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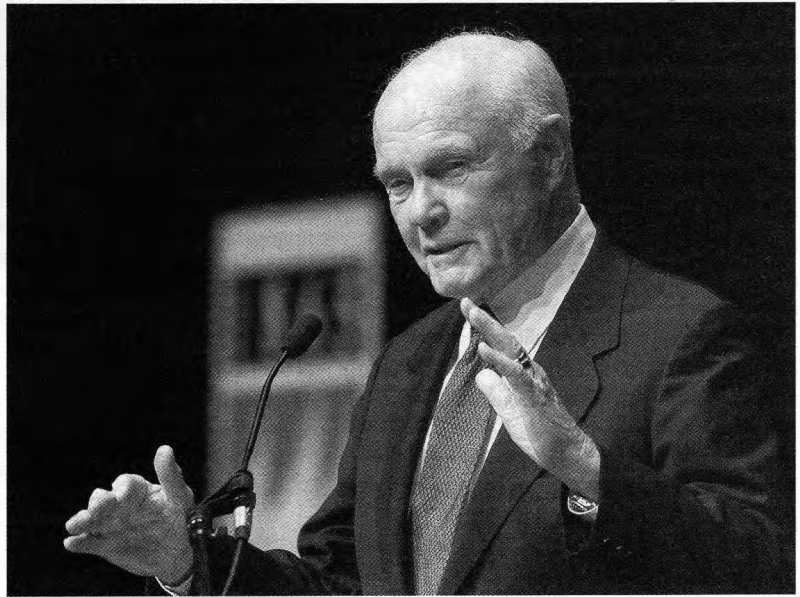
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Former U.S. Senator and astronaut John Glenn spoke to an audience of 1,500 May 1 in Hutchins Concert Hall when he delivered UMaine's third William S. Cohen Lecture.

The lecture series is a function of the William S. Cohen Center for International Policy and Commerce in the College of Business, Public Policy and Health. Former Secretary of Defense Cohen also spoke at the event. Before the lecture, Glenn visited Boardman Hall, where he was briefed on three NASA-related research projects in the College of Engineering.

Photo by Monty Rand



Wyeth, Grumbach to Receive Honorary Degrees

Nearly 1,200 people will receive degrees at the University of Maine's 198th Commencement, scheduled for Saturday, May 19, at 10:30 a.m.

The event, which is expected to draw more than 10,000 friends and family members of the graduates, is scheduled to be held outdoors at Harold Alfond Sports Stadium.

The Commencement Address will be given by Andrew M. Mead, chief justice of the Maine Superior Court. Mead, a New Jersey native who graduated from UMaine in 1973,

was an attorney in private practice until he became a Maine District Court judge in 1990. He moved to the Maine Superior Court as a justice in 1992 and was named chief justice in 1999. Mead was president of his class at UMaine in both 1971 and 1973.

Honorary doctor of humane letters degrees will be awarded to two internationally prominent members of the Maine arts community – writer Doris Grumbach and artist Jamie Wyeth.

Grumbach, one of America's most distinguished author, has produced works in fiction, literary criticism, memoir and essay during her remarkable career. A former faculty member at American University and at the College of St. Rose, Grumbach has lived in Maine for the past 10 years.

Wyeth, a member of one of the world's most famous and successful families of artists, presented his first show in New York City in 1966. His wide-ranging career has featured works in watercolors and oils, as well as sketches and illustrations for children's books. Wyeth's best-known works include a posthu-

mous portrait of President John F. Kennedy. He is also known for his commitment to causes like the preservation of Maine lighthouses.

UMaine's May commencement ceremony, historically the largest graduation ceremony held in the state, will feature the awarding of bachelor's, master's and doctoral degrees. UMaine holds a similar but smaller commencement ceremony each December, at which 350-500 degrees usually are awarded.

As has been the custom at UMaine for several years, the names of students participating in commencement will be announced as they take the stage to receive their diplomas. UMaine President Peter Hoff will continue the tradition of shaking hands with many of the graduating students receiving degrees.

Hoff will preside over the ceremony, which will also feature recognition of the valedictorians and salutatorian from the UMaine Class of 2001.

Ryan Anderson, a member of the University of

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The 198th Commencement is 10:30 a.m., Saturday, May 19, Alfond Sports Stadium. In the event of inclement weather, two ceremonies will be held in Alfond Sports Arena.

In Perspective

2 Faculty Awards

10 First Computer Science Ph.D.

11 Valedictorians, Salutatorian

13 Outstanding Graduating Students

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



Faculty recognized for outstanding achievements

The four highest awards to University of Maine faculty were presented at the Academic Honors Convocation April 30.

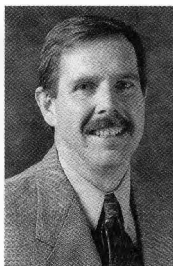
This year's Distinguished Maine Professor is Keith Hutchison, associate professor of biochemistry and the 1999 UMaine Presidential Outstanding Teaching Award recipient. The annual award by the Alumni Association recognizes outstanding achievements in teaching, research and public service.

The Presidential Public Service Award was presented to Ann Schonberger, director of Women in the Curriculum and Women's Studies. The recipient of the Presidential Research and Creative Achievement Award was Kevin Boyle, Libra Professor of Environmental Economics. Receiving the Presidential Teaching Award was Professor of Education Constance Perry.

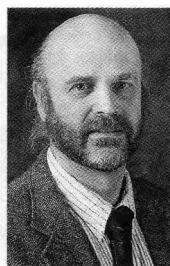
▼ Keith Hutchison joined the Department of Biochemistry, Microbiology and Molecular Biology in 1984, coming to UMaine from a position as a researcher at Jackson Laboratory. Prior to his arrival, he held an adjunct faculty position in biochemistry at UMaine, starting a long history of inter-institutional and interdisciplinary activity. Hutchison's research focuses on molecular genetics and regulation of development in plants and animals. He also studies genome structure and genome flux in response to the environment.

Hutchison, also a cooperating professor of forest resources and of biological sciences, is one of the founders of the conifer molecular genetics field. However, his interests and activities extend beyond that. At UMaine, he was an early advocate for establishing the Zebrafish Facility, where zebrafish are used in genetic/genomics studies to solve problems related to aquaculture, as well as human health. Hutchison recently coordinated the submission a \$7.5 million NIH COBRE grant proposal involving scientists from UMaine and Jackson Lab to create a Center of Excellence in Advanced Genome Technologies, focused on biological/biomedical research.

One of Hutchison's strengths is in bringing together scientists from multiple disciplines and institutions in an effort to make the research



Kevin Boyle



Keith Hutchison



Connie Perry



Ann Schonberger

capacity of UMaine and the state larger than the sum of its parts. An example is in the major role he played in establishing, and now coordinating, the statewide Molecular Genetics Ph.D. Program involving UMaine, Jackson Lab, Maine Medical Research Institute and the University of Southern Maine. Such efforts not only affect research on campus and throughout Maine, but also increase educational opportunities for undergraduate and graduate students.

Where Hutchison excels is in the classroom. Students consistently rate him as one of the best teachers they have had at UMaine, and he has been recognized for outstanding teaching by his department, college and the University. Hutchison's overriding philosophy is to push students as hard as he can, setting the bar higher than they think they can reach, then showing them how to reach it. In class, his lecture style is as important as the content he presents, based on the philosophy that an educator's job is to inspire student interest and curiosity, as well as to fill their heads with information. Hutchison demands much from the students in his courses, and his effectiveness is reflected by the large amount of effort that all his students put into his classes.

▼ Ann Schonberger has demonstrated distinguished public service achievement for more than two decades. Working collaboratively, and often behind the scenes, Schonberger has a long-standing commitment to connecting the academy to the community to bring about support for battered women, contributions to girls in math and

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MAINE PERSPECTIVE PUBLISHING SCHEDULE

This is the final issue of *Maine Perspective* this semester.

MAINE Perspective

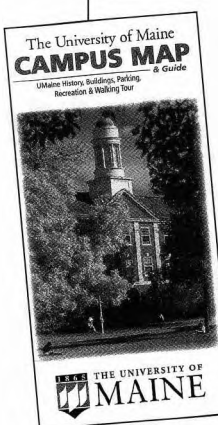
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Campus heritage maps now available

A new campus heritage map, highlighting historic landmarks and other points of interest, is now available.

The four-color map was developed by a group of UMaine faculty members and staff, including principal designer and cartographer Mike Hermann. The project was made possible by a \$7,500 gift from an anonymous donor through the University of Maine Foundation.

The map features short descriptions of many campus buildings and sights, notes distinguished accomplishments of alumni and faculty, and locates a selection of tree species on campus. The heritage map also outlines a walking tour of campus, all in an effort to convey the historic importance of the University.

Copies of the free maps are available to staff, students and faculty at the Information Center, Memorial Union.

Calendar

<http://calendar.umaine.edu>

MAINE

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

11 Friday

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

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

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

"Visitor Behaviors and Resource Impacts at Cadillac Mountain, Acadia National Park," by Rex Turner, candidate for master's degree in forestry, 2 p.m., May 11, 204 Nutting Hall. x3217.

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

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

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

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

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

12 Saturday

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

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

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

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

13 Sunday

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

Carmina Burana, performed by the University Singers, Oratorio Society, St. John's Youth choir, soloists and the Bangor Symphony Orchestra, part of the School of Performing Arts season, 3 p.m., May 13, Hutchins Concert Hall. Admission Fee. 942-5555.

14 Monday

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

"On the Co-Construction of Knowledge: An Interpretive Study Examining a Teacher Educator's Beliefs and Practices During a Course Intended to Improve Early Literacy Instruction," by Melissa Keenan, candidate for Ed.D., 8 a.m., May 14, 204 Shibles Hall.

15 Tuesday

"Mya arenaria (Softshell Clam) Gonadal Tumor Formation: Identification and Characterization of an E3 Ubiquitin-Protein Ligase and Its Possible Role in Tumorigenesis," by Melissa Kelley, candidate for graduate degree in biochemistry, 10 a.m., May 15, 104 Murray Hall. x3217.

GLBTQ: Coffee Talk, 7-8:30 p.m., May 15, 207 Little Hall. x1793.

17 Thursday

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

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

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

18 Friday

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

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

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

Army ROTC Commissioning Ceremony, 6-8 p.m., May 18, Devino Auditorium, Corbett Business Building. x1121.

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

19 Saturday

Commencement, May 19.

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

21 Monday

"Real Teachers Use Real Technology," a panel discussion with Sandra Caron, Gail Garthwait, Knud Hermansen, James Rog, Edward Jadallah and Sue Ester, part of Faculty Technology Week, 10 a.m.-noon, May 21, Dexter Lounge, Alford Arena. Registration required. x1925.

22 Tuesday

Faculty Technology Institute, in Augusta, transportation provided, leaving Orono 7:30 a.m., offered by UNET, part of Faculty Technology Week, May 22. Registration required. x1925.

VALIC Group Meeting for Employees, by Jane Brann, retirement planning specialist, 11 a.m.-3 p.m., May 22, 220 Corbett Hall.

The Color of Fear, film and discussion, offered by Diversity Across the Curriculum, 2-4:30 p.m., May 22, Soderberg Center, Jenness Hall. x4450.

Employee Recognition Banquet, with 25-year employees and Outstanding Employee award winners, 5:30 p.m., May 22, Wells Conference Center. Admission Fee. Registration required. x1640.

"Diversity in the 21st Century: Kinship and Multiculturalism," a keynote address by nationally recognized diversity trainer Victor Lewis, offered by Diversity Across the Curriculum, 7 p.m., May 22, Soderberg Center, Jenness Hall. Reception follows. x4450.

23 Wednesday

Fireworks 4.0, by Andrei Strukov, part of Faculty Technology Week, 9 a.m.-noon, May 23, Fogler Library classroom. Registration required. x1925.

Diversity Leadership in the 21st Century: Taking Advantage of the Particular Challenges and Opportunities Opening Up in Today's Changing Demographic Realities, a Diversity Training Workshop, offered by Diversity Across the Curriculum, 9 a.m.-5:30 p.m., May 23, Soderberg Center, Jenness Hall. Registration required. x4450.

Dreamweaver 4.0, by Owen Smith, part of Faculty Technology Week, 1-4 p.m., May 23, 215 Little Hall. Registration required. x1925.

Employee Retirement Banquet, 5:30 p.m., May 23, Wells Conference Center. Admission Fee. Registration required. x1640.

24 Thursday

"Copyright Issues," by Susan Lowe, part of Faculty Technology Week, 9-11 a.m., May 24, Mahogany Room, Wells Conference Center. Registration required. x1925.

Blackboard, by Gail Garthwait, part of Faculty Technology Week, 1-4 p.m., May 24, 215 Little Hall. Registration required. x1925.

Annual Campuswide Coffee Break, for night shift employees, 10-11 p.m., May 24, Wells Conference Center. x1640.

25 Friday

Annual Campuswide Coffee Break, for daytime employees, 9-10 a.m., May 25, Wells Conference Center. x1640.

WebCT, by Andrei Strukov, part of Faculty Technology Week, 9 a.m.-noon, May 25, Fogler Library classroom. Registration required. x1925.

Ongoing Events

Exhibits/Demonstrations/Tours

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

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

Echoes Across the Himalayas, a Hudson Museum exhibit, June 19-Sept. 1, Maine Center for the Arts. x1901.

Other Faces: The Mask Collection of Marti Stevens, a Hudson Museum exhibit, June 19-Sept. 1, Maine Center for the Arts. x1901.

Meetings of Groups/Organizations

Farmers' Market, 8 a.m.-1 p.m., every Saturday (also 2-5:30 p.m. every Tuesday, July 10-Oct. 30), Steam Plant parking lot. 827-2225

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

Intro to Web Publishing with Netscape Composer, by Andrei Strukov, part of Faculty Technology Week, 1-3:30 p.m., May 25, 215 Little Hall. Registration required. x1925.

June

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

8 Friday

Reunion Weekend Begins, June 8. x1135.

9 Saturday

Reunion Weekend, June 9. x1135.

10 Sunday

Reunion Weekend, June 10. x1135.

14 Thursday

Special Olympics Summer Games, June 14, Morse Field, Alumni Stadium. x4092.

15 Friday

2001-02 Summer Orientation, for students in the College of Education and Human Development, and the College of Liberal Arts and Sciences, offered by New Student Programs, June 15, Maine Center for the Arts. x1590.

Special Olympics Summer Games, June 15, Morse Field, Alumni Stadium. x4092.

16 Saturday

2001-02 Summer Orientation, for students in the College of Education and Human Development; College of Liberal Arts and Sciences; ACE Program; and College of Business, Public Policy and Health, offered by New Student Programs, June 16, Maine Center for the Arts. x1590.

Special Olympics Summer Games, June 16, Morse Field, Alumni Stadium. x4092.

17 Sunday

2001-02 Summer Orientation, for students in the ACE Program; College of Business, Public Policy and Health; College of Engineering; and the College of Natural Sciences, Forestry, and Agriculture, offered by New Student Programs, June 17, Maine Center for the Arts. x1590.

Special Olympics Summer Games, June 17, Morse Field, Alumni Stadium. x4092.

18 Monday

2001-02 Summer Orientation, for students in the College of Engineering and College of Natural Sciences, Forestry, and Agriculture, offered by New Student Programs, June 18, Maine Center for the Arts. x1590.

22 Friday

2001-02 Summer Orientation, for students in the College of Engineering and ACE Program, offered by New Student Programs, June 22, Maine Center for the Arts. x1590.

23 Saturday

2001-02 Summer Orientation, for students in the College of Engineering; ACE Program; College of Education and Human Development; and the College of Natural Sciences, Forestry, and Agriculture, offered by New Student Programs, June 23, Maine Center for the Arts. x1590.

24 Sunday

2001-02 Summer Orientation, for students in the College of Education and Human Development; College of Natural Sciences, Forestry, and Agriculture; College of Liberal Arts and Sciences; and the College of Business, Public Policy and Health, offered by New Student Programs, June 24, Maine Center for the Arts. x1590.

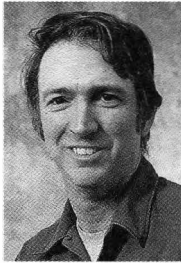
25 Monday

2001-02 Summer Orientation, for students in the College of Liberal Arts and Sciences, and the College of Business, Public Policy and Health, offered by New Student Programs, June 25, Maine Center for the Arts. x1590.

Maine Perspective keeps an electronic calendar listing on-campus University of Maine events for the academic year that have been submitted for inclusion. If you have events scheduled, send your listings to Maine Perspective.



Jane Bartram



Joe Cannon

CEAC recognizes two longtime employees

Joseph Cannon, facilities and fields coordinator at Rogers Farm, and the Jane Bartram, the secretary in the Men's Basketball Office, have been selected to receive the 2001 Classified Employee Awards.

The awards, sponsored by the Classified Employees Advisory Council (CEAC), will be presented at the annual Employee Recognition Banquet on May 22.

Cannon first joined the University community in 1978. As farm facilities and fields coordinator, Cannon is responsible for keeping Rogers Farm running. He maintains equipment, manages the fields – from fertilization and planting to harvesting – and interacts with the many members of the University community who work at Rogers Farm – from undergraduates on work study to graduate student and faculty researchers. Cannon also works with master gardeners from Cooperative Extension and students of the Black Bear Food Guild. All know they can rely on Cannon's expertise and assistance.

Safety is a top priority for Cannon. He goes out of his way to effectively train and educate faculty, staff, students and volunteers who come to Rogers Farm. His tractor safety training class is described as second to none, and he is always on the lookout for ways to increase safety at the farm. He truly believes that safety is an integral part of running a busy farm.

Cannon also is known for his "can do" attitude, attention to detail and problem-solving skills. Colleagues describe him as a pleasure to work with. The consideration and concern he shows contributes to high morale and is especially important "when it's 98 degrees, no breeze and we have to pick weeds all day," noted one of his nominators, who worked for Cannon as a work study student.

Bartram has been an employee in the University of Maine System for 22 years, the last four of which have been as part of the Men's Basketball program. She has enhanced recruitment efforts through management of the program's databases, mailings, letter writing, record keeping and travel planning. Bartram also serves as a well-respected liaison between student-athletes and members of the coaching staff.

Beyond her in-office responsibilities, Bartram dedicates countless personal hours to volunteer for many Men's Basketball activities. She has been essential to the success of post-game receptions, the program's annual banquet, welcome-back picnic and golf tournament. In addition, she twice organized a bus trip to the America East Basketball Tournament for UMaine fans. According to her nomination, Bartram constantly works in the background to ensure such events are organized and effective.

Bartram is known for her work ethic, enthusiasm and positive personal skills, all of which contribute to the Men's Basketball program and the Athletics Department. ▲

Calendar of campus events being compiled for fall

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



A 1962 photo shows Richard Emerick demonstrating an outrigger canoe model from the original anthropology museum, housed on the third floor of South Stevens
Photo by Jack Walas

Endowment honors vision of museum's founder

For more than four decades, Richard Emerick has helped young people understand the world around them. Initially, they were UMaine students enrolled in the University's first introductory course in anthropology. Through the years, children of all ages benefitted from his commitment to creating an anthropology museum.

He did it, he says, to reach them.

"The Hudson Museum is where more than 76,000 people come to visit each year, including 3,500 school children and 900 UMaine students," Emerick says. "Even in the youngest school groups, there are children who aren't serious about being here. But there are some you know the museum is reaching, just by the way they stand and look at the exhibits.

"The museum is the place where the people of Maine can see and touch the wonder and the splendor of the human experience – things people of the world have made, used, loved and held in awe, and proudly left for us to gently care for and gratefully learn from," he says.

Emerick spent his academic career at UMaine. What began as a classroom display of his ethnographic collections from the Arctic, Oceania and the American Southwest grew by 1964 to be an anthropology museum on the third floor of South Stevens Hall. With construction of the Maine Center for the Arts in 1986, the Hudson Museum became a reality.

Last year, in recognition of the vision and contributions of the museum's founding director, the Hudson Museum Advisory Board established the Richard Emerick Endowment Fund. The endowment fund has a \$1 million goal, with \$16,000 raised to date. It is the largest endowment established on behalf of the museum.

"Such a fund is an important step in our growth as a professional museum," says Hudson Museum Director Steve Whittington. "Museums everywhere have created endowments to support programs and exhibits, and to allow more flexibility in public offerings. The ultimate goal is to create a stable source of reliable income year after year.

"We're pleased with the progress so far, even without widespread publicity about the fund," Whittington says.

Emerick retired from the University in 1991. He continued to teach

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Professional employees cited for achievements

An assistant scientist in the School of Marine Sciences and a biology laboratory coordinator will receive this year's Professional Employee Achievement Awards.

Neil Greenberg and Kevin Tracewski will be honored for their contributions to the quality, diversity and overall mission of the University at the annual Employee Recognition Banquet on May 22. The awards, now in their 20th year, are sponsored by the Professional Employees Advisory Council (PEAC).

Greenberg, a member of the University community since 1994, provides professional support for the Fisheries and Aquaculture Research Group (FARG). In this capacity, he is the building manager for the Aquaculture Research Center, where he oversees the design, construction and operation of a variety of cold-water systems used in research. He regularly presents lectures to undergraduate and graduate students, directs facility tours and provides technical assistance to faculty in the School of Marine Sciences.

Greenberg works closely with researchers in many academic departments to develop facilities necessary for the cultivation of many species of experimental organisms. He supports efforts to keep aquatic organisms, such as zebrafish, alive and healthy for the ongoing research of faculty. His expertise was tapped when UMaine recently acquired the fish hatchery in Franklin.

In addition, Greenberg serves on the Institutional Animal Care and Use Committee (IACUC) and the Safety Committee of the College of Natural Resources, Forestry, and Agriculture.

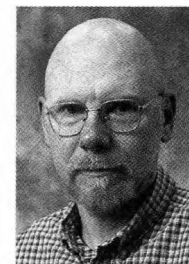
In his nomination, Greenberg is cited for his enthusiasm and excitement in carrying out any project or responding to any request. "In short, he is the miracle man," said one nominator. "He has an uncanny ability to make things happen with little or no resources."

Tracewski has been a member of the Department of Biological Sciences since 1986. He is the coordinator of several large introductory biology laboratories for three undergraduate biology courses that enroll close to 1,000 students a year. Tracewski also is a BIO 100 instructor. Both responsibilities require him to understand a wide range of biology, train teaching assistants, and administer logistics of the laboratories – from ordering supplies to preparing lab manuals and maintaining equipment. His efforts reflect his commitment to

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Neil Greenberg



Kevin Tracewski



Art, Culture and Community

This semester, a new topics course in art education, AED 474/574 – Art, Culture and Community, involved 14 UMaine students in community-based art projects in Orono, Old Town and Bangor. At Boyd Place at Phillips-Strickland House, Kay Morin, left in top photo, shares a laugh with UMaine student Susan Bryand, one of four students teaching art classes for the elderly residents. In University Park (photo bottom left), UMaine students, left to right, Christine Chadwick, Penny Ricker, Laura Mass and Suzanne Hussey provide the paint and encouragement as area youngsters make the neighborhood bus stop into a unique work of art. And at Manna, six students, including Eric Hutchins, foreground, and Bill Foster, paint a mural on an interior wall of the soup kitchen, with youngsters in the community adding their fingerprints for the final touch. The Art, Culture and Community course is taught by Associate Professor of Art Laurie Hicks.

Photos by Monty Rand and Margaret Nagle



Donation to brighten Learning Center

Katherine Miles Durst, professor emerita of child development, has made a significant gift to help rejuvenate a campus landmark dear to her heart and profession.

"Kaye," who began her career at UMaine in 1946, has targeted her \$150,000 donation toward renovation of the Child Development Learning Center in Merrill Hall. Child-centered remodeling of the space housing the nursery school and state-approved kindergarten is expected to get under way this summer. The playground will also get a fresh look, including new equipment.

The Child Development Learning Center is one of the oldest campus-based nursery schools in the country, dating from the 1920s. It has been located in Merrill Hall since 1931.

"Education comes first in Kaye's mind. She has always been encouraging and very generous in helping students discover and attain their potential," says Jeanne Soule, head teacher at the Learning Center since 1976. In June, Soule will retire after 29 years at UMaine.

Durst, who retired in 1969, spent more than 20 years teaching and doing research in early childhood development and running the nursery school programs. As a UMaine student, Soule remembers Durst playing the piano and singing a seemingly endless repertoire of songs that called for creative participation by the children.

The gift is particularly timely as the College of Education and Human Development is pursuing a revival of the Early Childhood Education option within the Child Development and Family Relations area, says Dean Robert Cobb. New admissions to this program were suspended during the mid-1990s due to resource issues. However, the increasing emphasis on early childhood research and growing need for professionals with in-depth understanding of child development and families in the fields of education, direct service and administration has prompted the college to assign a high priority for the program in planning for the future. ▲



The sixth annual Provider Appreciation Day on Wednesday, May 11, is a national day of recognition for childcare professionals and preschool teachers. In UMaine's three preschool programs – the Child Development Learning Center, the Child Study Center and the University of Maine Children's Center – nine teachers have 13 or more years of service in the University community. They are, back row, left to right, Barbara Guidotti, Child Study Center, 19 years; Jeanne Soule, Child Development Learning Center, who is retiring this year after 29 years; Kevin Duplissie and Karen Hall, both of the Children's Center, 14 and 13 years, respectively; front row, left to right, Karen Belknap, Child Study Center, 13 years; Barbara Turner and Pat Ulrich, both of the Children's Center, 17 and 14, respectively. Not pictured are Terri Knowles, Children's Center, 19 years; and Martha Powers, Children's Center, 15 years.

Photo by Monty Rand

The CUTTING EDGE

University of Maine Research on the Frontiers of Science

Arsenic and bedrock

A UMaine investigation of high arsenic levels in the groundwater in Northport has led to a new understanding of how the toxic element migrates under some conditions from bedrock into well water.

Andrew Reeve, a hydrogeologist, will discuss research findings in a public meeting in the Community Hall in Northport, 1 p.m. May 20. The Northport Village Corporation Board of Overseers is sponsoring his presentation.

If confirmed in further research, the results suggest that in some locations, high arsenic concentrations in groundwater can be explained by conditions underground rather than by land use activities such as pesticide applications or industry.

In 1998, homeowners in Bayside, a residential community in Northport, discovered that their well water had unusually high levels of arsenic. High arsenic concentrations in well water have also been documented in other clusters around the state. The Maine Department of Human Services is currently testing water for arsenic in about 1,000 wells randomly distributed in Maine.

The element can cause liver and kidney damage, as well as cancer. In well water, the U.S. Environmental Protection Agency has set a maximum limit of 50 parts per billion. The highest level detected at Bayside was about 5,500 parts per billion.

"When people in Bayside discovered this problem, they came to

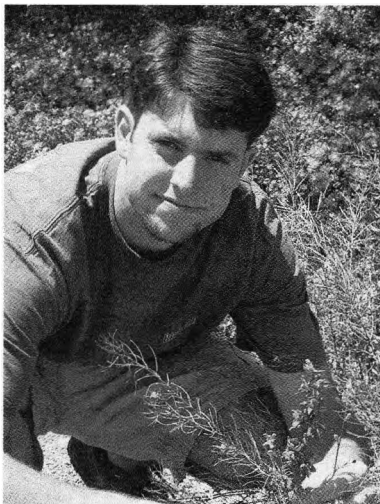
the University for help in finding out where the arsenic was coming from. We collected water samples in 1999 and 2000, and did chemical analyses for metals and other chemical parameters with the intent of finding chemical relationships that indicated a bedrock source," says Reeve.

Rock samples were also collected to determine if arsenic-rich minerals are present in the bedrock.

"Arsenic is often associated with other elements, such as sulfur, in bedrock. We expected to see an association between arsenic and these other elements in Bayside's groundwater. Instead, the arsenic there is associated with a different set of naturally occurring elements."

As a result of their work, the geologists now suggest that bedrock may indeed be the source of arsenic in Bayside, but it migrates out of the rock through a two-step chemical process. That process, they have shown, could generate arsenic in groundwater with the same chemical fingerprint found in the Bayside samples. Reeve and his colleagues have submitted a report of their work to the journal *Applied Geochemistry*.

Reeve is conducting his research with Stephen Norton, Charles Guidotti and Marty Yates in the UMaine Department of Geological Sciences, and with scientists from the Maine Geological Survey and the U.S. Geological Survey. Students Brian Warner and Michael Horesh also worked on the project as part of their degree programs.



Dan McDonley

When nature has all the answers

Dan McDonley took a year off between high school and college to learn wilderness living from survivalist and world-renowned tracker Tom Brown Jr. Then he headed to Hoh Rainforest on Washington's Olympic Peninsula to spend a month. But when he got there, McDonley was disappointed to find excessive logging and a lack of virgin wilderness.

That's when he called his mother in Massachusetts.

"I told her I'd just met someone going to the Yukon and that's where I was headed," he says. "It was a funny phone call home. But she's used to it. She's always given me a lot of freedom, despite how much gray hair it has given her."

McDonley sought that same independence and sense of adventure in his study of natural science. "I wanted a program that would give me a lot of options. UMaine had the breadth of programs that offered a wide base of knowledge and experience."

What McDonley also found in UMaine's Natural Resources Program was an individualized concentration that he could design. And he has done it like no other student.

McDonley's concentration is in ethnobotany, the study of the uses of plants by cultures, both past and present. Because ethnobotany is not part of most university programs, including UMaine's, McDonley supplemented his education with learning opportunities off campus.

In the past three years, McDonley has studied in North Carolina with folk herbalist Will Endres, and is in ongoing training on wilderness living with Ray Reitze, a Master Maine Guide in Canaan.

"Ray was taught by a Micmac elder," says McDonley. "I've done a winter trip in the Allagash with (Ray) in January with 40 below nights and days with 60 below wind chill. Mostly we do summer trips. I will be coming back to do an apprenticeship with him for a year."

This semester, McDonley is enrolled in the rigorous Professional Herbology Program at the Southwest School of Botanical Medicine in Arizona. The program is extremely competitive, receiving almost 200 applications for an enrollment of 28. Students, who spend 500 hours studying throughout the 20 weeks, refer to the program as "herbal boot camp."

"I feel a drive to learn as much as I can about anything that's natural," says McDonley, now a senior who will finish his degree in August. "Everything I do is nature-related."

For the past four years, McDonley has taught workshops on wilderness living, plants and outdoor adventure skills for children. His goal is to teach younger generations how to interact with nature in a responsible, ethical, and sustainable way.

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Middle-class aspirations and the architecture of Little City

Bangor probate judge John Edwards Godfrey once took a walk along Montgomery Street in the Queen City and recorded his thoughts on the picturesque landscape. In his diary entry, he reflected on why the "wealthy and aspiring" had not yet moved to this area.

"He had it completely wrong," says history graduate student Sara Martin, describing the more than century-old passage that brought a "thrill of discovery" to her research. "His description is of a beautiful area where he expected mansions like those along Kenduskeag Avenue would soon be. What he didn't consider is that this could be the site of a middle-class neighborhood."

Godfrey died in 1884 before seeing the turn-of-the-century development of Bangor's first planned neighborhood, an area dubbed Little City. An eight-block area of former farmland, Little City was one of Bangor's first streetcar suburbs. It also had other technological advances, such as Bangor water and sewer utilities. Above all, it was built for the middle class.

"One developer (Louis Kirstein) marketed heavily to the middle class and used deed restrictions so only a certain class (of homeowners) could live there. Between 1900-10, valuations of houses there went up," says Martin. "Developers thought the middle class wanted to be together. In addition, Little City abutted the older 19th-century neighborhood of huge mansions, and being close to the upper class was one factor that drew people to Little City."

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Sara Martin

Exploring the big questions



Kevin Peterson

After four years at the University of Maine, Kevin Peterson of Cumberland will graduate this month with his undergraduate work and a year's worth of graduate-level research behind him.

Peterson has spent two semesters as an intern at Jackson Laboratory, where he has been involved in research as part of his honors thesis. This fall, he will enter UMaine's graduate program in biological sciences, and expects to have his doctorate in four years.

"I like to succeed. I'm pretty driven," says Peterson, who learned about dedication from one of his role models, his mom. "I had a successful athletic career in high school, so when I came to college, I switched my focus to academics."

Peterson played soccer and basketball for Greely High School. In his senior year, Greely went undefeated in basketball and won the state championship.

Peterson decided to come to UMaine because it is in-state and part of his family's tradition. Peterson's older brother, James, graduated from the University in 1995 with a degree in history. His other brother, Michael, is at UMaine studying forestry.

Their father, Tom, received his degree from UMaine and went on to law school and a seat in the Maine legislature.

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Grad student named Udall Intern



Betsy Tannian

Four years ago, after sending her three children to college, Betsy Tannian came to UMaine to fulfill her life's dream of getting a bachelor's degree.

"I wondered what it would be like to get up in the morning and want to go to work because you were doing something you really wanted to do," she says.

In social work, Tannian found a discipline in which she could advocate for social justice and issues facing Native Americans. Her academic work on campus and in the community also helped her find her own voice as a Native American.

"I was fortunate to have guidance from the Penobscot Nation Department of Human Services staff on Indian Island, Esther Attean and Erlene Paul (both UMaine MSW alumni)," says Tannian, a newly named recipient of the competitive Morris K. Udall Native American Congressional Internship. "Both women were so instrumental in helping me get reconnected with my Native self. I didn't grow up on a reservation, and when Esther talked about internalized oppression, I didn't get it in the beginning. But what has been clear from the start is that both Esther and Erlene have such a knowing, and that knowing is what I want. I'm still on the journey."

For Tannian, the chance to reconnect with her Native heritage took 50 years. She was born in Old Town and spent most of her life in Massachusetts. Her mother was from West Enfield. Her father, who died when she was 23, was Penobscot and "like many other Natives in his generation who were stuck between two worlds, didn't know how to be proud of it," she says. One of Tannian's aunts is alumna Eunice Baumann-Nelson, UMaine's first Native American graduate and the first Penobscot to receive a Ph.D. Another aunt was Molliedellis "Molly" Nelson – Hollywood's Molly Spotted Elk.

Tannian spent a number of years as a single mother. She sent her two oldest children, Michael and Kathy, to UMaine for degrees in business. Her son, Scott, was

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Study to benefit rural elderly in Maine

Aging in rural areas of Maine and New Hampshire will be the focus of a study by Associate Professor of Social Work Sandy Butler with funding from a two-year, \$100,000 grant from the John A. Hartford Foundation.

Butler is one of 10 faculty nationwide chosen as Hartford Geriatric Social Work Faculty Scholars.

The Hartford Foundation seeks to expand the training of those who work with aging populations, and to promote innovations in the integration and delivery of services for older Americans. In the next two years, Butler will teach classes on gerontology and geriatric social work.

"The whole purpose for this Hartford program is to increase the number of social workers in the area of aging. Generally speaking, social work students and faculty have tended not to focus on gerontology," says Butler.

She also will conduct a major research project as part of the grant. Butler will study Maine's Senior Companion program, a federally funded initiative of Cooperative Extension in which low-income seniors volunteer to help their peers. Butler will develop a model evaluation protocol that could be used nationwide.

Butler's research focuses primarily on the health needs and social welfare experiences of low-income women across the life span. Her publications are in the areas of poverty, homelessness, welfare, aging, lesbian health, teen parenting and pregnancy, and policy practice. In Maine, she's conducted research pertaining to the health and well-being of older rural women and on the impact of

Butler Receives Annual Feminist Scholarship Award

This year's Annual Feminist Scholarship Award of the National Council on Social Work Education has been presented to Sandy Butler of the University of Maine and Luisa Deprez of the University of Southern Maine for the research paper "Something Worth Fighting For: Higher Education for Women on Welfare."

Butler, associate professor of social work, presented the paper at the council's annual conference March 10.

This is the second consecutive year that research by UMaine Social Work faculty has been cited for the Feminist Scholarship Award by the Commission.

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welfare policy for low-income families.

The grant specifies that Butler will have two sponsors, a national and an institutional, to assist her with professional development. Her national sponsor is Amanda Barusch of the University of Utah. Butler's local sponsor is Lenard Kaye, a UMaine Visiting Librarian Professor.

"This is a significant award, not only for Professor Butler, but for the University of Maine, the School of Social Work and the state," says Kaye. "It confirms the national significance of the rural aging phenomenon and the fact that Professor Butler is destined for leadership and will accomplish wonderful things in the field of gerontology." ▲

Medieval manuscripts tell tales



Cristina Arrigoni Martelli

For her master's thesis, Cristina Arrigoni Martelli looked for clues to help solve a 600-year-old mystery. In her research, she analyzed the manuscript of an anonymous 15th-century scribe – from his word choice and spelling to how he formed his letters – in an effort to discover the position of the manuscript in the overall *Canterbury Tales* manuscript tradition.

"Today, most people believe that a book is a book, that it can't be changed," Arrigoni Martelli says. "But for medieval people, books were living things in which to write, and add and subtract information. And that's part of the fascination. Medieval manuscripts speak in a way (modern-day) text normally is not allowed to do within the strict parameters we have set."

Arrigoni Martelli was born in Italy and came to the United States eight years ago. She completed a bachelor's degree in English at the University of Maine at Augusta before coming to UMaine in 1998.

Arrigoni Martelli came to work with medieval literature scholar Linne Mooney, who is part

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UMaine's first Ph.D. in computer science builds powerful Beowulf cluster

The University of Maine's first Ph.D. recipient in the Department of Computer Science has built one of the state's most powerful computers, a machine comparable to supercomputers at the nation's elite laboratories. Using commonly available components, Jonathan Thomas, a native of Underhill, Vt., constructed a parallel computer that is already being used to run complex simulations of Penobscot Bay.

The computer, known as a Beowulf cluster, consists of 18 dual Pentium PC's connected with high-performance networking hardware. The machine is located on the second floor of East Annex.

Demand for specialists with such technical skills is so strong that, even before Thomas receives his diploma, he will begin working for the global services division of IBM in Burlington.

"We tried to keep him here, but IBM is paying him a very attractive salary," says Jim Fastook, Thomas' advisor in the Department of Computer Science whose specialty is working with computer models of ice sheets and glaciers. "He was thrilled to be going home to a good job. He had several job offers. It's great to see that he'll be working in the Global Services Division that will use his skills."

Thomas comes from a family with an extensive computer background. His father directed computing services at the University of Vermont and now teaches in the networking field for Hill Associates. Jon's brother is a computer scientist at IDX Systems Corp.

Jon received his bachelor's from UVM in 1996 in biology "during a time that was kind of a rebellion for me," he says.

Two years later, Thomas received his UMaine master's degree in computer science. For his thesis, he used a supercomputer at Boston University to test components of Fastook's glacier simulation model.

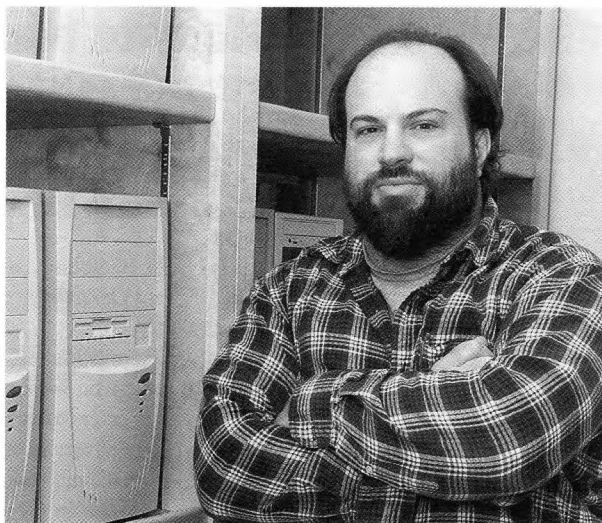
"Jon is a very motivated guy," says Fastook. "Early in his Ph.D. program, he had the idea to build the Beowulf cluster. My involvement with supercomputers and parallel machines has been with big supercomputers like the one at BU. This idea of a commodity supercomputer that uses inexpensive off-the-shelf components was kind of new. Jon came to me with this topic, and I said, 'yeah, that's great, but we have no money to buy you this hardware.' That was all right with him because he had already built one at home with old PCs."

By dividing computing tasks into smaller parts and running them simultaneously, parallel computers can solve large problems quicker than can a single machine with equivalent processing power. They are fast becoming a computing system of choice for running complex simulation programs in government agencies such as the Department of Defense and in corporations like IBM.

"My education has given me experience with a lot of hardcore problem solving. There are good opportunities here for a person with some drive. It's easy to find people who listen and offer support and ideas. In my case, there wasn't just one person who could help me with every part of my project, but I found the resources to get all my project done."

Thomas' work was supported by a grant from the Maine Science and Technology Foundation through the UMaine School of Marine Sciences. The UMaine Office of Research provided matching funds.

Currently, two Ph.D. students in computer science are working with Roy and Elise Turner on artificial intelligence for autonomous underwater vehicles. ▲



Jonathan Thomas is the first UMaine student to receive a Ph.D. in computer science.
Photo by Monty Rand

Beowulf to benefit marine research

A new parallel computer has been built that will speed marine research and provide new educational opportunities for UMaine students. Fei Chai, assistant professor of oceanography, and Jonathan Thomas, UMaine's first Ph.D. student in computer science, developed and built the unusual high-speed computer known as a Beowulf cluster.

The machine is based on a concept from the National Aeronautics and Space Administration (NASA) and later named for the hero of English legend. "The idea," says Thomas, "is that this type of machine, which is very fast and relatively inexpensive, will save us from the high cost of supercomputers."

The machine is about 10 times as fast as the best workstations used in research laboratories. In addition to running scientific models for research, it will be used for teaching UMaine computer science students.

Funds to build and use the computer came from the Maine Science and Technology Foundation (MSTF) and UMaine. "In 1997, I went on a trip to the Jet Propulsion Laboratory in Pasadena and saw a series of PCs chained together and lined up on some shelves in a hallway," says Chai. "I use a supercomputer in my work, and when I found out what this machine did, I realized that it would be a great benefit for Maine."

Like a good pair of eyeglasses, fast computer processing enables scientists to see the details in complex simulation models more clearly. The Beowulf cluster has already been used on a model developed by UMaine marine scientist Huijie Xue to simulate the water currents in Penobscot Bay.

On a standard workstation computer, the model calculates conditions in geographic areas that are, on average, about a square kilometer in size. The new computer enables scientists to zoom in on much smaller areas. As a result, Xue and her colleagues will be able to focus on areas around islands or where streams enter the bay.

"Penobscot Bay is very complicated in topography and geometry, and in order to resolve the realistic flow patterns in the current, you need higher a resolution in the model. That means higher demand for computing powers," says Chai.

The Penobscot Bay model, funded by Maine Sea Grant Program and NOAA, is part of a cooperative project involving the Island Institute of Rockland, the state, and research organizations that need to understand the forces behind Maine's most productive lobster fishing area.

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Four valedictorians named in the Class of 2001

Four valedictorians and a salutatorian will represent the Class of 2001 in the 198th Commencement of the University of Maine.

The valedictorians, three Maine students and one international student, all achieved 4.0 grade point averages during their years at UMaine. The salutatorian has a 3.99 gpa.

This year's valedictorians are Kristi Carver, a landscape horticulture major; engineering physics major Scott Cookson; Jill Fuller, who is majoring in communication sciences and disorders; and Gerti Pellumbi, business administration.

Salutatorian Rebecca Rozario is a mathematics major.



Kristi Carver

Kristi Carver of Beals Island is a co-valedictorian and the Outstanding Graduating Student in the College of Natural Sciences, Forestry, and Agriculture.

Carver, a landscape horticulture major, was valedictorian of Jonesport-Beals High School. There she played volleyball, basketball, softball and soccer.

Carver knew UMaine through its basketball camps, and through the experiences of her older sister, Sandi. Sandi, salutatorian of her high school class, is a 1998 UMaine graduate and former member of the Women's Basketball team. She is now a nurse in the adolescent unit of Acadia Hospital.

Carver's younger sister, Tricia, also a valedictorian of Jonesport-Beals High School, is in her first year at UMaine majoring in secondary education with a concentration in history.

"I didn't consider any other colleges," says Carver. "I knew I wanted to go to a land-grant university because it is far more diverse (in its academic offerings) than the other colleges around."

With an interest in fitness and nutrition, Carver enrolled at UMaine to study food science, but found herself drawn to landscape horticulture. However, she did maintain her interest in athletics as a founding member and co-captain of UMaine's Volleyball Team. She received this year's Dean Smith Award for exemplary academic and athletic achievement.

Most recently, Carver received the Heart and Soul Award from the UMaine Volleyball Program. After this year, the award will be renamed the Kristi Carver Award.

"Landscaping is such a diverse field and can provide a continual education throughout your life," she says. "I've always been drawn to the earth and to nature. It's where I feel most at peace with myself."

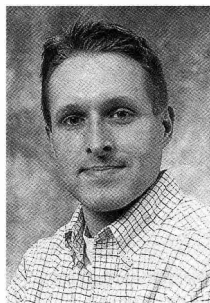
During her years at UMaine, Carver gained field experience on and off campus. In the Littlefield Trials Garden, she helped expand and maintain the plant collection. For the past two summers, Carver has worked in the gardens of the Rockefeller estate in Seal Harbor.

When she graduates, Carver will return to Beals Island to start her landscape horticulture business. She already has a number of contracts for residential landscaping design, installation and maintenance. Carver's clients appreciate her signature designs that are in keeping with the natural landscape.

Carver also has a commercial lobster fishing license, and could get as many as 400 traps in the water this year. Carver learned the profession from her father, who has been hauling lobsters since he was 10.

Carver also will follow in her father's footsteps May 27 when she becomes an ordained minister in the Community of Christ Church. Her father served many years as pastor of the island church, where he

is now an elder and her uncle the pastor. Carver will begin her duties this summer by expanding her work with the youth of the church.



Scott Cookson

Scott Cookson of Glenburn is a co-valedictorian and the Outstanding Graduating Student in the College of Engineering.

Cookson, the salutatorian of John Baptist High School, came to UMaine as an undeclared major. After three semesters, he combined his passion for mathematics and science into a major in engineering physics, with a concentration in electrical engineering and a minor in math.

"I looked at schools in Boston, but this is a nice campus and I received two full-tuition scholarships," says Cookson, who also was accepted at Tufts and Brandeis. "I had been on campus as a junior in a Pulp and Paper Foundation summer program, and in high school, I did research papers in the library."

"This is a fun place to be, a great environment for learning and living. You can get out and be as active as possible, especially with Acadia to the south and Baxter to the north."

During his years at UMaine, Cookson had four internships. He was an NSF-REU undergraduate research assistant in the Laboratory for Surface Science and Technology for one summer and worked at International Paper in Jay as part of a Pulp and Paper Foundation Scholarship for the next two. Last summer, he accepted an internship at MIT's Lincoln Laboratory, where he worked as a research intern in the National Missile Defense group.

Cookson says he learned about the importance of hard work, honesty and modesty from his parents. "I don't work hard to impress people but to prove to myself that I can do it," he says. "I have a drive to do the best I can at anything I do. That can be both good and bad, but it's gotten me where I am today."

Cookson's parents, Deborah and Richard Cookson, are UMaine alumni, and a younger brother, Jason, is a junior in electrical engineering. A second younger brother, Christopher, currently attends John Baptist.

This spring, Cookson accepted a job offer at MIT Lincoln Laboratory working in the Ballistic Missile Defense Systems and Analysis group. He plans to pursue graduate school and eventually have a career in the space program. But first, he is headed to Europe to backpack for two and a half months.

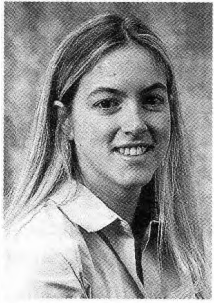
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Employee Recognition/Retirement Banquets Scheduled

The annual UMaine Employee Recognition and Retirement banquets will be held Tuesday, May 22 and Wednesday, May 23 at Wells Conference Center. Twenty-five-year employees and Outstanding Employee award recipients will be honored on May 22, and retirees on May 23. The Recognition event begins with a social at 5:30 p.m., with dinner at 6 p.m.; the Retiree social begins at 6 p.m., with dinner at 6:30.

All dinner entrees are \$15 and include a choice of filet mignon with Bearnaise sauce, orange fennel scallops, chicken marsala and portobello mushrooms stuffed with grilled vegetable risotto. For reservations, contact Kay Saucier in the Human Resources Office, 581-1640.

The annual campuswide coffee breaks will be held Thursday, May 24 for night shift employees, and Friday, May 25 for daytime staff, both at Wells Conference Center. The evening coffee break May 24 is 10-11 p.m.; the May 25 event from 9-11 a.m. All employees are invited.



Jill Fuller

Jill Fuller of Dixfield, a communication sciences and disorders major, is a co-valedictorian and a first-generation college student.

Fuller was valedictorian of Dirigo High School and recipient of a Top Scholar Award, which she says helped her make the decision to come to UMaine. She chose audiology as her field of study because of her interest in scientific problem-solving and her desire to work with children. Fuller has a minor in

child development.

Since high school, Fuller has held part-time jobs caring for children. She also is an active United Way volunteer and, this semester, returned home on her days off to work as a substitute teacher. Her clinical experience as part of her academic program included two years working at the Warren Center, providing assistance as a speech aide for people of all ages. In addition, she observed newborn audiology screening at Eastern Maine Medical Center.

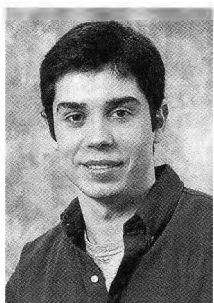
Fuller plans to specialize in pediatric audiology. She was accepted into graduate programs at the University of Florida and Towson, but she chose the clinical doctoral program in audiology at Central Michigan University.

Soon after graduation, she will travel to Michigan, accompanied by Ed Haynes, who graduated from UMaine in 1999 with a degree in secondary education. Fuller will spend the summer working at a daycamp for children. Last summer, she was a ranger at Mt. Blue State Park.

As part of her preparation to spend the next four years in graduate school, Fuller has lived this semester with her grandparents in Canton, a two-hour commute to campus. Her grandparents are among her mentors.

"My parents have always been there for me. Dad has given me the ability to know when to relax and take it easy, whereas Mom is the one who taught me to be assertive. She is the person you don't want to get a call from if you've done something wrong."

"My other mentor is Amy Booth. She has such a love of audiology. Her enthusiasm is contagious, and that's how I want to be (as an audiologist). Someday when I have a practice, I want kids to come into my office and find me wearing a clown nose and a shirt with Disney characters for the most fun audiology test they've ever had. I never pictured audiology that way until I met Amy. It's that kind of optimism that makes life worth living."



Gerti Pellumbi

Gerti Pellumbi of Tirana, Albania, is a co-valedictorian and the Outstanding Graduating Student in the College of Business, Public Policy and Health.

Pellumbi is a business major with a double concentration in finance and management information systems. He came to Maine six years ago to complete his senior year of high school. He then enrolled at UMaine.

Pellumbi followed his brother, Elvis, who was the college's 1996 Outstanding Graduating Student and is now an investment banker in London.

Pellumbi decided to pursue a career in business because of his brother's positive academic experience at UMaine, as well as the opportunities in the field.

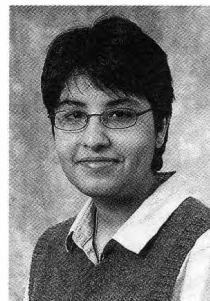
"The business profession allows you to move around the world, and I like to travel," Pellumbi says. "I really enjoyed my classes in the Business School. Initially, it looks and feels like a big school, but by your senior year, you feel much closer to professors and it takes on more of a small college atmosphere."

During his years at UMaine, Pellumbi has worked closely with Business School faculty on a number of projects. For three years, he has worked as a research assistant for Associate Dean for External Relations Sheila Pechinski. In that capacity, Pellumbi has been involved in student recruitment and contributing to columns in newsletters and publications.

For the past two years, Pellumbi also has been involved in SPIFFY, the University of Maine Student Portfolio Investment Fund established by the University of Maine Foundation. He also served as a senator in Student Government.

Last semester, Pellumbi accepted a job offer with Circuit City. After graduation, he will work in the company's financial management program in Richmond, Va. He hopes to begin work on an MBA within three years.

Pellumbi notes that he was able to pursue his aspirations in the U.S. with the help of former State Sen. Michael Pearson. "Without his help, I probably would have not been able to go to the University of Maine, or be able to go to college in the United States, for that matter."



Rebecca Rozario

Mathematics major Rebecca Rozario of Bangor is this year's salutatorian.

Rozario, the valedictorian of Bangor Christian School, first took UMaine courses in math as a high school senior. She enrolled at UMaine in 1997.

Rozario's sister, Suzanna, graduated from UMaine in 1999 with a degree in biology.

In addition to her courses in mathematics, Rozario has studied history as a minor, developing a strong interest in Irish history. Her honors thesis focuses on abstract algebra.

Rozario cites her participation in the Honors Program as being a benchmark in her academic career. "You get to explore and discuss issues unlike you do in any other class," she says. "What is justice? What does it mean to have a soul? I am very interested in philosophy and the big questions in the world. I find myself continuing to explore the questions raised in my honors classes."

After graduation, Rozario plans to spend the next academic year taking computer science classes. She hopes to pursue a master's degree in computer science.

UMaine's National Youth Sports Program opens ninth season

The National Youth Sports Program (NYSP) will open its ninth season at the University June 25.

The free six-week daycamp features swimming, plus a variety of other skill-building and educational opportunities for children ages 10-16.

The camp is made possible through a partnership between the U.S. government and participating universities and communities, with oversight by the National Collegiate Athletic Association. The majority of the campers come from families who meet Department of Health and Human Services income guidelines. Some slots for youngsters of families above the income guidelines are usually available, also at no cost, and those names are placed on a waiting list.

UMaine's nationally acclaimed NYSP program is directed by Stephen Butterfield, professor of education.

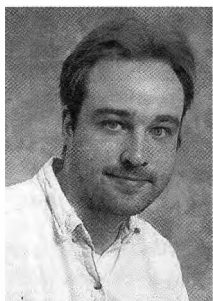
For registration information, call UMaine's NYSP office, 581-2466.

Colleges name Outstanding Graduating Students

The five colleges of the University of Maine have named Outstanding Graduating Students. In addition, a graduating senior has been selected for the Division of Lifelong Learning's Outstanding Achievement Award.

Three of the students cited are this year's valedictorians – Kristi Carver from the College of Natural Resources, Forestry, and Agriculture; Scott Cookson from the College of Engineering; and Gerti Pellumbi from the College of Business, Public Policy and Health. (See stories on pages 11-12.)

Named the Outstanding Graduating Student in the College of Liberal Arts and Sciences is John Burns. Keith Martin is the Outstanding Graduating Student in the College of Education and Human Development. Bernice Cross is the winner of Lifelong Learning's Outstanding Achievement Award.



John Burns

John Burns grew up in the shadow of the University of Maine and understood the potential of a comprehensive liberal arts curriculum.

Four years ago, the Orono native enrolled at UMaine to double major in Spanish and English, with a concentration in creative writing. The honors student has a minor in medieval and Renaissance studies.

Today, he is an internationally recognized poet.

"I have been extremely lucky," Burns says. "I've had a focused field of study – poetry – and was able to fan out in interdisciplinary ways."

Burns says he appreciates the institutional and interdisciplinary support that has allowed him to focus on his many interests. From innovative poetry-music-lecture recitals and poetry-jazz concerts to annual National Poetry Foundation conferences and the New Writing Series bringing poets to campus weekly this academic year, the atmosphere is electric. Readings, publishing opportunities and awards offer recognition and ways to actively participate in the artform.

On campus, Burns has worked with such leading faculty members as Professor of English Burt Hatlen, director of the National Poetry Foundation. Burns was a work merit assistant to Professor of History Alex Grab and a research assistant to Associate Professor of Music Nancy Ogle.

Some of Burns' international notoriety has come from his work with poet and Professor of Spanish Kathleen March.

For the last few years, Burns has been translating the works of Spanish poets. Last May he attended the International Poetry Festival in Vilnius, where his work, "Our Trade," won best love poem. The poem is being published in Lithuanian. Burns recently translated an anthology of the works of 30 Galician authors in preparation for an international conference in Santiago de Compostela, sponsored by UNESCO for World Wide Poetry Day March 21.

Burns has been writing poetry since age 14. In the past six years, he has given poetry readings in Chile, Slovenia, Croatia, Ireland, Lithuania and Poland, as well as in the United States.

In addition, he recently completed the libretto for *The Inspiration*, an opera by New York composer Donald Hagar.

Following graduation, Burns will pursue graduate work in Spanish, particularly medieval Castilian literature, at the University of Wisconsin, Madison.



Keith Martin

Keith Martin came to UMaine in 1997 as salutatorian of Lawrence High School with 12 Advanced Placement credits, as a Maine Top Scholar and with a highly competitive Robert C. Byrd Honors Scholarship.

He has kept up that pace for the past four years. Martin had enough credits to graduate in December, but he chose to take another full academic load, including graduate-level courses in special education and literacy.

Martin entered UMaine as a biology major, but after one semester, he knew that his true interest – and his commitment – was to teach young children. He now is following the career paths of his parents.

Martin's mother is a former teacher who now runs a nursery school and daycare in Fairfield, and is a substitute teacher for three school systems. His father, also a former teacher, is principal at the George J. Mitchell Elementary School in Waterville.

The Martins have three other sons: Karl, who graduated from UMaine last year with a degree in business; and Kurt and Kevin, a senior and sophomore, respectively, at Lawrence High School.

While student teaching in grades 3 and 4 last fall at Old Town's Herbert Sargent School, Keith reaffirmed his commitment to being an elementary school teacher. "That's where the excitement, ability, curiosity and learning is so abundant," he says. "They're so eager to learn about any topic. Being able to actually see their knowledge base increase is incredible."

Martin also sees a need for male teachers and role models in elementary schools.

According to Associate Professor James Rog, who was Martin's student teacher supervisor, Martin consistently demonstrates the capacity to adjust lessons, to extend patience and to provide encouragement.

"The respect he gives to students is returned in their willingness to stay engaged and cooperate," says Rog. "They will not forget this teacher who helped them push toward excellence."



Bernice Cross

Bernice Cross believes in the power of community.

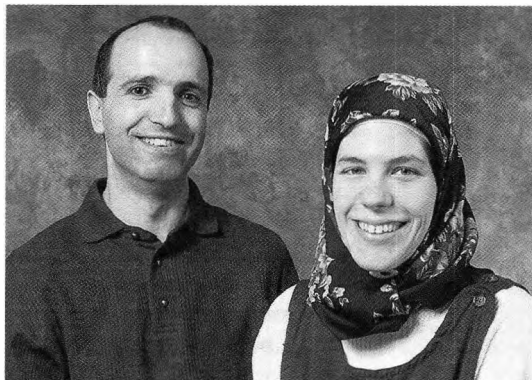
Committed to the idea that, indeed, "it takes a village," Cross helped raise the money and volunteers needed to establish a library in the elementary school in her community, Greenbush. She's been a volunteer for the town's summer recreation program and served on the comprehensive planning committee.

Firmly believing that one person can make a difference, through the years Cross has added her voice to state and national policy discussions concerning such issues as low-level nuclear waste dumps, healthcare and campaign finance reform.

Five years ago, when it was time for Cross to pursue her lifelong passion for art, it was a community, this time at the University of Maine, that made the difference in her life.

"I wouldn't have made it to graduation without the sense of community I found in the Onward Program," says Cross, this year's Division of Lifelong Learning Outstanding Achievement Award

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Sofian and Marsha Kanan

Photo by Monty Rand

Wedded to chemistry

Among the students marching in Commencement this month are two with special chemistry.

Marsha Kanan of Mechanic Falls and Sofian Kanan of Irbid, Jordan, first met three years ago in the Aubert Hall lab of Professor Howard Patterson. She was an undergraduate, he was a Ph.D. student, and both were involved in research on the degradation of pesticides in the environment.

Sofian finished his Ph.D. last August, but waited until now to participate in commencement with Marsha, who will receive a bachelor's degree, and is one year away from completing a master's. Next year, the couple plans to move to Jordan.

Marsha came to UMaine in 1997 to study biology, but as a sophomore changed her major to chemistry. Her research has focused on environmental chemistry.

"I've always had an interest in the environment," she says. "Figuring out a way to help improve it is very meaningful for future generations."

As valedictorian of Oxford Hills High School, Marsha received a Top Scholar award and, as a result, turned down Cornell to come to UMaine. As a sophomore, she was one of 304 recipients nationwide of the prestigious Barry M. Goldwater Scholarship in recognition of her outstanding academic record and involvement in research. Howard Patterson described Marsha as "one of the best undergraduate students I have had to do research" in his more than 30 years at UMaine.

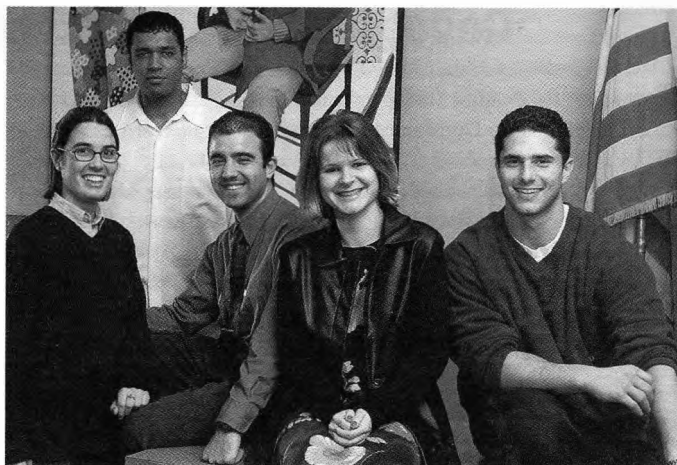
Since her second semester on campus, Marsha has been doing research with Patterson and Sofian, studying the decomposition of pesticides in the environment. In her research, she found that pesticides decompose faster in the presence of light and a mineral compound known as a zeolite, rather than in light alone. Experiments are under way to determine the speed of different decomposition reactions involving zeolites. Her work could lead to new techniques for cleaning up contaminated water supplies and wastewater treatment systems.

"You don't have to go to an Ivy League School to do research at the cutting edge," she says of her UMaine experience. "This is a good atmosphere for students to learn in. The curriculum is top notch and faculty keep their syllabi competitive so when students graduate, they can apply to Harvard, Duke or Yale."

The caliber of UMaine research brought Sofian to the States in 1996. Sofian was a graduate student at Yarmouk University in Irbid, Jordan. He was accepted into a Ph.D. program in Germany, but came here to work in environmental chemistry.

"In Jordan, environmental chemistry is important, particularly with

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The Outstanding International Students for 2000-2001 are, left to right, Nadia Sanchez of Spain, a sophomore in marine sciences; Sharad Rathnam, a senior from India majoring in mechanical engineering; Gustavo Burkett of Argentina, a junior in business; Ewa Kleczyk of Poland, a senior majoring in economics; and Ryan Crotin of Canada, a junior in kinesiology.

Photo by Monty Rand

SPIFFY students among top five national finalists

The University of Maine Student Portfolio Investment Fund of the University of Maine Foundation (SPIFFY) was one of only 15 student investment groups chosen to compete in the finals of the first annual University of Dayton National Student Investment Strategy Symposium.

Alfred Doyle of Seal Harbor and Peter Swanberg of Lamoine, SPIFFY's student leaders, gave a presentation on their experience with the student investment group, and took questions from a three-judge panel. Approximately 300 participants from 47 universities in 23 states and Canada attended the two-day conference.

The UMaine group, advised by Professor of Finance Robert Strong, was one of five finalists at the event, held April 6-8 at the Dayton Convention Center. Rice University won the competition.

Strong says the judges were interested in the group's use of options to reduce risk and create additional portfolio income. SPIFFY sometimes writes call options against stock the fund owns. By doing this, SPIFFY gives someone else the right to purchase those shares at a set price in exchange for a fee that is credited to the SPIFFY portfolio, regardless of what happens in the future.

Strong says that despite the market downturn, the SPIFFY portfolio is only down about 0.52 percent of its value since October. At that time, the value of the student-run portfolio was at \$898,324.

This compares favorably with a 12.96 percent loss in value of the S&P 500 and a 36.4 percent loss in the value of the NASDAQ.

Strong adds that despite the recent stock market woes, student involvement in SPIFFY is growing.

"We've had better attendance this year than we've ever had," he says. "The market conditions have been thought provoking because most students have only seen a market that's gone up. Now they're seeing that companies everyone thought were great investments are being hammered down. It's educational for students to see that the market can move substantially in both directions."

SPIFFY began in fall 1993 with an initial investment of \$200,000 from the University of Maine Foundation. An additional \$150,000 was added two years later. The group is open to all students, regardless of major. ▲

Lyombe Eko, assistant professor of journalism and mass communication: "Public Broadcasting in a Changing Political and Regulatory Environment: The Case of Africa," *Ecquid Novi*, the South African Journal for Journalism Research, 21(1):82-97 (2000). The paper was first presented in June at the UMaine conference, "Public Service Broadcasting and the Public Interest."

Bruce Jensen, associate professor of chemistry, and **Raymond Fort**, professor of chemistry: "Molecular Mechanics and Variable Temperature Proton-NMR Studies on N, N-Diethyl-m-toluidine: An Undergraduate NMR and Molecular Modeling Experiment," *Journal of Chemical Education*, 78:538-40 (2001).

Richard Jagels, professor, Forest Ecosystem Science; B. LePage; and **Mei Jiang**, former Ph.D. student: "Definitive Identification of Larix (Pinaceae) Wood Based on Anatomy from the Middle Eocene, Axel Heiberg Island, Canadian High Arctic," *IAWA Journal*, 22(1):73-83 (2001).

Debbie Gilmer, associate director and acting director, Center for Community Inclusion, with Lee Hockridge and Jeff Hooke of KFI, and Cynthia Thomas, Institute for Community Inclusion, Boston: "It's All About Community! Helping Individuals Get and Keep Jobs in Rural Maine," *Job Training and Placement Report*, 25(4):1-2 (April 2001).

Colin Martindale, professor of psychology: "Oscillations and Analogies: Thomas Young, M.D., F.R.S., Genius," *American Psychologist*, 56:342-45 (2001).

Ivan Manev, assistant professor of management, and William Stevenson, associate professor of management, Boston College: "Balancing Ties: Boundary Spanning and Influence in the Organization's Extended Network of Communication," *The Journal of Business Communication*, 38(2):183-205.

Kristin Sobolik, associate professor, Anthropology and Quaternary and Climate Studies, a co-authored article: "A Molecular Analysis of Dietary Diversity for Three Archaic Native Americans," *Proceedings of the National Academy of Sciences*, 98(8):4317-22 (April 10).

Adrienne Kearney, assistant professor of economics: "A Note on Modeling the Impact of Economic Announcements on Interest Rates," *Economics Letters*, Institute for Advanced Study (April 2001).

Jaekyung Lee, assistant research professor: "School Reform Initiatives as Balancing Acts: Policy Variation and Educational Convergence Among Japan, Korea, England and the United States," *Education Policy Analysis Archives*, 9(13).

J.F. Vetelino, C. Zhang, R.B. Haskell, T. Grillo, J. Seitz and G. Grillo: "Novel Electrode Configurations of Bulk Acoustic Wave Resonators for Liquid Sensing Applications," *Proceedings of the 2000 IEEE Ultrasonics Symposium*, pp. 421-26 (October 2000).

C. Zhang, J.J. Caron and J.F. Vetelino: "The Bleustein-Gulyaev Wave Mode in Potassium Niobate for Liquid Sensing Applications," *Proceedings of the 2000 IEEE Ultrasonics Symposium*, pp. 263-68 (October 2000).

Doug Allen, professor of philosophy: "Gandhian Perspectives on Self-Other Relations as Relevant to Human Values and Social Change Today," *Human Values and Social Change*, edited by Ishwar Modi (Jaipur and New Delhi: Rawat Publications, 2000) pp. 283-309.

Jayendran Rasaiah, professor of chemistry: "Computer Simulation of Aqueous solutions at Ambient and Supercritical Conditions Using Effective Pair Potential and Polarizable Potentials for Water," *Journal of Chemical Physics*, 114:7544-55 (2001). Co-authors are **S. Koneshan**, former graduate student and currently a post-doctoral fellow in the Computer Science Department, Cornell University, and Liem Dang, Pacific National Laboratory, Richland, Wash.

It's About Time: A Resource Unit, developed by middle level teachers and UMaine graduate students in **Ed Brazee's** Seminar in Middle Level Education course, has been published by the National Middle School Association. The resource unit helps teachers involve students in planning curriculum and instruction by offering materials, ideas and activities other than textbooks. Contributing educators: **Chris Beckwith** and **Amy James**, Ellsworth Middle School; **Joanne Cassida**, **Brian Cote**, **Steven Lane** and **Stacie Tracy**, Mountain View School; **Heidi O'Donnell**, Miller School; and **Suzanne Stroble**, adjunct faculty, doctoral candidate.

Book Ends

New & Noteworthy at the University Bookstore

Of Note: Textbook Buyback is May 7-12 and May 14-19.

▼ May Term textbooks will be on sale beginning May 14.

▼ The Graduation Sale is May 7-12 and May 14-19. Take 25 percent off UMaine clothing and gifts, as well as books (excluding special orders, rings, chairs and diploma frames).

▼ Ring Days will be May 17-18.

Five Quarters of the Orange by Joanne Harris, Morrow (2001). In *Five Quarters of the Orange*, Joanne Harris' follow-up to *Chocolat*, Framboise Simon returns to her childhood home in hopes of beginning a new life. Once there, she discovers that the past and the present are inextricably intertwined. Nowhere is this truth more apparent than in the scrapbook of recipes she has inherited from her dead mother, the infamous Mirabelle Dartigen, a woman long held responsible for a terrible tragedy that took place during the German occupation decades before. Within the recipes and notes lies the key to what actually happened on that day.

Sputnik Sweetheart by Haruki Murakami, Knopf (2001). Author of *Norwegian Wood* and *The Wind-Up Bird Chronicle*, Haruki Murakami presents his most satisfying and representative best novel yet with *Sputnik Sweetheart*. A love story, a missing person story, a detective story – all enveloped in a hip, philosophical mystery.

Racing the Antelope: What Animals Can Teach Us About Running and Life by Bernd Heinrich, Harper Collins (2001). In *Racing the Antelope*, the author of *Mind of the Raven* applies his characteristic blend of scientific inquiry and philosophical musing to a deft exploration of the human desire – even need – to run. His rich prose reveals what endurance athletes can learn about the body and the spirit from other athletes in the animal kingdom. *Racing the Antelope* melds a unique blend of biology, anthropology, psychology and philosophy with Heinrich's passion for running, all in order to discover how and why we run.

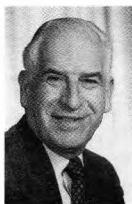
Faces Behind the Places



Edith Patch was hired in 1903 to create an entomology department for the Maine Agricultural Experiment Station. One of the few female entomologists of her day, Patch was appointed head of the department a year later. She held the position for more than 30 years. Patch earned her master's from UMaine in 1910 and a Ph.D. from Cornell in the following year. She was a world-renowned expert on aphids. Patch was elected the first woman president of the Entomological Society of America in 1930 and, a few years later, president of the American Nature Study Society in recognition of her nature writing for children and the public.



Lore Rogers, a distinguished alumnus of the Class of 1896 and member of UMaine's first football team begun in 1892, was prominent in dairy research. He served 36 years as chief of the Dairy Products Laboratory, U.S. Department of Agriculture. His agricultural achievements included creation of the preserving process for butter and dairy products. Author of more than 100 papers, he was presented the American Dairy Association's Distinguished Service Award in 1963. At the age of 80, he established the Lumbermen's Museum in his hometown of Patten. At age 99, he spoke at Reunion Weekend as the oldest living alumnus and only remaining member of his class. He died at age 100.



Albert Nutting graduated from UMaine in 1927. He was an Extension Service forestry and home grounds specialist from 1931-1948. In 1958, he became director of the School of Forest Resources, a position he held until 1971. As director, he helped develop forestry research legislation. During his tenure, a Ph.D. program in forestry was introduced. He received an honorary doctorate from UMaine in 1987. After retirement, Nutting received the Maine Black Bear Award from the Alumni Association for devotion and loyalty to the University.

Bruce Jensen, associate professor of chemistry, has been awarded a Camille and Henry Dreyfus Special Grant in the Chemical Sciences for 2001-02 titled "Experiment Development in the Organic Chemistry Laboratory for Spectroscopic and Molecular Modeling Studies."

Sandy Donahue, dining service manager at

Stodder Commons, has been awarded a scholarship from the National Association of College & University Food Services (NACUFS) to represent Region I at a NACUFS Leadership Institute, June 2-8, at the Tyson Management Development Center, Russellville, Ark. Donahue has been a UMaine dining service manager for four years, first at York Commons, and for the last two years at Stodder.

Professor **Dennis Cox**, Music, professor John Haberen of Georgia State University, and arranger/composer Mike Judy of Orlando served as choral clinicians for the Atlanta Heritage Music Festival, April 6-7 at Tri-Cities High School, Atlanta. April 9-10, Cox was guest conductor for the Riggs High School Choral Music Festival in Pierre, S.D. And April 20-21, Cox, Victor Klimash of Albany and E. Wayne Abercrombie of the University of Massachusetts-Amherst were choral clinicians for the Boston Heritage Music Festival at Hamilton-Wenham High School, Hamilton, Mass.

Phillip Silver, assistant professor of music, gave the annual Berger Lecture at Colby College, April 19. He spoke on "The Music of Theresienstadt." That evening, he performed at Beth El, Bangor, as part of Holocaust Remembrance Day. Silver's music also was heard on Maine Public Radio that day in a pre-recorded musical tribute to the memory of the victims of the Holocaust

Debbie Gilmer, associate director and acting director, Center for Community Inclusion, was an invited participant in the Administration on Developmental Disabilities' Monitoring and Technical Assistance Review System (MTARS) training in Arlington, Va., April 10-12. MTARS is the peer review and program performance process utilized by ADD to monitor state DD councils, protection and advocacy agencies and University Centers for Excellence.

Cynthia Erdley, associate professor of psychology, and psychology doctoral students **Julie Newman** and **Jessica Matthews** presented two posters at the biennial meeting of the Society for Research in Child Development in Minneapolis, April 19-22. The posters were "Children's Friendship Experiences as Predictors of Loneliness and School Involvement" and "Children's Social Goals as Predictors of Social Competence, Loneliness, and School Attitudes Across the Middle School Transition."

Amy Fried, assistant professor of political science, presented "Public Opinion in Time: Toward a Theory of Time in the Construction of Public Opinion" at the New England Political Science Association Annual Meeting, May 4-5, Portsmouth.

Steve Galbraith, social sciences and humanities reference librarian, and **Jim Bird**, Science & Engineering Center department head, both from Fogler Library, presented "Patent and Trademark Basics for Inventors/Entrepreneurs" on April 19. The presentation was part of the Small and Home-Based Business Workshop Series, sponsored by the Washington County Cooperative Extension, with support from University of Maine at Machias.

James McConnon Jr., Extension business and economics specialist, and associate professor of resource economics and policy, received the Small Business Advocate of the Year Award for Maine and the New England Region from the U.S. Small Business Administration, April 24, during the Blaine House Conference for Small Business at the Augusta Civic Center.

Stephen Whittington, director of the Hudson Museum, and the late **David Shoemaker**, instructor in the Department of Art, presented "Retracing El Mapa de Teozacoalco" at the Sixty-sixth Annual Meeting of the Society for American Archaeology in New Orleans April 19.

In April, **Daniel Harrison**, professor of wildlife, gave an invited lecture, "Marten and Forestry: Conflict or Opportunity," at J.D. Irving Limited's 2001 Science Forum, Fredericton.

Tara Henrichon, wildlife ecology graduate assistant, gave an invited lecture, "Vegetation Change in the Savannah National Wildlife Refuge" at the Maine chapter meeting of the Wildlife Society at the Penobscot County Conservation Association, Bangor, April 19.

Bob White, dean, Division of Lifelong Learning and director, Continuing Education Division, attended the 86th annual conference of University Continuing Education Association in Philadelphia, March 5-7. White presented "Institutional Responses to the Learning Society: Bricks, Mortar and Beyond," focusing on the Hutchinson Center in Belfast. **Ethel Hill**, assistant director for marketing and publications in CED, also attended the conference and was joined by White at the marketing and publications awards ceremony, sponsored by the *New York Times*. Hill accepted 12 awards on behalf of the University of Maine. Hill, recently elected as chair-elect of UCEA New England, began her duties as chair of the UCEA-New England Conference scheduled for Oct. 31-Nov. 2 on Cape Cod.

Irv Kornfield, professor of zoology, School of Marine Science, gave a lecture, "Population Analysis Using Hyper-Variable Markers: Applications and Caveats," at the Marine Biological Laboratory, Woods Hole, Mass., April 18.

A.M. Gontz, **Daniel Belknap** and **Joseph Kelley** presented two papers, "Evidence for Changes in the Belfast Bay Pockmark Field, Maine" and "Evolution of Holocene Tidal Channels and the Tidal Ravinement Surface in Penobscot Bay, Maine," at the Northeast Section Geological Society of America conference in Burlington, March 11-14. In addition, at the same conference, **Julia Daly**, Kelley and Belknap presented the paper "Differential Late Holocene Sea-Level Change on the West Coast of Newfoundland?" **J.B. Nelson** and Belknap presented the paper, "Ground-Penetrating Radar Examination of Drumlins in Southern Maine."

Malcolm Shick, professor of zoology, Department of Biological Sciences and School of Marine Sciences, is a visiting scientist at the Centre Scientifique de Monaco and a visiting professor at the University of Nice, France, where, since September 2000, he has lectured to undergraduate students on ultraviolet photobiology and presented seminars on sunscreen and antioxidant defenses against UV-induced oxidative stress in marine organisms. Most recently, on April 26, he spoke on "Biosynthesis, Accumulation, and Functions of Mycosporine-like Amino Acids in Marine Organisms" in the seminar series on organismal responses to environmental stress in the Department of Biology.

From April 18-22, **Dan Sandweiss**, Anthropology and Quaternary and Climate Studies, attended the annual meeting of the Society for American Archaeology in New Orleans. He was the invited discussant for two symposia: "Beyond Mollusc and Midden I: Social, Ecological, and Economic Aspects of Coastal Settlements" and "Social Dynamics of Early Andean Cultures: Pre-ceramic-Early Horizon." Also, on April 23, Sandweiss spoke on "Tucume: Pyramids of a Late Intermediate Period Maritime City on the North Coast of Peru" for the Cooper-Herzfeld Society and the Department of Anthropology, Catholic University of America, Washington, D.C.

Several members of the Biological Sciences Department attended the Northeast Fish and Wildlife Conference in Sarasota Springs, N.Y., April 22-25: **John Moring**, professor of zoology, and graduate assistants **Amy Gullo**, **Merry Gallagher** and **Emily Gaenzle**. Moring presented a paper, co-authored by Bao Lê and Jennifer Stone, U.S. Fish and Wildlife Service, Vancouver, Wash., "Historical Changes in Freshwater Fish Communities of Acadia National Park, Maine."

Mary Ann McGarry, associate faculty member in the College of Education and Human Development, and research associate with the Mitchell Center, and **Elizabeth Blake**, a sophomore education major with a concentration in the natural sciences, presented "Pre-professional Experiences for Beginning and Future Teachers" at the Collaboratives for Excellence in Teacher Preparation Next Steps meeting, National Science Foundation, April 3, Washington, D.C. They co-presented with Joyce Hammer of Green River Community College and Susie Tummers of El Camino College. All three institutions have used NSF Collaboratives for Excellence in Teacher Preparation grant funds to conduct Future Math Science Teachers' Conferences on their campuses.

Richard Jagels, professor, and **George Visscher**, graduate student, Forest Ecosystem Science, attended the international symposium, "Evolution of Plant Physiology," at the Linnean Society, London, April 8-11. Jagels presented a paper, co-authored by Assistant Scientist **Michael Day**, "Adaptive Physiology for a Warm, Continuous-Light Environment. Evidence from Eocene Arctic and Extant *Metasequoia*." Visscher presented a poster, "Eocene Woods of Axel Heiberg Island, Nunavut, Canada."



Thirteen students have been selected as UMaine's NSF Teaching Fellows for 2001-02. They are, left to right, Christopher Lage, a Ph.D. student in biological sciences; Marsha Kanan, a master's student in chemistry; Mary Pierce, a master's student in ecology and environmental science; Sarah Kim, a master's student in oceanography; Shelly Thomas, a Ph.D. student in ecology and environmental sciences; Steven Campbell, a Ph.D. student in wildlife ecology; Melissa Borden, who is pursuing a Ph.D. in plant science; and Jonathan Schilling, a Ph.D. student in biological sciences. Not pictured are master's degree students Anne Simpson, oceanography, and Mary Good, geological sciences; undergraduates Nicholas Lynch in chemistry and Ethan Perry in geological sciences; and Ph.D. student Beth Calder, food science. The University's Teaching Fellows program was made possible by a three-year, \$1.3 million NSF grant. In the program, now entering its second year at UMaine, students develop and conduct science lessons in area school districts. Among the program goals are improved learning opportunities for public school pupils, professional development activities for teachers, and strong partnerships between higher education and public schools. Three of the Teaching Fellows are returning for a second year.

Photo by Monty Rand

McDonough honored by ASEE

The American Society for Engineering Education (ASEE) has chosen John McDonough, associate dean of the College of Engineering, to be a Fellow Member, in recognition of his outstanding contributions to the society.

McDonough, a member of the UMaine faculty since 1976, served as the director of the School of Engineering Technology from 1983-2000. He is the recipient of the 51st annual James H. McGraw Award, engineering technology's most prestigious honor.

The presentation of ASEE's new fellow members for 2001 will occur at the annual awards banquet on June 27 in Albuquerque. The banquet is the culmination of the society's annual conference and exposition.

McDonough also was elected to the ASEE board of directors for a two-year term as chair of professional interest council II. He is a registered engineer in Maine and has been the chair of the Engineering Technology Leadership Institute. Before coming to UMaine, McDonough worked as a structural engineer, and taught in universities in Afghanistan and Algeria.

New Student Summer Orientation 2001

June 15-16	College of Education and Human Development College of Liberal Arts and Sciences
June 16-17	Academic and Career Exploration College of Business, Public Policy and Health
June 17-18	College of Engineering College of Natural Sciences, Forestry, Agriculture
June 22-23	College of Engineering Academic and Career Exploration
June 23-24	College of Education and Human Development College of Natural Sciences, Forestry, Agriculture
June 24-25	College of Liberal Arts and Sciences College of Business, Public Policy and Health

Media Spotlight

Shick in *National Geographic*

Research regarding UV sunscreens in corals, conducted by Malcolm Shick, professor of zoology, Department of Biological Sciences and School of Marine Sciences, sponsored by the National Geographic Society, was cited in the January French edition of *National Geographic* regarding physiological investigations of corals by the group at the Observatoire Océanologique Européen in the Musée Océanographique de Monaco.

Lobster Institute on the CBC and Down Under

The Canadian Broadcasting Company (CBC) aired two stories from the Lobster Institute. One was about the Lobster College, a week-long course all about lobsters, scheduled for later this year; the other about research into seafood applications for green crabs. In addition, the winter edition of the Institute's "The Lobster Bulletin" was reprinted in the bulletin of the South Australian Lobster Advisory Council.

Mageean on AP wire, National Public Radio

Deirdre Mageean, director of UMaine's Margaret Chase Smith Center for Public Policy, was quoted in a Vermont Associated

Press story noting that the new census data shows that Maine, Vermont and New Hampshire are the three states with the highest percentage of caucasian people. A demographer, Mageean pointed out that northern New England lacked the industries that helped draw minorities from the South to places like Michigan and Illinois during the 1930s and '40s. Her comments also were referenced in a report on National Public Radio, and in stories in the *Los Angeles Times* and *Washington Times*.

Sandweiss in *Mercury News*

Comments by Daniel Sandweiss of the Anthropology faculty and Institute for Quaternary and Climate Studies on the significance of a major archeological find in Peru were included in *Science News* and *New Scientist* magazines, as well as the *San Jose Mercury News*. Sandweiss, who was not involved in the study, talked about the discovery of what may have been the first city in the Americas. According to a report in the April 27 issue of *Science*, researchers studying mounds at Caral in Peru's Supe Valley have found artifacts dating to 2,600 BC, about the same time when the Egyptian pyramids were being built. Sandweiss says that the findings are startling and may lead to revisions in theories about the origins of ancient societies.

Camire in *South Bend Tribune*

Mary Ellen Camire of the Food Science and Human Nutrition faculty spoke April 26 with a reporter from the *South Bend (Indiana) Tribune*, about the role of functional foods in the diet and the value of foods containing added medicinal herbs.

Franco-American women cited on E-News site

Susan Pinette, director of Franco-American studies program; Bonita Parent Grindle, diversity resources and search coordinator; and author Rhea Cote-Robbins are all quoted in a story on Franco-American women on the Web site Women's E-News. The story, written by Marie Tessier, describes how Franco-American women are taking the lead to revive their culture and uses recent Franco-American week activities at UMaine as examples of this revival. The story is on the Web (www.womensenews.org/article.cfm?aid=514&mode=today).

Kaye tapped by *Indianapolis Prime Times*

Lenard Kaye, Visiting Libra Professor in the College of Business, Public Policy and Health and the School of Social Work, provided analysis of the challenges facing the home healthcare industry in the April issue of *Indianapolis Prime Times*. He also outlined the opportunities and challenges of population change in the state in an opinion piece, "Optimism for Aging Maine," published in the April 14-15 *Bangor Daily News*.

Zhang in *Boston Globe*

The March 18 *Boston Sunday Globe* included a brief story, with a photo, about the new plant developed by Donglin Zhang of the landscape horticulture faculty. The perennial looks something like a black-eyed Susan.

Toner in *Mass High Tech*

Comments from Jim Toner, director of distance education at UMaine, are included in a story in *Mass High Tech*, a journal about technology issues in New England. The story examines the ways in which regional public universities offer online education. "The University of Maine has evolved from a broadcast paradigm to a networking paradigm," Toner said.

Positions Available

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

(Corrected Announcement)

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

Technical Publications/Communications Specialist, Advanced Engineered Wood Composite Center. Review Begins: June 1. Salary Range: \$25,000-\$40,000. Contact: Send resume with names, addresses and phone numbers of three references, along with two writing samples, to: Doreen Parent, 5793 AEW Building, The University of Maine, Orono, ME 04469-5793.

Laboratory Engineering Specialist, Advanced Engineered Wood Composite Center. Review Begins: June 1. Salary Range: \$25,000-\$35,000. Contact: Send resume with names, addresses and phone numbers of three references to: Doreen Parent, 5793 AEW Building, The University of Maine, Orono, ME 04469-5793.

Mechanical Engineer II, Industrial Cooperation. Review Begins: May 21. Salary Range: \$50,000-\$60,000. Contact: Submit a complete resume including names, addresses and phone numbers of at least three references to John Koskie, Committee Chair, The University of Maine, 5711 Boardman Hall, Orono, ME 04469-5711.

Postdoctoral Research Associate, School of Marine Sciences. Review Begins: May 1. Salary: \$30,000. Contact: C.V. and addresses of three references should be submitted to Susan Brawley, 5722 Deering Hall, The University of Maine, Orono, ME 04469-5722.

Research Associate/Audiologist (half-time), Department of Communications Sciences and Disorders. Review Began: April 30. Salary Range: \$18,000-\$22,000. Contact: Forward cover letter, resume and addresses of three references to Department of Communications Sciences and Disorders, Room 329, 5724 Dunn Hall, Orono, ME 04469-5724.

Director of Recreational Programs, Center for Students and Community Life. Review Begins: May 1. Contact: Submit a letter of application outlining interest and qualifications for this position, a resume, and the names addresses and email addresses for five references to Robert Dana, Senior Associate Dean of Students, Memorial Union, The University of Maine, Orono, ME 04469.

Executive Director, Pulp and Paper Foundation. Review Begins: May 15. Contact: Submit eight copies of a cover letter and resume together with the names of at least three professional references to: Executive Director Search Committee, University of Maine Pulp and Paper Foundation, 5737 Jenness Hall, Orono, ME 04469-5737. (Upon receipt of the resume, applicants will be required to complete a supplemental employment application related to the skills of the job.)

Head Teacher & Lecturer, Child Development Learning Center. Review Begins: May 11. Salary Range: \$30,000-\$34,000. Contact: Send a completed application, including a cover letter addressing the announced responsibilities and qualifications; a complete resume; three letters of reference; transcript of undergraduate and graduate education; and if available, evidence of teaching and supervisory experience in an early childhood setting to: Gary Schilmoeller, The University of Maine, 5749 Merrill Hall, Room 118, Orono, ME 04469-5749.

Assistant Athletic Trainer (full-time fiscal), Athletic Department. Review Begins: May 30, 2001. Salary Range: \$32,000-\$36,000. Contact: Submit letter of application, resume, and three references to Paul Culina, Head Athletic Trainer, The University of Maine, 5747 Memorial Gym, Orono, ME 04469-5747.

Assistant Athletic Trainer (10 month), Athletic Department. Review Begins: May 30, 2001. Salary Range: \$18,000-\$22,000. Contact: Submit letter of application, resume, and three references to Paul Culina, Head Athletic Trainer, The University of Maine, 5747 Memorial Gym, Orono, ME 04469-5747.

INFORMATION ON OPENINGS FOR CLASSIFIED POSITIONS

Because most classified (hourly paid) positions are posted for brief time periods, it is not feasible to announce them in *Maine Perspective*. For updated information on current classified positions available at UMaine, call the jobs line, 581-4567, or check the Web listing (www.umaine.edu/hr/jobs). Application forms are available at: Personnel Services, 124 Corbett Hall, University of Maine, Orono, ME 04469.

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

Feminist scholarship *continued from page 9*

Last year, associate professor Stephen Gilson, who was at Virginia Commonwealth at the time of the award; UMaine professor Elizabeth DePoy; and Elizabeth Cramer of VCU were recognized for their paper on domestic violence against women with disabilities.

The research by Butler and Deprez focused on a survey of participants in Maine's Parents as Scholars Program, which allows women on welfare to attend college. It was passed in 1997, a year after welfare reform went into effect in the form of the federal Personal Responsibility and Work Opportunity Reconciliation Act. The act has dissuaded many women on welfare from pursuing higher education, and caused human services workers to infrequently cite college as an option for welfare recipients, Butler says.

"If the purpose of welfare reform is to assist families out of poverty, higher education makes sense. It is an investment in the workforce and in people," says Butler. "Our research showed that 96 percent of the women participants found college profoundly affected their lives."

Survey participants reported increased self-esteem, enhanced opportunities, enriched lives, better relationships with their children, and excitement about their futures. They were noticeably more optimistic than were the broader cross-section of Maine welfare recipients surveyed in 1994 and 1997; the respondents of those earlier surveys were not necessarily pursuing post-secondary education, says Butler.

"A misconception is that these women are a (financial) risk, but from the responses of those surveyed, it's obvious that they are taking higher education opportunities seriously," says Butler. "These women tend to be nontraditional students who come to college because they want to be here and are more likely to finish. Poverty and family issues are what can make them drop out."

Social workers throughout the country need to advocate for higher education for women on welfare, Butler says. "Maine has set an example, and is being looked to by other states. But even with the Parents as Scholars program in this state, we need to be sure that all welfare recipients know the program exists, says Butler.

"It is so evident that higher education allows these women to make choices in their lives. To not offer higher education to low-income women," she says, "would be a crime." ▲

Faculty *continued from page 2*

science, and public service through the Women in the Curriculum/Women's Studies Program.

Since 1978, Schonberger has been a major contributing member of the steering committee of Spruce Run, the battered women's project in Bangor. In her volunteer work, Schonberger applies her professional expertise as director of women's studies and professor of mathematics. She has been instrumental in Spruce Run's success in such areas as fund raising, committee administration and public education. She brings the "big picture" of women's issues to both the content and methodology of decision making at Spruce Run. Schonberger was one of the founders of the Feminist Oral History Project, begun in 1992, which is writing a book on Spruce Run (the third oldest battered women's project in the U.S.).

Schonberger's professional career as a mathematics educator began with a program of research on women and girls in math and science. A major public service component of this career has been her leadership in the annual, statewide Expanding Your Horizons Conference for junior high school girls. Although Schonberger's work on the project ended in 1996, the 16th EYH conference was held in March. The longevity of the program reflects a societal need and Schonberger's successful efforts to institutionalize the outreach effort.

As director of WIC/WST since 1991, Schonberger has worked within women's studies professional organizations at state, regional and national levels to advance the development of the field. In addition, she connects the academic work of the WIC/WST Program with the broader community through such activities as the weekly lunch series, Women's History Celebration and Maryann Hartman Awards.

▼ Kevin Boyle, who joined the UMaine faculty in 1986, is Libra Professor of Environmental Economics, professor of resource economics and policy, and a cooperating professor of wildlife ecology. He also holds an adjunct professor position in the Department of Economics and the Andrew Young School of Policy Studies at Georgia State University.

Boyle is one of the world's leading environmental economists. His publications have led to significant changes in how research is conducted in his field. His research focuses on the valuation of natural resources and environmental amenities, including the development of many of the definitive conceptual and methodological tools to elicit such values. In addition, Boyle is considered an expert in conducting meta analyses of research results.

Applications of Boyle's research can be found in studies of wildlife – fishing, hunting, non-consumptive uses of wildlife, and the protection of endangered species; water quality – surface water and ground water; forest ecosystem protection; and land-use change. As an expert in these natural resource areas, Boyle is frequently tapped by federal and Maine agencies for policy advice. The Department of Resource Economics and Policy is now nationally and internationally recognized as a premier environmental economics research institution.

Boyle, a Presque Isle native, received his undergraduate degree in economics from UMaine in 1978.

▼ Constance Perry received a bachelor's degree in biological sciences, then an M.Ed. and Ed.D. from UMaine. She joined the College of Education faculty in 1977. Perry teaches educational curriculum, instruction and foundation courses. Her research focuses on teacher caring and moral development. Most recently, her work has broadened to study sense of community and belonging within schools. She has validated a belonging scale for rural students and is now looking at the relationships of belonging, character education and conflict resolution skills to safe schools.

For Perry, teaching is a way of life. Her work with colleagues and students is infused with a spirit of commitment to lifelong learning, innovation and change. She genuinely cares about UMaine and public school communities, and has had a profound influence on the lives of many teachers. Perry has almost three decades of superb teaching evaluations, marking the use of new strategies for instruction virtually every semester she works with students. Her innovative teaching includes unusual assignments that help her know her students' strengths and needs as learners. She inspires a deep devotion in her students to be the best possible teachers of learners of all ages.

Perry's dedication to teaching was further demonstrated three years ago with the initiation of a Methods of College Teaching course to assist colleagues in university instruction. In 1998, she was named founding co-director of the campuswide teaching improvement initiative, the Center for Teaching Excellence. Perry also helped design the Home/School Connections Program, part of the Elementary MAT Program for preservice teachers.

In December, Perry was awarded a national award for her work with students – a Holmes Group Best Practice Award for building university and public school partnerships. Most recently, she received a Post-Tenure Merit Award from the University of Maine System. ▲

Beowulf *continued from page 10*

In order to run the model on the Beowulf Cluster, new computer code for a parallel computer had to be developed. That was done by Steve Cousins, a graduate of the master's degree program in computer science from UMaine. Cousins worked with a similar model developed at the Naval Research Laboratory in Mississippi.

Cousins, who manages the Beowulf facility, is comparing old and new versions of the Penobscot Bay model. Cousins works with Xue and Chai to run both models and uses software to highlight the differences in many small areas of the bay.

"Theoretically, they have the same physics, the same forcings, and they should produce identical results," says Chai. "Currently, we are experiencing some differences between the serial code, which is reliable and robust, and the parallel code. In a serial system, one processor does all the work from beginning to end. When you partition into the 16 or 32 different processors in parallel, they need to talk to each other, and sometimes the communications is not as reliable as expected."

The Beowulf cluster will be available to other UMaine researchers in the future. ▲

Professional employees *continued from page 6*

providing students with the best educational experience possible.

In that spirit, Tracewski voluntarily assists UMaine's NSF Teaching Fellows as they develop and conduct science lessons in school districts near the University. He has provided materials, made equipment available and offered expertise in preparing lessons that turn biological concepts into learning experiences. Through his efforts, Tracewski has affected the science education of undergraduate and graduate students who are NSF Teaching Fellows, as well as nearly 1,000 K-12 students in four local school districts.

Tracewski is described by nominators as "a role model for our students – and our faculty." Another nominator noted that "institutions are no better than the people in them, and Kevin steadily contributes, student after student and day after day, to making UMaine what it should be." ▲

Commencement *continued from page 1*

Maine System Board of Trustees, will bring greetings from the board; University of Maine Alumni Association Board of Directors Chair Gregory Jamison will welcome the graduates to the ranks of alumni.

In the event of inclement weather, two ceremonies will be held in Alford Sports Arena. Students from the College of Business, Public Policy and Health; the College of Liberal Arts and Sciences; and the Division of Lifelong Learning will graduate at 10:30 a.m. A 2:30 p.m. ceremony will be held for graduates from the College of Education and Human Development; the College of Engineering; and the College of Natural Sciences, Forestry, and Agriculture. ▲

Outstanding students *continued from page 13*

recipient. "In the times I felt I couldn't do it, there was always someone from Onward there to encourage me."

Cross is a single mother who was working as a security guard when she enrolled at UMaine through the Onward Program in 1996. She thought about pursuing her interest in genetics and disease research, but one visit to the UMaine Museum of Art changed that.

"I went to my first faculty art show and there were Mike Lewis' paintings. They radiated color and touched my soul. At that moment, I knew why I was going to college; I wanted to learn to touch people's souls with art."

Cross grew up painting, just as her mother did. Cross took art courses in high school and night classes when she could. But it was UMaine that "opened my ideas about what painting, an artist and art can be," she says.

"My art is who I am," says Cross. "In it, all my experiences come through in one way or another. My experiences in the Beautiful Project and with that community of (women's) organizations, and in classes on religion and science. Art is all about change and growth of self – introspection."

Even her experiences in Italy two years ago are mirrored in her art. The studio art major was one of five students from an honors class, taught by Professor of Entomology Randy Alford, to present a paper at an international biotechnology conference. She was the only non-science student in the group.

Every year she has been on campus, Cross has exhibited at least one piece of her art. Her honors thesis, a series of acrylic paintings on canvas and paper, focuses on color, markmaking and surface interaction. The works are on exhibit in the Honors Center, Colvin Hall.

Cross has been instrumental in building a strong community of undergraduate art students on campus. A leader in the Student Art League, she has helped maintain the annual Salon de Refusé, a traditional exhibit of student art not selected for the annual juried show.

The culmination of this chapter of her academic life with a bachelor's degree will mean "I had the strength to follow through on something that took five years to do, even when a lot of people didn't think I could do," she says.

A person who always knew Cross could complete her college education was her mother, Charlene. Charlene was a single mother of five who also worked as a security guard to put food on the table. "Even after all of us were gone, she never did the things she wanted to do, like go to college. Yet she encouraged me," Cross says.

"She was very proud of me when I started school. She died that first year I was in Onward. That's what's driven me to complete what she never got to do."

Cross has applied to graduate school and plans to teach art at the college level. This summer, she will be leading art workshops in her community. ▲

Chemistry *continued from page 14*

the pollution, yet it is a field that is not well known back home," says Sofian, who hopes to help change that when he returns.

In the chemistry lab, Sofian has been involved in research with pesticides and other pollutants. His work has included soil testing for contaminants from airplane fumes at the former Loring Air Force Base. His dissertation focuses on the photo-assisted degradation of toxic gases like NO, as well as pesticides such as carbaryl, an insecticide often applied to fruits and vegetables, and malathion, used extensively in domestic and commercial agriculture, and even for mosquito control.

Most recently as a post-doctoral research associate, Sofian has been involved in research with Associate Professor of Chemistry Carl Tripp in the Laboratory for Surface Science and Technology (LASST). The surface chemistry work includes determining strategies for the detection of nerve gas agents on sensors. Detection selectively must be developed in sensors so that target molecules of toxic nerve agents can be differentiated in a stream of mixed gases. In addition, studies are aimed at better understanding the interaction of nerve agent materials with sensor surfaces.

With other UMaine scientists, Sofian has published extensively in research related to environmental and surface chemistry science.

Both Sofian and Marsha plan to continue to do university-based research in Jordan. ▲

Faculty Technology Week

May 21-25, the Faculty Development Center (IT) is offering Faculty Technology Week to UMaine faculty. The bi-annual event promotes technology to enhance the teaching process and student learning. Choose from a variety of workshops and theoretical seminars that will help you integrate technology in your courses. (See calendar for event details.)

All workshops are conducted at no charge. Necessary equipment, software and materials will be provided.

Breakfasts, lunches and transportation to Augusta (on Tuesday) are provided by the Center for Teaching Excellence.

Register as early as possible to ensure that you have a seat reserved. The number of seats is limited. We will try to accommodate your needs as much as possible. We encourage you to register on-line at www.ume.maine.edu/tech/techweek.html for a quick reservation. If you have to cancel your attendance, please notify us as early as possible so that we can extend an invitation to someone on the waiting list.

For further assistance or directions, contact Andrei Strukov by e-mail (FirstClass) or call 581-1925.

Diversity Across the Curriculum Reading Grants

Applications are now being accepted for Summer 2001 Curriculum Transformation Reading Grants. The grants provide an opportunity for interested members of the UMaine faculty to develop, revise or enhance racial and ethnic diversity awareness within the academic environment. Successful grant applications will significantly address how racial and ethnic issues, perspectives, contributions, values and concerns can improve the quality of academic education in the applicant's classroom, as well as throughout the University of Maine.

Curriculum Transformation Reading Grants require applicants to provide a brief description of why they will be reading these materials, the areas of racial and ethnic diversity concerned, and what impact they expect these reading materials will have on teaching methods, course content and assessment procedures in current courses. At the end of the grant, awardees will provide a statement of how the newly acquired information about racial and ethnic diversity will contribute to current curriculum, classroom dynamic and teaching methodology.

Deadline for applications: Friday, June 1. For the reading grant guidelines or more information, contact Maureen Smith, director of Diversity Across the Curriculum, 581-1407.

Endowment *continued from page 5*

ITV courses for four more years. He ended a nearly 40-year teaching career in the classroom, but not in the world around him.

"Dick is someone with a great sense of community. He continues to volunteer with the museum – from training docents to making road trips to talk with potential donors and to pick up collections," says Whittington. "He also donated his personal collection of ethnographic artifacts, including pieces from the Plains Indians and contemporary cultures."

For the past eight years, Emerick has been a volunteer at Eastern Maine Medical Center. He also volunteers at the Animal Orphanage in Old Town.

But what generations of alumni remember most is the passion for anthropology that Emerick shared with his students. "Dick once calculated he taught over 40,000 students during his years at UMaine," Whittington says. "So many of his students remember him as one of the best professors they ever had. Many of his classes were large and full of enthusiastic students. Indeed, the reason there's an anthropology department and museum on campus is directly related to his teaching."

While he had visited museums as a youngster, it was in the classroom that Emerick discovered the discipline that would be his life's work. As an undergrad at Syracuse University, Emerick took pre-med courses. He also became a licensed Methodist minister with three country churches. But when his organic chemistry lab partner recommended Emerick take an anthropology class, he took a course on Mesoamerican prehistory and earned a C. Yet he discovered his love of exploring "the people part" of the discipline, and became one of four anthropology majors at Syracuse at that time.

For his graduate work, Emerick attended the second oldest American school of anthropology – the University of Pennsylvania. "That was the second good move in my life," he says. "Marriage was the first."

Dick and Marilyn were married in 1952. The physical and cultural anthropology he learned at the University of Pennsylvania launched "an immense journey" for Emerick, and it was Marilyn – a kindred spirit who shared his sense of adventure – who accompanied him.

They spent their honeymoon driving 10,000 miles to all the national parks, where they camped and hiked such landmarks as Mt. Hood. Back in Philadelphia, Marilyn worked for the director of the University Museum.

As a graduate student, Emerick continued the fieldwork research he started in 1949 with the Havasupai of the Grand Canyon. "The first year I was there, there had been only 11 other non-Indians in the canyon," Emerick says. "Now tens of thousands go there. Back then, I walked a 14-mile trail into the canyon. At that time, there were about 300 in the tribe."

During his four summers with the Havasupai, Emerick studied many aspects of their lives, including land ownership. A map he made of the canyon floor was considered the definitive work on the Havasupai's land rights and was used as a legal document in actions the tribe took against the U.S. government.

Emerick's first trip to the eastern Canadian Arctic was as a Ph.D. student on expedition with an archaeologist from the Danish National Museum. News of their recovery of artifacts from a prehistoric Dorset village was covered by *TIME* magazine and media worldwide.

Film footage Emerick made of the Arctic expedition and his research with the Havasupai is now in the Smithsonian.

Emerick next spent two years on the Caroline Island of Pohnpei, which after World War II became part of the U.S. Trust Territory of the Pacific Islands. Marilyn accompanied him, and it was there that

their first child was born.

"A homesteading program was started for out-islanders, bringing them in and giving them land," says Emerick. "My interest was in the settlers who were coming from surrounding coral islands to Pohnpei, with its shorelines covered in mangrove swamps. There were five kings on that island. I helped translate for tribal officials. It was a time of uprisings and beheadings. Half my time I spent in personal research, the other half as a Trust Territory employee, I was supposed to spend helping to implement this horrible program."

Emerick's dissertation on the applied anthropology involved in such a homesteading program remained on restricted circulation for a decade. "Applied anthropology is only good when policymakers decide to employ it, and they will only employ it when it is to their benefit," he says of the experience.

Back in the States, Emerick began his academic career at Bowdoin College, which was introducing anthropology in 1957. While there were other anthropologists doing fieldwork in Maine at the time, Emerick was the first with a Ph.D.

A year later, Emerick joined the University of Maine faculty, teaching in what was then the Department of Business, Economics and Sociology. He succeeded in establishing anthropology as a separate department in 1965. By 1969, Emerick had laid the foundation for an anthropology museum on campus.

"After the first year, the introductory course in anthropology got so large we had to find a bigger room," Emerick says. "Then we had to have three sections. In that time, I had begun hanging things on the walls where classes were taught. That's when the museum started. After three years, the course had to move to Hauck Auditorium, where we taught two divisions with 600 students in each."

Students remember Emerick for his humor, in-depth knowledge and enthusiasm for the discipline, ability to be impromptu and to paint pictures with words. He was named UMaine's fourth Distinguished Maine Professor in 1966.

"I wanted students to realize that we are not the epicenter of creation and the world," he says. "We owe the rest of the biosphere a whole lot that we're not paying for. We have enslaved species and endangered living things. I wanted students to think more about their responsibilities rather than their rights as a species." ▲

Tax-exempt gifts can be made to: Richard Emerick Endowment Fund, University of Maine Foundation, 80 Exchange St., Fleet Center, P.O. Box 2220, Bangor, ME 04401-2220.

Nature *continued from page 8*

If he's not in the classroom or researching plants and herbs, McDonley is in nature – rock climbing, hiking, mountain biking, and working as a volunteer for cave conservation. Even the business he owns is nature-based.

Two years ago, McDonley started a Web-based business called Ancient Wisdom Herbals (www.awherbals.com), which specializes in Amazonian healing plants collected in a sustainable and ethical manner. The enterprise, begun as a "side project" with \$1,000 of his money and a \$4,000 loan from his parents, now provides McDonley with full-time income.

After he finishes his degree at UMaine and his apprenticeship with Ray Reitze, McDonley says he will continue to travel in his all-out effort to explore the world.

"My philosophy in life is to live in the now and see what happens as life unfolds," he says. ▲

Medieval manuscripts *continued from page 9*

of a Levhulme Trust project, Studies on Textual Evolution of manuscripts by Mathematical Analysis (STEMMA). Prior to the start of the two-year STEMMA project in 2000, Mooney spent a year in England on a Guggenheim Fellowship, doing research for a book on professional scribes in medieval England.

In her thesis research, Arrigoni Martelli studied a 1460 manuscript of four segments of Chaucer's *The Canterbury Tales*. Chaucer, an English poet, wrote his famous yet thought-to-be unfinished collection of stories between 1387-1400. The *Tales* are about a colorful group of pilgrims traveling to Canterbury on horseback and telling each other stories to while away the time. *The Canterbury Tales* were hand-written on parchment and copied extensively by scribes prior to the invention of the printing press.

Today, we are left with 84 manuscripts, between whole collections and fragments, none of which is the original written in Chaucer's hand. Part of the mystery is which manuscript is closest to Chaucer's original intention.

Hand copying of the *Canterbury Tales* using quills allowed scribes to write in the dialect of their regions in England, to interpret and even add words where they thought appropriate. As a result, the manuscripts can contain "different layers of language," she says.

"It is amazing how much you can find out about a manuscript and how one connects to others," says Arrigoni Martelli. "You can unlock a whole new world behind the words as you look beyond their strict meaning. You look on a deeper level – on the cell level – looking at how letters are formed and words spelled. On such a pre-language level, you can gain a lot of information you don't normally get."

Accomplished scholars of medieval manuscript handwriting can even tell when a scribe was tiring, just by the changes in his writing.

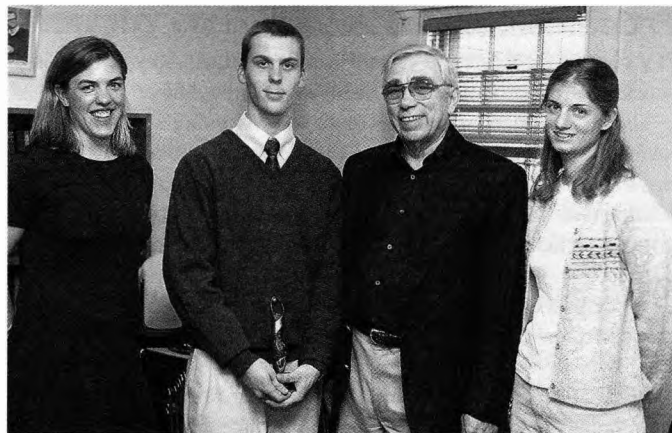
In analyzing the manuscript known as Takamiya 22, Arrigoni Martelli has systematically mapped the spelling and meaning of words, the handwriting, random words and dialect in *Clerk's*, *Wife of Bath's*, *Friar's* and *Summoner's* prologues and tales. The idiosyncrasies of the scribe who wrote this manuscript in brown ink on parchment, with 21-29 written lines per page, are compared to those analyzed by scholars in other *Canterbury Tales* manuscripts.

Arrigoni Martelli's research, and that of other scholars studying Chaucer's manuscripts, is expected to be published by the Canterbury Tales Project at De Montfort University in Britain. The project has established a system of transcription for all the manuscripts and early printed books of the *Tales*. It is hoped that computer-based methods for comparing linguistic differences and similarities in manuscripts will one day lead to the reconstruction of the history of the text and assist scholarship in the field.

Arrigoni Martelli, who defended her master's thesis in December, has been accepted into the Ph.D. program at the University of Glasgow. There, she is interested in conducting research under Professor of English Philology Jeremy J. Smith, a leading authority in Old and Middle English language and literature, including codicology. His publications include *The English of Chaucer* and *Essentials of Early English*. The focus of his current research is on Middle English linguistic studies.

"It has to do with figuring out the logic of the manuscript," says Arrigoni Martelli. "There are so many things we don't know enough about: how the scribes worked, how books were transmitted, how they decided to spell various words under different circumstances – their active and passive vocabulary.

"As a result of working with Linne in this research, I have the skills to work on a Middle English manuscript anywhere in the world. I know the logic – and the landscape." ▲



The second annual John M. Rezendes Ethics Essay Competition Award was presented April 30. Nicholas Robertson of Holden, second from the left, a sophomore with a double major in philosophy and French, and a minor in linguistics, won the award for the essay "Wittgenstein, Education, and the Value of Literature." First runner-up was senior biology major Christine O'Neill from Garden City, N.Y., right, for "The Responsibility of Doctors to Uphold Patient Confidentiality in Cases of Perinatal Drug Abusers"; second runner-up was Sarah Ruddy of Rockport, left, a junior in English, for "What Is the 'Right to Reproduce'?" The three essays were among 27 submissions this year. On hand for the ceremony was alumnus Dennis Rezendes, third from the left, who established the award in memory of his father.

Photo by Monty Rand

Intern *continued from page 9*

studying social work and sociology at Southern Maine when he died two years ago.

Tannian was working in the purchasing department of a small plastics company in Massachusetts when she decided it was her turn to get a college education. She left her job, the support of her family and friends, and moved into Estabrooke Hall on campus. There she found nontraditional, international and graduate students who shared her passion for pursuing what they want most out of life.

Tannian was determined to graduate in 2000. Last May when she walked up to get her diploma, she carried an extra graduation cap for Scott, who would have graduated that same year at the age of 34.

She started her master's work last fall.

In her academic career, Tannian's honors have included the Ray Dow Award for Excellence in Social Work by the Maine Chapter of the National Association of Social Workers, which Tannian says reflected "all my energy, determination and connection to Nativeness." Most recently, she was one of 12 Native American students selected nationwide for the Morris K. Udall Congressional Internship Program, which will send her to Washington, D.C., for 12 weeks this summer as a congressional intern. The program was created to develop increased opportunities for students pursuing careers in healthcare and public policy related to the environment and to Native Americans.

"One of the biggest rewards of a college education is gaining self-esteem and confidence, and growing as a person," Tannian says. "Sometimes the way I allow myself to experience successes is through the light in my mother's eyes."

Tannian, 56, says her future is still unfolding. "I want to work on the macro social work level – the big picture – helping to advocate issues to the legislature, such as the importance of Penobscot Representative Donna Loring's LD 291 to require Native history and culture to be taught in Maine's schools. And if one day I took the ceiling off, I would be in the legislature. To do that, I would hope to have the knowing of traditional ways to bring my people together in tradition and peace so we have unity – and have a voice." ▲

Big questions *continued from page 8*

Peterson enrolled as an undeclared major in liberal arts. In his first year, he took a philosophy class that "had a big influence in making me ask questions and think about bigger issues," he says.

It was a developmental biology class taught by Professor of Zoology Mary Tyler that got Peterson interested in developmental genetics. He became fascinated in "how life can begin from one cell."

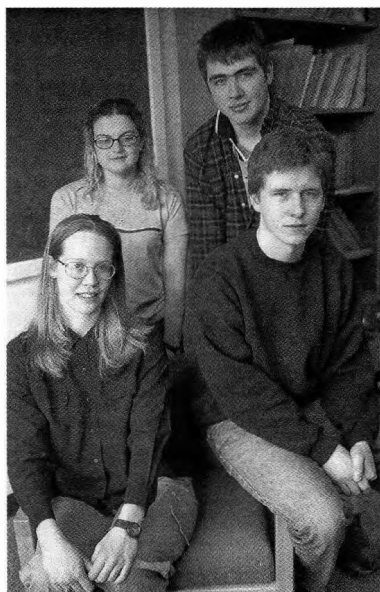
For Peterson, biology and philosophy intersect. "Both use observation and hypothesis. Science starts as a philosophical pursuit," he says.

In his internship this academic year, Peterson spent four days a week at Jackson Lab, usually putting in 12-hour days. He got moral support from his two best friends and roommates, who often cooked him dinner when he got home late. He was inspired to be involved in cutting-edge genetics research.

"Jackson Lab is a fast-paced, world-class facility," says Peterson. "There is so much opportunity in such a highly intellectual setting. You can get totally immersed in the subject matter."

Peterson will continue to work on a research team led by Jackson Lab scientist Tim O'Brien, and which includes UMaine alumnus Ian Welsh, a 1996 co-valedictorian. In a comparison study of human and mouse chromosomes, the researchers are trying to understand what genes are essential for development. Recently sequenced human DNA has given scientists access to all the possible genes. Once all the genes and their locations are known, researchers can then conduct experiments using mice to begin to understand gene function.

After he gets his Ph.D., Peterson plans a career in research. He also hopes to author his first book, which will blend biology and philosophy to address "the big ethical questions" on the horizon for modern society. ▲



This year, the 61st annual William Lowell Putnam Mathematical Competition, administered by the Mathematical Association of America, was held Dec. 2, with the results announced in March. UMaine ranked 138th out of 434 undergraduate institutions that participated. The UMaine students who participated are, left to right, Catharine Wright (seated), a fourth-year math major from Standish; Carrie Diaz, a junior math major from Canton, Mass.; Thomas Enkosky of Waterville (seated), a second-year math major; and Kirill Tsybin of Samara, Russia, a second-year student

majoring in computer engineering and mathematics. Diaz ranked 422nd out of a total of 2,818 participants nationwide – a significant achievement based on the difficulty of the exam. Tsybin was UMaine's top scorer last year. Students who compete in the Putnam take MAT 329 – Problem Seminar, taught by Associate Professor of Mathematics Ali Ozluk. The Putnam exam is constructed to test students' originality, as well as technical competence. It is expected that contestants are familiar with the formal theories embodied in undergraduate mathematics. The competition began in 1938 and is designed to stimulate a healthful rivalry in mathematical studies in the colleges and universities of the United States and Canada.

Little City *continued from page 8*

Five years ago, Martin began thesis research on domestic or residential architecture. In particular, she had an interest in a two-story architectural style known as foursquare. But in her study of Bangor's vernacular architecture, Martin discovered something more.

Architecture affected the growth, values and identity of the middle class. Social forces and technological innovations such as the electric streetcar encouraged a growing middle class to move to the outskirts of town. The middle-class family ideal was expressed in the domestic architecture – the homes – in Little City.

"Architecture reflects people's values, influences and interactions. Where you live is one way to identify yourself. Little City reflected and promoted the aspirations of the middle class in Bangor at the turn of the century," says Martin, who will complete her master's in August. "My thesis argument is that the domestic architecture here reveals what builders thought middle-class aspirations were like in early 20th-century Bangor."

While Kirstein and Sons, a prominent insurance and real estate firm in Bangor, is credited with the rise of the neighborhood, a number of area builders and real estate speculators were involved in the neighborhood's growth. Despite the diversity in contractors, all acted as promoters of a middle-class family ideal.

Bangor's middle class seemingly rejected the most popular house form of the early 20th century, the bungalow, for the more conservative, foursquares. It appears that middle-class residents in Bangor, and the contractors who built their homes, were not ready to accept wholesale changes in domestic architecture – such as open floor plans – that accommodated the changes in family relationships – like greater togetherness.

"Scholars have used the open floor plan of the early 20th-century single-family house as evidence that families were spending more time together in convivial activities," Martin says. However, that's not the architectural record found in Little City.

In a field study of the interiors of 22 single-family homes built between 1890-1930 in Little City, Martin found characteristics of both Victorian formality and what were then new elements reflecting a companionate family idea. Floorplans of Bangor homes built during this time included an extra room or hallway, unlike building patterns in plan books and periodicals of the day. Developers' choices of what new concepts to incorporate from this period, known as the Progressive Era, provide information about perceptions of middle-class expectations for houses and family relationships, she says.

"While house manuals of the day said to get rid of gingerbread, Bangor builders retained a lot of it. While there were clean lines on houses in Little City, there was still ornamentation, but it was toned down," Martin says. "In every house I visited, I found nice molding (around doors and windows), which the *Ladies' Home Journal* of the day had on its (remodeling) list of do's and don'ts as something to avoid.

"This divergence from the ideal architecture suggests that the builders of single-family houses anticipated a family ideal that contained elements of both the companionate ideal and elements of a late-19th-century ideal that values formality and ritual in family interactions." ▲

Peace Corps at the University of Maine

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

U.S. Department of Agriculture's Fund for Rural America

supports research, extension, and education that contribute to economic diversification and sustainable development in rural areas. In FY01 there are two program areas, each with several subprograms: Rural Community Innovation and Harnessing Demographic Change to increase Rural Opportunity. Deadline: June 19.

National Science Foundation's CAREER Program supports the early career-development activities of faculty members as teachers and scholars. Eligible applicants are untenured, tenure-track faculty in disciplines supported by NSF who received a first doctorate after Oct. 1, 1993 and entered a first tenure-track position after Oct. 1, 1997. Awards provide support for five years and total at least \$300,000. Deadlines fall in late July.

U.S. Environmental Protection Agency solicits proposals for research in the area of corporate environmental behavior. The two principal topics are identifying the determinants, or motivators, of regulated and non-regulated entities' behavior/performance; and assessing the influence of governmental interventions and voluntary initiatives on this behavior/performance. Proposals are encouraged from researchers in all legal, behavioral, social, organizational, and economic sciences. Deadline: Aug. 15.

Canadian Government makes grants to U.S. scholars in the social sciences and humanities to assist work that contributes to a better knowledge and understanding of Canada and its relationship with the U.S. and/or other countries of the world. Grants are available for research and writing (deadline Oct. 1), as well as for course development (deadline Oct. 31).

Office of Naval Research has announced the FY02 New Investigator Program, inviting U.S. citizens, nationals, and permanent residents who received Ph.D. degrees on or after Nov. 1, 1996 and who hold tenure track positions to submit proposals in areas of ONR research interest. Awards provide a minimum of \$100,000 per year for three years. Deadline: Nov. 1.

AARP Andrus Foundation's programs seek new approaches to maximizing the independence of older persons. There are two current priorities for research grants: Living with Chronic Health Conditions, and Aging and Living Environments. Most awards are \$75,000 - \$100,000 for periods of up to two years. Preliminary letters of inquiry may be submitted at any time.

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

Hours for the Depot Recycling and Redemption Center:
noon-6 p.m., Monday-Friday,
10 a.m.-2 p.m., Saturday.
For more information,
call Denny Grant, 581-3076.

CENTER FOR TEACHING EXCELLENCE

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

(www.umaine.edu/teaching)

TEACHING LINKS

As we get closer to the end of the semester, we all experience stress – creating an exam, taking an exam, figuring out how can we get it all done, etc. Below are sites that will be useful to you, as well as to your students.

<http://www.back2college.com/time.htm>

Thomas Edison State College has put together a compendium of tips for time and stress management: "Priority Setting," "Time Scheduling," "Ten Ways to Do It Now," "When to Study and How to Handle the Rest of the World."

<http://www.arc.sbc.edu/stress.html>

The Academic Resource Center at Sweet Briar College has a page devoted to stress management. In addition to the "Stress Quiz," "Tips for Managing Stress," etc., you can link to other sites set up for reducing stress.

<http://www.mtsu.edu/~studskl/>

Middle Tennessee State University has a comprehensive site for study skills and strategies for success. Under "Strategies for Success" and you will find "Strategies for Taking Any Tests," "Checklist for Discussion or Essay Tests," "Time Management," and even quizzes to test your hemispheric dominance.

Planning begun for Commute Another Way Day

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

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

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

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

What's Ahead



**"Real Teachers Use
Real Technology"**
May 21

**Diversity Leadership
in the 21st Century**
May 22-23

Reunion Weekend
June 8-10

Special Olympics
June 14-17

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