, through April 20, Chadbourne Hall. x3072.

**Student Art Juried Annual**, a Museum of Art exhibit, April 21-May 12, Carnegie Hall. x3255.

**Images for Eternity: Mexican Tomb Figures and Retablos**, a Hudson Museum exhibit, through May 14, Maine Center for the Arts. x1901.

### Meetings of Groups/Organizations

**Career Action Network for Nontraditional Women Students**, meets first Friday of every month, noon-1:30 p.m., offered by the Commuter/NTS Office, Women's Resource Center and Career Center, Fernald Hall. x1508.

**Circle K** meets every Monday, 6:30-7:30 p.m., Bangor Lounge, Union. x7818.

**Foreign Language Tables**: Monday - French; Tuesday - Russian; Wednesday - German; Thursday - Spanish, noon-1 p.m., 207 Little Hall. x2073.

**Gay, Lesbian, Bisexual, Transgendered Discussion Group** meets every Monday, 2-3 p.m., Old Town Room, Union. x1406.

**International Coffee Hour**, every Friday, 4-5 p.m., Peabody Lounge, Union. x2905.

**Maine Peace Action Committee (MPAC)** meets every Sunday, 7 p.m., beginning Sept. 12, Maples. x3860.

**Muslim Prayer**, noon-2 p.m., every Friday, Drummond Chapel, Union. x3449.

**The Union Board (TUB)** meets every Wednesday, 6:30 p.m., Totman Lounge, Union. x1735.

**Yoga Groups - for Stress Management and Fitness**, Fridays, noon-1 p.m., through May 19, Dexter Lounge, Alford Arena. x4014.



**"How Does the Circadian Clock Send Timing Information to the Brain?"** by Paul Taghert, Washington University Medical School, part of the Department of Biological Sciences Seminar Series, 3:10 p.m., April 21, 102 Murray Hall. x2970.

## 22 Saturday

### Advanced Whitewater Kayak

**Creeking**, part of the Maine Bound Winter/Summer 2000 course offerings, April 22-23. Admission Fee. Registration required by calling x1794.

**Intermediate Rock Climbing**, part of the Maine Bound Winter/Summer 2000 course offerings, April 22-23. Admission Fee. Registration required by calling x1794.

### Self-Rescue for Rock Climbers:

**Basic**, part of the Maine Bound Winter/Summer 2000 course offerings, April 22. Admission Fee. Registration required by calling x1794.

**4-H Day at the University**, with 4-H'ers from across the state invited to the University for events and lectures occurring at various buildings across campus, offered by the Collegiate 4-H group, 9 a.m.-5 p.m., April 22. x3188/x2832.

**Black Bear Student Organization and Leadership Symposium**, one-day conference for UMaine students interested in improving the quality of their student organization or their own leadership abilities, 9 a.m.-2 p.m., April 22, Corbett Business Building. To register call x4183.

**14th Annual Easter Egg Hunt**, with prizes and appearances by Monty Moose and the Easter Bunny, offered by the University Credit Union and Orono Parks and Recreation Department (where pre-registration forms are available), 10 a.m., April 22, Asa Adams School, Orono. x1458.

**Phat Fifteen: Virtual Underground**, with a DJ in the Damn Yankee, cash bar in the Bear's Den, and refreshments in the Coffee Shop, 9 p.m.-2 a.m., April 22, Union. Admission Fee. x1406.

## 24 Monday

**Basic Life Support CPR**, part of the Maine Bound Winter/Summer course offerings, April 24. Admission Fee. Registration required by calling x1794.

**Phi Beta Kappa Annual Induction Ceremony**, highlighted by a keynote address by Dennis O'Brien, former president of Bucknell University and the University of Rochester, speaking on "Phi Beta Kappa and Political Correctness," 4 p.m., April 24, Bodwell Lounge, Maine Center for the Arts. x1920.

## 25 Tuesday

**"Lignins and Biosynthetically Related Polyphenols Important for Humus Formation,"** by Tatjana Stevanovic, Laval University, a Chemistry Colloquium, 11 a.m., April 25, 316 Aubert Hall. x1169.

**Students with Children**, a weekly discussion group for students with children, noon-1 p.m., April 25, Walker Room, Union. x1406.

**"Women and Revolution in Cyprus,"** by Cynthia Mahmood, part of the Women in the Curriculum Luncheon Series, 12:15-1:30 p.m., April 25, Bangor Lounge, Union. x1228.

**Performance by Symphonic Band and Concert Band**, directed by Curvin Farnham and Chris White, part of the School of Performing Arts Season, 7:30 p.m., April 25, Hutchins Concert Hall. Admission Fee. x1755.

**Coffee House Featuring Beth Wood**, 8-10 p.m., April 25, Peabody Lounge, Union. x1735.

## 26 Wednesday

**Commuter Coffee Hour**, guest and topic to be announced, 10-11 a.m., April 26, Memorial Room, Union. x1406.

**"Biological Dynamics of Landscapes,"** by Malcolm Hunter, recently named Outstanding Wildlife Alumnus, part of the Wildlife Ecology Seminar Series, noon, April 26, 204 Nutting Hall. x2939.

**Brown Bag Conversations**, weekly discussions on topics of interest to UMaine community, noon-1 p.m., April 26, FFA Room, Union. For topic information, call x1734.

**Concert featuring Methodman & Redman**, with special guests Mixmaster Mike from the Beastie Boys, Rahzel, Outsidaz, and Rustic Overtones, offered by the Student Entertainment Committee, 5 p.m., April 26, Outdoor Concert Park, Hilltop. Admission Fee. For general information, call x1738. Tickets available at Strawberries locations, online ([www.tickets.com](http://www.tickets.com)) or by calling 800-477-6849.

**College of Natural Sciences, Forestry, and Agriculture Annual Scholarship Recognition Banquet**, sponsored by Xi Sigma Pi, Kappa Omicron Nu and Alpha Zeta; department receptions and scholarship presentations before the banquet, 6:15 p.m., April 26, Wells Conference Center. x3202.

**Baseball: UMaine vs. Bowdoin College**, 7 p.m., April 26, Mahaney Diamond. Admission Fee. xBEAR.

## 27 Thursday

**Take Our Daughters to Work Day**, UMaine observance of the national celebration, April 27, Fernald Hall. x1508.

**Commuter Coffee Hour**, discussing New Media, 10 a.m., April 27, Memorial Room, Union. x1406.

**Reception for the New England and Atlantic Canada: Connections and Comparisons Conference**, 6-8 p.m., April 27, Canadian American Center. RSVP to x4220.

**Le Stagioni in Concert**, part of the School of Performing Arts Season, 7:30 p.m., April 27, Minsky Recital Hall. Admission Fee. x1755.

## 28 Friday

**New England and Atlantic Canada: Connections and Comparisons**, opening of a two-day Canadian history conference, 8 a.m., April 28, Jenness Hall. x4220.

## Look Who's On Campus

UMaine Philosophy Visiting Scholar **JOHN O'NEILL** will deliver two lectures on campus Thursday, April 13. O'Neill will speak at 12:30 p.m., Bangor Lounge, Union on "Resisting the Market: Epistemological Arguments for and Against the Market Economy." At 4 p.m., Levinson Room, The Maples, O'Neill will talk on "Intellectual Property in Science and the Market." O'Neill is a professor of philosophy at Lancaster University, United Kingdom. A leading environmental and political philosopher, O'Neill is the author of *The Market: Ethics, Knowledge and Politics; Ecology, Policy and Politics: Human Wellbeing and the Natural World*; and *Worlds Without Content: Against Formalism*. O'Neill has been involved in a range of environmental policy projects for the European Community, United Kingdom, Switzerland, Norway and Spain.

Poets **CLARK COOLIDGE** and **MICHAEL GIZZI** will be on campus Monday-Tuesday, April 17-18, the first stop on their East Coast tour. They will give a reading at 4 p.m., April 17, 100 Neville Hall. Both days, they will visit classes. Coolidge and Gizzi take the bop improvisational techniques of Jack Kerouac into new territory - at once wildly vernacular and intellectually intricate. Coolidge emerged in the early '60s among the New York School poets and exercised perhaps the single most powerful influence over the language-centered writers of the '70s and '80s. Among his many path-breaking books are *Space, The Maintains, Own Face, The Crystal Text, At Egypt, and The Rova Improvisations*. His shorter poems from 1978-1984 are collected in two volumes, *Solution Passage* and *Sound as Thought*. Gizzi's most recent books are *Cured in the Going Bebop, Too Much Johnson* and *No Both*. A visionary editor of journals such as *Lingo* and *Shiny*, and a series of books from Hard Press, Gizzi is also a high school teacher in the Berkshires.

Poet **ROBERT CREELEY** will be at UMaine for a four-day residency, Monday-Thursday, April 17-20. He will participate in a number of Department of English-organized events, including class visits, discussion panels, and a reading at 8 p.m., Tuesday, April 18, 100 Neville Hall. Creeley has been a defining force in American poetry since the early 1950s. Editor of *Black Mountain Review*, Creeley has authored more than 60 books. Creeley received the 1999 Bollingen Prize. His most recent books are *So There: Poems 1976-1983, Life & Death* and *The Daybook of a Virtual Poet*.

**DENNIS O'BRIEN** will be speaking on "Phi Beta Kappa and Political Correctness" at the annual UMaine Phi Beta Kappa Induction Ceremony at 4 p.m., Monday, April 24, in the Bodwell Area, Maine Center for the Arts. O'Brien is president emeritus of the University of Rochester, where he served for 10 years before retiring in 1994. He also was president of Bucknell University from 1976-1984. At both Rochester and Bucknell, he was a professor of philosophy. O'Brien has written widely in professional and popular publications on the philosophy of history, religion, education and art. His most recent book is *All the Essential Half Truths About Higher Education*. O'Brien is currently a Phi Beta Kappa Fellows lecturer.

## People in Perspective

Most undergraduates spend more time outside than inside the classroom. By some estimates, more than half of a student's time is spent in nonacademic pursuits, according to Shannetta Mennenga, coordinator of health promotion and student services education.

That's why the out-of-class learning environment needs to be all it can be.

"I am inspired daily by students," Mennenga says. "Every day, someone walks into my office to tell me he or she is doing this or has that opportunity. It is inspiring to get to know first-year students and to see where they are four years later. There always are ups and downs during their college years, but when I see the maturing that happens during that time, that inspires me."

Undergraduates are adults, and as adults, they have the opportunity to make their own choices, she says. And because there are consequences for every choice made, Mennenga's job is to help students understand those consequences.

"With every person who takes that different path, makes the wrong choice, there are five doing well. For all of them, it is important that the resources they need are available for them to use in the University community."

Mennenga joined the UMaine community in 1997 as assistant director for the Center for Students and Community Life, where she has been involved in a number of community-based programs, including awareness campaigns focused on rape and sexual assault, and substance abuse, like those coming up this month.

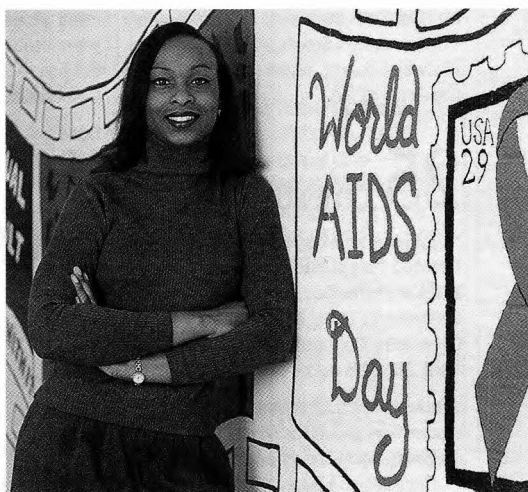
For a year, Mennenga served as interim director of Multicultural Student Affairs. And for the past year and a half, she has lived in Hancock Hall as part of the Faculty-in-Residence program, serving as a mentor, role model and an available resource with an open-door policy. She will complete a master's degree in public administration next fall.

Prior to coming to UMaine, Mennenga spent a year as the education coordinator for the Eastern Maine AIDS network. The work dovetailed into her undergraduate research on HIV and AIDS at the University of Illinois, where, as the first college student in her family, she received a bachelor's degree in biology.

"My years as an undergraduate student are still fresh in my mind. That helps my relationship with UMaine students and my understanding of where they're coming from," says Mennenga. "But unlike when I was a student (in the early 1990s), technology has changed, affecting the way we communicate about student programs."

"When I was an undergraduate, our campus community was built by our RA (resident assistant) who dictated that we would go to mandatory floor meetings or programs. In workshops, we learned about issues like safe sex. It was in one of the programs that I met a person with AIDS for the first time."

Today on most college campuses, there is no assurance of such captive campus audiences, she says. "The days of students automatically coming to programs or workshop sessions are fading. For some students, with TVs, computers and other conveniences in their rooms, they may only come out to go to classes or the library. While we will continue to offer program-



Shannetta Mennenga

Coordinator of health promotion and student services education

Photo by Monty Rand

ming that gets students talking face to face, we also know we have to get the information to them in other ways, like through the media and technology," Mennenga says.

College students today continue to grapple with many of the same issues, Mennenga says. "They have always faced, and continue to face, issues with alcohol and other drugs, and issues concerning sexuality, orientation, gender and

relationships," she says. "Some of the biggest hurdles have to do with overcoming students' sense that they know all they need to know about these issues, that there's nothing more they can or need to learn."

Proactive alcohol awareness education is often the most challenging to get across to students, she says. "They think they know it if they went through a DARE program in high school," Mennenga says. "We get them talking about it using 'Alcohol 101,' an interactive CD-ROM designed to get students to think about what's normal when it comes to drinking."

"One of the questions we ask students in this educational program concerns what they think is the average number of alcoholic drinks consumed weekly by college students. The students usually respond with high numbers, then are shocked to find that the average number of alcoholic drinks consumed weekly by college-age women is three; six for college-age men."

The whole idea is to get at what their peers are doing, Mennenga says. "For some, it may be that they are allowing peer pressure to drive their lives. Understanding that the majority of college students are not drinking heavily or at all hopefully will get them to look at the environments in which they find themselves indulging above the average, and will get them to do something about it."

"Our goal is to change behavior," says Mennenga. "We know we're succeeding when we see students increasingly thinking proactively and thinking critically."

The proactive, positive influence of peers is the philosophy behind the Peer Educators Program, coordinated by Mennenga. This year, almost a dozen UMaine students are involved in offering educational information and programming in three major areas: sexual health and reproductive education, life skills and diversity.

"The Peer Educators work to make liaisons across campus. That's the key to good programming. One organization can not have sole responsibility for getting the word out. It takes our entire campus community to reach all students and make sure they have all they need to spend their time at UMaine to the fullest."

"Often all it takes is listening to students concerning their needs for a comfortable and safe environment."

# Center Stage

## School of Performing Arts

### Composer to Visit for Concert of His Works

Composer Daron Hagen will offer insights about his music during a recital of his works by the Symphonic Band and faculty members from the School of Performing Arts.

The concert begins at 7:30 p.m., Wednesday, April 19 in the Minsky Recital Hall. The Symphonic Band will open with Hagen's *Wedding Dances*. Three faculty members – percussionist Stuart Marrs, pianist Phillip Silver and clarinetist Beth Wiemann, will follow with a performance of *Jot!*

Concluding the program will be vocalist Nancy Ogle and Silver performing a series of songs for soprano and piano by Hagen.

Between pieces, Hagen will discuss his work and music.

Hagen, who lives and works in New York City, has composed three operas: *Shining Brow*, *Vera of Las Vegas* and *Bandanna*. The New York Philharmonic, the Philadelphia Orchestra and the St. Louis Symphony all have premiered Hagen's works.

He taught composition for 10 years at Bard College, with stints at the City College of New York, New York University and Princeton University, as well as two years on the faculty of the Curtis Institute, before leaving academia to devote his career to composing.

### Guest Soloist to Join Symphonic and Concert Bands Concert

A 31-year member of the United States Navy Band will join the UMaine Symphonic Band and the Concert Band in their spring concert at 7:30 p.m., Tuesday, April 25 in Hutchins Concert Hall.

Saxophonist Dale Underwood will be the guest soloist. In addition to performing with the United States Navy Band for more than three decades, Underwood founded the Navy Band's saxophone symposium. He has performed solo concerts for every U.S. president since Lyndon Johnson. Underwood holds professorships with George Mason University, the University of Maryland and Shepherd College.

The 60-member Symphonic Band, conducted by Associate Professor of Music Curvin Farnham, will perform *Gershwin Fantasy*, a medley of songs by George Gershwin, the ballet section of *Pineapple Poll Suite* by Gilbert and Sullivan, and *Tritico* by Vaclav Nelhybel.

The 72-member Concert Band, conducted by Music Lecturer Christopher White, will perform *Prelude, Siciliano and Rondo for Symphonic Band* by Malcolm Arnold, *Chorale and Alleluia* by Howard Hanson, *Adagio* by David Holsinger and *Valdres (Concert March)* by Johannes Hannsen.

### Cellists Highlight Chamber Music Ensembles

Cellists will be featured in each of the five student and faculty ensembles performing in the spring chamber music recital Tuesday, April 18, 7:30 p.m. in Minsky Recital Hall.

The annual recital highlights the talents of students in the School of Performing Arts Chamber Music Program, coordinated by music instructor Ginger Yang Hwalek.

For this performance, the students and their faculty coaches will be joined by members of Le Stagioni, the UMaine/Bangor Symphony Orchestra String Quartet.

The program opens with a work by Mendelssohn, performed by graduate students Amanda Cushman on viola and Joanna Calogero on cello, and undergraduate violinists Nicole Bartolatti and Melissa Bragdon.



Le Stagioni, the UMaine/Bangor Symphony Orchestra String Quartet, will perform in concert at 7:30 p.m., Thursday, April 27, in Minsky Recital Hall. The program includes *Quartettsatz* by Schubert and *Quartet in F minor, Op. 80* by Mendelssohn. Members of the quartet are, left to right, violinists Patricia Shih and Weronika Knapik, cellist Inna Nassidze and violist Nikita Pogrebnoy.

Photo by Monty Rand

Faculty members Diane Roscetti and Noreen Silver on cello, and pianist Phillip Silver will be joined by Le Stagioni cellist Inna Nassidze for a performance of David Popper's *Requiem*. Roscetti, Nassidze and Phillip Silver also will perform a Gian Carlo Menotti suite.

Calogero will then join undergraduate students Nancy Vincent on violin and Jennifer Moore on piano for a performance of Alan Hovhaness' *Trio I*.

A string sextet by Brahms will round out the program, performed by faculty members Roscetti and Anatole Wieck on viola, and members of Le Stagioni – violinists Patricia Shih and Weronika Knapik, violist Nikita Pogrebnoy and Nassidze on cello.

## MAINE DAY 2000

May 10

Founded in 1935 by President Arthur Hauck, Maine Day has been a long-standing tradition of community service to the campus. It is a day that is set aside each year for students, faculty, staff and administrators to work together to beautify the campus. This year President Hoff has challenged the campus to get involved. He is looking for 3,000 participants, and if this challenge is met, he and his senior administrative team will take on teams in the annual Maine Day Oozeball event! So what are you waiting for? Organize your friends, co-workers, or student group and participate in Maine Day. Here's how to get involved:

- ▼ Be a volunteer! There are a number of service projects needing volunteers. Sign up as an individual or as a group.
- ▼ Adopt-a-Building, such as your academic/office building, residence hall, or Greek house, and clean up inside and out!
- ▼ Create your own project, give us your ideas and we will help you get volunteers!

To submit a project or to volunteer, contact the Maine Day Committee at 581-1491. Or sign up via the Web at: [www.umaine.edu/csci/meday.html](http://www.umaine.edu/csci/meday.html)

**It's all about service!**



## Helping to Take the Anxiety Out of Asthma

In its severest form, asthma can be an anxiety-laden disorder because of its life-threatening consequences. In addition, a side effect of some prescriptions for the treatment of asthma may be anxiety.

However, in some people who have both asthma and panic disorder, the distressing symptoms can not only be compounded but more frequent. It may be difficult for individuals with both disorders to determine whether their symptoms are those of an asthma attack, or a panic attack.

Behavioral medicine may be the answer.

"We are primarily looking at an effective treatment for panic disorder that will be tailored to help people differentiate between panic and asthma symptoms," says Diana Dorhofer, a Ph.D. student in psychology. "Asthma can be life-threatening so it is considered more critical, but panic disorder can also be extremely upsetting, to the point that people may think they're having a heart attack and go to the emergency room for help. The distress involved is significant."

"What I'd like to eventually accomplish is the development of a specific treatment addressing both panic and asthma symptoms," Dorhofer says. "By helping people differentiate between symptoms of the two disorders and how they can cope, we could see a reduction in trips to emergency rooms and we could have a package of standard, safe treatments."

Dorhofer received an undergraduate degree in psychology from Oregon State University and was accepted into UMaine's competitive Ph.D. program in psychology in 1995. Her faculty advisor is Sandy Sigmon, associate professor of psychology and director of clinical training.

"I wanted to do more in the area of women's health and the psychology of women," says Dorhofer, who is in the fifth year of her Ph.D. program. She will spend the sixth year in applied clinical internship. Dorhofer has been accepted for an internship at Palo Alto Veterans Hospital, where she will be involved in the psychological and behavioral treatment of patients with a variety of health concerns, such as chronic pain, cancer, and chronic obstructive pulmonary disease.

In her research at UMaine, Dorhofer has studied how asthma interacts with the menstrual cycle, particularly the exacerbation of asthma for some women during the week before their period starts. It was during this work that she found that women with asthma who have experienced at least one panic attack in

the past year reported more psychological distress in their lives and responded with more anxiety to asthma-related scenes.

Panic disorder is characterized by recurrent, sudden, unexpected anxiety that lasts for a short period of time, during which the person can experience such symptoms as sweating, shaking, hot flashes, choking, and fears of losing control, "going crazy" or dying. The symptoms of panic attacks and asthma can be similar, making them difficult to differentiate.

Nationally, it is estimated that up to 2 percent of the general population has panic disorder. However, the incidence of panic disorder in people with asthma may range from 7 percent to 24 percent of the population.

In her search for participants for her studies, Dorhofer found that out of every 100 women taking PSY 100, up to 15 have asthma, and about six of these women have had at least one panic attack.

In the general population, the incidence of asthma is increasing, and in children, rates are skyrocketing.

Until now, most panic disorder research has screened out those people with both disorders. "This is really an area in its infancy," says Dorhofer. "People have studied asthma as long as it has been in existence, looking at the triggers and treatments when attacks occur. The study of asthma and panic attacks has taken place in the past 10 years."

"We need to find out what's happening in people with both asthma and panic disorder," she says. "Because so many people have both disorders, it is important to look at long-term psychological and lung function effects."

Dorhofer's dissertation research focuses on the cognitions people have about their bodies during asthma and panic attacks. After having women with and without asthma and/or panic disorder engage in several experimental tasks, Dorhofer monitors participants' cognitions, symptoms and sensations they experience during the tasks.

People with panic disorder who are exposed to their most fearful situations over a long period of time may learn not to be as afraid; Dorhofer is trying to determine if the same treatment is safe and effective for individuals who also have asthma.

Her work dovetails with recent studies by researchers in a variety of disciplines who are exploring the link between psychological variables and asthma symptoms. Dorhofer's work shows that it may be possible to decrease the impact of anxiety-provoking events for people with

*continued on page 13*



Diana Dorhofer

*Photo by Monty Rand*

### DOCTORAL PROGRAM IN CLINICAL PSYCHOLOGY A NATIONAL LEADER

Since 1975, the University of Maine's doctoral program in clinical psychology, which is accredited by the American Psychological Association, has graduated 85 students. Almost a quarter of these graduates have remained in Maine and are providing psychological services.

Each year, the program receives 75-150 applications. The highly competitive doctoral program annually enrolls up to six students from throughout the nation and Canada.

This academic year, 25 students are enrolled. The program has two tracks: general clinical and developmental-clinical. UMaine's doctoral program in clinical psychology is one of only seven in the nation that offers joint training in developmental and clinical perspectives within the developmental-clinical track.

Although students in both tracks are exposed to adult and child clinical experiences, training for students in the developmental-clinical track focuses more on children and adolescents.

Using the scientist-practitioner model of

*continued on page 13*

# The CUTTING EDGE

University of Maine Research on the Frontiers of Science

## Testing to See If NASA Panels Can Take the Heat

In a collaborative project with the National Aeronautics and Space Administration (NASA), a team of UMaine mechanical engineers put panels from the X-38 crew return vehicle through a worse-case heat and pressure scenario at Crosby Lab in March.

NASA will use the test results to finalize design specifications for the shell of the space vehicle. When constructed and deployed, the X-38 will function as an emergency lifeboat on the international space station.

NASA is working with Vince Caccese, associate professor of mechanical engineering, and his students to make sure that the graphite aeroshell panels will withstand the rigors of re-entry and get astronauts safely back to Earth.

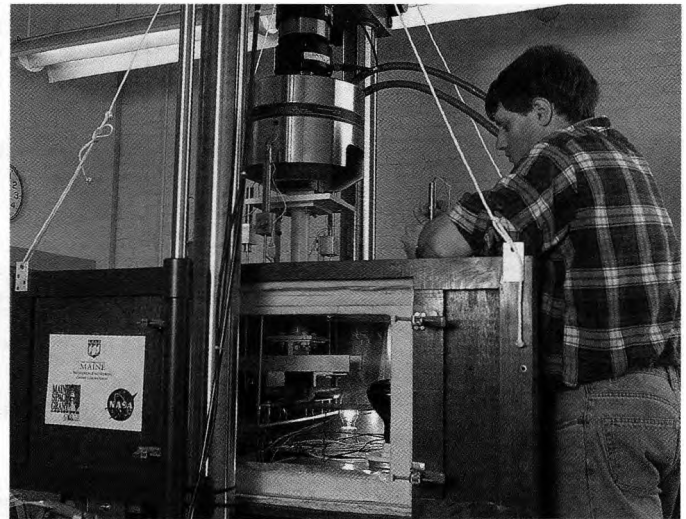
Caccese coordinates the team, which also consists of students Christopher Malm of Caribou, Richard Mewer of Eliot and Josh Walls of Yarmouth.

"We've been working with UMaine engineers to test the structural characteristics of the aeroshell panels for a couple of years through the Maine Space Grant Program," says NASA engineer Ron Baccus, who came to Orono to help conduct the tests in March. "It's been a very good relationship, and we're very happy with the results."

The students did all the calculations on heat transfer and thermal requirements, and they wrote the software that controls the oven, says Caccese.

Painted UMaine blue, the 15-foot-3-inch insulated oven contains two electric heating elements, four heat lamps and steel blocks that support the panel to be tested. The oven fits on an 8-foot tall pressure testing machine that applies precise forces directly to the panel through the top of the oven.

During the tests, 2-foot-long panel sections were placed in the oven and heated to 325 degrees Fahrenheit. Increasing force was



Student Josh Walls works on the oven used in the NASA experiments.

Photo by Monty Rand

applied to the panel until it began to break. The panels cracked along a glued joint between a curved stiffening element and the flat carbon composite surface.

"This is a worse-case scenario," says Baccus. "Under actual conditions during re-entry, tiles on the skin of the X-38 absorb heat and reflect much of it back into the air. The panels will not be this hot when they are under maximum stress. Nevertheless, we want to be conservative in our design."

In addition to the tests, Caccese and Malm are using a finite element model to characterize the performance of the panels under various combinations of heat and pressure. ▲



Christopher Bailey, right, and Steve Doughty confer on a lobster pound survey on Friendship Long Island.

## Surveying Lobsters by the Pound

An island lobster pound has become the latest site for UMaine students in Spatial Information Science and Engineering (SIE) to get hands-on experi-

ence with topographic surveying. Last fall, a group of SIE students traveled to Friendship Long Island to begin mapping the contours of a six-acre lobster pound for The Lobster Conservancy, a non-profit research and education organization.

The students are members of the ACSM/ASPRS Student Chapter (American Congress on Surveying & Mapping and the American Society of Photogrammetry & Remote Sensing) at the University of Maine. The project is providing experience in the type of work they might do in a private surveying firm.

"We met the directors of the organization on the docks one Saturday in late November," says Steve Doughty, a graduate student from Dearborn, Mich., who is helping coordinate the

project. "We had to take food, tents and other gear in case the weather turned bad and we couldn't make it back the same day."

Students involved in the project are Doughty, Stephanie Sturtevant of Mt. Vernon, Christopher Bailey and Valerie Carney of Orono, Joshua Connell of Old Town, Ted Wells of Bar Harbor, Ashton Lamont of St. Johnsbury, Vt., and Brian Naberezny of South Plainfield, N.J.

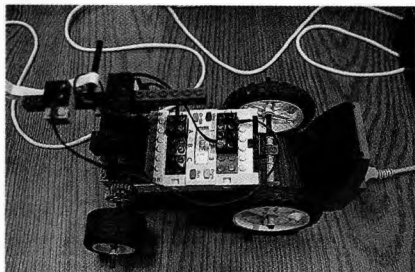
The eight students established control points and collected data on the shape of the basin at low tide. They are entering measurements into Autocad, a software program commonly used to generate engineering diagrams.

The Friendship Long Island facility is one of three pounds donated in 1998 to The Lobster Conservancy by the U.S.I. Corp., of Rockland. The organization intends to use the pound for experiments on lobster behavior and ecology.

"We're very pleased with the students' work and enthusiasm," says Sara Ellis, TLC director and a UMaine School of Marine Sciences instructor. "This six-acre pound gives us an unprecedented opportunity to study lobsters in a natural laboratory. The students will help us understand the lay of the land within the pound, where the shallow slopes and deep spots are located. This will help us place shelters for our study lobsters."

TLC has received grants from the Lobster Institute at UMaine, the Maine/New Hampshire Sea Grant Program and the Davis Conservation Foundation for tagging studies on juvenile and adult lobsters. ▲

# The Language of Le



Every Wednesday and Thursday when youngsters gather at the Talmar Wood Community Center, they spend the first few minutes rehashing the highlights of their middle school day that just ended. Then talk turns to

infrared transmitters, sensors and computer programming.

Welcome to the Robotics Club.

"We get to learn about gears," says 10-year-old Greg. "It's cool and fun because we're building robot cars that are supposed to move.

"When I first saw mine go, I was surprised," he says. "I didn't think I could put something like this together. I thought it was too complicated."

Twelve-year-old Tracy heard about the club from her school guidance counselor. "I came the first time to see how it was and decided to stay," she says. "What I've learned most is to not get frustrated and not to give up – keep building even if it doesn't work the first time."

The Robotics Club is offered for ages 9-14 this semester through a collaboration between the UMaine Department of Computer Science and The Housing Foundation, a non-profit housing corporation that operates the Talmar Wood housing project. The club is led by UMaine computer science graduate student Gilliad Munden of Rockland, with the help of undergraduate Work Study students Katherine Comeau of Atkinson and Kevin Pelkey of Woodville.

*We found it takes time for children to get up to a level of comprehension on ideas of programming and mechanics to build robots. There's also a certain level of chaos and a lot of excitement to deal with. The balance to strike is in looking at projects that will help children get the ideas behind programming without stifling creativity.*

Comeau, a math major, and Pelkey, who is majoring in computer science, are the first two UMaine students to participate in a new federal program called America Counts. Since July, higher education institutions have been eligible for Work Study waivers for students who serve as mathematics tutors to kindergarten-ninth grade schoolchildren. The goal is to give college students with an affinity for math and science an opportunity to gain work experience while taking an active role in improving student achievement in mathematics.

"I always liked LEGOs. I didn't have any growing up but my boy cousins did," says Comeau, a first-year student. "I also thought this would be an interesting job. I have always loved math and want to go into teaching. This is a good opportunity to work with children."

America Counts is a companion program to America Reads, established in 1997 by the U.S. Department of Education to encourage Work Study students to serve as reading tutors. Unlike other Work Study programs in which employers pay at least 25 percent of students' wages, the federal government pays 100



percent of students' America Reads and America Counts waivers. The waivers are credited toward institutions' requirements to earmark 5 percent of Work Study funds be used for community service.

UMaine has been involved in America Reads since its inception. This academic year, 34 Work Study students have been awarded more than \$80,000 through the America Reads program. Last year, community service accounted for 11 percent of UMaine's Work Study program, according to Mary Skaggs, director of UMaine's Student Employment Office.

UMaine students in the America Reads program include 10 Master of Arts in Teaching (MAT) students in the College of Education and Human Development, who are working with children in local elementary schools. In addition, two off-campus Work-Study employers, The Sharing Place Childcare Center at Talmar Wood and Stillwater Montessori School, have 12 and eight UMaine students, respectively, participating in America Reads.

Bonnie Blagojevic, curriculum coordinator with The Sharing Place who has facilitated numerous cooperative projects between UMaine and the childcare center, says the Robotics Club is a great opportunity for local youths.

"The benefits are large in this math and science hands-on learning," she says. "The children are having fun, developing their problem-solving skills and working together to meet challenges provided by the robotics activities. In addition to developing skills in programming and building robots, they are learning about group life and being responsible to come and do the work.

"We have worked to make it clear to the children that they are here to build computer robots with the help of computer scientists who are here to work with them," says Blagojevic. "Seymour Papert joined the group one day, which was a wonderful experience."

Papert, a mathematician and one of the early pioneers of Artificial Intelligence, is internationally recognized as the seminal thinker about ways in which computers can change learning.

From 1958-63, Papert worked with Jean Piaget at the University of Geneva. It was this collaboration that led him to consider using

# arning



Photos, left to right, an autonomous vehicle built by one of the youngsters; Greg and Michael select building materials for their vehicles; Tracy does some trouble-shooting on her vehicle as UMaine Work Study student and mentor Katherine Comeau stands by to help and advise; Gilliad Munden assists Michael with the programming for his vehicle, sitting beside the keyboard.

Photos by Monty Rand

mathematics to understand how children learn and think. At MIT, Papert and Marvin Minsky founded the Artificial Intelligence Laboratory and co-authored their seminal work, *Perceptrons* (1970).

Papert is the author of numerous articles about mathematics, artificial intelligence, education, learning and thinking. One of his latest books is *The Connected Family: Bridging the Digital Generation Gap* (1996).

For the past decade, LEGO Company has been working with Papert, now Distinguished Visiting Professor in UMaine's Department of Computer Science. The research project to study programming language, led by Munden, is funded by the Seymour Papert Institute through the Department of Computer Science's Software Engineering Research Group. The Software Engineering Research Group is directed by Associate Professor Larry Latour and Assistant Professor Tom Wheeler.

At the heart of the UMaine study are programmable LEGO bricks, called RCXs, like those now on the market in LEGO Mindstorms sets for schools. The RCX bricks containing microcomputers are used to build robots and automated devices that move and "think on their own."

"I was amazed at the capabilities of the (RCX) brick," says Pelkey, a first-year student who still has his childhood collection of LEGOs, none of which is programmable. "Once the children build their idea of a robot, they think what they want it to do and transfer that into a computer language."

With specially designed software, children create a program for their autonomous robots and vehicles. The programs are transmitted by infrared transmitters from computers to the programmable LEGO bricks in the children's inventions. The RCX bricks control motors and lights, and respond to information from touch, light, temperature and rotation sensors in the robots that can then autonomously respond to the environment.

"Our purpose is to evaluate the languages that exist for the bricks and think of new methods and techniques children ages 8 and older can use to program them," says Munden, whose master's thesis focuses on empirical studies and language analysis, including a

comparison of the different programming languages available in educational settings for ages 9-15. "We started the Robotics Club to see how children interact with and understand programming."

At first, the children in the Robotics Club assumed they knew all about building with LEGOs. "They were not open to instruction until they realized it was more complicated than they thought. Then they started listening," Pelkey says. "The biggest challenge for them is to go from one computer language to another. For me, the challenge is in trying to think like the kids."

There are currently at least 10 languages existing for the brick. LEGO software now on the market features icons and diagrams. Other languages being tested include a prototype from MIT that was closely influenced by the LOGO language created by Papert.

"We found it takes time for children to get up to a level of comprehension on ideas of programming and mechanics to build robots," says Munden. "There's also a certain level of chaos and a lot of excitement to deal with. The balance to strike is in looking at projects that will help children get the ideas behind programming without stifling creativity."

One of the biggest challenges is to bridge the difference between what children want their robots to do and the programming codes to make it happen. "It's tricky when a description or command in English means something different in computer language," says Munden.

This spring, the Robotics Club meets twice a week at the Talmar Wood Community Center. According to Munden, the project is part of a larger collaboration between Talmar Wood and the Papert Institute that will be ongoing for years to come. Future goals include an investigation of programming concepts with younger children.

"The hope is to create a set of principles for robotics language that children can follow," says Munden. "Perhaps the research findings can be used to develop a new language." ▲



# 400-Year-Old Map an Important Key to Understanding Mixtec History

With a 16th-century map as their guide, three UMaine researchers traveled to Mexico recently to discover more about the Mixtec culture.

David Shoemaker, a Ph.D. student, Stephen Whittington, director of the Hudson Museum, and Nancy Anchors, former education coordinator at the Museum, spent three weeks in Oaxaca, a rural state in southern Mexico, using the Mapa de Teozacoalo. The project was funded by the Foundation for the Advancement of Mesoamerican Studies.

"We were wildly successful," says Whittington. "We found some of what we were looking for and many amazing things that we had not expected."

"It was a different kind of project because usually an archaeologist doesn't have a map. Usually you're just going on experience and intuition. In this case, the map was a guide that told us where we should look for sites," Whittington says.

The Mapa de Teozacoalo, now in the Benson Latin American Collection at the University of Texas at Austin, was created in 1580. The hand-painted map centers on the present-day town of San Pedro Teozacoalco, the capital of a Mixtec kingdom before the Spanish conquest.

*We developed a dialogue with the local communities. People would listen to why we were there and gather around the map. They were very proud of these histories. In one case, we were the first archaeologists to visit a particular site.*

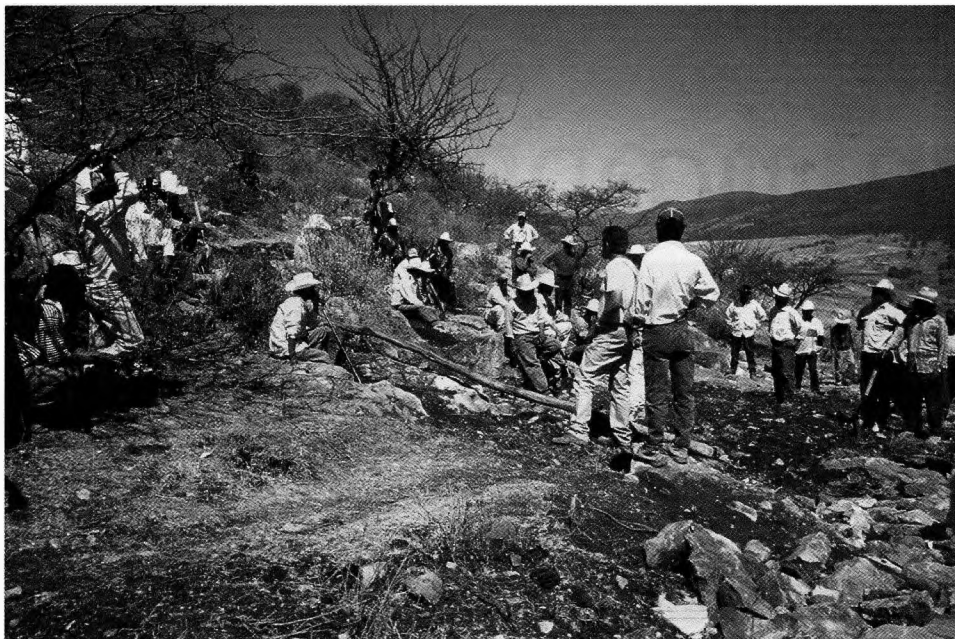
The indigenous mapmaker used colored organic and vegetable pigments to show the kingdom's borders, settlements and geographic features, and identified them with Mixtec glyphs. The map was drawn to show the king of Spain one small part of his vast holdings.

In addition to showing the extent of a kingdom, the map also contains a number of capiillas crosses, which Shoemaker says represent smaller community churches in the area.

In the past 420 years, half of the settlements in the former kingdom have been abandoned. The researchers found the ruins of one of the churches shown on the map and what they think are the last traces of another.

Shoemaker wants to understand how facets of two cultures that come into contact are combined. The goal of his research with the map is to fine-tune the definition of the process often referred to by art historians as syncretism. The development of this map provides an excellent example of syncretism in action, as it draws from both European and Mixtec influences to show the region in detail, he says.

"No archaeologists had gone to do a really thorough survey of the territory to locate all of the border and the communities that no longer exist," says Whittington. "The map looks sort of rudi-



UMaine graduate student David Shoemaker, pictured in the center of the photo, gives an impromptu lecture to the men of the town of San Miguel Piedras, Mexico, who were working on a communal road construction project. The lecture was the breakthrough UMaine researchers needed to gain the men's confidence and learn about an archaeological site on a nearby mountaintop, petroglyphs on a cliff, and a cave.

Photo by Steve Whittington

mentary on first examination, but when we got to Mexico and started visiting some of the places that the map showed, we found that the relationships between things were pretty accurately depicted."

In some cases the modern roads still follow trails where people traveled by foot and horseback shortly after the Spanish conquest of the region, says Whittington.

UMaine researchers received assistance from area townspeople in locating archeological sites. They also learned about the places of interest and the cultural history of that part of Oaxaca.

"We developed a dialogue with the local communities," says Anchors, who was on the trip to document the group's findings. "People would listen to why we were there and gather around the map."

"They were very proud of these histories," says Anchors. "In one case, we were the first archaeologists to visit a particular site."

One such site was an ancient ball court, which Whittington estimates to be around 1,000-1,500 years old. Throughout ancient Mexico such "I"-shaped courts were used to play games in which a solid rubber ball was hit from player to player to keep it off the ground.

Whittington says that an extensive study of the ball court will be done when the team returns to Mexico next March.

"My suspicion is that the site may have been founded early and then occupied on and off for a couple thousand years until the time of the conquest," says Whittington. "Our interest is in learning about the entire sequence of change in this area."

The work that the team has done will be used to help the people of San Pedro Teozacoalco start their own archaeological museum.

"In exchange for what they told us about their background and history, in exchange for taking us to these sites, we can help them learn even more about how their ancestors lived and how to present this information in a public museum," says Whittington. "There is a direct payback to the local people, even as we're working there. That's something we don't often get to do in archaeology." ▲



## University of Maine Foundation Introduces Donor-Advised Fund

The University of Maine Foundation has launched a new program to assist donors in managing their charitable gifts, not only to UMaine but to other charities.

With a Donor-Advised Fund, contributors consolidate their charitable giving through the Foundation, which invests and manages the gifts. As the years pass, donors can make grant recommendations according to their interests and the needs of organizations to which they want to make contributions.

The Foundation suggests to participants in the Donor-Advised Fund Program that a substantial portion of their gifts be designated for the University of Maine. The UMaine focus is in keeping with the Foundation's 65-year history of encouraging gifts and bequests to nurture academic achievement, foster research and elevate intellectual pursuit at the University.

UMaine President Peter Hoff endorsed the donor-advised fund concept, which is being utilized at other universities. The new program has been established in recognition of donors' growing interest in diversified philanthropy through private family foundations.

Such a program is driven by donors' demands for convenience, timeliness and the flexibility to meet their changing and ongoing charitable goals in a cost-effective manner.

"This program provides the University's friends and alumni with a service of consolidation and coordination that they otherwise would have to obtain from national gift fund organizations or elsewhere," says Amos Orcutt, president/CEO of the University of Maine Foundation. "We are sensitive to concerns that we have changed our mission and are not focusing solely on the University. But in my opinion, such a fund empowers donors to give more to the University.

"We will be building relationships with people rather than only assisting them with UMaine contributions. Through a Donor-Advised Fund, we can help carry on their philosophy and priorities beyond their lifetimes." ▲

### CONFERENCE TO FOCUS ON NEW ENGLAND, ATLANTIC CANADA

Connections and comparisons between New England and Atlantic Canada will be the focus of a conference on campus April 28-29, sponsored by the Canadian-American Center.

One of the goals of the conference is to produce a series of benchmark essays examining the history of the region.

The conference, taking place 8:30 a.m.-5 p.m., Soderberg Center, Jenness Hall, is co-organized by Stephen Hornsby, director of UMaine's Canadian-American Center, and John Reid of the Goresebrook Research Institute for Atlantic Canada Studies, Saint Mary's University, Halifax.

"The purpose of the conference is to show that there have been connections between the two regions going back to at least the 18th century, if not before," says Hornsby. "The second point of the conference is to show that there are not only connections but also that the patterns of development in New England and Atlantic Canada have been very different."

A number of UMaine scholars will be joined by presenters from the University of Ottawa, Saint Mary's University, University of Akron, Acadia University, the National Archives of Canada, the University of Cincinnati, Mount Saint Vincent University, Dalhousie University, Yale University, York University and the University of British Columbia.

## Asthma *continued from page 8*

asthma by teaching them to minimize their catastrophic interpretations of sensations in their bodies.

"People with panic attacks may misinterpret benign bodily sensations as meaning that something bad is happening to them," says Dorhofer. "Part of the challenge is to identify which comes first in people – symptoms of asthma or panic attacks. Many women with asthma are diagnosed by their early teens, with panic disorder symptoms appearing later. Because they have asthma, those women may learn to pay attention to their body symptoms, which may set up the panic cycle."

Dorhofer is now half-way through her data collection, and is looking for more participants ages 18 and older – women who have been diagnosed with asthma and panic disorder, and those only with panic disorder. (Participants are reimbursed for their time. For more information, call 581-2031.)

"The focus is on women because studies have shown that women more than men tend to be hospitalized for asthma. In addition, the prevalence of asthma is higher for middle-age women than in men," Dorhofer says. "Similarly, the rates of panic disorder are two to three times higher in women than in men."

Also as part of her research, Dorhofer is attempting to replicate a recent study at the Robert Wood Johnson Medical School that found individuals with both disorders tend to show improved lung function immediately after an experimental task than do those people with only asthma or only panic disorder. "It is currently unclear as to why having the two disorders results in better lung function," says Dorhofer. "We're also interested in addressing what this could mean for the treatment of both asthma and panic disorder."

Finally, in a third study to be conducted in a two-year period, Dorhofer will track the effectiveness of treatments on panic attack symptoms in individuals who have asthma. ▲

## Clinical Psychology *continued from page 8*

training, graduate students are actively involved in basic and applied research, and clinical practice benefitting individuals of all ages. They also serve as teaching assistants in the Department of Psychology.

"We train our doctoral students in research and psychological services that impact Maine and beyond," according to Sandy Sigmon, associate professor of psychology and director of clinical training. "The research we conduct helps the community and helps us further our knowledge about psychological disorders. Students are grounded in the literature, research, assessment and treatment – work modeled by the faculty."

Clinical training for psychology graduate students begins in the Psychological Services Center on campus, which offers services to the community based on a sliding fee scale. Students are involved in providing diagnostic and treatment services to individuals coming to the Center from a 90-mile radius. In addition, participants in research projects often receive free psychological treatment.

The students spend their fifth or sixth years of the program in predoctoral clinical internships at sites nationwide. ▲

### SPRING BULB SALE

The Landscape Horticulture Club will hold a Spring Bulb Sale 11 a.m.-3 p.m., Thursday, April 20; 9 a.m.-1 p.m., Friday, April 21, Deering Hall. For sale will be tulips ("Daydream" and "Pink Impression"), hyacinths ("Jan Bos" and "Delft-Blue") and daffodils ("Ice Follies" and "Dutch Master"). For more information, contact Mary Fernandez, x2938, or Danielle Ferris@umit.maine.edu

# V O L U M E S

## Recent Works by University of Maine Authors



***The Isherwood Century: Essays on the Life and Work of Christopher Isherwood***  
 Edited by James Berg and Chris Freeman  
 (University of Wisconsin Press 2000)

Gore Vidal called Christopher Isherwood the best English prose writer of this century. Isherwood is best known for *Goodbye to Berlin*, the inspiration for the Tony and Oscar award-winning musical *Cabaret*. But he also is the author of plays, novels and diaries.

Isherwood's novels *The World in the Evening*, *Down There on a Visit*, *The Memorial*, and *A Meeting by the River* were recently reissued by the University of Minnesota Press. Isherwood's *Diaries, 1939-1960: Volume 1*, edited by Katherine Bucknell, was recently published by Harper Collins.

*The Isherwood Century* gathers 24 essays and interviews offering a fresh, in-depth view of Isherwood, his literary legacy, and his continuing influence as both a literary and a gay pioneer.

Mixing critiques with personal reminiscences, *The Isherwood Century* includes an essay and drawings by artist Don Bachardy, Isherwood's longtime partner; recollections from celebrated authors Armistead Maupin and Edmund White; and moving memoirs by preeminent scholar Carolyn Heilbrun and noted poet Michael Harper. Also published for the first time are an interview with Isherwood conducted by Carola Kaplan in 1973 and Niladri Chatterjee's 1997 conversation with Don Bachardy.

Editors of *The Isherwood Century* are James Berg, director of the UMaine Center for Teaching Excellence and cooperating assistant professor of English, and Chris Freeman, assistant professor of English at St. John's University in Collegeville, Minn.



***Collective Violence***  
 by Steven Barkan and Lynne Snowden  
 (Allyn and Bacon 2001)

Riots, revolution, terrorism and other forms of collective violence have highlighted the past in nations around the world, and will doubtless continue well into the future. The most familiar type of collective violence is war. However, this book turns the spotlight on the little-understood types of collective violence committed by terrorists, cults, survivalists and militia groups, hate groups, police and other governmental agents, rioters and revolutionaries.

*Collective Violence* addresses the sources, dynamics and consequences of all these types. It discusses the characteristics of individuals who join violent groups while emphasizing the social conditions that underlie the violence they commit. Its basic theme is that collective violence is a largely rational effort to advance or resist social change.

*Collective Violence* is written by UMaine Professor of Sociology Steve Barkan and Lynne Snowden, who is in the Sociology, Anthropology and Criminal Justice Department at the University of North Carolina at Wilmington.

## Book Ends

### New & Noteworthy at the University Bookstore

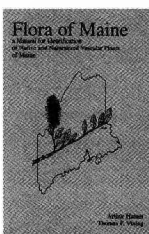
***The Sand-Reckoner*, Gillian Bradshaw, Forge (2000).** *The Sand-Reckoner* is a moving, human account of the life of Archimedes, one of the most innovative and intriguing thinkers of the ancient world. Deeply affected by the divine beauty of mathematics, Archimedes is a young and brilliant man, blessed by all the Muses, whose incredible mind could never quite understand or accept the mundane world.

***An American Mystic: A Novel of Spiritual Adventure*, Michael Gurian, Viking (2000).** *An American Mystic* reveals the quest of a charismatic young hero who, under the tutelage of an aging Sufi master, discovers the 10 elements of enlightenment. In the tradition of Hesse's *Siddhartha*, Castenada's *The Teachings of Don Juan*, and Millman's *The Way of the Peaceful Warrior*, this beautiful novel seamlessly melds spiritual awakening with intriguing adventure.

***June 8, 2004: Venus in Transit*, Eli Maor, Princeton University Press (2000).** In 2004, Venus will cross the sun's face for the first time since 1882. Some will not bother to step outside. Others, attracted by the event's beauty, will plan for years, reserving airline tickets to see the transit in its entirety. For previous sky-watchers, transits afforded the only chance to determine the all-important astronomical unit: the mean distance between the Earth and sun. Eli Maor tells the intriguing tale of the history of the five Venus transits, and the fantastic efforts made to record them. With a novelist's talent for details, Maor gathers a wealth of historical facts and guides readers to the upcoming Venus transits of 2004 and 2012 – phenomena not to be repeated until 2117. An entertaining, readable book.

#### Reminders:

- ▼ Deadline for coursebook requisitions for fall 2000 classes is April 19.
- ▼ In celebration of Poetry Month, all Poetry books 25 percent off in April.
- ▼ Indoor Patio Sale, 9 a.m.-3 p.m., April 14.
- ▼ Graduation Fair, 10 a.m.-3 p.m., April 12, on the Mall. On hand will be representatives from Herff-Jones Class Rings, Church Hill Classics Diploma Frames, E.R. Moore Cap & Gown, and UMaine Career Center, Alumni Association and Printing Services. Order graduation invitations. Register for two drawings – one for a diploma frame, another for a Margarita's gift certificate. Free soda and popcorn.



### ***The Flora of Maine***

As a UMaine graduate student, Arthur Haines has spent some of his most memorable days conducting rare plant surveys in the St. John Valley, retracing the steps of one of the preeminent botanists of our time, Merritt L. Fernald. Haines not only came upon rare species first discovered by Fernald,

but came to appreciate the obstacles 19th-century botanists experienced in trying to identify and scientifically classify Maine's diverse flora for compilation in what became a botanical bible.

In 1950, Fernald became widely known for rewriting and expanding the centennial edition of *Gray's Manual of Botany: A Handbook of the Flowering Plants and Ferns of the Central and Northeastern United States and Adjacent Canada*.

One hundred and fifty years after Asa Gray published the first *Manual of Botany*, Haines, then a UMaine master's student, and colleague Thomas Vining, a UMaine Ph.D. student in plant science at the time, co-authored *Flora of Maine: A Manual for Identification of Native and Naturalized Vascular Plants of Maine*.

*Flora of Maine* is compiled as a comprehensive reference for professional and skilled amateur botanists. To arrive at the most accurate scientific classifications for Maine flora, Haines

*continued on page 19*

**Edward "Sandy" Ives**, professor emeritus of folklore and director emeritus of the Maine Folklife Center: "The Schooner *Gracie Parker*," an excerpt from his new book, *Drive Dull Care Away: Folksongs from Prince Edward Island*, in *The Canadian Forum* (March 2000).

**Howard Patterson**, professor of chemistry, with **Mohammed**

**Omary**, former Ph.D. student and currently post-doctoral research associate at Texas A&M: an invited review article, "Electronic Spectroscopy: Luminescence Theory," *Encyclopedia of Spectroscopy and Spectrometry*.

An article on prescription drugs and the elderly by **Margaret Cruikshank**, lecturer III in women's studies, appears in *Aging*, an encyclopedia published by Salem Press, March 2000. She also contributed an article on Tillie Olsen's novella *Tell Me a Riddle*.

**Robert Miliardo**, professor of family relations, and Heather Helms-Erikson, Pennsylvania State University: "Network Overlap and Third-Party Influence in Close Relationships," in C. Hendrick and S. Hendrick (eds.), *Close Relationship: A Sourcebook*, Sage Publications, 33-45.

**C. Larochelle**, graduate student in physics; **M. Omary**, former chemistry graduate student; **H. Patterson**, professor of chemistry; with P. Fischer, F. Fauth and P. Allenspach, Laboratory for Neutron Scattering, Paul Scherrer Institute, Switzerland; B. Lucas, Department of Physics, University of Queensland, Australia; and P. Pattison, SNLB, Grenoble, France: "Optical, Synchrotron, X-Ray and Neutron Diffraction Investigations of Structural Changes in the Layered Compound  $K_2 Na [Ag(CN)_2]_3$ ," *Solid State Communications*, 114:155-60 (2000).

**Annamarie Pennucci**, faculty associate, and **Alan Langille**, professor of agronomy/cooperating professor of botany, Horticulture Program, Department of Biosystems Science and Engineering: "An Evaluation of Turfgrass Species and Varieties: Fineleaf Fescues," Maine Agricultural and Forest Experiment Station Miscellaneous Report No. 413. This information could be of interest to the homeowner contemplating seeding a lawn.

**Kathleen Hornsby**, post-doctoral research associate at the National Center for Geographic Information and Analysis, and **Max Egenhofer**, director of the National Center for Geographic Information and Analysis, College of Engineering's Libra Professor, professor in Spatial Information Science and Engineering, and cooperating professor in Computer Science: "Identity-Based Change: A Foundation for Spatio-Temporal Knowledge Representation," *International Journal of Geographical Information Science*, 14(3):207-24 (2000).

**Amy Fried**, assistant professor of political science: "Mr. Smith Tells Congress to Go to Hell: Celebrity and Performance in the Iran-Contra Affair," *It's Show Time! Media, Politics, and Popular Culture*, David Schultz, ed., New York: Peter Lang Publishing Inc. (2000).

**Andrew Carpenter**, former graduate student and now with White Mountain Resource Mgt. Inc, and Ivan Fernandez, professor of soil science and department chair: "Pulp Sludge as a Component in Manufactured Topsoil," *Journal of Environmental Quality*, 29:387-97 (March-April 2000).

**Mari Tonn** and **Valerie Endress**, former UMaine faculty members, and **John Diamond**, director of Public Affairs: "Hunting and Heritage on Trial: A Dramatic Debate over Tragedy, Tradition, and Territory," *Readings in Rhetorical Criticism* (2nd Edition), C.R. Burgchardt, ed., Strata Publishing Co.

**Daniel Sandweiss** and James Richardson III: "Las fundaciones precerámicas de la etapa Formativa en la costa peruana," *Formativo Sudamericano, Una Reevaluación*, ed. Paulina Ledergerber-Crespo, pp. 179-88. Quito: Ediciones ABYA-YALA.

**Doug Allen**, professor of philosophy: review of Thomas A. Idinopulos and Edward A. Yonan, eds., *Religion and Reductionism: Essays on Eliade, Segal, and the Challenge of the Social Sciences for the Study of Religion*, in *ARC*, 27:215-17 (1999). In addition, Allen: "Humanitarian Intervention: The U.S.-NATO Domination," *Philosophy and Social Action*, 26(1-2):93-98 (January 2000).

### Kahl in *USA Today*

Comments from Steve Kahl, director of UMaine's Water Research Institute, are included in a story on page 4A of the March 28 issue of *USA Today*. The story details a new General Accounting Office Report which says the 1990 law designed to control acid rain does not seem to be doing the job. Kahl has received follow-up calls from reporters at several daily newspapers, including those in Detroit, Cincinnati and Lexington, Ky.

### Evans Profiled in *Poets & Writers*

The current issue of *Poets & Writers*, a bi-monthly journal reaching 70,000 readers nationwide, features a profile of Steve Evans, a scholar and critic of American poetry who recently joined the UMaine English Department as an assistant professor. Referring to Evans as a "major theoretical force in the emerging avant-garde for more than a decade," columnist Mike Scharf also calls attention to Evans' newly established association with UMaine, the National Poetry Foundation, and the journal *Sagetrieb*. The issue will remain on newstands throughout the month of April, which has been designated "National Poetry Month" by the Academy of American Poets. UMaine is contributing to the local and national celebrations by hosting poets Robert Creeley, Michael Gizzi and Clark Coolidge this month.

### Sandweiss Cited in *New Scientist*

Dan Sandweiss, associate professor of anthropology and Quaternary studies, was cited in a newsbrief in the Feb. 5 issue of *New Scientist*, commenting on the recently published discovery of an archaeological artifact from a 10,000-year-old submerged shoreline in British Columbia.

### Marrs in *El Norte*

An article about Stuart Marrs of the UMaine music faculty appeared in the March 19 edition of *El Norte*, the largest circulation newspaper in northern Mexico reaching into Hispanic Texas. The article was the result of a news conference arranged to publicize a week-long course of percussion clinics and master classes given by Marrs to the collective percussion studios of the Universidad Autónoma de Nuevo León and the Escuela Superior de Música y Danza de Monterrey, Mexico, culminating in a percussion ensemble concert March 19 at the Museo Metropolitano of Monterrey.

### Grew Photo in *Geotimes*

A color photograph taken during a research expedition by Edward Grew, research professor in the Department of Geological Sciences, was prominently featured in the March issue of *Geotimes* magazine to launch its new Where on Earth? section. *Geotimes* is a national magazine published by the American Geological Institute, a federation of 34 organizations representing Earth scientists. The photo by Chris Carson of Yale University pictures Grew standing on a small island in an ice-covered bay, dwarfed against a frozen landscape. Where on Earth? features photos taken from researchers anywhere in the world; readers are invited to guess where the photo was taken, based on clues provided. The photo Grew submitted was taken in January 1999 when he was an exchange scientist on a Japanese expedition. One of the clues is that the area is in a region discovered in 1831 by John Biscoe of Britain.

### Richards in *People, Places and Plants*

The spring issue of *People, Places and Plants* magazine ([www.ppplants.com](http://www.ppplants.com)) features the garden of Charles Richards, UMaine professor emeritus of botany, who has created a three-acre landscape of perennials and evergreens at his cottage on Great Wass Island near Jonesport. Paul Tukey, a UMaine graduate, wrote the story describing Richards' efforts to build up enough soil on granite ledge and peat to sustain diverse plantings of evergreens, bog plants and other flora. The New England Wildflower Society honored his efforts in 1996 with the Kathryn S. Taylor Award for the superior private garden in the region.

### Bayer Interviewed by *Times of London*

Bob Bayer, director of The Lobster Institute at UMaine, was interviewed March 15 by a reporter from *The Times of London* for a story on lobster conservation issues.

### Camire in *Prepared Foods Magazine*

A recent talk at Texas A&M by Mary Ellen Camire of the UMaine food science and human nutrition faculty was reported in the March issue of *Prepared Foods* magazine.

The following presentations were given at the National Shellfisheries Association meeting, March 18-23, in Seattle: **Bruce Barber**, associate professor, School of Marine Sciences; **Christopher Davis**, graduate student; **Ryan Carnegie**, graduate student; and **Katherine Boettcher**, post-doctoral researcher – "Management of Juvenile Oyster Disease

(JOD) in Maine." Also, Carnegie; Barber; **Dan Distel**, assistant professor of microbiology; and Sarah Culloty, University College Cork, Ireland – "Development of a PCR Assay for Detection of *Bonamia ostreae* in Flat Oysters, *Ostrea edulis*." Carnegie's presentation received an Honorable Mention for the Thurlow Nelson Award, given annually to the association's best student paper.

**C. Larochelle**, graduate student in physics, with co-author **Howard Patterson**, professor of chemistry, gave an oral presentation, "Investigation of Energy Transfer in Layered Inorganic Solids by Time-Resolved Luminescence," at the March 2000 Meeting of the American Physical Society in Minneapolis, March 24.

During the week of March 19-25, **Dan Sandweiss** (Anthropology & Quaternary Studies) was in Fairbanks and Anchorage as a guest of the the University of Alaska's Alaska Quaternary Center (AQC). In Fairbanks, he lectured on "The Prehistory of El Niño: A Peruvian Perspective" and "Early South American Maritime Adaptations." In Anchorage, he attended the three-day annual meeting of the Alaska Anthropological Association as the keynote speaker at the Awards Banquet, where he spoke on "Túcume: Archaeology of a Late Prehistoric Pyramid Center in Peru." He also gave the Early Maritime lecture as a special noontime presentation.

**Panayotis Partsinevelos**, a graduate student with the Department of Spatial Information Science & Engineering, is the recipient of the 2000 Altenhofen Memorial Scholarship Award. This scholarship is awarded by the American Society for Photogrammetry & Remote Sensing to support his Ph.D. studies under the supervision of Assistant Professor **Peggy Agouris**.

**Stuart Marrs**, associate professor of music, gave a week-long course of percussion clinics and master classes to the collective percussion studios of the Universidad Autónoma de Nuevo León and the Escuela Superior de Música y Danza de Monterrey, Mexico, culminating in a percussion ensemble concert March 19 at the Museo Metropolitano of Monterrey. A report about the trip is on the Web: [www.ume.maine.edu/~percdept/](http://www.ume.maine.edu/~percdept/)

March 8, **Adrienne Kearney**, assistant professor of economics, and **Robert Strong**, professor of finance, participated as judges in the Fed Challenge, a national high school economics competition sponsored by regional Federal Reserve Banks. Teams from high schools in Maine and New Hampshire participated in the economics competition in Portland by providing their recommended monetary policy for the U.S. A team from Gorham, N.H., won and will go on to compete in Boston against other high schools from New England that also won in the first round. Winners at the regional level will go to Washington, D.C., to make their final presentation before a panel of the Federal Reserve's Federal Open Market Committee.

**Steve Kahl** and **John Peckenhams** of the Water Research Institute attended the annual meeting of the National Institutes for Water Resources, March 17-23, Washington, D.C. Kahl chaired a panel session on creating successful institutes, and gave an invited talk on the methods and initiatives in Maine that resulted in the U.S. Geological Survey ranking the Maine Water Research Institute in the top five of all U.S. water institutes. In its 1999 report, USGS described the Maine Institute as "a national model for Water Institutes."

**Ethel Hill**, coordinator of program support services, CED, led a roundtable session during the UCEA 8th Annual Marketing Seminar in Savannah, Ga., Feb. 17-19. She will serve on the planning committee for the 9th Annual Seminar. Hill also attended UCEA's Management Seminar in Savannah, Feb. 20-21. In addition, Hill and **Barbara Howard**, assistant director of CED, attended the Northeast Region I National Academic Advising Association Annual Conference in Portland, March 22-24.

**Bob Strong** gave a presentation, "Behavioral Finance," at a meeting of the Construction Financial Management Association in Waterville.

**Doug Allen**, professor of philosophy, gave a lecture on "Nonviolence, Truth, and Morality: Mahatma Gandhi's Religious, Philosophical, and Political Alternatives to Dominant Western Values," University of Miami, March 20.

Department of Food Science and Human Nutrition graduate students **Beth Bussell**, **Barbara Gillman** and **Michael Murphy**, and undergraduate **Kathleen Buzzard** represented the University of Maine at the 25th annual Northeast Regional College Bowl at Rutgers University, March 25. The team was accompanied by coaches, **Denise Skonberg**, assistant professor of food science and human nutrition, and **Katherine Davis-Dentici**, scientific technician. Competition subjects included food chemistry, human nutrition, biotechnology, sensory, food processing and microbiology. Also competing at this year's College Bowl were Penn State, Cornell University, Rutgers University, and the University of Massachusetts. This was the University of Maine's first participation in the annual competition.

**Steve Kahl**, director of the Water Research Institute, gave a talk, "National Research and Policy of Acid Rain: The Central Role of the University of Maine," at the spring meeting of the Maine Lakes Conservancy Institute at Camp Kieve, Nobleboro, April 1. Kahl is on the board of advisors for MLCI.

During the first week of spring break, **Dan Sandweiss** (Anthropology & Quaternary Studies) lectured on "Las Pirámides de Túcume" (The Pyramids of Túcume) at two venues in Lima, Peru. Túcume is a large, late prehispanic site in northern Peru. The first lecture was delivered at San Martín University, a private university specializing in tourism and related studies. The second lecture was for the faculties of the medical schools of San Marcos University and Cayetano Heredia University. Both lectures were given in Spanish and surveyed the findings of the Túcume Archaeological Project (1989-1994), co-directed by Sandweiss.

**D. Kimbrough Oller**, professor of communication sciences and disorders, was an invited speaker at the Seminare der Otto und Martha Fischbeck-Stiftung am Wissenschaftskolleg zu Berlin, Berlin, Germany, and the Konrad Lorenz Institute for Evolution and Cognition Research, Vienna, Austria, in February. He talks were "The Natural Logic of Emergent Communication Systems: Development and Evolution" and "Infant Vocal Development in the Perspective of the History of Science."

March 3, **Michael Greenwood**, Ruth Hutchins Professor of Tree Physiology and assistant director for forest resources research, served as an opponent during a doctoral thesis defense at the Swedish Agricultural University in Uppsala. He gave a brief presentation of his work in relation to that of the candidate, Anders Lindroth, whose thesis is "Gene Expression During Adventitious Root Development in *Pinus contorta*," and then interrogated the candidate before the thesis committee. In addition, March 6-10, Greenwood, with other faculty from Spain, France, Brazil and the U.S., took part in teaching a course on enhancing breeding processes of fruit and forest woody species, put on by the International Center for Advanced Studies in Mediterranean Agronomy, Zaragoza, Spain. Greenwood presented lectures on "Transition for Juventility to Maturity in Trees: Physiology, Biochemistry and Genetics," and "Vegetative Propagation in Forest Trees." He also took part in two roundtable discussions.

**For the latest in event information for the University of Maine, see the Master Calendar on the Web: [calendar.umaine.edu](http://calendar.umaine.edu)**

#### WATER SPORTS FOLDER NOW ON FIRST CLASS

Looking for someone to paddle on a waterway with today? Need to know the tides at the coast, or simply want to converse on boat designs?

Now located under Campus Connection in the Afterhours folder on FirstClass, the Water Sports folder provides a vehicle for people to connect and gain local information about canoeing, kayaking and other water activities.

Currently available in the Water Sports folder is information on the reversing falls at Blue Hill, Maine stream conditions and Merrimack Valley Paddlers newsletter, as well as postings from individuals hoping to connect with others for a waterway paddle.

## Hitchner *continued from page 1*

Hitchner Hall expansion project will proceed to the floor plan stage.

Construction of the facility, which has been designed to spare a more than 130-year-old American elm on Hitchner's southwest lawn, is expected to begin this fall and take 18 months.

"The building committee has gone further than proposed last fall in changing the building to protect the elm," says Mark Anderson, chair of the ad hoc building committee. "The committee brought in Dick Campana to work with the architects to ensure that construction on the west end of the 1987 addition be kept to a minimum. We wanted to ensure this project posed no threat to the elm."

Campana, professor emeritus of botany and plant pathology, and forest resources, has been instrumental through the years in saving the tree from Dutch elm disease. Initial plans for the expansion of Hitchner posed a threat to the elm. Revised plans last fall preserved the tree but included adding program space to the Hitchner wing constructed in 1987. Campana remained concerned that such construction would be too close to the elm and cause damage.

"In this latest design plan, we have gone beyond to protect the tree, but at the same time ensure that programmatic goals for the new space are met," says Anderson. "That has been the tricky balancing act."

One of the biggest challenges was in effectively linking the 1987 wing of Hitchner to the new addition, both housing faculty and research labs of the Department of Biochemistry, Microbiology and Molecular Biology. A elevated walkway between the second floors of the two additions will serve as that bridge.

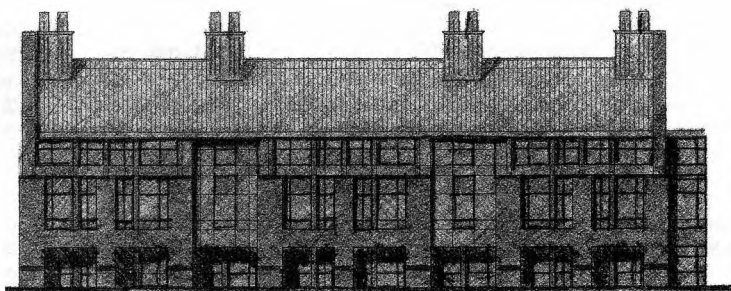
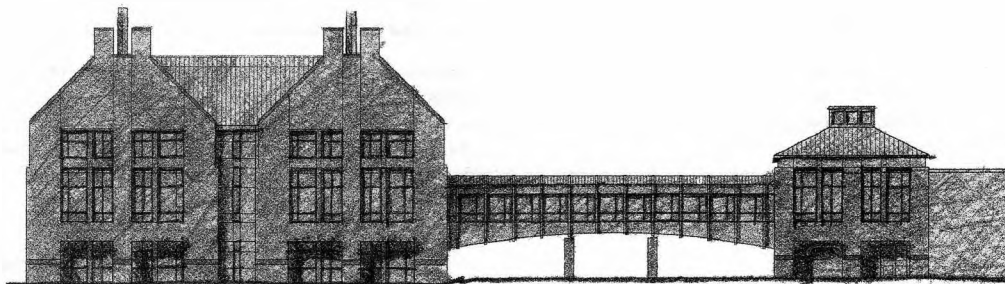
"Making that physical link was important for that science to work, and it has all been done in such a way as to mitigate risk to the elm tree," says Anderson.

Saving the elm involved taking the initial plans for the Hitchner expansion project back to the drawing boards. In October, the ad hoc building committee developed conceptual plans for combining into one facility the expansion of biotechnology and construction of a facility for the Department of Food Science and Human Nutrition.

The latest conceptual plans detail the exterior of the Hitchner addition, taking into consideration the signature features of UMaine architecture across campus and a design that will be appropriate to the south side of campus. The three-story, 46,683-square-foot addition will be built on the west side of Hitchner Hall, constructed in 1949. Among the features of the new wing will be a loggia around the ground floor.

Food Science and Human Nutrition will occupy the first floor and part of the second. A food science pilot plant for sensory work will be constructed on the back of the new addition. Biochemistry, Microbiology and Molecular Biology will occupy part of the second and all of the third floor.

The \$11.4 million project, funded by a combination of state and federal funds, includes health and safety improvements in the original Hitchner Hall. The initial cost of avoiding the elm tree is offset by the savings of putting the two projects together, Anderson says. Savings include not having to install a new elevator. Construction on the west side of the building will allow ground-level access to the building and the existing elevator. ▲



The newest conceptual drawings of the Hitchner Hall expansion project show the new construction as it will appear on the west side of Hitchner (top illustration, without showing Hitchner or its 1987 wing) and as it will appear on its north side (bottom illustration).

## UMaine Cooperative Extension

### Course for Maine Herb Growers

The University of Maine Cooperative Extension is sponsoring a five-month intensive course to assist Maine herb growers in learning how to successfully grow, process and market herbs as a business.

The class will meet from 9 a.m.-12:30 p.m., every other Thursday starting June 8 at locations across central Maine.

"Growing and marketing organic herbs and herbal products has become a viable business alternative for many Mainers," says Marjorie Hundhammer, Extension educator. "This course helps growers and entrepreneurs learn about a variety of options open to them."

The program, offered for the first time last year, had an overwhelming response. This year, it has been expanded it to include more hands-on sessions.

The first portion of the course will be devoted to the practical aspects of growing organic herbs. Participants will gain hands-on experience planting, harvesting and creating value-added products from herbs. A second portion of the course will be spent making site visits and talking with guest speakers who are in the business of growing and marketing culinary, medicinal or ornamental herbs and associated products.

Businesses to be highlighted include New Leaf Farm of Durham, Hedgehog Hill Farm of Sumner, Tom's of Maine of Kennebunk, Avena Botanicals of Rockport, and Indian Meadow Herbals of Eastbrook.

The third and final portion of the course will focus on developing a business plan, marketing strategies, and becoming a certified organic grower in Maine.

Course registration fee is \$150. For more information, or to register form, call the Hancock County Extension Office, 800-287-1479. Space is limited to the first 32 registrants.



# 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](http://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.

## FACULTY

**Extension Faculty, Knox/Lincoln County (Position #72), The University of Maine Cooperative Extension, located in Waldoboro.** Review Begins: 4/14/00. Contact: Sandra Vaillancourt, Room 103, 5741 Libby Hall, Orono, ME 04469-5741, (telephone) 1-800-287-0274 or 207-581-3191, (fax) 207-581-3325 or (e-mail) [sandyv@umext.maine.edu](mailto:sandyv@umext.maine.edu) or on the UMaine Web page at <http://www.umaine.edu/hr/jobs/umce> for complete ad and job description. The committee will review only complete packets which are the responsibility of the applicant to provide which includes letter of intent, resume, transcripts and at least three letters of recommendation tailored to fit position.

**Senior Faculty (1 position) tenure track (joint appointment in an appropriate academic department such as Chemistry or Physics) and Research Faculty (2 positions) non-tenure track, Laboratory for Surface Science & Technology.** For all three positions: Review Begins: 5/15/00. Send letter of application stating which position you are applying for, curriculum vitae, description of research accomplishments, research plan, several representative publications, and names and addresses of at least three references to: Biosensor Faculty Search Committee, Laboratory for Surface Science Technology, 5764 Sawyer Research Center, Orono, ME 04469-5764; Telephone (207) 581-2254; fax (207) 581-2255.

## PROFESSIONAL

**S.E.T. Technician, School of Engineering.** \$25,000-\$31,000. Review Began: 3/27/00. Contact: Send resume with names and addresses of three references to: John McDonough, Director, School of Engineering Technology, 5711 Boardman Hall, Orono, ME 04469-5711.

**Family Literacy Staff Development Specialist (SEARCH EXTENDED), Center for Adult Learning and Literacy.** Initial appointment for one year, funding available for two years, with renewal contingent upon funding and performance. Review Began: 4/7/00. Salary: \$30,000. Contact: Send complete application, which includes current resume, letter of application citing professional experience, sample of professional portfolio and contacts for three letters of reference, to: Evelyn Beaulieu, Director, Center for Adult Learning and Literacy, 5766 Shibles Hall, Orono, ME 04469-5766. Telephone: (207) 581-2498.

**Industrial Hygienist/Safety Specialist, Environmental Health and Safety.** Review Begins: 5/1/00. Salary Range: \$35,000-\$40,000. Contact: Send resume, two writing samples and the names, telephone numbers and addresses of three references to: Victoria Justus, Director of Environmental Health and Safety, Room 120, 5725 East Annex, Orono, ME 04469-5725.

**Infant-Toddler Child Care Teacher, The University of Maine Children's Center.** Review Begins: 4/17/00. Salary Range: \$22,500-\$23,500. Contact: Send letter of intent, resume, copies of all transcripts/certificates, and at least three letters of recommendation tailored to fit position to: Gary Quimby, UMaine Children's Center, 113 College Ave., Orono, ME 04473. The committee will review only complete packets, which are the responsibility of the applicant to provide. A full job description is available upon request. Telephone (207) 581-4075 or e-mail [gquimby@maine.edu](mailto:gquimby@maine.edu)

**Assistant Director, The Lobster Institute.** One-year renewable position, \$30,000-\$40,000. Review Begins: 4/15/00. Send resume, writing samples, and names, telephone numbers and addresses of three references to: Search Committee, Lobster Institute, Room 303, 5735 Hitchner Hall, Orono, ME 04469-5735. For complete job descriptions and qualifications go to [www.umaine.edu/hr/jobs/professional](http://www.umaine.edu/hr/jobs/professional)

**Associate Scientist, Department of Forest Management.** Two-year, full-time, soft-money appointment, with possible renewal on an annual basis depending on continued external funding. Review Begins: 5/22/00. Salary Range: \$30,000-\$33,000. Contact: Send letter of interest, photocopy of college transcripts, resume and names and phone numbers of three references to: Steven Sader, Department of Forest Management, 5755 Nutting Hall, Orono, ME 04469-5755. E-mail [sader@umenfa.maine.edu](mailto:sader@umenfa.maine.edu)

**Psychologists (1) 10 one-half month position and (2) 12-month positions, The University of Maine Counseling Center.** Salary Range for #1: \$31,000-\$34,000. Salary Range for #2: \$35,000-\$38,800. Review Begins: Immediately. Contact: Send letter of application, vita and three current letters of recommendation to: Wanda Cunningham, Administrative Assistant, 5721 Cutler Health Center, Orono, ME 04469-5721. Full job descriptions may be obtained by contacting Wanda Cunningham.

**Head Coach—Women's Basketball, Department of Athletics.** Review Begins: Immediately. Contact: Send letter of application, resume and names of three references to: Dino Mattessich, 5747 Memorial Gym, Orono, ME 04469-5747.

**Assistant Director, Office of Equal Opportunity.** Salary Range: \$32,000-\$40,000. Review Begins: 5/1/00. Contact: Send letter of application, resume, and contact information for three professional references to: Search Committee, Office of Equal Opportunity, 5754 North Stevens Hall, Orono, ME 04469-5754.

*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).*

## Directory Changes

**Howard Mosher,** Webmaster, 112A Keyo Public Affairs Building. 581-3731.

**Maine Aquaculture Innovation Center,** Michael Hastings, executive director, 436 and 438 Corbett Hall. 581-2263.

**SURPLUS SALE:** The University of Maine offers for sale, on an as-is, where-is basis (1) BOAT, 1991 Princecraft 14'6"; MOTOR, 1991 Yamaha 15hp; TRAILER, EZ-Loader, \$2,500; (1 set) THOMAS REGISTER, 1998, 34-volume set, FREE; (5) OFFICE DESKS, metal, single and double pedestal, \$20-\$35 each; (10) HEAVY DUTY FLUORESCENT LIGHTS, 277 volt, each light is two 4' sections, \$35 each, \$300 for all. Off campus inquiries are welcome. Items generally sell for the prices specified; lower offers are sometimes considered. For further information, contact Ron Logan, Purchasing Department, 581-2692 or e-mail: [Logan@Maine](mailto:Logan@Maine)

## INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE MEETINGS

The Institutional Animal Care and Use Committee (IACUC) would like to remind investigators/instructors that no research, teaching, or testing activities using live vertebrate animals shall be initiated until the IACUC has approved a protocol for such use.

Listed below are the meeting dates for the spring semester. Completed Protocol Review Forms should be submitted two weeks before the meeting date in order to be reviewed at that meeting.

Protocol review forms and copies of the University's Policies and Procedures for the Humane Care and Use of Animals are available from Gayle Anderson, Office of Research and Sponsored Programs, 424 Corbett Hall, x1498. The information is also available at the ORSP Website, [www.ume.maine.edu/~spd/index.html](http://www.ume.maine.edu/~spd/index.html)

**PLEASE NOTE:** There has been some confusion about work with fish or chicken embryos. IACUC approval is required for any work involving fish or chicken embryos if a notochord is formed. This includes their use in research, teaching or testing. The only time IACUC approval is not required for work with those embryos is when the work is conducted AND completed prior to the formation of a notochord.

IACUC Meeting Dates (submit protocols at least two weeks before meeting date): April 18, May 16.

## Flora of Maine *continued from page 14*

tapped experts participating in the Flora of North America Project, a collaboration between North American botanists to provide authoritative, up-to-date information on the names, relationships, characteristics and distributions of the approximately 2,100 species of plants that grow outside of cultivation in North America north of Mexico.

Unlike turn-of-the-century botanists who had to depend largely on plants' physical attributes for classification, today's researchers are aided in their flora identifications by the latest technology. Now, in addition to classifying based on physical appearances, scientists link plants by their molecular data, including chemistry and gene sequences.

"I wanted to increase both the awareness of certain species groups and our vocabulary usage," says Haines of his research for the book. "Traditionally, we have tended to describe plants in terms of what is around us. For example, the blueberry flower can be described as urn shaped, but an urn means different things to different people. Instead, terms with more universal definitions are needed."

Haines received his bachelor's degree in wildlife management from UMaine in 1988. At that time, his primary interest was in the peregrine reintroduction program in western Maine, near Haines' Franklin County home.

In the summers of 1991-92, Haines turned his attention from Maine's fauna to its flora. He accompanied botanist Leslie Eastman on fieldtrips to locate rare plant stations. Eastman was legendary in his ability to find plants through excellent detective work on historic references and an understanding of a rare species' macro- and micro-habitat requirements, Haines says.

When Haines began graduate work in 1992, his research was on a species of bulrush known to grow only on the shores of the Passadumkeag River. The rare Steinmetz's bulrush is named for its discoverer, UMaine professor of botany F.H. Steinmetz.

"The interesting question had to do with why this is the only place in the world it grows," says Haines. "The river is not too different from other slow-moving rivers in central Maine. Why would it be endemic to this location? I found no particular reason except that the fruits, probably brought by migrating waterfowl, happened to be there and conditions were perfect.

"In addition, sedge grasses and rushes are notoriously difficult to superficially differentiate. My thesis research found this was more of a taxonomic problem, and what we are looking at is hybridization. The hybrid is between the soft-stem bulrush abundant throughout Maine and the slender bulrush in Vermont and historically in Massachusetts. This was the weird progeny of two plants hundreds of kilometers away."

It was during his years as a graduate student at UMaine from 1992-96 that Haines and Ph.D. student Thomas Vining wrote *Flora of Maine*. It was published in 1998.

Vining received a Ph.D. last year. He is an employee of Acadia National Park and owns his own publishing company. Haines, a plant biologist and field taxonomist with the environmental consulting firm Woodlot Alternatives Inc., of Topsham, still has his master's thesis to write and defend.

Haines also is planning the second edition of *Flora of Maine*, complete with new illustrations. ▲

The University of Maine System offers a low-cost dental hygiene clinic to the public, September-May. All dental hygiene services are provided, including oral exams, dental cleanings, fluoride treatments, sealants, athletic mouth guards and X-rays. Services are provided by dental hygiene students under the supervision of faculty. For more information, call University College of Bangor Dental Health Programs, 262-7872.

## Internet *continued from page 1*

Gerry Dube of the University of Maine System Network for Education and Technology Services (UNET) and John Gregory of Information Technologies (IT) are coordinating expansion of the system, which is also known by the term Internet2.

Telecommunication firms maintain the new link between Orono and the regional Abilene distribution point in Boston, known in the trade as a gigaPoP.

Although the terms "Abilene" and "Internet2" are used interchangeably, the former refers to the network while the latter refers to an academic collaboration designed to develop new protocols and applications to maximize Abilene's benefits.

The Abilene network is managed by a national group known asUCAID, the University Consortium for Advanced Internet Development. UCAID also coordinates the Internet2 project, of which UMaine is a member.

Three firms — Bell Atlantic, New England Optical Networks (NEON) and the national carrier QWEST — are involved in the service. The gigaPoP is a Boston-area aggregation point connecting many institutions, including UMaine, UNH, Dartmouth, UVM, Boston University, Harvard, MIT, Northeastern and Tufts. In turn, the gigaPoP is connected to the national Abilene backbone.

Researchers at the Maine Medical Research Center Institute in Portland also have a link to the system. Future links are anticipated at the University of Southern Maine, Jackson Laboratory in Bar Harbor and other Maine research facilities.

"There is a misconception that many new services exist on this new network," says Dube. "That is not the case. Eventually, the high capacity of the Abilene network will facilitate new activities such as multimedia conferencing for collaborators and multicasting of major conferences, but the biggest advantage is a guarantee of high-quality service. For example, if you listen to Internet radio now, you notice that it occasionally hesitates and blanks out altogether. That won't happen over the new system.

"What distinguishes Abilene from the commodity Internet is restricted access and a commitment to high-quality service."

Abilene can be thought of as a commuter lane on a busy highway. Restricted access allows traffic to flow more quickly and smoothly while other lanes tend to get congested. The other lanes are comparable to the commodity Internet. UMaine traffic still uses the more congested lanes on the Internet to reach organizations that are not connected to Abilene.

"Information Technologies will share details with potential users of Internet2," says Gregory, director of IT. "There are many demonstrations and on-line conferences among Internet2 institutions, and IT needs to facilitate UMaine's involvement. All institutions are on the learning curve with this new network, and UMaine faculty will learn along with others."

In the short term, system users will not see any differences between Abilene and previous Internet activities. No bells will sound or flags wave as messages enter or leave the network. In a sense, the system will be known by the delays that are absent, thereby allowing time-sensitive applications to function properly.

Since 1996, UNET and IT have been upgrading campus network switches to handle larger amounts of Internet traffic. "IT and UNET are building the campus networking infrastructure to deliver high-speed access to the Internet2 system from anyplace on the campus," says Gregory. "Ultimately, we will be expanding the fiber optic backbone of the campus to accomplish this."

Internet2 requires some unique "environments" for advanced digital video collaboration, adds Gregory. "The system will be used by many departments in all of the colleges, and IT will facilitate and support such environments." ▲

**ADEC Distance Education Consortium's Agricultural Telecommunications Program** supports research underlying agricultural telecommunications, and encourages the development and use of an agricultural communications network to strengthen extension, resident education and research, and domestic and international

marketing of U.S. agricultural commodities and products. Deadline: April 24.

**U.S. Geological Survey's National Earthquake Hazards Reduction Program** will make FY01 grants for research on earthquake occurrence/effects and for development of products such as maps, models, and databases, to reduce earthquake losses. Theoretical, field, and laboratory studies are welcome. Deadline: May 10.

**National Institute of Justice** solicits research addressing violence against women, defined as intimate partner violence, sexual assault, and stalking. Proposed studies should enhance knowledge of factors associated with victim safety, offender accountability, and system accountability. Deadline: May 15.

**U.S. Department of Agriculture** invites proposals for Food Assistance and Nutrition Research. The FY00 program has several priorities in each of four program areas: Reaching Underserved Populations, Food Programs as a

Safety Net and Client Well-Being (both with a May 25 deadline), Child Nutrition, and Behavioral Nutrition (May 26 deadline).

**National Science Foundation** plans to support Research Coordination Networks in Biological Sciences to foster communication and promote collaboration among scientists with common interests across disciplinary, geographical, and organizational boundaries. Deadline: June 30.

**National Institute of Mental Health** has issued a new program announcement calling for applications that integrate basic behavioral science and public health expertise in collaborative research on mental health and disorders. Research Project Grants, Small Grants and Exploratory/Developmental Grants will be made.

**For more information, call Research & Sponsored Programs, x1476, or visit our Website: [www.ume.maine.edu/~spd/index.html](http://www.ume.maine.edu/~spd/index.html)**

#### UMAINE TODAY

UMaine Today is a daily overview of news coverage related to UMaine, along with other items of interest to the University community. Created by the Department of Public Affairs, UMaine Today is available via:

- ▼ Listserv (e-mail [joe\\_carr@umit.maine.edu](mailto:joe_carr@umit.maine.edu) to subscribe)
- ▼ UMaine Today on FirstClass
- ▼ On the Web at: [www.ume.maine.edu/~paffairs/releases/today.html](http://www.ume.maine.edu/~paffairs/releases/today.html)

#### IACUC BIENNIAL TRAINING/ORIENTATION PROGRAM

The Institutional Animal Care and Use Committee's (IACUC) spring offering of its biannual training/orientation program on the care and use of animals will be Wednesday, May 10 (Maine Day), 1-2:30 p.m., 427 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 Gayle Anderson in the Office of Research and Sponsored Programs, x1498, for registration information.

#### NOMINATIONS NEEDED FOR COMMUNITY SERVICE AWARDS

VOICE (Volunteers in Community Efforts) Appreciation Night 2000 is an annual event to honor University of Maine volunteers and student organizations for their outstanding efforts in community service.

Nominations are now being accepted for the following three community service awards:

**The 12th Annual Barbara Bodwell Award**, presented to a UMaine student organization for year-long volunteer efforts and service.

**The 9th Annual Shari Rapoza Award**, given to a student for the outstanding example he or she demonstrates in community service.

**The 4th Annual Dean Lucy Award**, offered to a faculty or staff member for his or her community service efforts.

Other awards will be presented to outstanding community volunteers. Deadline for all nominations is Friday, April 14.

VOICE Appreciation Night 2000 will be held the last week in April in Bodwell Lounge, Maine Center for the Arts. Date and time of the event will be announced. For more information, contact the VOICE, 581-1796.

#### UNIVERSITY-RELATED LEGISLATIVE UPDATES AVAILABLE ON WEB

Students, employees, alumni and others interested in the status of state legislative proposals affecting UMaine now have an on-line resource to keep them up-to-date. The Department of Public Affairs has a Website that details the legislative agenda of UMaine and the University System. The Website also provides links to a downloadable spreadsheet of other legislation related to higher education in general. Viewers also can download the text of any legislative proposal through links to the special Website. Other information, including names and addresses of all legislators, can be found at: [www.ume.edu/leglink](http://www.ume.edu/leglink)

## What's Ahead



**THE UNIVERSITY OF MAINE  
OPEN HOUSE SHOWCASE  
April 17**

**THANK GOD IT'S MONDAY  
April 19**

**STUDENT ART JURIED  
ANNUAL  
April 21-May 12**

**BLACK BEAR STUDENT  
ORGANIZATION AND  
LEADERSHIP SYMPOSIUM  
April 22**

**TAKE OUR DAUGHTERS  
TO WORK DAY  
April 27**

The University of Maine  
*Maine Perspective*  
Department of Public Affairs  
5761 Public Affairs  
Orono, Maine 04469-5761

