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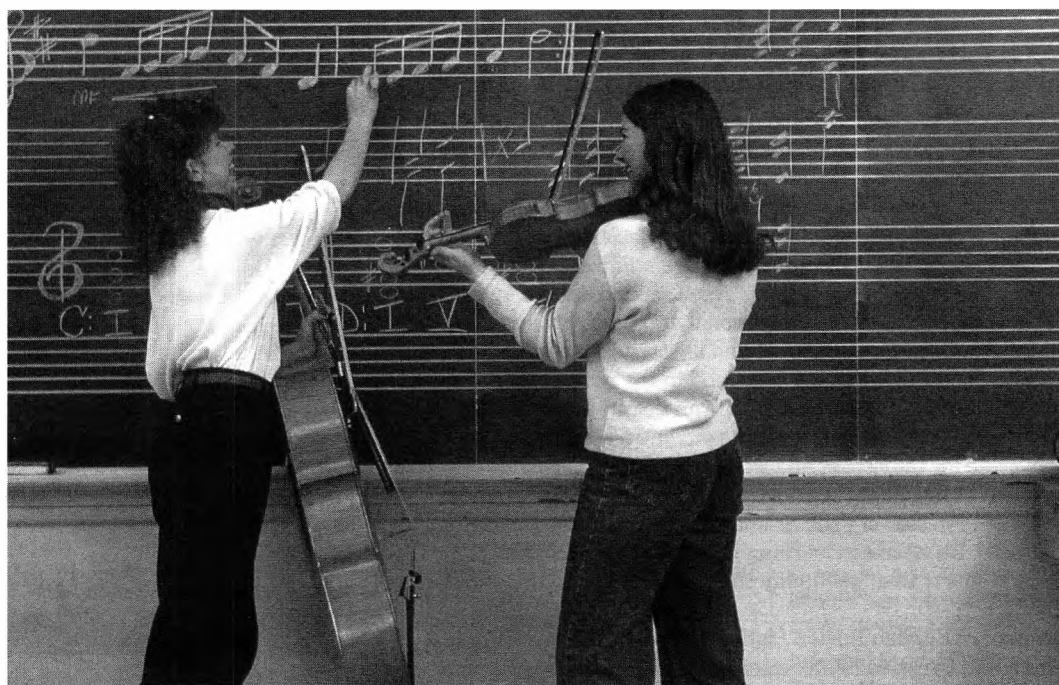
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Cellist Natalie Bolton, a graduate student in speech communication and music student who studies with Diane Roscetti, and violinist Anna Toth, a first-year student studying violin performance with Anatole Wieck, get together in the School of Performing Arts. Completion of the School's new home in the Class of '44 Hall is drawing near, with one of the first opportunities for members of the University community to tour the facility occurring Saturday, May 18 as part of the All-State Festivities on campus that weekend.

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Critical Languages Program Advocates Diversity

As the UMaine student population has become increasingly international through the years, it has not been unusual to hear such languages as Japanese, Bulgarian, Italian, Greek and Portuguese spoken on campus. But for the past three years, those languages have also been heard in the classroom in which a nontraditional pedagogy links small groups of language students with tutors in a dynamic learning environment.

The Critical Languages Program offered by the Department of Modern Languages and Classics through the Continuing Education Division offers courses of study in five languages that are considered "critical" – those less commonly taught but that are "critical to world affairs." Unlike classroom learning environments where traditional languages like French and Spanish are taught,

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Francos of North America Gather for Colloquium

Maine Franco-Americans will join scholars and community Francos from Québec, French Acadia, Ontario, and throughout the United States, as well as representatives from several universities in western France, next month for a colloquium on "Cultural Identity in French America." The colloquium will be held May 22-26 at the Atlantic Oakes Hotel and Convention Center in Bar Harbor, on the island originally named l'Isle des Mont-déserts by Samuel de Champlain in 1604. Sponsored by the University of Maine Franco-American Center in association with the Université d'Angers in France, the interdisciplinary colloquium is expected to attract upwards of 200 participants.

"The colloquium is a hybrid," according to Jim Bishop, conference coordinator and assistant director of academic programs for the Franco-American Center. "The intention is to combine all

the traditional elements of an academic colloquium – a spectrum of learned papers from a variety of academic disciplines – with

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Maine Perspective will be published monthly in the summer. Deadline for the May 27 issue: May 17.

In Perspective

- 2 Faculty Awards**
- 5 Commencement '96**
- 9 In Focus: Chick Rauch**
- 12 Outstanding Graduating Students**

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

Top Faculty Awards Presented at Convocation

The University of Maine's most prestigious honors to faculty were presented during Convocation this week.

The 1996 Distinguished Maine Professor Award was presented to Malcolm Hunter Jr., professor of wildlife resources and Libra Professor of Conservation Biology. The Distinguished Maine Professor Award is presented annually by the General Alumni Association to the faculty member who exemplifies the highest standards of excellence in teaching, research and service to the public. It further recognizes professional and scholarly accomplishments, as well as the respect and devotion a professor has to education, the pursuit of knowledge and to the nurturing of student intellect. Hunter was cited as "an inspirational teacher, a world-renowned researcher, a willing public servant and a tireless advocate for the health and well-being of our planet."

Recipient of the 1996 Presidential Public Service Achievement Award was Professor of Food Science Alfred Bushway. Bushway was cited for his efforts in working with the food processing industry - efforts that "exemplify the land-grant ideal of public service."

Professor of English Burton Hatlen received the Presidential Research and Creative Achievement Award. Hatlen is recognized for his distinguished scholarly achievement, which has focused on English literature of the 16th and 17th centuries, as well as his extraordinarily wide range of literary interests and expertise that both invigorates his students and astonishes his colleagues.

Receiving the Presidential Teaching Award was Associate Professor of Anthropology Paul "Jim" Roscoe. The Award is presented each year to the faculty member who best exemplifies an outstanding commitment to and ability in the complex activity of teaching University students, while maintaining a commitment to scholarship and public service. Roscoe exemplifies how exceptional scholarship can be combined with outstanding teaching.

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Pete Soule Adopts Lubec High Class of '96

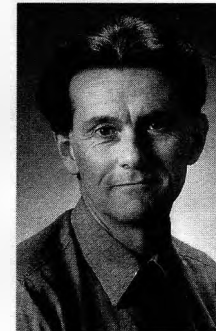
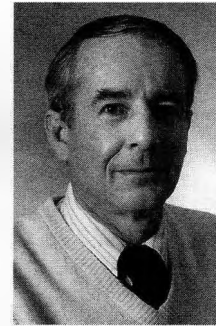
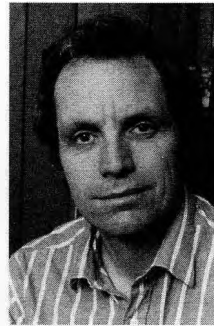
When Hayden "Pete" Soule gives the graduation address at Lubec High School June 9, he'll be closing a chapter in a book five years in the writing. In 1992, Soule adopted the school's eighth-grade class and since then has seen that its members got a look at college life from the inside out.

Chair of the Department of Bio-Resource Engineering, Soule has played the role of educational godparent. Twice a year, he has brought the entire Lubec class to the Orono campus for visits to laboratories, classrooms and even locker rooms. He has taken them behind the scenes at the Maine Center for the Arts and the Hudson Museum. He widened their professional horizons in a tour of the Career Center. Students got to spend an overnight in a campus dorm, team up with UMaine athletes and play their hearts out on the Field House basketball court.

"Now they feel like they own this place," says Soule. "They'll walk into the Union just like it's their second home."

Patty Swanson, guidance counselor at Lubec High School, credits Soule with preparing an unusually talented group of students for college. "Pete has been very warm and encouraging. He has been as generous and as attentive with the straight 'A' students as with the less academically strong ones. Because of him, these kids know that their dreams are possible."

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The University of Maine's most prestigious awards were presented to, clockwise from left, Malcolm Hunter, Alfred Bushway, Burton Hatlen and Jim Roscoe.

Acting Vice President of Business and Finance Named

Vice President Charles Rauch will retire from the University of Maine June 30 after serving as the institution's chief financial officer for the past 11 of his 15 years at UMaine.

Rauch will be on vacation from April 29-June 14, during which time Jim Breece, associate professor of economics and associate dean of the College of Social and Behavioral Sciences, will fill in as acting vice president for Business and Finance.

With Rauch's retirement at the end of June, Breece will become interim chief financial officer (CFO) and will hold that position until a permanent CFO is hired. A national search for Rauch's replacement has begun.

Breece will have a half-time appointment between now and the end of August and will shift to full time the first of September if the permanent CFO has not yet reported to the University. ▲

Editor's note: See related story on page 9.

Maine Perspective

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University of
Maine

U Maine Calendar

APRIL 29 – MAY 31

All events are free and open to the public unless otherwise 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: *Maine Perspective* Calendar, Public Affairs. Calendar of events listings MUST be typewritten and should be sent AT LEAST TWO WEEKS in advance. Deadline for each issue: 9 a.m. Friday. For more information, call x3745.

30 Tuesday

Department of Wildlife Ecology

Proposal Seminars: "Synthesizing Biotic Indices of Lake Quality Across Multiple Taxa," by Tracey Walls; and "Prey Selection by Harbor and Grey Seals on Commercial Fish Species," by Amy Williams, 9:30-11 a.m., April 30, 204 Nutting Hall. x2862.

"Modeling Excited State Chemical Reactions in Solution," by David Coker, Department of Chemistry, Boston University, a Department of Chemistry Colloquium, 11 a.m., April 30, 316 Aubert Hall. x1179.

"Performing Voices: Women's Experiences of Body Rituals and Caesarean Section Births," by Linda Buckmaster, UMA instructor in communication, and grad student Krista Hirschmann, part of the Women in the Curriculum Program Lunch Series, 12:15-1:30 p.m., April 30, Bangor Lounge, Union. x1228.

Debate/Forum, Democratic U.S. Senate Candidates, offered by University of Maine College Democrats, 7 p.m., April 30, Hutchins Concert Hall. 866-2617.

Poetry Reading, including many Maine poets featured on "The Place of Poetry" poster commissioned by the Maine Council for English Language Arts, offered by the University Bookstore, 7-9 p.m., April 30, Union. x1700.

Coffee House with Michael Gulezian, 8 p.m., April 30, Peabody Lounge, Union. x1734.

1 Wednesday

Do-It-Yourself Database Searching Workshop for humanities and social sciences faculty, staff, and students, 1-2:30 p.m., May 1. Registration required. Contact Christine, x3611, or e-mail christin@maine.

"Regression to the Mean in Half-Life Studies of Dioxin in Humans," a Mathematics Colloquium by Professor Ram Tripathi, University of Texas, 3:10 p.m., May 1, 421 Neville Hall.

2 Thursday

"E4 - The Genesis of a New Engineering Curriculum," by Robert Quinn, director of "E4," a multi-million-dollar educational experiment that won the inaugural ABET Inc., Award for Educational Innovation, part of the "Innovative Teaching Methods Series", 10-11 a.m., May 2, Bangor Lounge, Union. x2245.

Performance of Béla Bartók's Sonata for Two Pianos and Percussion, and George Crumb's Music for a Summer Evening - Makrokosmos III, by Stuart Marrs and Baycka Voronietzky, with guest artists Fernando Meza and Paul Shaw, part of the Music Series of the School of Performing Arts, 8 p.m., May 2. Admission fee. x1773.

Thursday Night at the Bear's Den with Fat Bag, offered by the Union Board, 9 p.m., May 2, Bear's Den. x1734.

3 Friday

Performance by the "A" Train, part of the Union Board TGIF music series, 12:15 p.m., May 3, Bangor Lounge, Union. x1820.

"Seeing the Invisible: A New Approach to Electron Microscopy and Interferometry," by Mark Silverman, Trinity College, a Department of Physics and Astronomy Colloquium, 3:10 p.m., May 3, 140 Bennett Hall. x1039.

Professors Night Out, offered by Alpha Phi Omega and Gamma Sigma Sigma, 5:30-10:30 p.m., May 3, Lengyel Gym. Registration. x1689.

Classes end, 5 p.m., May 3.

4 Saturday

Remembrance for Professor Peter Csavinsky, 10:30 a.m., May 4, Bennett Hall.

Baseball: UMaine vs. Hartford, noon, May 4. Admission fee. xBEAR.

5 Sunday

Baseball: UMaine vs. Hartford, noon, May 5. Admission fee. xBEAR.

6 Monday

Final exams begin, 8 a.m., May 6.

8 Wednesday

A reception honoring Paul Camp, retiring physics professor, is scheduled for 3-6 p.m., May 8, Bodwell Area, Maine Center for the Arts.

Faculty Senate Meeting, 3:15 p.m., May 8, Lown Rooms, Union. x1167.

10 Friday

Graduate School Recognition Ceremony, 4-6 p.m., May 10, Hutchins Concert Hall. Reception follows in Damn Yankee.

School of Nursing Pinning Ceremony, 7 p.m., May 10, Hutchins Concert Hall.

Final exams end, May 10.

11 Saturday

ROTC Commissioning Ceremony, featuring address by Col. John Libby, retired Maine National Guard, offered by Army and Navy ROTC, 8 a.m., May 11, 100 Corbett Business Building. x1126.

Commencement, 10:30 a.m. and 2:30 p.m., May 11, Alford Arena.

Baseball: UMaine vs. USM, 3 p.m., May 11. Admission fee. xBEAR.

13 Monday

Summer Session begins, May 13.

Landscape Horticulture Club and Black Bear Food Guild FLOWER AND VEGETABLE SEEDLING SALE

Roger Clapp Greenhouses

Thursday, May 9, 8 a.m.-1 p.m.; Friday, May 10, noon-5 p.m.;
Saturday, May 11, 10 a.m.-3 p.m.

The Horticulture Club has focused on a diversity of cool-weather annuals to get a jump on the planting season and to suit gardeners of all types. Bedding plants include pansies and violas, annual sweet william, dwarf snap dragons, sweet alyssum, dwarf bachelor's button, nicotiana, lupinus perennis, black-eyed susan, echinacea and foxglove.

The Black Bear Food Guild, UMaine's Community Supported Agriculture project, is offering a selection of vegetable and herb seedlings including onions, broccoli, cauliflower, tomatoes, eggplant, peppers, cabbage, basil and melons.

14 Tuesday

Employee Banquet, featuring recognition of Outstanding Employees and 25-year employees, 5 p.m. social hour, 6 p.m. banquet, May 14, Wells Conference Center. Tickets. x1640.

15 Wednesday

Employee Banquet, featuring recognition of retirees, 5 p.m. social hour, 6 p.m. banquet, May 15, Wells Conference Center. Tickets. x1640.

21 Tuesday

"The New Teaching Paradigm in the Freshman Engineering Sequence: Its Implementation at the University of Connecticut," by John Bennett, part of the "Innovative Teaching Methods Series," 10-11 a.m., May 21, Bangor Lounge, Union. x2245.

22 Wednesday

Faculty Senate Meeting (tentative), 3:15 p.m., May 22, Lown Rooms, Union. x1167.

Recital by Pianist Rick Winter, with works by Beethoven, Chopin, Faure, Schubert, Debussy and Poulenc, 7 p.m., May 22, Lord Recital Hall.

23 Thursday

"Eldercare and Other Health Issues – Balancing Care of Sick and Elderly While You Work," a PEAC Brown Bag Seminar, noon-1:15 p.m., May 23, Totman Lounge.

31 Friday

Children's Day at Leonard's Mills, featuring puppet shows, games, toys, songs and storytelling of the 1790s, May 31, Rt. 178, Bradley. Admission fee. x2871.

ANNUAL QUATERNARY RESEARCH SYMPOSIUM SLATED

The 4th Annual Quaternary Research Symposium will be on May 9–10, Wooley Room, Doris Twitchell Allen Village. The two-day symposium will feature scientific talks (20 minutes each) by faculty and graduate students in the Quaternary sciences. Research topics covered will include the paleoclimates and paleoenvironments of Antarctica, South America, many regions of North America, as well as archaeological research in North and South America. A highlight of the Symposium will be a keynote address May 10 by Professor Arthur Bloom of Cornell University. Bloom will be receiving an honorary doctorate from the University of Maine at Commencement on May 11.

Orono Farmers' Market's 1996 Season Opens May 18

The Orono Farmers' Market will be open Tuesdays and Saturdays, May 18–Nov. 2, beginning at 8 a.m. until growers sell out of goods. The Market is located in the Steam Plant parking lot on campus. WIC Farmers' Market Nutrition Program checks and Food Stamps accepted.

Offerings this season include fresh vegetables, fruits and cider; fresh chicken; baked goods; honey; herbs; annual flower and vegetable plants; perennials; cut flowers and more.

Growers interested in joining the Orono Farmers' Market should contact Ed Lindsey, 285-7376.

Oral Exams

"Millennial Scale Climate Variability in the Sea-Ice/Ocean System: A Low Order Dynamical Model," by Todd Dupont, candidate for master's degree in quaternary studies, 3 p.m., April 30, 326 Boardman Hall.

"Edgar Allan Poe's Hop-Frog: An Adaptation for the Stage," by Lyman Feero Jr., candidate for master's degree in theater, 3:15 p.m., April 30, 1912 Room, Union.

"Overfishing from a Multiple Scale Perspective: Implications for the Efficient Organization of Fisheries Management Institutions," by Stephanie Watson, candidate for master's degree in ecology and environmental sciences, 12:15 p.m., May 1, 202 Winslow Hall.

"My Stuff," by Christine Ankerstjerne, candidate for master's degree in English, 4 p.m., May 1, 413 Neville Hall.

"Stand Firm Ye Boys from Maine: The 20th Maine and the Gettysburg Campaign," by Thomas Desjardin, candidate for Ph.D. in history, 9 a.m., May 2, Stewart Room, Stevens Hall.

"Personality and Emotion: Responses to Musical Mood Induction," by Mark Walter, candidate for master's degree in psychology, 2 p.m., May 2, MEE Room, Little Hall.

"The Effect of Bovine Placental Lactogen on Nitrogen Utilization in Holstein Cows," by Lisa Morin, candidate for master's degree in animal science, 1:10 p.m., May 3, Rogers Hall.

"The Down-the-River Girl," by Betty Lee Parker Duff, candidate for master's degree in English, 2 p.m., May 7, 413 Neville Hall.

"Understanding and Fostering Hope in Traditional First-year College Students," by Emma Shaffer, candidate for master's degree in nursing, 11 a.m., May 23, Lown Room, Union.

"Classification of Mouse Chromosomes Using Artificial Neural Networks," by Meifang Qiao, candidate for master's degree in electrical engineering, 10 a.m., May 8, 152 Barrows Hall.

Campuswide Coffeekbreaks – Wells Conference Center
Thursday, May 16, 10:30 p.m.–midnight
Friday, May 17, 9-11 a.m.

Ongoing Events

Entertainment

"Partnership Earth," a Planetarium show, 2 p.m. Sunday, through May 5, Wingate Hall. Admission fee. x1341.

Exhibits/Demonstrations/Tours

Student Art Juried Annual, a University of Maine Museum of Art exhibit, through May 1, 1938 and Carnegie Galleries, Carnegie Hall. x3255.

Migrant Within III, a University of Maine Museum of Art exhibit, May 10–June 14, Carnegie Gallery, Carnegie Hall. x3255.

The French Collection, a University of Maine Museum of Art exhibit, May 10–July 5, 1938 Gallery, Carnegie Hall. x3255.

Women Artists: University Collections, a University of Maine Museum of Art exhibit, part of Women's History Month, through May 24, Hole in the Wall Gallery, Union. x3255.

Alumni Collection: Gifts to the University of Maine Museum of Art, a University of Maine Museum of Art exhibit, May 30–July 26, Hole in the Wall Gallery, Union. x3255.

Oaxaca . . . Días de los Muertos, Días de los Vivos, photography by Cy Lehrer, a Hudson Museum exhibit, through Nov. 3. x1901.

Maine Forest and Logging Museum – Leonard's Mills, a water-powered sawmill community site, open daily 9 a.m.–4 p.m., with guided tours available, Bradley. x2871.

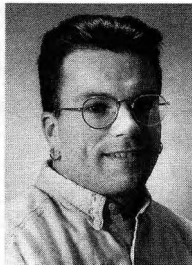
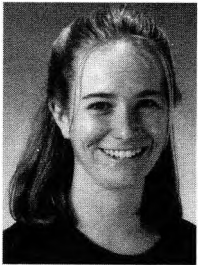
University of Maine Museum of Art open Monday–Friday, 9 a.m.–4:30 p.m. x3255.

Page Farm and Home Museum open Tuesday–Saturday, 9 a.m.–4 p.m. x4100.

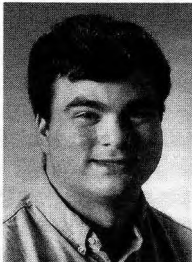
Hudson Museum open Tuesday–Friday, 9 a.m.–4 p.m.; Saturday–Sunday, 11 a.m.–4 p.m. x1901.

Lyle E. Littlefield Trial Ornamental Garden, display of more than 2,000 varieties of landscape plants, Rangeley Road.

Commencement 1996



Valedictorians of the University of Maine Class of 1996 are, top left to right, Sue Parlin and Ian Welsh. The Class Salutatorian is Craig Blodgett, pictured at right.
Photos by Kathryn Rice



The University of Maine's 188th Commencement ceremonies will be held Saturday, May 11, in Alford Sports Arena.

The ceremonies will be held in the morning and afternoon. At 10:30 a.m., students from the Graduate School; College of Business Administration; College of Education; the College of Natural Resources, Forestry and Agriculture; University College; and the Bachelor of University Studies Program will receive their degrees. At 2:30 p.m., degrees will be awarded to students in the College of Arts and Humanities; College of Engineering; College of Sciences; College of Social and Behavioral Sciences; and the School of Engineering Technology.

This Commencement, 1,137 undergraduate and 326 graduate students have applied for degrees, including 27 doctoral

candidates – 9 Ed.D. and 18 Ph.D. students. More than 1,240 students are expected to attend Commencement.

Delivering the Commencement address will be Sen. William Cohen.

Honorary degrees will be awarded to four distinguished scholars: Arthur Bloom, currently professor of geological sciences at Cornell University and pioneer of Maine Quaternary geology; Seymour Papert, a mathematician and one of the early pioneers of artificial intelligence; Warren Wagar, Distinguished Teaching Professor of History at Binghamton University, State University of New York whose extensive publishing includes works on H.G. Wells, on futurism and the role of futuristic thought in planning, developing and organizing research; and Blue Hill editor, writer and political activist Helen Bassine Yglesias, author of such literary works as *How She Died*.

The University of Maine will present a Distinguished Achievement Award to Madeleine Freeman of Orono, in recognition of her long and distinguished career in public service in the areas of local government, judicial oversight and services to the elderly in the State of Maine and nationally.

The Class of '96 has co-valedictorians. In recent years, the University has had co-valedictorians in the Classes of '78, '82 and '83. UMaine co-valedictorian Sue Parlin of Farmington also was valedictorian of Mt. Blue High School. She enrolled in UMaine in 1992 as a biology major.

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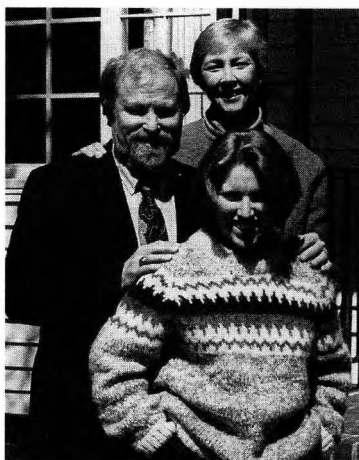
Jo-Anne Houlsen

Art Student's Sculpture Starts a Commencement Tradition

Senior art major Jo-Anne Houlsen of LaGrange won't be graduating with her second degree from the University of Maine until next year, but her artistic achievements will be recognized in next month's Commencement ceremony – and for many more to come.

A hand-carved ceremonial mace of mahogany and oak will be carried by the Distinguished Maine Professor as part of the pomp and circumstance of the UMaine graduation exercises. The mace was designed and created by Houlsen as a senior design project in her Sculpture I class, under the direction of Professor of Art Deborah deMoulied. Houlsen's work was chosen from among other

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Ben, AbbyLynn and BettyAnn Haskell

Fifth-generation UMaine Student to Get Her Degree

AbbyLynn Haskell Campbell's graduation next month is destined go down in the annals of University of Maine history. When she receives her bachelor's degree in philosophy, she will be a fifth-generation UMaine graduate.

AbbyLynn's father, grandfather, great grandfather and great-great grandfather are all alumni. The latter, Edwin Haskell, was one of six members of the University's first graduating class in 1872. AbbyLynn's mother is a UMaine graduate, and next year, her sister, Rebecca, will also join the UMaine alumni ranks when the Marching Band drum major receives her bachelor's degree in theater.

As a young college woman who heralds from a Brewer family in which higher education has been a "given" for generation after generation of men and women, the historical significance of AbbyLynn's graduation almost eluded her. It was a female cousin who pointed out not only how extraordinary it was to be a fifth-generation graduate from UMaine, but to be the first of the Haskell women to graduate.

"I remember being shown a picture of Edwin Haskell, my great-great grandfather and other family photos," says AbbyLynn. "It has been special, putting the old and new together."

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Stories of Personal Triumphs, Academic Success

Editor's Note: Behind every academic degree, there is a very human story of personal triumph and academic achievement. These are just six of the hundreds of human interest stories that can be found among UMaine students in Commencement 1996.



Christine and Stanley Freeman

Like many proud parents of University of Maine's new graduates, Stephen Freeman of York will be on campus to see his daughter, Christine, receive a bachelor's degree in public administration. But when he attends the ceremony, Stephen will be dressed in a black cap and gown, and will receive a bachelor's degree in political science from the University of Southern Maine.

"No matter what he did not want to miss my graduation, and I didn't want him to miss his," says Christine. "He talked to Student Records officials at UMaine and USM to see if there was any way he could graduate here with me. We will walk in, sit together and get our diplomas one behind the other. We're excited."

Christine enrolled at UMaine in 1991 and had three different majors before deciding on public administration. A turning point in her academic career came in her junior year when she joined Pi Beta Phi sorority. The same year, she interned in a human resources unit of a Massachusetts hospital. That's when she knew that her interests in healthcare, the elderly and administration could all be found in the public administration field.

"I had grown up in the healthcare field with a lot of family members working in hospitals," she says. "I was close to my grandparents and saw them both go through nursing homes. I wanted to be able to help in terms of nursing home and healthcare."

Christine has accepted a job in Lynn, Mass., that will lead to a position in healthcare administration for nursing homes. But while she fondly looks back on these last two years at UMaine, she also remembers her rocky first semesters away from home and her high school friends. It was her dad, she says, who made the difference.

"I talked about leaving in the first and second year, and my father convinced me to stay. It was all a big adjustment for me," says Christine. "Then it was my dad's turn. He always wanted to take classes but did not have the opportunity when he was my age. It was a lot for him to go back when he was in his 40s, taking classes with young students. He had a hard time with it and I convinced him of the importance of nontraditional students in my classes – people who brought reality into the classroom."

"When he became a student, he better understood where I was coming from when I came home stressed out about classes and jobs. He was even more understanding about my grades, even though he's a straight-A student."

Stephen, a real estate agent and long-time high school basketball coach, will go on to pursue a degree in education, and plans to become an elementary school teacher.

Of their pending walk down the Commencement aisle, Christine says it will be the opportunity of a lifetime. "I know I'll look back and think how great it was that at 23 and 45, we graduated at the same time. We've both been through a lot, and this shows how hard we worked." ▲

Jeff Tweedie and Dana Humphrey

Associate Professor of Civil Engineering and nationally recognized researcher Dana Humphrey has long-since proven that he is no ordinary educator.

In the past year and a half, UMaine civil engineering graduate student Jeff Tweedie has proven he's not just another student.

Together, they have been an unbeatable team. And next month, as a result of their hard work, Tweedie will receive his master's degree – an academic milestone that had to be put on hold in 1994 when an injury during a rugby game left him paralyzed from the shoulders down and unable to breathe without the aid of a ventilator. At the time, Tweedie was one semester away from finishing his graduate work that included a thesis: "Tire Chips as Lightweight Backfill for Retaining Walls."

Last April, the University arranged for Tweedie to borrow a computer equipped with voice recognition software. Then Tweedie and Humphrey began weekly meetings in which they would discuss in detail the steps needed to complete the thesis. During the week, Tweedie sends his work to Orono via e-mail and Humphrey transmits comments back.

"When I was in the hospital, I told Dana I was going to finish my thesis," says Tweedie. "When the computer got here, I didn't feel like doing a damn thing, but I had an obligation to him and to the University to finish the thesis. Once I got going, I realized how much I still loved it and how important it is to me."

"Working on my research not only helped me forward my engineering knowledge and capabilities, but has given me self-esteem that I can again be an engineer even though I can no longer walk or breathe on my own."

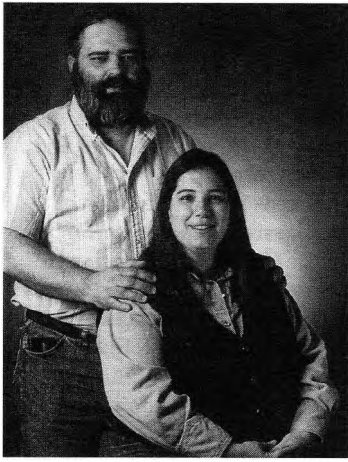
Tweedie received his bachelor's degree in civil engineering from UMaine in 1992. He says the key to his academic achievement is in staying focused and having a work ethic.

"I never thought I could do the things I do until I started working with Dana. His encouragement, his own work ethic, have pushed me to work even harder."

"I have the same hopes and dreams as everybody else," Tweedie

says. "I want a rewarding career, I want to be married, have a family, live to a ripe old age and retire. Engineers have to live to a ripe old age to look back and see all the things they have designed." ▲





*Bob Kilmer and
Barbara Millios*

At Commencement, husband and wife Bob Kilmer and Barbara Millios of Bradley will receive bachelor's degrees in engineering physics and anthropology, respectively. Their academic careers at UMaine have constituted a symbiotic adventure, as well as very personal, independent journeys for each of them.

Kilmer graduated high school in 1972. College was

not possible. He spent 14 years as a professional auto mechanic living in Washington, D.C. One day in 1986, he happened upon a community college career center ultimately to learn that it was possible to reorganize one's life and go from the sole breadwinner responsible for a big mortgage to an alternative lifestyle in which the costs of living were minimal and being a full-time college student a possibility.

In 1988, Kilmer and his family moved to Maine to attend the University. His goal became a financial reality in 1990, and he began his six-year plan to attain a bachelor's degree by enrolling at University College.

"It has been a long journey," says Kilmer, talking about his academic achievements despite a learning disability. "The biggest challenge has been mathematics and technical details, but I've never seriously questioned whether this was worth doing. I didn't want to grow old fixing cars."

Millios supported the family. Trained as an interpreter at the University of Maryland - Baltimore County and Gallaudet University, Millios found her skills in high demand in Maine's Deaf community. But when Kilmer was two years away from his degree, Millios decided going back to school was "now or never." She enrolled at UMaine in 1994 to earn a degree in anthropology with a concentration in linguistics.

For the past two years, the Kilmer-Millios family has operated on tight schedules predisposed to the needs of two children, now 9 and 13, and the two heads of the household who are full-time students. "During the semester, Barbara and I often communicate on a need-to-know basis," Kilmer says. "We flip-flop our schedules to be sure there's time for kids, meals, shopping, and study nights out when we each need time to do our own thing."

The children, one of whom is being home schooled this year, have been top priority to ensure the hectic college life of both parents does not become too stressful. But according to Millios, both she and Kilmer are aware of the example they are setting. "Statistically, parents who graduate from college have kids who likely will," she says. "They're also seeing how hard it is to do it so late in life."

After graduation next month, Millios will begin graduate work in communication. "It will be a major career change," she says. "I love interpreting but I want to make a difference, putting knowledge on the shelf that the Deaf community lacks and needs."

Kilmer will take over running the household and supporting Millios in her graduate work. When the time is right, he will find a job in his field. And he will never forget the six-year journey that changed his life forever.

"I always admired such scientists and astronomers as Galileo, Newton and Einstein. Now I know where they're coming from. And in a sense I'm one of the crew," he says. ▲

Donald Russell

Donald Russell of Lincoln will walk up to receive his diploma next month accompanied by the friend he describes as a mentor, a good listener and sidekick.

Indeed, it is Duffy the black lab who was instrumental in helping Russell realize academic success. And when it comes to Russell's career aspirations, Duffy has a starring role.

"I want to go into child protective services and use him as a counseling tool," says Russell, who is getting his bachelor's degree in social work. "Kids like to talk to animals more than people sometimes."

While Duffy has provided an alternative to the vision his master has gradually lost to retinitis pigmentosis, it has been Russell who is responsible for turning his own life around. Russell enlisted in the service the year he graduated from high school in 1977. Within a year, the genetic disease caused his military discharge.

Russell, who has more side than straight-on vision, decided to enroll at the University after coming to the realization that he was not helping his family by sitting around the house. After attaining an associate degree in human services from University College, he enrolled in UMaine's social work program in 1994.

"The toughest part about coming to college was getting back into the swing of studying," he says. "I also found little technology for blind students. I'm here almost every day. If the technology was on campus, I could do my homework here and spend most of my time with the family at home."

As a result of his experience, Russell and another student have been involved in advocacy on campus in an effort to get more equipment for use by members of the University community with visual impairments.

"A lot of people want to go to school but can't because there's not enough special equipment out there for them," says Russell. "This is important to me also because of my son, Michael, and nephew who have the same disease."

In the same can-do spirit, Russell's graduation will send an important message that pursuing one's dreams is possible, especially with the support of family, friends, faculty and staff. It is an event that will be as exciting as it is a "big relief," he says.

"It will show people that it can be done. A lot of people looked at me and said I couldn't go through school because of my disability. This is such a big accomplishment. It's fulfilling." ▲

continued next page





Alexandra Storm-Wycoff

Next month, Alexandra Storm-Wycoff will receive three bachelor's degrees in English, history and philosophy, and become the first in her family to attain a college education.

Completing three concurrent degrees is no small feat, but Storm-Wycoff's achievement is even more remarkable considering 10 years ago, the Bangor native was fresh out of the Army, "bouncing

from one menial job to another," and looking for direction in her life. That's when she enrolled at University College to begin work on an associate degree in liberal studies.

"I hadn't done well in high school, and barely passed. I didn't know where I was headed career-wise. I sort of fell into college, and had to begin with remedial math and English," she says.

With her associate degree in hand in 1989, she began pursuing a bachelor's degree in English. In her reading for her upper-level English courses, she found herself wanting to know more about the historical contexts and the different ways of analyzing texts. She began taking history courses. Philosophy courses quickly followed.

"You have to know how to pace yourself, and work steadily and persistently, while not taking on too much at once," says Storm-Wycoff of her academic accomplishments. "You have to be consistent and do your homework every night. If you do that, it's really not that difficult."

Her academic honors include induction into Phi Kappa Phi. She is the recipient of the Nancy R. Johnson Memorial Prize in Ancient History and The Levinson Award for excellence in undergraduate philosophical writing. Storm-Wycoff is a published poet and author of essays and short stories. In 1994 she co-founded and edited *Ars Veritatis*, an interdisciplinary journal of the UMaine Philosophy Club.

Following graduation, Storm-Wycoff says she will transfer the energies she put into her coursework into her soon-to-be-completed novel. She is moving to California to live as a full-time writer. ▲

Ethel Hill

Ethel Hill will receive a Bachelor's of University Studies degree culminating a 13-year effort that represents a journey in personal and professional growth, an awakening of potential and contribution, and a passage into lifelong learning.

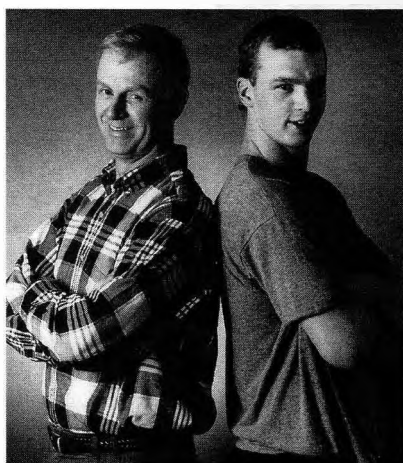
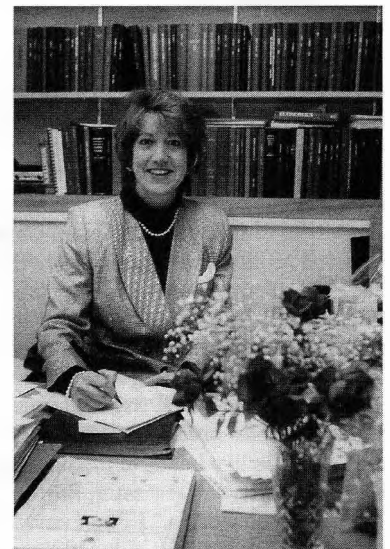
A 25-year employee of UMaine, Hill sees the combination of what she learns on the job and in the classroom as a powerful combination. She started working at the College of Education in 1970 as a clerk-stenographer and the staff support person for 13 faculty members. Today, she is administrative associate to Dean Robert Cobb and supervises the College's support staff. She credits Dean Cobb for believing in her before she believed in herself, for providing the push to take the risk of signing up for that first course and for continuing encouragement.

Her son Scott graduated from UMaine last December with a bachelor's degree in health, physical education and recreation, making Hill the second in her family to earn a four-year degree.

More than 13 years ago, when Ethel was agonizing over the prospect of taking courses, she remarked to her husband, Ronald, that she would be 100 years old before she got a degree. His quick response was that if she were lucky enough to live to be 100, she might as well have that degree. Neither his support nor humor have wavered through the years.

For Hill, learning – with all its challenges – has become part of her life, spirit and schedule. She is already planning to pursue a master's degree. The best experience in her journey continues to be the people she meets along the way and their sharing of inspiration, support and joy in the success of others.

Hill's hope is that more UMaine employees will take the risk and take advantage of an extraordinary benefit – the opportunity to pursue higher education while growing professionally in their jobs. She's ready to provide the needed push. ▲



William and Jeff Libby

UMaine Alumnus to Address Commissioning Ceremony

Shortly after 0800 hours May 11, Col. (Brig. Gen. Designate) William Libby of the Maine National Guard will address the Commissioning Ceremony of Army and Navy ROTC. He will talk about the challenges they face as young leaders, and the changing role of the military on the eve of the millennium.

And he will share with them what it was like to be a cadet colonel at a University of Maine ROTC Commissioning Ceremony 30 years ago.

"When I was a student here, the football team was in the Tangerine Bowl and baseball was in the College World Series," says Libby, who received his bachelor's in mathematics in 1966 and a master's in education a year later. "President John Kennedy was here one Homecoming (but I was in the locker room with the football team), and Simon and Garfunkel played in concert. And Vincent Hartgen told us in an art class that we would all be lured out of state by great opportunities and big dollars, only to spend our time trying to get enough money to come home.

"We graduated knowing we were going to Vietnam," Libby says. "In the '60s the military was in a traditional role – go out and fight. Now it's in a nontraditional, humanitarian

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Pulling Up Anchor

For the past decade, a retired rear admiral has been at the financial helm of Maine's flagship campus. Through the years, he's been the controller of the purse strings, the financial-forecaster-turned-bearer-of-bad-news and the magic man hoping for monetary miracles. Now he says it's time to retire, and he'll begin by responding not to the call of the sea but the open road.



Chick Rauch

Photo by Kathryn Rice

For the past decade, a retired rear admiral has been at the financial helm of Maine's flagship campus.

Charles "Chick" Rauch will take leave of his post this June, retiring from a distinguished career of leadership and service for the second time in his life. After 15 years as a member of the University community, Rauch will retire in much the same fashion as he retired from the U.S. Navy in 1976 after 30 years of military service – on his own terms, at the pinnacle of a distinctive career and with the admiration of many for his distinguished service. The attributes that catapulted him through the Navy ranks to be named one of the youngest rear admirals at the age of 46 are the same that have inspired higher education colleagues who have known him through the years – loyalty to the institution, an unshakable belief in people and a staunch sense of self.

An assistant professor of management and the University's chief financial officer, Rauch has served under four UMaine presidents and is the member of the upper administration to be the longest on lookout for the future of the University of Maine. He has chaired five Program and Budget Review Task Forces, and even served a month as acting president of the American University in Bulgaria, and three weeks as UMaine acting athletics director. Rauch's role has shifted through the years from controller of the purse strings and financial-forecaster-turned-bearer-of-bad-news, to the magic man hoping for monetary miracles. The last six years of struggling with budget cuts have taken their toll on the now 70-year-old Rauch. And while he admits he has no other port of call, he nevertheless says it's time to pull up anchor.

"It's not very flattering to have spent over 10 years as chief financial officer and be leaving when the institution is in its worst financial status. Yet when is it time to leave?" says Rauch, vice president for Business and Finance. "You don't ever know. You could say the perfect time is when the institution has pulled out of its financial quagmire, but that may be several more years. To be honest, I didn't want to wait around and hear the rumors that that guy ought to go. It is time for the institution to get someone in this job who is either more creative or has different kinds of creativity than a person who has been in it for 10 years. No event is motivating me. It's just that I think the institution needs some new blood in this job and I probably need to do some different things."

Rauch will phase into retirement by taking a seven-week road trip across the country with his wife, Esther. He will return to campus to formally say good-bye in June, then begin a new chapter in his life that will be closer to retirement than he has ever come. "It is retirement in the sense that I have no formal job lined up," he says. "I haven't worried about the next phase. I have lots of wood carving and woodworking projects I've not been able to get to until now. They're the kind of projects I enjoy because they require so many different skills."

Throughout his careers, working with people and optimizing talents have been the hallmark of Rauch's endeavors. From the time he was a youth growing up in Logan, Ohio, Rauch says a sense of dedication to a cause and the discipline needed to get where he wanted to go have been foremost.

"One of the big things that was important in my young life was scouting, with its structure and camaraderie – the sorts of things one might find in the military," he says. "And I can remember as a youth that I always loved the water. Getting into one of the military services seemed appropriate, and the Navy appealed most. I didn't know I would stay 30 years."

Rauch quips that he stayed in the Navy because he was having a good time. But whether he was aware of it at the time or not, he was developing a fine-tuned sense of confidence in himself. "It came about from ship handling," he says. "I thought I could handle a ship as well as anyone. I thought I was a good manager, and I learned how to be a good staff officer. I also learned how to write. For the first 10 years of my naval career, I was a terrible writer. I soon learned that if I was not

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The CUTTING EDGE

University of Maine Research on the Frontiers of Science



Tolerance Trials

A University of Maine master's student is subjecting ornamental plant materials to the deep freeze to test their ability to withstand the coldest possible Maine weather. His work may produce new landscaping opportunities for New England gardeners.

John Wachter of Waukegan, Ill., is studying the impacts of temperatures as low as 30–40 degrees below zero Fahrenheit on mountain

laurel, a rhododendron-like shrub. "There's a need for more variety in landscaping plants," says Wachter, who works with Paul Capiello, professor of horticulture. "There are more than 70 varieties of mountain laurel, but most are southern. We're focusing our work on the hardiest varieties and hoping to get five to 10 that are suitable for this climate."

In attempting to identify superior forms, the researchers hope to provide nursery owners with an economically viable plant, says Capiello. "The plant is not used much," he says, "but if we can come out with a report that out of all the available varieties, several are particularly well adapted to Maine conditions, the findings will boost sales in the area."

"Growers are all looking for this kind of information. It means they no longer have to be tentative about carrying mountain laurel in their stock, and it will open up some opportunities," says Capiello, who conducts extensive research for nursery operators and blueberry growers in an effort to study plant hardiness, to better understand how plants change over the seasons, and to determine the impact cultivation practices on plant tolerance.

Mountain laurel is a broad-leaf evergreen (species name *Kalmia latifolia*) which typically ranges as far north as Connecticut, but also extends into southern Maine in sheltered locations. Mountain laurel is "borderline rampant" along some parts of the Appalachian Trail, Wachter notes. Varieties differ in leaf shape, flower color and size and cold tolerance.

To determine cold tolerance limits and provide research-based advice to customers, two Connecticut nurseries have supplied Wachter with cuttings of 30 varieties of mountain laurel. Some samples were planted in the Littlefield Ornamental Garden on campus. However, temperatures did not go low enough this winter to test the plants adequately.

For the supreme cold test, Wachter puts cuttings in plastic bags and places the bags in a freezer. Then he gradually lowers the temperature. Every three degrees, he checks for tissue damage. Each variety is then ranked according to the temperature at which damage begins to occur. The test begins at slightly above freezing and proceeds to a temperature somewhat below a point at which damage is expected to occur.

In addition to mountain laurel, Wachter is also working with Viburnum, a shrub with many varieties already popular in Maine, and magnolia, a group of plants famous in southern landscapes. In earlier work in the Littlefield Ornamental Garden, Capiello has shown that many varieties of magnolia can survive and flower in Orono.

In January, Wachter gave a presentation on his work at a regional meeting of the American Society for Horticultural Sciences in Durham, N.H., and was awarded first place in the graduate student presentation contest.

Panic Disorder Study

For no apparent reason during the middle of a routine day, your heart begins to pound, and a sense of danger overwhelms you. You may have difficulty breathing and feel lightheaded. You may even experience chest pains.

These and other symptoms can be caused by panic disorder, a psychological condition thought to affect about three million Americans at some time in their lives. Jeffrey Hecker, University of Maine associate professor of psychology, and Melinda Losee, doctoral student, are offering Bangor-area residents with this condition the chance to receive treatment as part of a study over the next few months.

Hecker and Losee are seeking 45 people to participate in several groups that will receive cognitive-behavioral treatment for panic disorder, a drug-free approach to treatment. The effectiveness of three methods of delivering cognitive-behavioral therapy will be compared in an effort to identify characteristics of those individuals for whom the treatment is most helpful.

"Past research has shown that the cognitive-behavioral approach can be as effective as drugs," says Hecker. "The down side is that patients need to work harder. This approach can also take longer to take effect. For people enrolled in the study, most of the work is done at home, and it will take about an hour of time per day," Hecker adds. "But that hour depends upon personal schedules."

The up side of cognitive-behavior therapy is that individuals can learn to manage anxiety and panic without medication and relapse rates are very low, Hecker points out.

The frequency of contact with therapists will vary for each treatment group. All groups will use a workbook which guides them through a self-help program. One group will have telephone contact with the researchers. In the other two, participants will attend four group meetings.

Hecker and Geoffrey Thorpe, UMaine professor of psychology, are the authors of "Agoraphobia and Panic: A Guide to Psychological Treatment," published in 1992.

Individuals interested in enrolling in the study can call the UMaine Psychological Services Center in Corbett Hall, 581-2034. All those who contact the center will receive recommendations for steps to address their concerns, regardless of whether or not they are chosen for the study.

HOME PAGE AND HEALTHCARE

There are many changes taking place in the health care industry. Cutler Health Center endeavors to keep pace with these changes while providing UMaine students with the highest quality medical care. One of the ways we have met these challenges is by educating the staff in the use of the resources available on the Web. To assist us in providing the kind of quality care the students have come to expect, we have also developed and maintain a Web site. The Web is one way in which to reach a broad population with information and education about health care and services. On the Web site we try to keep people current with our schedule, the services offered at the health center, and answer any medical questions posted on the "Ask Cutler" page. The "Ask Cutler" page is an innovative approach to answering non-urgent health care questions that may be of general interest. Questions may be posted to the Web page and then will be answered by a health care professional within the health center who will post a response (within 10 days) on the general board. The questions are asked anonymously to allow for privacy. Cutler Health Center's Web page has been established with the assistance of Jason Baack. The Web address for the Health Center is <http://www.umecut.maine.edu>.

Water Research Institute Lab Upgrade Equates to Economic and Scientific Boost

A cooperative venture between the Maine Department of Environmental Protection (DEP) and the UMaine Water Research Institute (WRI) is providing an economic and scientific boost for the University of Maine and the state.

With approval from the Governor and the Board of Trustees, the DEP has redirected about \$750,000 in state funds for the Dioxin Monitoring Program and the Surface Water Toxics Program to the Institute. The funds have allowed the WRI to buy a state-of-the-art high resolution gas chromatograph mass spectrometer and to build a clean room for sample preparation.

"It's a win-win-win situation for the state and the university," says Steve Kahl, WRI director. "It benefits the state by keeping tax dollars and jobs in Maine. It helps UMaine faculty compete for grants, and it gives students experience they will need to compete in the job market. The high paying jobs in environmental consulting and engineering are in superfund or landfill types of remediations. Our graduates with this experience will have an advantage."

The equipment will enable the WRI to analyze samples for Maine's dioxin and toxics monitoring programs. Located in the Sawyer Environmental Research Building, the Institute also holds a contract with the U.S. Environmental Protection Agency to analyze samples for a national environmental monitoring program. Maine's federal water institute research program is administered by the WRI.

Faculty from UMaine departments as diverse as civil engineering, wood science, geological sciences and chemistry have indicated an interest in using the facility in their research. Construction is expected to be completed in May. ▲

World Wide Web Watching

NOTE: ADDRESS CHANGE – Office Of International Programs:

<http://130.111.61.23/>

Writing Center: <http://www.ume.maine.edu/~wcenter>

Tutor schedules, online resources for writers, and general information about the Writing Center, a student organization are available to supplement the Writing Center's regular services.

Department of Zoology: <http://www.umesci.maine.edu/>

Course information is available, along with faculty research biographies.

Stable Isotope Laboratory:

<http://iceage.umeqs.maine.edu/geology/sil/home.htm>

Equipment information, faculty and research applications are among the various sites to explore from this homepage. Methodologies for oxygen isotope analysis of water, the delta notation and other principles are located here.

Summer Session: <http://www.ume.maine.edu/~rbroad/summer.html>

Find the summer schedule of classes here! General information about summer session is also available here.

Admissions Office: <http://www.ume.maine.edu/~umadmit/>

The Admissions Office has information about campus tours, test requirements and academic programs.

Center for Community Inclusion:

<http://www.umeais.maine.edu:80/~cci/ccid.html>

A unique partnership of people and resources of the community, the Center is designed to improve the quality of life for people with disabilities and those they consider their families. The 1995-96 Outreach Education calendar is available through this site.

W e R e m e m b e r

Peter Csavinszky

Professor Peter Csavinszky died in his home in Old Town, Sunday, December 31, 1995. Csavinszky was born in Budapest, Hungary, in 1931. He received an undergraduate degree in chemical engineering from the Technical University of Budapest in 1954 and began his graduate studies in physics at The Institute of Physics at the same university. After leaving Hungary in 1956, he continued his graduate studies at the University of Ottawa, Canada, receiving the Ph.D. in Physics in 1959. He held a two-year postdoctoral fellowship at the National Research Council of Canada. Csavinszky then came to the United States where he was a physicist at Hughes Aircraft, General Dynamics, Texas Instruments, and TRW Systems.

In 1970, Csavinszky joined the Department of Physics and Astronomy at the University of Maine as an associate professor and was promoted to full professor in 1975. He taught a variety of graduate and undergraduate courses ranging from graduate level mathematical physics, electromagnetic theory, and solid state physics through undergraduate level introductory physics courses. Csavinszky was internationally known for his research work in both atomic physics and solid state physics and has authored over one hundred scientific articles. He has also presented many papers at meetings and symposia held at the regional, national, and international levels. His research productivity was recognized by the University when, in 1978, he received the Presidential Research and Creative Achievement Award. Nationally, he was honored by being elected a Fellow of the American Physical Society; in addition, he served as vice chairman and chairman of its New England Section. Professor Csavinszky was also a member of the American Association for the Advancement of Science, the Society of Sigma Xi and the Physical Society of Japan. In addition to his interests in physics, he was an avid reader of military history, a glider pilot, and enjoyed travel.

Donations in the memory of Peter Csavinszky may be made to the Department of Physics and Astronomy Gift Fund, University of Maine, Orono, ME 04469-5709.

A Remembrance for Professor Peter Csavinszky is scheduled 10:30 a.m., May 4, Bennett Hall.

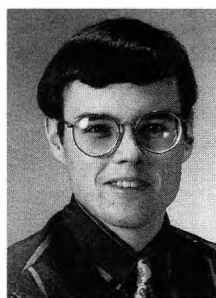
Frederic Martin

Professor Emeritus of Chemistry Frederic Martin died March 2. He received his Ph.D. from Johns Hopkins in 1929 and was a post-doctoral research student at the Kaier Wilhelm Institute, Berlin, in 1930-31. After employment with General Electric Co., he joined the UMaine faculty in 1934, teaching courses in general, analytical and physical chemistry, chemical literature and the history of chemistry. He retired in 1969.

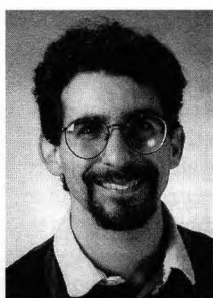
An excellent machinist and glass blower, Martin invented and fabricated many novel pieces of chemical apparatus for carrying out new experiments. His many research projects included collaboration with Professor Irwin Douglas in the identification of compounds resulting from the reaction of organic sulfur compounds with chlorine. When Professor George Woodwell investigated the persistence of DDT in forest residues gathered in eastern Maine and New Brunswick, Martin developed a method to determine the microscopic qualities.

Some of the lecture demonstration equipment Martin created for general chemistry lectures is still in use, including the large Periodic Table hanging in the chemistry lecture room in Aubert Hall.

Outstanding Graduating Stud



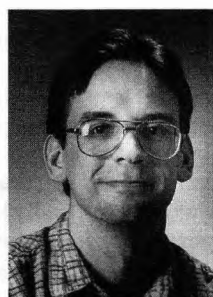
Michael Crafts



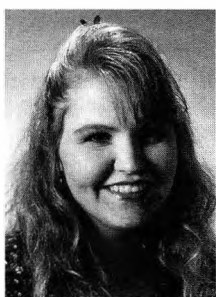
Theodore Curtis



Raelene Doody



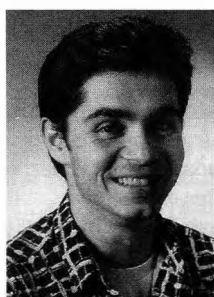
Christopher Dunham



Bobbi Lyn Jackson



Tracey Jo Miller



Elvis Pellumbi

Michael Crafts

The Outstanding Graduating Student in the College of Engineering is Michael Crafts of Lisbon Falls. Crafts was valedictorian at St. Dominic's Regional High School in Lewiston where he earned a perfect score of 800 on his math SATs. At UMaine, Crafts is a Presidential Scholar and recipient of a J. Larcom Ober Presidential Scholarship. He enrolled in 1991 and spent his sophomore year and the summer of 1994 in a coop experience at Maine Yankee, where he was responsible for projects usually assigned to more experienced engineers. He has served as president of the student chapter of the American Society of Mechanical Engineers, and is currently president of the local chapter of Pi Tau Sigma, the national mechanical engineering honor society. As a member of Pi Tu Sigma, he has been extensively involved in weekly tutoring sessions for undergraduate engineering students. Crafts also has been elected to Phi Kappa Phi and Tau Beta Pi, the engineering honor society. Along with these activities, he has actively participated in many departmental, college and University recruitment activities during his UMaine years. Crafts will serve as an officer in the U.S. Navy Civil Engineer Corps; and is headed to Pensicola June 15.

Raelene Doody

The College of Education Outstanding Graduating Student Raelene Doody was aptly described by one of her student teaching supervisors as a "second-miler," always willing to go that extra mile for her students, and as a wonderful role model. Doody has strong values - grounded in family, faith and community - the insatiable curiosity and intellect, and the incredible determination that have made her an outstanding student, citizen and teacher. The valedictorian of her class at Central High School in East Corinth, Doody entered UMaine in 1993 with six Advanced Placement credits, and a Trustee Tuition Waiver. Doody is an elementary education major, with a concentration in psychology and an intense interest in the learning process of children. Doody is a Dean's List student, and a member of Kappa Delta Pi and Phi Kappa Phi national honor societies. Last fall, her senior research project was on integrating multiple intelligences into the classroom. As a teacher, Doody's goal is to challenge her students as individuals, to establish a strong and lasting rapport, to earn their trust and respect. Her hope is that students will remember their year in her classroom as a turning point - as the time they enjoyed learning so much that they never want to stop seeking new knowledge.

Bobbi Lyn Jackson

The outstanding senior in the College of Social and Behavioral Sciences is Bobbi Lyn Jackson of Fort Kent, a psychology major who minored in sociology. She was recently inducted into Phi Kappa Phi, Phi Beta Kappa, and Psi Chi, the national honor society in psychology. Jackson has excelled in all her courses and become heavily involved in research and field experience. She has accomplished this while working at least 15 hours per week since the beginning of her sophomore year. She worked for Spruce Run on the hot line and as a direct service provider, first through the work study program and then as a volunteer. She then worked for Family and Children Together, a child service organization, with her most recent responsibility being a supervisor of parental visitations. Some of her training for this came from a course in parent education provided by Cooperative Extension. Jackson's research also has involved children. She has worked with graduate students and Professor Cynthia Erdley, her research supervisor. The studies involve peer relations of school age children, anti-social behavior, social skills training, observation, children's ratings, measurement, analysis and the nitty gritty of research. As part of her responsibilities, she has completed the reference section for an upcoming publication. Following graduation she will find a position in which she can use her college experience to help children, probably in a social service agency.

Elvis P

Elvis Pellumbi, this year's top-ranking student in the College of Business Administration, was an elementary school. He graduated from high school in 1991, two years after the collapse of the H... Fellowship to attend the American University in Bulgaria. He studied at AUBG for two years and with a concentration in finance. His academic achievements include induction into Beta Gamma including ROTORACT and the Student Portfolio Investment Fund. This fall, Pellumbi will begin received a full fellowship for the MBA program.

ents from the Colleges

Theodore Curtis

The College of Sciences Outstanding Graduating Student is Theodore Curtis of Holden. A senior in zoology who is completing pre-med studies, Curtis is described by instructors and advisors as one of the best undergraduates "in terms of intelligence, scholarship, lab skills, and biological savvy." Among his achievements is his field study with a master's student in which Curtis effectively developed a protocol for standardized sampling of microhabitat use. He also has worked with one of his professors on a project in fruitfly genetics, characterizing what they believe to be a new mutant. Curtis is broadly interested in scientific research, sharing his impressive experiences with undergraduates in various forums. In addition, he has been active in an array of activities in the arts and social sciences. Curtis has worked on anthropological digs, participated in Oratorio Society, and acted in campus theatrical productions. He spent last spring in the University of Pittsburgh's Semester at Sea program that involved sailing around the world. Curtis is a member of Theta Chi fraternity and the Maine Outing Club. He has been accepted to medical school at Pennsylvania State University.

Christopher Dunham

Christopher Dunham of Clinton is described as one of those rare students one encounters only once every couple decades of teaching. A nontraditional student, Dunham studied computing at a technical college, discovered philosophy through independent reading, and came to the University with high motivation and singularity of purpose. The faculty of the Philosophy Department cite countless examples of his extraordinary potential, including his mastery of texts, well-argued positions in relation to current debates, interpretive skills, and formal reasoning ability. Dunham is the recipient of this year's Philosophy Department Virtue Award, as well as the past recipient of the department's Roger B. Hill Scholarship. He also is the first student in 15 years to twice receive the department's Levinson Award for excellence in undergraduate philosophical writing. Dunham was a finalist for a Mellon Fellowship, and has applied to several of the best graduate programs in philosophy in the country. He has been accepted, and is planning to enter, the Ph.D. program in philosophy at the University of Pittsburgh - regarded by some as the best department in the country. There he has a five-year teaching fellowship.

Tracey Jo Miller

The College of Natural Resources, Forestry and Agriculture's top-ranking student is Tracey Jo Miller. A native of South Hiram, Miller is an animal science major with a concentration in pre-veterinary studies. While at UMaine, Miller has been the recipient of a number of awards. She was one of two recipients of the University of Maine System Maine Prize. In addition to a number of the College's achievement scholarships, Miller has received the National Alpha Zeta Scholarship, Alumni Association Scholarship and Animal Science Achievement Award. Her most recent honor is the Bickford Prize, awarded annually to the most outstanding student in the College. Miller has been active in the Maine Animal Club, Alpha Zeta honor fraternity, Health Professions and the UMaine Honors program. She has been accepted to four veterinary schools - a major accomplishment in itself - and plans to attend Tufts Veterinary College in September.

Pellumbi

in Tirana, Albania. Pellumbi studied English for more than eight years, beginning in a regime in Albania. In 1992, Pellumbi was one of three Albanian students to receive a Soros transferred to UMaine at the beginning of his junior year as a business administration major. He is a member of Alpha Zeta, the national business honor society. He participates in several student activities and has completed graduate studies in finance at the University of Maryland in College Park, where he has

MUNSON RECEIVES PRESTIGIOUS GRANT FROM WOODROW WILSON INTERNATIONAL CENTER FOR SCHOLARS

Henry Munson Jr., University of Maine professor of anthropology, has received a \$40,000 grant from the Woodrow Wilson International Center for Scholars in Washington, D.C., to study the political role of religious fundamentalism in the United States, Israel, and the Islamic world. The grant will enable Munson to spend the 1996-97 academic year at the Center, which is located in the original Smithsonian Institution ("the Castle").

Munson was one of only 30 awardees selected from a field of 807 applicants. The Center was established by Congress in 1968 and annually hosts about 100 scholars and a few prominent journalists and former government officials from around the world.

Munson has written three books on the Islamic world, all published by Yale University Press. He has served as a consultant to the State Department on matters involving Islamic fundamentalism and Morocco and teaches courses on religion, culture, linguistics, and politics at UMaine.

While in Washington, Munson hopes to interview Christian fundamentalist leaders such as Jerry Falwell, leader of the now defunct Moral Majority, and Ralph Reed of the Christian Coalition. He intends to study how they have dealt with a common political dilemma: how to make alliances with other groups while retaining the allegiance of their core supporters.

Munson uses the term "fundamentalist" to refer primarily to people "who believe that state and society should be based on a set of sacred scriptures. Some fundamentalists shun the political arena and seek only to conform to sacred scripture in their own lives. In the Christian context, fundamentalists are a subset of the broader category of evangelical Protestants who stress the idea of being 'born again' as well as the authority of the Bible. Not all evangelicals are fundamentalists. Some are quite liberal, both in religious and political terms."

"Up until 1979, most Christian fundamentalists in the United States were not politically active," says Munson. "There was a turning point in 1979 when a number of conservative Republicans met with leading fundamentalist ministers and said, 'Look, let's get together.' The idea was to tap the reservoir of potential support for the Republican Party among Christian fundamentalists." Since then, he adds, the religious right has evolved into an uneasy alliance of fundamentalists, Catholics, and Mormons.

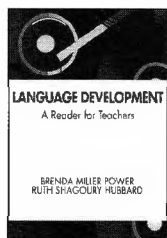
"Although the religious right cannot impose its candidates on the Republican Party, it does have tremendous leverage because it can provide the margin the Republicans need to win. That is, 'religious conservatives,' primarily Christian fundamentalists, could determine whether Dole or Clinton wins the 1996 election - if it is a close contest." ▲

Elvis Pellumbi

Elvis Pellumbi, this year's top-ranking student in the College of Business Administration, was born in Tirana, Albania. Pellumbi studied English for more than eight years, beginning in elementary school. He graduated from high school in 1991, two years after the collapse of the Hoxha regime in Albania. In 1992, Pellumbi was one of three Albanian students to receive a Soros Fellowship to attend the American University in Bulgaria. He studied at AUBG for two years and transferred to UMaine at the beginning of his junior year as a business administration major with a concentration in finance. His academic achievements include induction into Beta Gamma Sigma, the national business honor society. He participates in several student activities including ROTORACT and the Student Portfolio Investment Fund. This fall, Pellumbi will begin graduate studies in finance at the University of Maryland in College Park, where he has received a full fellowship for the MBA program.

V O L U M E S

Recent Works by University of Maine Authors



Language Development: A Reader for Teachers
Edited by Brenda Miller Power and Ruth Shagoury Hubbard
(Prentice-Hall, 1996)

In *Language Development: A Reader for Teachers*, Brenda Power, UMaine associate professor of education, and Ruth Hubbard of Clark College, Portland, Ore., have compiled

many of the critical studies of researchers who have shaped our understanding of how we develop language and how we use it to communicate meaning. Also included are studies of language from classrooms, written by teachers who facilitate the examination of how we can use language as a tool for genuine learning, for sharing understanding with others, and for delighting in the magic of language.

The book is divided into three sections: historical perspectives and landmark studies, highlighting major theorists who have shaped our understanding of how language is acquired; talk in schools, which is filled with examples of how teachers can change curriculum to support oral language development; and sociological and personal perspectives, tackling some of the complex issues of language and culture.

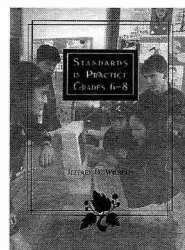


Oops: What We Learn When Our Teaching Fails
Edited by Brenda Miller Power and Ruth Shagoury Hubbard
(Stenhouse Publishers, 1996)

Oops: What We Learn When Our Teaching Fails is a book of essays by and for teachers that drives home a most realistic lesson: it's okay to fail and that's how people, including teachers,

learn. In 47 brief stories, veteran teachers from rural, suburban and urban America break the big silence and share their failures, pain, frustrations, and most embarrassing and humiliating experiences. As they rebound with resiliency, optimism and humor, they learn valuable lessons from their mistakes and from their students. They also learn that often even the most heroic efforts can't change the intractable problems of education and society. Issues of race, economics, under-supplied classrooms, stifling bureaucracy, and dangerous kids are always there.

Most of the teachers contributing essays to *Oops* donated their fees to Rethinking Schools, a nonprofit newspaper advocating reform of public schools.



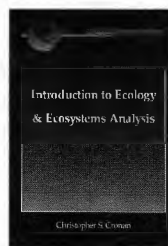
Standards in Practice, Grades 6-8
By Jeffrey Wilhelm
(National Council of Teachers of English, 1996)

Jeffrey Wilhelm's book, *Standards in Practice, Grades 6-8*, is one of four introduced by the National Council of Teachers of English (NCTE) during its annual conference recently in Boston. Wilhelm, assistant professor of

education, incorporates his expertise as a teacher/researcher, and his experience in integrated, inquiry-driven curriculum, technology as a learning and teaching tool to show that the standards are not about what to teach but how to teach better.

The standards were developed by teachers and represent the best of what is thought and known in the field, according to Wilhelm. Teachers who are doing interesting and challenging work and who have the freedom to make decisions and change practice will find that the standards are already helping to shape their students' learning.

It's important to articulate and define the standards so teachers can have a gauge for examining their practice and learn from their accomplishments and failures, Wilhelm points out. He weaves his book, the characters, and situations around his own experiences, colleagues, students, struggles and successes.



Introduction to Ecology & Ecosystems Analysis
By Christopher Cronan
(Shaw-Ferguson Environmental Publications, 1996)

Christopher Cronan, professor of plant biology and ecology, has published a new textbook based on an integrated ecosystems approach to ecology that is concise, understandable, informative, and affordable. The aim of this book is to convey the perspectives and principles of ecology to a broad audience of students and professionals outside the life sciences.

Introduction to Ecology and Ecosystems Analysis provides a general introduction to life processes and environmental factors in the biosphere. The text is well-illustrated, offers overviews of five types of ecosystems – forests, lakes, streams, wetlands and marine systems – and concludes with discussions of two issues of global significance, air pollution/greenhouse warming and tropical deforestation. The text is intended to make the fundamentals of ecological literacy more accessible to people in all walks of life.

Stuart Bruchey, Libra Professor of History and professor of economics, had the unusual satisfaction of arranging for the nearly simultaneous publication of books containing the research papers of his students at two universities.

Graduate students in his UMaine seminar in business history conducted studies of a number of firms that culminated in the publication of *Entrepreneurship in Maine: Essays in Business Enterprise*, a volume co-edited by Bruchey and Suzanne Moulton (New York: Garland, 1995).

At Columbia University's School of Business Administration, two of his students in an executive MBA course, "Conceptual Foundations of Business," conducted a number of oral interviews that culminated in a volume by Adele Gray and Gina Alphonso, *New Game, New Rules* (same publisher, 1996). In the book the authors argue that women, especially, should consider taking the entrepreneurial route out of the corporate downsizing squeeze.

Bruchey also had the satisfaction of seeing the reprinting of a chapter from his book, *The Wealth of the Nation* (N.Y.: Harper and Row, 1988), in a book of essays on the *History of the U.S. Economy Since World War II*, co-edited by Harold Vatter and John Walker (Armonk, N.Y.: M.E. Sharpe, 1996).

Franco Colloquium *continued from page 1*

presentations on a range of cultural issues and activities by culturally active members of the Franco-American community. We will hear, not only from the researchers, but from the people who serve as the living source of that research. In that way, the communities become the subject as well as object of research. Researchers are given direct access to the community, and widely separated Franco community representatives are allowed to intersect with the cultural work and ideas of one another. Energy gets produced in the exchange, we develop a picture of who we are, and the sense of a collective identity is deepened and validated as a result."

More than 120 presenters from across the continent, including many from the University of Maine community, are expected to make presentations during the five-day event. A selected proceedings of the colloquium will be compiled and published. Among the dignitaries expected at the colloquium will be Acadian novelist and playwright Antonine Maillet, winner of the Prix Goncourt for her acclaimed work of historical fiction, *Pélagie-la-Charrette*, based on the expulsion of Acadians from their homeland in 1755. Maillet will give the keynote address.

The colloquium will also provide the launching of the first volume of a Franco-American book series, published jointly by the University of Maine Press and the Franco-American Center. The bilingual edition, *Un Jacques Cartier Errant*, features three plays by Greg Chabot, whose works are written not in standard French but in the "home French" of Francos of the Northeast.

The subtitle of the colloquium suggests the three broad perspectives from which the theme of cultural identity will be addressed: "Legacy, Evolution, and the Challenges of Renewal." "We'll be taking a serious look at who we are and where we need to go to maintain and renew the resource of our cultural legacy—to be a people with a future as well as a past," says Bishop. "As Franco-American studies gains legitimacy as an academic discipline, it will become more specialized. But this colloquium is interdisciplinary and is designed to create a broader picture of the North American French presence. We will learn by seeing what we share and do not share with one another."

The seeds for the colloquium were planted in May 1994 when a University of Maine delegation that included Franco-Americans from the state, under the leadership of Marisue Pickering, traveled to western France—the region from which most Francos from the Northeast trace their ancestry—to participate in a colloquium at the Université d'Angers. The focus of the colloquium was precisely the ancestral relationship between Franco-North Americans and western France. A connection was begun at that event that led to the signing last April of a letter of agreement between UMaine and the Université d'Angers, establishing an academic and cultural association between the two institutions.

Former Boston-based Consul General Patrice Paoli first promoted the idea of a colloquium in New England as a follow-up to the conference at the Université d'Angers. With its emerging Franco-American Studies Program and its special relationship with the University of Angers, UMaine became the natural choice for organizing the U.S.-based colloquium. The colloquium has since been supported in part by a grant from the Boston office of French Cultural Services.

The colloquium is another important step by the Franco-American Center in its efforts ultimately to establish the University of Maine as the university of choice for Franco-Americans in the Northeast. "In order to do that, we have to create a program within the University with this population in mind. We need to reflect the realities of their history, their language and their traditions, as well as their living reality as a cultural presence in Maine and in the Northeast."

The evolution of the Franco-American Center since its inception has been most remarkable in recent years. Since its entry into Academic Affairs, the Center has initiated a Franco-American Studies Program, has established academic linkages to western France, and is working to strengthen longstanding associations and develop new ones with universities in Quebec and New Brunswick. The creation of the colloquium represents an important step for the Franco-American Center in becoming a natural clearinghouse for Franco-American research.

"For 35 percent of the state's population, all these activities, including the colloquium, are meant to provide some kind of doorway—visible access—into the resources of their own cultural legacy," says Bishop. "Until fairly recently the flagship university of the state had hardly acknowledged the existence of a third of the state's people. As the University's commitment to this population becomes manifested in the support of the Franco-American program, a sequence of mirrors is created by which we come to know and to realize ourselves more surely as a people. It is not a matter of embalming the past but of reclaiming and renewing what truly we are and of passing on this knowledge to those who have lost access." ▲

Book Ends

New & Noteworthy at the University Bookstore

It's just beginning to feel like summer is a possibility, with the promise of sunshine and extra time for reading. Most of us have a stash of fiction or a list of titles we've been anticipating and saving for the calmer months ahead. Come and visit us for more suggestions—we'll compare lists!

Fiction:

Tales of Burning Love—Louise Erdrich. The author of *Love Medicine* brings us a new novel centering around the passion that five women share for one man. The husband becomes more and more peripheral as the ex-wives share revelations during a blizzard in North Dakota.

Let's Put the Future Behind Us—Jack Womack. Post-Soviet Moscow is the setting, and a former bureaucrat is thriving in his capitalist business: that of manufacturing extremely convincing historical documents to suit any need. Womack writes with irony and black satire, as in his previous books, *Elvissey* and *Random Acts of Senseless Violence*.

Adventures of Huckleberry Finn—Mark Twain. This new comprehensive edition includes previously omitted episodes and variations, all gleaned from the recently discovered, handwritten first half of Twain's manuscript. Critics believe these changes show that he "frequently checked his impulse to write an even darker, more confrontational work than the book he finally published," and that "the original manuscript demonstrates the skill, the restraint, and the constraints that affected (his) creative process."

Nonfiction:

Green Was the Earth on the Seventh Day—Thor Heyerdahl. The world-famous anthropologist and naturalist here recounts one of his early journeys: just after college and just married, he and his wife left Norway to begin a new life on a tiny island in the South Pacific.

Sister Brother: Gertrude and Leo Stein—Brenda Wineapple. In a dual-biography, the author traces this "smoldering rivalry" from its origins to beyond the 1914 argument that caused their complete rupture. She included rare and never-before printed material, including an early Stein manuscript.

Life of a Poet: Rainer Maria Rilke—Ralph Freedman. Freedman "reveals how Rilke lived out the very process of the poetic imagination by transforming the self that he did so much to project," in this huge and well-documented biography of the mystical poet.

A Tour of the Calculus—David Berlinski. Or should we say, *The Calculus* as Berlinski moved far beyond the basics into the realm of the enlightening. Rather than just "a mere system of mathematics," he shows us as well "an instrument commensurate at last with humanity's limitless capacity to regard the universe with wonder."



The University was well represented at the 61st Annual Meeting of the Society for American Archaeology, held April 10-14 in New Orleans.

Assistant Professors of Anthropology and Quaternary Studies **Kristin Sobolik** and **Daniel Sandweiss** each presented an invited paper in the Fryxell Symposium, dedicated this year to environmental archaeology. Sobolik spoke on: "Nutritional Constraints and Mobility Patterns of Prehistoric Hunter-Gatherers in the Northern Chihuahuan Desert." Sandweiss presented a paper: "Malacoarchaeology in the Central Andes." In other sessions, Hudson Museum Director **Stephen Whittington** presented a paper: "Rescue Osteology: Salvaging the Past at Iximche, Guatemala," co-authored with three colleagues from other institutions.

Karen Mack, a research assistant in the Institute for Quaternary Studies, gave a paper co-authored with Professor of Anthropology and Quaternary Studies **David Sanger**: "The Todd Site: A Ceramic Period Occupation on the Central Coast of Maine." Quaternary Studies graduate student **Sarah Nicholas** presented a poster: "Paleoclimate of the North Coast of Peru as Recorded in the Stable Isotope Content of Marine Shell," co-authored with Sandweiss, Assistant Professor of Geology and Quaternary Studies **James Wright**, and two colleagues from other institutions.

Vijay Panchang, associate professor of civil and environmental engineering, has been appointed associate editor of the *Journal of Waterways, Port, Coastal, and Ocean Engineering*, published by the American Society of Civil Engineers.

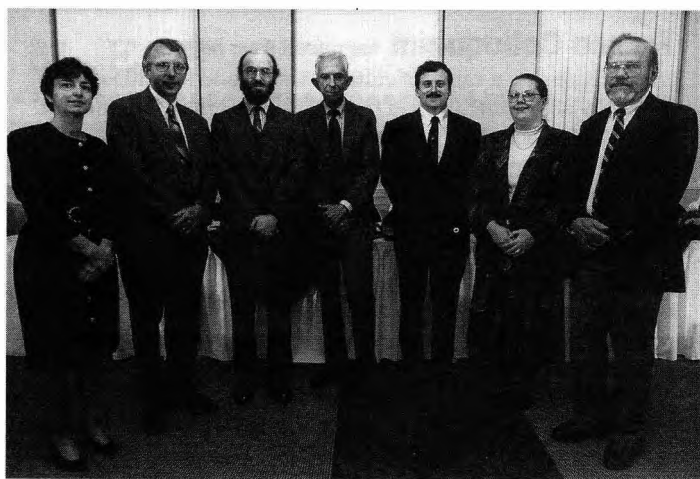
Lynn Nelson, associate professor of social studies education, presented papers: "Herbert Croly: The Social Studies and the Progressive Mind," with Frederick Drake of Illinois State University, and "Voices of Men and Women in Teaching U.S. History," with **Anne Pooler**, associate professor of social studies education, at the Northeast Regional Conference on the Social Studies, Hartford, March 14-15.

Douglas Nangle, assistant professor of psychology, presented: "A 'Prescriptive' Treatment for Attention-Deficit/Hyperactivity Disorder: Combining Medication and Behavior Therapy," at the Multidisciplinary Psychiatric Grand Rounds, Eastern Maine Medical Center, April 12.

Patrick McMullen, assistant professor of management, recently made the following conference presentations: "Using an Efficient Work Station Oriented Approach to Solve the Assembly Line Balancing Problem," Decision Sciences Institute Annual Conference, Boston. In addition he presented: "Comparing Assembly Line Balancing Solutions via Data Envelopment Analysis," at the Western Decision Sciences Institute Annual Conference, Seattle.

Lynn Katz, University of Maine assistant professor of civil and environmental engineering, has received the 1996 Dow Outstanding New Faculty Award for the New England Section of the American Society for Engineering Education (ASEE). The award is sponsored by Dow Chemical and recognizes Katz's development of cooperative learning techniques in the classroom and the use of high-performance analytical instrumentation and computer-aided evaluation of data in undergraduate teaching. The award includes full support for participation in the ASEE 1996 annual conference in Washington, D.C. In addition to her teaching, Katz conducts research on groundwater quality questions involving pesticides and petroleum compounds.

Jeffrey Wilhelm, assistant professor of literacy education, attended the debut of his book, *Standards in Practice, Grades 6-8*, at the National Council of Teachers of English annual conference, March 20-23, Boston. Also attending and making presentations were: Rosemary Salesi Bamford and Janice Kristo, professors of literacy education, who conducted a workshop: "Selecting the Best Nonfiction for Children"; and Brenda Power, associate professor of literacy education, who presented a paper: "Putting Art on the Scientist's Palette," and conducted a workshop: "Seeing, Hearing, and Feeling Learning Happen: The Multiage Multimedia Project," with undergraduate UMaine students **Matthew Snow** and **John Arathuzik**, and literacy doctoral students **Gail Garthwaite** and **Kelly Chandler**. Also at the conference, Kristo was selected to serve on the editorial board for the *Journal of Children's Literature*.



Earlier this academic year, the College of Engineering held its Sixteenth Recognition Banquet, honoring members of its academic community with its top honors. Presenting the awards was Dean John Alexander, right. Recipients of the College's highest awards were, left to right, Lynn Katz, associate professor of civil engineering, who received the 1995 Award for Outstanding Accomplishment in Teaching by Young Faculty; Dana Humphrey, associate professor of civil engineering, recipient of the 1995 Ashley S. Campbell Award for excellence in teaching and advancements in geotechnical engineering research; Bruce Segee, assistant professor of electrical and computer engineering, who received the 1995 Award for Outstanding Accomplishment in Research by Young Faculty; alumnus Robert Hoover of the Houston-based acoustical consulting firm of Hoover and Keith Inc., recipient of the Distinguished Engineering Award for his outstanding engineering accomplishments, research achievements and industrial applications in the fields of acoustics and noise control; John Ransdell, graduate assistant in chemical engineering, received the 1995 Graduate Teaching Award; and Administrative Assistant Patricia Heal, who received the Leila C. Lowell Award for her outstanding work in the Department of Physics and Astronomy. Photo by Tim Boyd

Media Spotlight



Maddaus in Research in Rural Education, Bangor Daily News

John Maddaus, associate professor of education, interviewed with the *Bangor Daily News* for a story examining the influence of standardized test scores on parental choice of schools, and policy implications surrounding the issue of school choice. The news story was generated by Maddaus' article on the same topic in a recent edition of the *Journal of Research in Rural Education*.

Kelloggs in Science News

Work by Tom and Davida Kellogg, Department of Geological Sciences, is described in the Feb. 24 issue of *Science News*. Their work on diatoms in Antarctic ice supports the hypothesis that the East Antarctic Ice Sheet has remained relatively stable over at least the past 14 million years. That view is challenged by an Ohio State University group that has found evidence to suggest that the sheet melted away during a warm period about 3 million years ago. The issue relates to the potential for the ice sheet to melt and cause a large rise in sea level.

Criner's Research Featured in Warmer Bulletin

A photo of George Criner, and a description of his recent research in the area of waste management, was featured in the February 1996 issue of the *Warmer Bulletin*, the journal of the World Resource Foundation, (No. 48, p. 16). Criner is an associate professor of resource economics and policy.

Critical Languages *continued from page 1*

courses in Japanese, Bulgarian, Italian, Greek and Portuguese feature as few as three students under the instruction of a tutor who is often a UMaine international student or a community member for whom the language is native. As CED offerings, the classes can be held on and off campus, and all require extensive out-of-classroom preparation by the students.

Best of all, Critical Languages optimizes the native-speaking skills of Maine's multicultural students and residents, facilitates small-group learning and logistic flexibility for students while offering rigorous study in languages that are traditionally not found in the classroom but are crucial to participation in an increasingly global society.

"This is a program that has all sorts of good connotations. It's also not the way we traditionally think of how languages have to happen," according to UMaine's Critical Languages Program Director Kathleen March. "We're providing a diversity of curricula that is not costing the institution money. It's not that we're taking language students out of the traditional classroom. Instead, these are the students who may be taking Italian as an elective because they know Spanish, or they are interested in certain areas of the world. They take a course like this because it offers these specific languages that they want. Here the attrition rate is lower than it is in a regular class where people are forced into a foreign language requirement."

The Critical Languages Program is based on a national model developed by the National Association of Self-Instructional Language Programs, founded at the State University of New York at Buffalo, March's alma mater. "I saw it work for a number of years," says March, who worked as an assistant to the program's creator, Peter Boyd-Bowman. "It's based on the Foreign Service teaching method of oral practice and drill. And it has a lot to do with student responsibility; students must do independent work outside of class using tapes and workbooks, and then must come to class ready to perform, just like in a music lesson."

"What is really great about the program is it is self-instructional – the student does the majority of the work but there's also the human element of the native speaker who provides input, guidance and correction during weekly tutorials. There is no trick to it. The students are doing the basics required for any language class. But in this learning environment, if the students are not prepared, they can't perform, and they, the tutor and the others in the class know it. I call it the fear factor. In the oral exam at the end, the grade is based solely on what is heard by a qualified outside examiner. There is no way of preparing for that exam except to have done the work in the book and achieved oral competence. Yet the final performance is exactly what we look for in any language class: not the exam grade, but the ability to communicate in the language. In this sense, we are looking to the same results as the traditional structure: linguistic competency."

"This program is not for every student," March says. "Students who dislike languages don't take these classes. This type of study looks easy, and it is, but only if the student is motivated and has self-discipline."

Still in its infancy, the UMaine program offers primarily beginning and intermediate levels of critical language instruction, compared to SUNY-Buffalo where there are six levels of language competency that takes students into a third year of study. In such basic language learning, native speakers prove to be excellent guides, March says. Presently six tutors in the Critical Languages program are students from this campus; in the past, native speakers from the community have been tapped as tutors.

An important advantage of the program is that it can virtually offer "languages on-demand," says March. A particular language and learning level can be offered with as few as three students, with tuition dollars from the CED classes used to pay tutor's fees and stipends for outside examiners. March makes text selections based on the recommendations of the national association.

At UMaine, Italian and Japanese consistently have the largest enrollments, attracting students who are high school teachers and students studying in such areas as history, international affairs and political science.

"This program offers so many benefits beyond just sitting in class and learning a language," March says. "Although language study is still the major purpose, the personal relationship of this learning environment encourages students to go to countries and continue their studies. For international students serving as tutors, it's a wonderful opportunity to be involved on campus in a program that relates to where they're from. In this way, their role is beyond just being invited to talk to a class or contributing to the international presence on campus."

The Critical Languages Program is in keeping with March's long-standing commitment to language learning and advocacy of diversity – and her never-ending motivation to seek innovation rather than accept the conventional.

"I always look for alternative ways of doing things," she says. "As a professor, I don't like policing and forcing students to learn. It should be a process of learning that they welcome. It's a process I learned about in Buffalo that seemed very appropriate."

"Of course the traditional classroom has its place and I myself teach this way," March says. "But often students come to class expecting to be taught and don't get the full value of class time as a result. Often what they're doing in the classroom is reading the text and discussing grammar that is clearly explained in the book and should be studied out of class. And the lessons are often explained in English, without the students practicing the language. In addition, the human contact with language in the classroom is lower."

There is no mystery to learning a language, March contends. Language is an innate ability of humans, and "we were never meant to be alingual," she says. "When people say they can't learn another language, they either don't want to learn or have a physical disability. I believe in having as many bilingual people as possible, and that fits with the mission of the University and of higher education. We need to expand our offerings. Our Critical Languages Program is growing slowly, but it has lots of potential for growth statewide."

Language opens doors beyond the global marketplace, she says. "Most often with language learning, people think in terms of jobs and business opportunities, but that's not where I'm coming from. It has to do with cultures, people, pleasure and information in general."

"This is the kind of program that shows Maine is diverse. Maine is not that monolithic. Languages are a way of looking at arts and humanities, and liberal arts as strong and important parts of society in general and Maine in particular. I would like to emphasize to Governor King and others that we can't talk international trade without the language and cultural context – the human elements. By extension, a university that speaks to the global society as part of its mission in preparing students and the state has to look more closely at the meaning of the term. Global society means human beings in addition to markets, money and board rooms." ▲

Lubec *continued from page 2*

In working with high school students, Soule draws from his own experiences growing up on a farm in East Corinth. "It's hard to separate this from things you'd do with your own children. There have been times when I've wondered what I had gotten myself into, but if I've helped one student change direction a bit, then it's been well worth the effort."

Soule first visited Lubec in 1992 to talk with students about engineering as a profession. "In every class, I asked how many were going on to college. In the eighth grade, every hand went up, which is what you'd expect of this age group. As I talked to the first year students and then to the sophomores, I'd ask that same question, and the percentage got lower and lower, and finally I got to the seniors, and there was one hand raised in the back of the room. He said, well, maybe he'd like to go on to college. The rest of them really didn't have any interest in it."

Meeting with Swanson, Soule agreed to try an experiment. "I asked what would happen if somebody were to intervene in this situation, to introduce them to the atmosphere at a university. Out of this conversation came the idea to work with these kids."

During the next five years, Soule and his adopted students made the trip between Lubec and Orono more than a dozen times. The students came from a cross section of the community, and as a group they excelled. All maintained a 'B' average or better, and three became state champions in track.

Currently, ten out of the 16 students have applied to universities including UMaine, Bowdoin, Maine Maritime Academy, Dartmouth and UMaine at Machias. Three others are planning to enter military service, and three are undecided.

"It's been a real joy to watch these kids mature into ladies and gentlemen," says Soule. "I don't take any credit for that. That would have happened anyway, but this is a very sharp group of students. It's been very enjoyable and fulfilling."

Soule remembers the morning after the students spent a night in Corbett Hall when it was a visitors' dorm. "We had agreed to meet in front of the Greenhouse, and I could hear them coming before I saw them. They came running around the library across the grass, and dragging behind them in the background were the four adult chaperones. It had been a long night," he says.

Soule is quick to point out that many faculty and staff members contributed to the Lubec project. Costs for the overnight, for example, were picked up by the Office of Student Affairs, the President's Office and the College of Natural Resources, Forestry and Agriculture. "There were many people who made this possible and shared their time with the kids. The cooperation on campus was fantastic."

Among the students' favorite experiences were their visits to the robotics lab in the Department of Electrical and Computer Engineering and to the Hudson Museum. "They were really impressed with the machine that plays chess," says Swanson. "And when Pete paid out of his own pocket for them to see a UMaine baseball game, they just couldn't believe it. They all say he has a really big heart."

Soule's invitation to give the spring graduation address reflects the value students have placed on his efforts. "The students chose him with no input from me or the faculty," says Swanson. "What he did meant a lot to them." ▲

Faculty Awards *continued from page 2*

Hunter is a UMaine graduate who returned to his alma mater to join the Department of Wildlife Ecology faculty in 1978. As a teacher he combines a friendly, informal approach with demanding standards and a heart-felt commitment to his discipline. He engages his students in debates on cutting-edge issues, and challenges them to think critically and creatively. His dedication to teaching also extends to the graduate level where his commitment to advisees is legendary. Hunter is an outstanding researcher who has produced 58 peer-reviewed publications and recently completed his second book, *Fundamentals of Conservation Biology*. His wildlife work in India, Nepal and Africa, and his focus on world conservation, are renowned. Closer to home, Hunter's expertise on wildlife issues has been tapped by the U.S. Forest Service, Smithsonian Institution, and White House. Gov. Angus King appointed him to serve on the Maine Council on Sustainable Forest Management – just one more example of his commitment to formulating sound environmental policies for Maine. In all his capacities, he balances an outspoken devotion to wildlife conservation with an appreciation for the needs of society.

Al Bushway's distinguished public service includes personally responding over the past seven years to more than 100 requests a year from large, established food processors, as well as individuals in small home-based businesses with concerns ranging from food safety to methods for processing fruits and vegetables. In 1988, Bushway co-founded the Maine Food Processors Association to facilitate communication among the state's food processors. He also was integral in establishing the Northern New England Product Development Center at the University where, over the years, grants and technical assistance has been provided to food processors in Maine, Vermont and New Hampshire. In the spirit of a true public servant, Bushway has brought his impressive expertise and personable style to individ-

uals in the community through numerous Cooperative Extension workshops, as well as to young scientists through his sponsorship of science fair projects and his involvement in efforts like Maine Scholars Days.

Burt Hatlen joined the UMaine faculty in 1967. While a noted scholar of English literature of the 16th and 17th centuries, Hatlen also has published influential essays on Shakespeare, Whitman and Stephen King, and written his own poetry. Hatlen is as comfortable and effective teaching an undergraduate creative writing course as he is leading a graduate seminar on Dickinson. His scholarship and criticism in 20th century American poetry best exemplifies the breadth and quality of his achievement. He is the author of some of the most illuminating essays we have on modern and postmodern American poetry. His writings have helped widen the audience for poetry, and given scholars and readers fresh and thought-provoking insight. Hatlen heads the National Poetry Foundation at UMaine, and under its auspices, has organized international academic conferences on American poetry and poetics. A major literary voice in academe today, Hatlen's research and creative achievement set high standards for those doing scholarship in the humanities.

Jim Roscoe is a specialist in the anthropology of New Guinea and the peoples of Polynesia. The highly respected scholar has published important articles, one of which garnered the Curl Essay Prize in 1993 as the year's outstanding article in social anthropology. Evaluations of Roscoe's teaching parallel the high quality of his research. He brings great dedication to his rigorous yet exciting teaching of a range of courses – from introductory anthropology and quantitative methods, to those in his specialty. Roscoe earns high marks from students for his ability to organize and explain complex issues, and to encourage students to think. ▲

188th Commencement *continued from page 5*

Her initial interest in marine biology shifted to pre-med in her junior year at the University. Parlin remembers a talk that year led by Associate Professor of Biochemistry Dorothy Croall about the benefits of grad school and medical school that turned the tide. Parlin, a regular volunteer at Franklin Memorial Hospital in Farmington, asked permission to shadow the work of a family physician in her community last summer. Now Parlin has been accepted into medical school at Emory University in Atlanta, and plans to specialize in family medicine.

"That was my happiest moment this past January when I got into Emory," she says. "It had to do with finally knowing where I was going to be and what I was going to be doing with my life."

Parlin is a member of Phi Kappa Phi and Phi Beta Kappa honor societies. She is the recipient of a UMaine Presidential Scholarship and Trustee Tuition Waiver, in addition to the many academic honors she has received through her department. In addition to her courseload, Parlin juggles two jobs – as a nursing assistant at Cutler Health Center and as a physical therapy assistant in a private clinic in Bangor.

"The key to my success is time management," says Parlin. "I have to figure out time for everything – from studying and a social life to being alone."

"My message to first-year University students is to always keep your options open. Don't rule out anything too early."

Parlin admits that the University of Maine was her choice of schools based in part on the merit scholarships she was awarded.

"I wanted to go farther away but honestly this has been a really good school," she says. "I received a good education here. I'm leaving with no undergraduate loans, which will help when I go to medical school where I will have loans. I've enjoyed my time here. Education is what you make of it."

Also named co-valedictorian is Ian Welsh of Cutler. The Massachusetts native enrolled in UMaine in 1992 as a biology major, and has plans to pursue a Ph.D. in the field.

Biology is a long-held interest for Welsh. As a youth, he lived with his family lived in Saudi Arabia for five years where his earliest study subjects were the lizards he chased. In 1987, Welsh graduated from Dennis-Yarmouth Regional High School in South Yarmouth, Mass., and joined the Air Force.

"Coming to the University I knew I wanted to major in biology and my academic experiences here reassured me," he says. "I've had a lot of good interaction with many good professors. I have a huge list of mentors."

A member of Phi Beta Kappa and Phi Kappa Phi, Welsh is active in campus organizations including the Off Campus Board and Ram's Horn Board. On WMEB radio, Welsh hosts a reggae show. In addition, he teaches an organic chemistry lab that he says has "turned out to be a very good experience."

Welsh says it helps to know one's academic goals before starting out, especially for newly graduated high school students on their way to college. "I wasn't ready for college right after high school," he says. "I needed time to decide who I was."

"Even now, I'll be taking a year off while I look at graduate schools," says Welsh. "I plan to work on my Ph.D. most likely in biology, maybe focusing on marine natural products, natural history or evolutionary biology."

Welsh attributes his academic success to the support of his family. "It had to do with making my parents proud and knowing what I wanted to accomplish."

"I'm really satisfied with the knowledge I gained and feel secure as a professional scientist," he says. "I have more knowledge than when I came in, and that's very satisfying."

Salutatorian of the Class of '96 is Craig Blodgett of Mexico, Maine. Valedictorian of Mountain Valley High School in Rumford,

Blodgett enrolled at UMaine in 1992 to major in chemical engineering. He has been hired by Kimberly-Clark in Connecticut as a process engineer.

Blodgett is a Presidential Scholar and the recipient of a Pulp and Paper Foundation Scholarship. As a first-year honors student, Blodgett was awarded the John Steinmetz Book Award.

A first-generation college student, Blodgett chose the University of Maine for its renowned chemical engineering program, and the academic scholarships he received. "It was less expensive to go here while not sacrificing quality," he says. "And it was close enough to home."

Blodgett sums up the key to his success in one word – focus. "Being able to focus is important," he says. "Throughout the years, I've taken weekends off and had fun. But Sunday afternoon to Friday afternoon, the job is learning – immersing yourself in the academic work."

It is important, Blodgett says, to learn how to learn. "What was key to my learning was the application of new material to what I already had learned. In that way, the new material is more than just words in a book."

Looking back over the last four years, Blodgett said it was his first class at UMaine that proved most memorable. "My first day, my first class was Calculus II at 8 a.m. on Monday. That's when I really knew I was finally here and that I would be here for the next four years." ▲

ROTC Commissioning *continued from page 8*

role. Today, the cadets graduate and don't know if they'll have active duty or reserve. They could end up in Korea or Bosnia. We had a different perspective of what the end of college meant."

It was the Army that took Libby out of Maine for 10 years. He returned to take a position as dean of students at Fryeburg Academy, and then began an 18-year career with the Maine National Guard. Libby retired from the Guard last July, and now serves as director of the Maine Emergency Management Agency.

Libby celebrates his 30th UMaine class reunion this summer. But ever since his student days, the University has played a role in the life of Libby and his family. He and his wife, Cindy, met as students at the University. Two of their three sons will also have degrees from UMaine, including Jeff, a third-year business major who plays defense on the hockey team.

The night before the Commissioning Ceremony, Libby will be in the audience attending the Graduate School Recognition Ceremony. There he will watch as son, Derek, receives his master's degree in electrical engineering, and Cindy receives an M.Ed. in counseling.

"We didn't push the kids this way, but we were extremely pleased when Derek and Jeff made their choice," Libby says. "Cindy and I had a great experience at the University, and we knew they would, too." ▲

LEWIS WORKS ON EXHIBIT AT PORTLAND CENTRE

A 16-painting exhibition of paintings by Professor of Art Michael Lewis is on display through May 31 at the University's Portland Centre on Congress Street. A public reception to meet the artist is scheduled for 5–7 p.m., May 3.

All the works in the exhibit are in turpentine wash on 100 percent ragboard. They include: *A Dream Like Lightning (Orono, Maine)* and *Tone Poem #9 (Morning Mist, Orono, Maine)*.

Lewis' next solo exhibition will be at the University of Missouri, St. Louis, in September.

Fifth-generation Grad *continued from page 5*

AbbyLynn transferred to UMaine as a sophomore from Long Island University in 1993. Like her late grandfather, Rev. Stanley Haskell, who served the Maine Seacoast Mission in Bar Harbor as boat minister, AbbyLynn is heeding the call to ministry. But unlike her grandfather who spent 22 years as a banker before beginning his studies at UMaine and the Bangor Theological Seminary, AbbyLynn will begin her theological studies at the Seminary at the age of 23.

"My grandfather and I connected and had some quality time," says AbbyLynn, who was married last August to soon-to-be UMaine graduate Colin Campbell, a chemical engineering major. "I learned from him the importance of listening to people."

Rev. Haskell received his bachelor's degree from UMaine in 1967 – one semester before his son, Benjamin Haskell II – AbbyLynn's father. Ben had followed in the footsteps of his father because he had no choice – if he wanted to study agriculture, the University of Maine was the only place in the state to do it.

It was Rev. Haskell who was on hand to give the prayer at Ben's graduation in 1968. Ben, a member of the Class of '67, took an ROTC commission and headed to Vietnam.

Ben's high school sweetheart and AbbyLynn's mother, BettyAnn, was a member of the Class of '69. Her bachelor's degree is in home economics education; she completed a master's degree in education with a focus on special education in 1983.

The memories of their years at UMaine include the time Ben stood at attention as part of an ROTC drill team as President John Kennedy walked on to Alumni Field. "Those were the days of SDS and Stephen King. But no matter where students were politically, there was still a sense of common strength," says Ben, who has been director of the New England School of Broadcasting since 1988.

BettyAnn remembers her UMaine years with memories of people like Dione Hutchinson, who taught a time management class, and leaders like Win Libby, Bill Lucy and Fred Hutchinson.

"It was a time when people knew you and asked how you were. It was a nice place to be," says BettyAnn, who is now a fourth grade teacher. "Yet those were also the days of the Kent State shootings when you hoped that you would be safe on campus. There were the shootings of the two Kennedys and Martin Luther King. It was a tough time to live through."

Ben and BettyAnn were married in 1968 by his father. When AbbyLynn and Rebecca were born, it was BettyAnn's father, the late Dr. Donald Coulton, who delivered them.

Such family strength has its roots deep in the history of the University's past. In addition to an uncle and great uncle who are UMaine alumni, AbbyLynn's great grandfather, Benjamin Haskell I, graduated from UMaine in 1912 with a degree in electrical engineering.

But the legacy began with Edwin Haskell, a member of the Class of 1872 who, with his father and brother, founded the Haskell Silk Co., in 1874. Edwin was a loyal UMaine supporter and outstanding alumnus who reportedly had not missed a Commencement in the 48 years since he graduated. He as a University trustee for 18 years, and in 1921 was awarded an

honorary degree from his alma mater.

"There's always been a strong sense of family and that pride in the lineage," says Ben. "And there's always been pride in going to school in our state. UMaine is a good college. On the Haskell side, there's never been pressure to attend the University, but always hope through the generations – and maybe some expectation. Yet the choice has always been an individual one, with the bottom line to be happy where you are." ▲

Academic Mace *continued from page 5*

ceremonial mace designs created by the 13 sculpture students.

Those students who took part in the ceremonial mace project are Christeen Edgecomb-Mudgette, Leslie Herger, Jay Farrington, Ruth Brittain, Lessa Drake, Seth Wilhelm, Jennifer Hunter, Courtney Cianchette, Noelle Braun, Amy Oliver, Rachel Gurley and Pam Godsoe. The other mace designs are on exhibit in the Memorial Union.

"The Commencement Committee was very impressed with the level of research and the quality of work done by the students who were involved with this project," according to Joyce Henckler, chair of the University of Maine Commencement Committee that commissioned the work. "The mace represents the historically granted authority of the University of Maine as the land-grant institution of higher education for the state. It functions both as an ornamental staff that signals the opening and closing of the Commencement ceremony, and as a representational symbol of the University's community of scholars."

The mace features a staff and stand of mahogany designed by Houlsen with millwork by Owen Gray & Son of Brewer. The staff is topped by a eastern white pine cone – Maine's state flower – carved in mahogany and enclosed in a three-prong oak reed receptacle representing the opening of a seed cover. The carvings are symbolic: just as the University has many disciplines of study, the pine cone has many seeds of knowledge, ready to be planted and to take root in the minds of its students.

"Obviously the University of Maine is connected to the state. You can't separate the two," says Houlsen.

In what is expected to be a Commencement tradition at UMaine, the academic mace will be carried upright into the ceremony representing the unfinished business of the day. It remains in its stand in view of the assembly as the emblem of the authority vested in the administration and faculty to grant degrees. For the recession, the mace is carried in a downward position representing the ceremony's completion.

Once a weapon in medieval warfare, the mace was refined as a symbolic device for use in ceremonies. It was first used as an academic mace at Oxford and Cambridge. Since that time, use of the ceremonial mace has become increasingly a custom in European and American universities' graduation exercises.

"I'm really honored by the thought that my mace will lead each graduation procession from now on," says Houlsen of the distinction of helping initiate an institutional tradition. "It's awe-inspiring."

Houlsen received her first degree in elementary education in 1988, and returned as a part-time student studying art in 1993. She has been oil painting "seriously" since 1989. With her degree in May 1997, Houlsen says she may pursue a master's degree or take up her painting full time.

Houlsen will not have to wait until a year from now to see her academic mace used in a Commencement ceremony. Her daughter, Gwen, a foreign languages major, will graduate this December. ▲

Spring Poetry Series in Orono

A Spring Poetry Series, hosted by Orono High School English Department and Orono Public Library, will feature Maine poets speaking and reading selected works. The public sessions at the Orono Public Library are: Poets Baron Wormser and Pat Ranzoni, 7 p.m., Wednesday, May 8; Poets Bill Carpenter and Lee Sharkey, 7 p.m., Wednesday, May 15. The series is sponsored in part by the Maine Humanities Council. Poet Pat Ranzoni is a UMaine graduate who lives in Bucksport.

Positions Available

The qualifications within the listings below are greatly abbreviated. In order to assess your background relative to the job and to submit the most effective application, contact the hiring department for more complete information.

To appear in the Maine Perspective, advertisements must be submitted to the Office of Equal Opportunity, 318 Alumni Hall, no later than noon on Wednesday. Guidelines for filling professional positions are available by contacting the Office of Equal Opportunity, x1226. A Request to Fill form must be approved before posting in Maine Perspective.

Assistant Professor. Professional Writing Technical Writing, Department of English. One-year, fixed-length, leave-replacement position. Qualifications: University-level teaching experience in business or technical writing and terminal degree in technical writing, composition, rhetoric or related field required. Start Date: 9/1/96. Review of Applications: Will begin 5/15/96. Contact: Chair, Professional Writing Search Committee, English Department, University of Maine, Orono, ME 04469-5752.

Assistant Professor. English Literature, Department of English. One-year, fixed-length, leave-replacement position. Qualifications: University-level teaching experience and Ph.D. required. Start Date: 9/1/96. Review of Applications: Will begin 5/15/96. Contact: Chair, English Literature Search Committee, English Department, University of Maine, Orono 04469-5752.

Chief Financial Officer. Office of the President. Fiscal-year appointment. Qualifications: Master's degree in related field such as business, finance or administration; doctoral degree desirable. Should have extensive and successful experience in the financial management, supervising the business services and human resources aspects of a large enterprise, preferably an academic institution. Should have demonstrated knowledge and understanding of fiscal management systems, affirmative action and equal opportunity, collective bargaining, grievance procedures, workers' compensation and other aspects of human resources; excellent oral and written communication and strong interpersonal skills; and knowledge of the structure and function of a land-grant university desired. Salary: Negotiable, dependent on experience and qualifications. Review of Applications: Will begin 5/15/96 and continue until position is filled. Contact: Chair, Chief Financial Officer Search, Room 200, 5703 Alumni Hall, University of Maine, Orono, ME 04469-5703.

Assistant Dining Service Manager. Memorial Union Retail Operations. Full-time, fiscal-year position. Qualifications: College degree in hotel, restaurant and institutional management or culinary arts. Demonstrated quality management and supervisory experience, excellent communication skills and culinary knowledge. Ability to speak clearly and listen attentively to employees and customers; ability to stand and exert well-paced mobility periods up to four (4) hours in length; and ability to lift up to 65 pounds in weight. Salary Range: \$24,000-\$26,000. Review of Applications: Will begin 5/15/96 and continue until position is filled. Start Date: 7/1/96. Contact: Jon Lewis, Chair, Search Committee Dining Service Manager, MURO, University of Maine, Suite 101, 5734 Hilltop Commons, Orono, ME 04469-5734.

Assistant/Associate Professor. Department of Forest Management. Nine-month, tenure-track position. Qualifications: Ph.D. with one degree in forestry and one degree in forest engineering, wood science and technology, or closely related field. Knowledge of forestry operations is essential and knowledge of industrial forestry operations is highly desirable. Salary Range: Commensurate with qualifications and experience. Start Date: 1/1/97. Application Deadline: 9/1/96 or until a suitable candidate is found. Contact: David Field, Chairperson, Department of Forest Management, College of Natural Resources, Forestry and Agriculture, University of Maine, Orono, ME 04469-5755.

The University of Maine does not discriminate on the basis of race, color, religion, sex, sexual orientation, national origin or citizenship status, age, disability or veteran status, and promotes affirmative action for women, minorities, persons with disabilities and veterans. Unless otherwise specified, the jobs are full-time and the address for the application information is: the contact person listed, department, University of Maine, Orono, ME 04469.



The University of Maine Chapter of the national Scabbard and Blade military honor society is composed of students in Navy and Army ROTC who have been tapped for their leadership and academic achievement. Among the annual activities of the student group is the campus POW-MIA Vigil and the Veteran's Day Retreat Ceremony, as well as participation in a mentoring program with residents of the area veterans' home. In addition, the Scabbard and Blade coordinates the annual military ball, which was held last week. Historically, Scabbard and Blade students often get first branch and duty choice. Among this year's members is one student who served active duty in Somalia. The members are, back row, left to right, Jayson Stewart, Dean Martin, Jack Fay, Rick Footer, Arthur Mathisen; front row, left to right, Kevin Otenti, Terry Stewart, Rob Brewer and Steve Miskinis. The UMaine Scabbard and Blade advisor is Major Wally Smyth.

UMaine Extramural Awards

Daniel Sandweiss of the Department of Anthropology and the Institute for Quaternary Studies has been awarded \$19,000 by TIMEX Corp., for his research in Peru: "Archaeological Investigation of the Earliest Known Maritime Adaptations in South America." Sandweiss will receive \$11,000 this year and \$8,000 in 1997 through the newly established Peruvian Archaeological Research Fund to excavate and analyze the remains from the Quebrada Jaguay site on the south coast of Peru. Preliminary radiocarbon dates show this to be the oldest known shell midden in South America, and the research there is expected to shed light on the earliest use of marine resources by ancient Native Americans.

Stephen Norton, Therese Anderson and Richard Bindler of the Department of Geological Sciences have been awarded \$7,145 from the U.S. Geological Survey for a project: "Historical Trends in Mercury Deposition to Aquatic Environments in Maine." Information about mercury concentrations will be collected from lake sediment cores taken in Maine. Data will be analyzed to determine historical trends in the deposition of mercury in Maine.

Terry Haines and John Moring of the Department of Zoology have been awarded \$55,061 and \$25,396 (both year 1) from the National Biological Service and the National Park Service, respectively for a project: "Sources, Fate, and Effects of Mercury in Aquatic Systems at Acadia National Park, Maine, and Cape Cod National Seashore, Massachusetts." The researchers will characterize the extent of mercury contamination in fish and piscivorous wildlife species in Acadia National Park and the Cape Cod National Seashore, and assess the environmental factors controlling mercury bioavailability to aquatic organisms.

Alan White, Bill Livingston and Michael Greenwood of the Department of Forest Ecosystem Science, and **Keith Hutchison**, Department of Biochemistry, Microbiology and Molecular Biology, have been awarded \$33,208 from the USDA Forest Service Northern Global Change Research Program for a project: "Potential Changes in Species Distribution Patterns: Implications of Current Range Limits." Researchers will study factors which determine the response of pitch pine and jack pine to changes in climate. Collaborators include John Brissette, head of the U.S. Forest Service unit in Orono, and Laura Conkey of Dartmouth College.

Maine Perspective classified ads are published weekly and are free to faculty, staff and students at the University of Maine. Ads must be typewritten and include a telephone number. They will be published one week only unless otherwise specified. Send ads to: Maine Perspective Classifieds, Public Affairs. Ads must be received by 9 a.m. the Friday before they are to appear in the next week's issue.

FOR SALE

AUTOMOBILE: 1987 Honda Civic, 4-door, 5-speed, A/C, cassette. New tires, recent front end work. Very clean and well maintained. 133,000 miles. \$2,600. Call John, 947-4159, evenings.

AUTOMOBILE: Subaru Loyale Station Wagon, 4WD, automatic, very good condition, sunroof, tape deck, electric windows and locks, luggage rack. 80,000 miles. \$5,250 or BO. Call 945-2989, evenings.

AUTOMOBILE: Sports car: 1979 Datsun 280ZX 2+2, 90K. Very good condition, stored winters, never driven in snow or salt. Must sell. \$2,500/BO. 866-2655.

AUTOMOBILE: '87 VW Fox. 100,000 miles. With some repairs will make a good car for a student. Some rust damage. Asking \$700 but will take the BO. Call 989-3092.

BICYCLE: Trek 720 Multitrack, 23" cromoly frame, blue; ATB handlebars, Blackburn rack and new tires; 4 years old, well-maintained. Great for road or light off-road; \$150. Call eve, 866-0051.

HOUSE: Four BRs, 2 baths with large living, recreation and family rooms, kitchen with built-ins and all conveniences, finished laundry and office/computer rooms. Fireplace, hardwood floors, attached garage and porch. Baseboard hot water heat. Municipal water and sewer. New paint inside and out. Custom-built for current owner with many attractive features. Superb location within easy walking distance to schools, downtown, Stillwater River and Orono Land Trust. No brokers or buying agents. Call 866-2656, eves for more info.

HOUSE: Faculty member relocating to New Orleans. This attractively remodeled home is located at 388 College Ave., a 2-minute walk from campus. Many hardwood floors, fireplace, and 3 BRs on first level. Potential exists for supplemental income from a basement bedroom and bathroom, with a separate entrance. Contact Scott, 866-3677, or stthomas@acadia.net, for appointment. Asking \$115,000.

HOUSE: Five-year-old Orono house 6 miles from UMaine, 1 mile from Bangor. Four wooded acres landscaped with apple trees, nut trees, organic garden and a stream. Tri-level with red cedar siding. Seven apartment-sized rooms and 2 full baths, oak cabinet kitchen, living room with raised heart granite fireplace, DR to a pressure-treated deck. 3 BRs with master bedroom, a private full bath. Large family room on lower level with a wood stove. Insulated, heated 2-car garage. Private drilled well and circular gravel driveway. Less than a mile from Pushaw Lake on Outer Essex Street. Call for a showing, 942-2945. Priced at \$122,900.

HOUSE: Three-BR cape with large rooms, wood floors, and hot water heat. 1 acre on Stillwater River, one mile to UMaine. Walk, bike, kayak or cross-country ski to campus. Call 827-0083 for open house times or appointment.

MOBILE HOME: 14'x70' Zimmer, vinyl sided, shingled roof, and front deck. 2 bedrooms, 1 1/2 bath, fireplace, storage shed, on a quiet, wooded lot in an attractive park 2 miles from campus. 1owner, very good condition. Asking \$15,900; accepting offers. Call 941-0054.

MOUNTAIN BIKE: 18-speed men's style, shimano system. Stored inside and used only inside with L.L. Bean stationary cycle attachment. Bike, stationary attachment, helmet—\$250 firm. Call Betty, 255-3345 (day) or 255-8122 (evening).

SQUIRT KAYAK: The ENIGMA. Fantastic boat for playing. Does great Stern and Bow Squirts. \$325. Call Zack. 866-5509.

WOOD STOVE: Alpine, 30"x26"x22", excellent quality and condition. Use as fireplace insert or stand-alone. Perfect for your camp or home. \$300. Call 866-5548, evenings.

FOR RENT

APARTMENT: One-BR in excellent condition in quiet Orono neighborhood. LR, full bath and modern kitchen, range/stove, refrigerator, W/D, off-street parking, snow plowing, half-mile from campus. \$480/month includes utilities. Reference/security required. Non-smokers only. Call evenings, 866-5983.

APARTMENT: Large, clean 1 BR on east side of Bangor. Parking, W/D hookup, one block from Chapin Park, 2 blocks from Orono bus route. \$350/month (includes heat, water and sewer). Tenant pays electricity and propane. Non-smokers, pets negotiable. Call 942-7544.

APARTMENT: Beautiful upstairs apartment in Old Town historic house. Available for September. Includes 2 spacious BRs, LR, sun porch, eat-in kitchen, family-size bathroom, and half of 2-car garage. Access to attic provides ample storage. Near laundromat, off bus route to campus. Call Steve, 827-8420.

APARTMENT: Well-maintained 1-BR apartment in quiet setting. Good for studying, SGC overlooking the Penobscot River, 10 minutes from campus. \$350/month, includes heat and water. References and security deposit required. Call 827-7017.

APARTMENTS: Bradley. Large, spacious, well-maintained 1-BR apartments in quiet country setting approx. 7 miles to Old Town/Orono. Rents start at \$300/month plus utilities. Applicant must meet certain income guidelines. 30-day lease and security deposit required. Call 827-7998 after 5 p.m.

HOUSE: Available June 1. Lovely 2-BR on very quiet dead-end street. LR, DR, laundry room, kitchen and bath. Private fenced backyard, paved driveway and 1-car garage. Home is bathed in sunlight. The rent is \$600/month, heat included. Home is close to schools, shopping, downtown Bangor and Brewer, and close to I-395. No lease but a 1-year renewable lease can be implemented. Non-smokers only. References required. Call 989-1348 after 5 or leave message.

ROOM: Orono, available June 1. Lovely modern home in woods near busline. Share kitchen and laundry room. Off-street parking, storage area, pets allowed. Non-smokers only. Rent \$250/month plus utilities. We will reduce your rent in exchange for household chores, 866-5548, evenings.

WANTED

HOUSE: Seeking home with large lot for garden, in-town or within 30 minutes of Bangor/Orono. Waterfront also desirable. Call Roy, 581-3909 or Elise, 581-3943, or send e-mail to rmt@umcs.maine.edu.

SURPLUS SALE: The University of Maine offers for sale, on an as-is where-is basis, the following: (1) GATEWAY 486 COMPUTER, 4DX-33, with 4 MB RAM and 210 MB hard drive, \$500 (DEPTS ONLY!); (1) ROLLTOP COMPUTER WORKSTATION, top locks, listed at \$450 on p.103 of Transco Showroom Catalog, \$175; (1) EPSON FX 86E PRINTER, dot matrix, \$30; (1) 486 SLC 25 LAPTOP COMPUTER, Avanti notebook, 4MB, 120MB hard drive, internal fax modem, 1 yr old, \$700; (1) CAMCORDER BATTERY, new-never used, rechargeable, for JVC, Panasonic or other grip type, \$45; (1) AB SWITCH BOX, \$10.

NOTE: For more current updates see Maine.forsale on NETNEWS under "UNIVERSITY SURPLUS." If you need help, call me.

Off-campus inquiries are welcome. Items usually sell for the prices specified, however, lower offers are sometimes considered. For further information contact Ron Logan, Purchasing Dept., 581-2692. E-mail Logan@Maine.

Directory Changes

E. Paul Carroll, Research Shops Coordinator, Bio-Resource Engineering, 5710 Bio-Resource Building. 581-2713. E-mail: PCarroll.

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Pulling Up Anchor *continued from page 9*

succinct, no one would pay attention. Knowing the small attention spans of people above you, what normally was written in five pages had to be done in two paragraphs."

A graduate of the U.S. Naval Academy, Rauch's first command was in 1960 as the officer of an attack nuclear submarine, and two years later, a ballistic missile nuclear submarine. In 1968, he was in Vietnam as senior staff officer under the Commander of U.S. Naval Forces in Vietnam. The next year and a half was a critical time.

"Our activities in Vietnam in 1968-70 are very important to me," says Rauch. "My boss was Admiral Elmo Zumwalt and our responsibility was the expansion and modernization of the Vietnamese navy. When Admiral Zumwalt got over there, he figured the best thing for us to do was to turn our assets over to Vietnam. He had the idea before Lyndon Johnson told us to. We built their navy up from 17,000 to 40,000 in the year and a half I was there. We gave them almost all of the rivercraft, most of the small 50-foot swift boats to do inner-coast patrol, and 10-20 or more larger ships like destroyer escorts. We set up a school to teach personnel how to use our equipment and to speak English. Most of the Vietnamese Navy recruits had learned English in high school but had no experience in oral communication. They did very well."

The Vietnamese navy carried out missions like the evacuation of refugees from the north to Saigon. But then there were operations undertaken that surprised even the U.S. officials. "Unknown to us in 1975, when Saigon fell, the Vietnamese Navy had a contingency plan that it carried out. The night of the surrender, 10,000 Navy dependents were loaded onto seaworthy vessels in the middle of the night that sailed from Saigon and other ports. They formed a fleet, radioed the U.S. Navy that they needed escorts and steamed into Subic Bay where they hauled up the American flag and turned over the ocean-capable ships to the U.S.

"It is not a well-known event because it didn't affect the outcome of the war," Rauch says. "It is nonetheless remarkable because, instead of leaving a bunch of equipment around as many units in the other services did, they had a contingency plan. Those 10,000 refugees then got on a plane in Guam and headed to Arkansas. Everybody who was over there felt bad about losing the war. When you put years of your life into helping a country, and then have it fail from lack of logistic support, the fact that so many were able to escape helped. A lot of our good friends ended up back in this country doing good things."

It was in Vietnam, Rauch says, that his view was confirmed about the importance of people, regardless of their differences. "Living in Vietnam, I got an appreciation for working with people of different cultural backgrounds. I had confidence in human beings. It also was exciting working for some fabulous people during my Naval career, starting with Arleigh Burke, and then Hyman Rickover and Zumwalt. The other person on that list should be Chon, the head of the Vietnamese navy. Burke was a role model, but I was close to Chon and Zumwalt."

In 1972, Rauch was named rear admiral. For the next five years, he directed the Navy's Human Resource Management Programs, including overseeing the organization of the Navy's Human Resource Management Support System that integrated Navy-wide efforts in such areas as leadership and management, equal opportunity, race relations, and drug/alcohol abuse control and rehabilitation. The key, says Rauch, was to establish a good balance between concern for the job and concern for people. For his efforts, Rauch received the second Navy Distinguished Service Medal, the Navy's highest non-combat award.

In 1976 at the age of 51, Rauch left the military and headed to

higher education. Like the military, higher education was an area of fascination for him. And it was a logical next step.

"Most people don't realize that the military in peacetime is nothing more than a big training organization," he says. "Even in war, people are being trained to be able to do something when certain conditions exist. Education is different than training, but you're still trying to help people learn."

As a Ph.D. student in organizational behavior at Ohio State, Rauch taught courses normally taught by faculty. He received an MBA in 1980 and the following year joined the UMaine faculty as assistant professor of management in the College of Business Administration.

"I wanted to teach and eventually get into higher education administration," Rauch says. "There was a time in my life when I thought it would be neat to be president of a university. Once I saw what they had to do to keep constituents happy, I didn't have that desire anymore. Also, I'm not a good fund-raiser."

But while fund raising may not be his forte, finance is. In 1984, Rauch was tapped to be acting director of financial management for the University. His one regret was losing the extensive association with students. "Every administrator I have ever known who gets discouraged from time to time gets recharged by talking with students," he says. Perhaps that's why Rauch continued to teach a graduate course each semester for several years.

Rauch came on board during what many consider to be a golden age of the University, in financial terms. What he quickly learned is that no matter how many fiscal resources are available in higher education, there is always a scarcity. "In retrospect, we had a lot in the '80s, but people still didn't think they had enough. Dale (Lick) was always starting new programs with no money, and we always figured out a way to finance them. We thought we had been poor for a long time because (Gov.) Longely took some money away and for the next couple years, the University was level-funded. In the 1980s, we got that money back and we got ahead, but we had a president who used it as fast as we could get it, and kept encouraging us to get more. I don't fault Dale, but his theory seemed to be to keep the money in motion, doing as many projects as possible. When the cuts came, we had to take them out of our hide."

Rauch's memories of his years as chief financial officer are not all marred by economic downturns and budget cuts. "The greatest time I remember at the University was at the end of the Visiting Committee's time when they promised \$8.4 million," he says. "They gave us \$6.4 million, while holding \$2 million in escrow, insisting we do a comparison study of peer institutions. I did that study with a graduate student to break the \$2 million loose."

Despite the monetary wrangling, Rauch says he believes in higher education, but also notes that major changes will have to be made to ensure survival. "Higher education will have to be a little more customer-oriented than it has been in the past," he says. "The customers in our case are the students and their families, as well as the people of the state. I think we have to gain back some trust. People see institutions of higher education as places that use a lot of money and they're not quite sure what they're getting for it. There was a time we had that trust more than we have it now. There have been too many years that students have seen costs going up and up and really haven't seen an improvement in the product they're getting. I think something has to change that." ▲



Spencer Foundation, supporting research for the improvement of education, makes Mentoring and Communications Grants of up to \$15,000 to enhance the research expertise of educational practitioners and to assist them in developing communities of inquiry. Partnerships between practitioner-researchers and university-researchers are eligible. Deadlines: June 1, Dec. 1.

International Research and Exchanges Board awards up to \$3,000 for visits to Central/Eastern Europe, Eurasia, and Mongolia for research and other scholarly projects in humanities and social science disciplines. Deadline: June 1.

Rockefeller Foundation's Bellagio Center on Lake Como, Italy, provides one-month residencies for scholars and artists to work on a book, monograph, major article, musical composition, or other creative project. The Center also hosts small conferences on problems or topics of international significance. Deadlines for both programs: June 1, Sept. 1, Jan. 3.

National Science Foundation's program of Collaborative Research on Learning Technologies supports interdisciplinary research on the integration of technology with learning at all levels of education, and from learning in the classroom to self-directed and lifelong learning. Preliminary proposals are due June 1; full proposals, July 15.

U.S. Fish and Wildlife Service makes grants to address national or regional needs in the general areas of management, education, outreach, research, and administration of sport fish and wildlife restoration programs. The FY96 solicitation identifies 30 priorities. Deadline: June 1.

ArtsLink invites applications to host a five-week residency for one of 50 artists and arts managers selected by ArtsLink from Central/Eastern Europe and the Newly Independent States. Host institutions receive grants to cover costs. Deadline: June 3.

Substance Abuse and Mental Health Services Administration will award FY96 cooperative agreements to develop and apply knowledge to improve prevention and treatment of substance abuse and mental illness. Among the priorities identified are studies of vulnerable populations and managed care, homelessness prevention, and predictor variables by developmental stage. Deadline: June 10.

For more information, call Research & Sponsored Programs, x1476.

MEMORIAL UNION BUILDING HOURS

May Term and Summer Session

Building: Monday–Sunday, 7 a.m.–9 p.m.

Bookstore: Monday–Friday, 8 a.m.–4:30 p.m.

May 13–14, 8 a.m.–6 p.m.

June 1, 10 a.m.–4 p.m.

June 3–4, 8 a.m.–6 p.m.

Closed weekends, May 27, July 4 and May 28–30.

Computer Cluster: Monday–Friday, 8 a.m.–9 p.m.; Weekends: 10 a.m.–9 p.m.; Closed May 27 and July 4.

Food Service:

Damn Yankee/Taco Bell, May 13–Aug. 17, 10 a.m.–6 p.m. daily.

Bear's Den, 7 a.m.–1:30 p.m. daily.

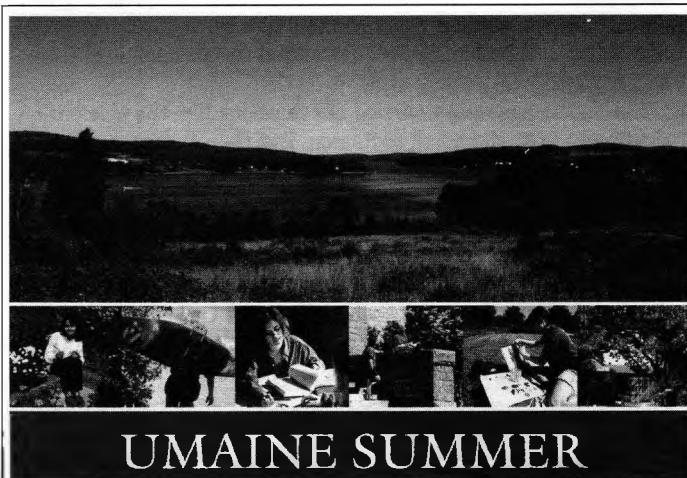
Coffee Shop closed.

Maine Bound: Monday, Tuesday, Thursday, 10 a.m.–4 p.m.; Friday, 10 a.m.–6 p.m. Closed Wednesdays and weekends.

Newscounter: Monday–Friday, 7:30 a.m.–4 p.m.; Closed weekends, May 27, July 4 and June 28.

Professional Offices: Weekdays, 8 a.m.–4:30 p.m.; Closed weekends, May 27 and July 4.

Credit Union Branch Office: Closed.



UMAINE SUMMER

For a 1996 Summer Session Catalog describing over 500 courses with 16 calendars of three-, five-, six-, and eight-week day and evening courses, call the UMaine Summer Session Office, 581-3142 or e-mail CEDSS@maine.maine.edu.

What's Ahead



**RECEPTION TO HONOR
REV. DEBORAH ADAMS AND
SISTER CAROLE JEAN LAPPA
3 p.m., Wednesday, May 1,
Totman Lounge, Union.
866-2155.**

**FINALS
May 6–10**

**COMMENCEMENT
May 11**

**SUMMER SESSION BEGINS
May 13**

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