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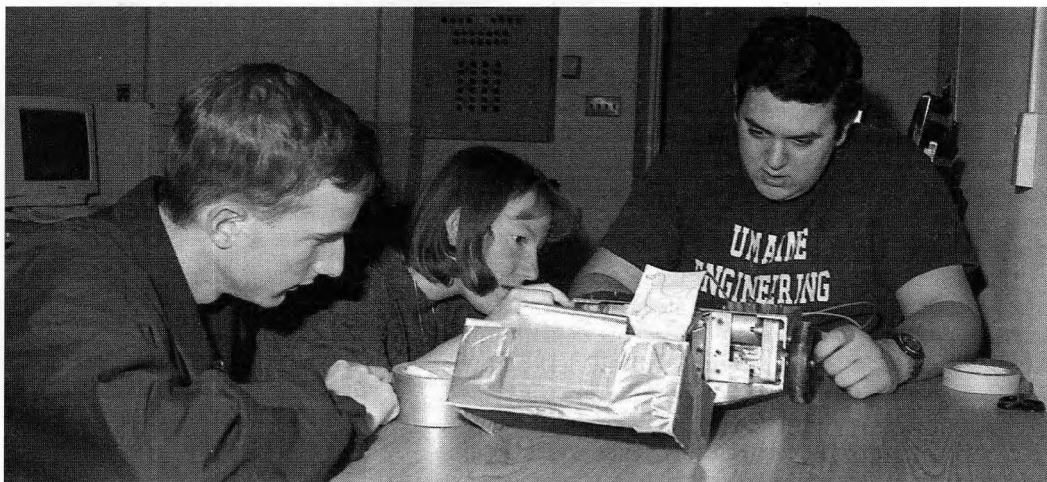
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Computer engineering students Stephen Tibbetts of Eastport, left, and Lisa Wellman of Kennebunk, and electrical engineering major Nicholas Clark of Oakfield were among 70 first-year students in an introductory electrical and computer engineering course who last month vied for top honors with the remote-controlled model cars they spent the semester assembling and wiring. See related story on page 16.

Maine Agricultural Center Proposed for UMaine

Maine agriculture is not what it used to be.

The many middle-size dairy farms that once dotted the landscape largely have been replaced by large operations or smaller diversified farms. Genetic engineering is increasingly involved in animal and plant production. Major cash crops include not only potatoes and blueberries but landscape and nursery materials.

Now more than ever, the proactive involvement of the University of Maine with the state's agriculture industry is needed.

This month, the University of Maine will present a proposal to the University of Maine System Board of Trustees to establish a Maine Agricultural Center on campus. The proposal was developed in response to calls by the legislature's newly formed Board of Agriculture and the System's Agricultural Task Force for the state's land-grant and primary research university to anticipate and respond to the ever-changing needs of Maine's agriculture industry in a more effective, systematic manner.

Agriculture-related research and programs will be prioritized and expanded to meet the growing and changing needs of Maine agriculture. The Center will build on what continues to be a multi-million-dollar agriculture research investment at UMaine.

If approved, the Center will coordinate and expand the research and Extension services provided to Maine agriculture. The Center, to be located in Winslow Hall, will be established using existing resources, with University of Maine Cooperative Extension and the Maine Agricultural and Forest Experiment Station jointly responsible for its budget.

"This is a reaffirmation of the University of Maine's land-grant mission and a way to improve delivery on that commitment," says Steve Reiling, associate director of the Experiment Station who will direct the proposed Center. "This will more effectively coordinate the University's research with its Extension programs and demonstration projects related to Maine agriculture, creating a visible focal point for agriculture activities on

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Ice Storm '98 Offered Opportunity to Study Media Deprivation in an Information Age

Ice Storm '98 that left much of the state without power last January also left residents without the mass media that is so much a part of modern-day life. With the approach of the first anniversary of Maine's so-called storm of the century, two UMaine researchers released a study of the affect of the almost total information blackout on people in Maine during that period, and how the media that remained was used.

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In Perspective

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- 10 **In Focus: Raymond Vigue**

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

UMaine to Develop Model Laboratory Safety Plan

This semester, discussions will begin on campus to develop a model laboratory safety plan for the University of Maine that could set the standard for educational institutions statewide.

Development of the laboratory safety plan is part of the University's win-win proposal to the state Department of Labor in response to health and safety citations that resulted from a campuswide inspection last April-July. In particular, a laboratory safety plan will address Department of Labor citations for inappropriate chemical storage and inadequate health controls in a laboratory setting.

According to Victoria Justus, director of UMaine's Department of Environmental Health and Safety, a working group is being established to draft a laboratory safety plan model that meets Department of Labor requirements for compliance, and UMaine requirements for flexibility and applicability in a dynamic research institution.

Members of the University community interested in helping establish laboratory safety standards for UMaine and educational institutions statewide are invited to join representatives from the University of Maine System, UMaine and the Department of Labor in the working group.

"This is an opportunity for those who want to make safety history in Maine," says Justus. "They will assist in developing a regulatory model and taking positive action."

A \$2,500 fine initially levied against UMaine for violations in this area was rescinded by the Department of Labor and earmarked by the University for training and implementation of the completed laboratory safety plan across campus. The plan also will be offered to Maine colleges, universities and K-12 schools.

Development of better training and procedures for safe chemical storage are among the actions UMaine is taking to address the Department of Labor citations. Of the 456 health and safety citations at UMaine that resulted from the Department of Labor's stepped-up oversight of public institutions statewide last year, 367 have been closed, with the remainder being addressed programmatically or through scheduled corrective actions.

Environmental Health and Safety has begun its own quality control audit by randomly inspecting 10 percent of the areas on campus cited by the Department of Labor for health and safety violations. In addition, the Department of Labor is expected to conduct another inspection of the University this year. ▲

Reaccreditation Evaluation Team to Visit Campus in April

The University of Maine will undergo a comprehensive evaluation visit April 5-8 by a team representing the Commission on Institutions of Higher Education of the New England Association of Schools and Colleges.

The Commission on Institutions of Higher Education is one of eight accrediting commissions in the United States that provide institutional accreditation on a regional basis. Accreditation is voluntary and applies to the institution as a whole. The Commission, which is recognized by the U.S. Department of Education, accredits approximately 200 institutions in the six-state New England region.

UMaine has been accredited by the Commission since 1929 and was last reviewed in 1988. Its accreditation by the New England Association encompasses the entire institution.

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The 37 members of Campus Living's custodial staff were honored last month at a surprise pizza party. The staff was recognized for its excellent record of safety improvements in the past few years, and its outstanding on-the-job safety and health evaluation by the state Department of Labor last summer. Accepting a plaque on behalf of the staff were Jodie Dowling and David Simon, custodial services supervisors. Those also on hand for the presentation included, at left, Zig Kachan, Campus Living housing services manager, and Andy Matthews, associate director of Campus Living; Chief Financial Officer Robert Durringer, center, and Victoria Justus, right, director of UMaine's Department of Environmental Health and Safety. Increasing health and safety on the job has been a grassroots effort for the Campus Living custodial staff, which established its own safety committee two years ago. During the 10-week campuswide inspection by the Department of Labor last April-July, 17 Campus Living buildings were evaluated according to OSHA standards. One citation was issued for the lack of eyewashes in chemical use areas - bathrooms, hallways and custodial closets. In an appeal hearing in November, the Labor Department agreed to a compromise, calling for custodians to carry eyewash bottles on their person or carts. The suggestion, which came from the custodial group, saved the University an estimated half-million dollars in the purchase and installation of new eyewash stations throughout the academic and Campus Living buildings at the University of Maine.

Photo by Kathryn Rice

MAINE PERSPECTIVE PUBLISHING SCHEDULE

The spring publication schedule of *Maine Perspective* is:

Jan. 22 (copy deadline Jan. 11); Feb. 5 (copy deadline Jan. 22);
Feb. 19 (copy deadline Feb. 5); March 12 (copy deadline Feb. 26);
March 26 (copy deadline March 12); April 9 (copy deadline March 26);
April 23 (copy deadline April 9).

Monthly summer editions of *Maine Perspective* will begin May 14.

MAINE Perspective

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UNIVERSITY OF
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Calendar

MAINE

All events are free and open to the public unless otherwise specified. Any speaker not otherwise identified is a member of the University of Maine faculty, staff or student body. Send notices of upcoming campus events to: *Maine Perspective* Calendar, Public Affairs. Calendar of events listings **MUST** be typewritten and should be sent well in advance of the publication date. For more information, call 581-3745.

JANUARY 11 - 23

11 Monday

Meetings with Candidate for Vice President for University Advancement
Thad Henry, vice president for institutional advancement, William Jewell College, 1:30 p.m., for faculty and staff; 2:15 p.m., for students, Jan. 11, Bangor Lounge, Union. x1655.

12 Tuesday

Meetings with Candidate for Vice President for University Advancement
John Carothers, vice president for development, Wilson College, 1:30 p.m., for faculty and staff; 2:15 p.m., for students, Jan. 12, Bangor Lounge, Union. x1655.

13 Wednesday

Task Force on Safe Schools Public Forum, coordinated by the College of Education and Human Development, 7 p.m., Jan. 13, Wellman Center, Bangor Theological Seminary. x2441.

Men's Ice Hockey: Maine vs. Yale, 7 p.m., Jan. 13. Admission fee. xBEAR.

14 Thursday

Meetings with Candidate for Vice President for University Advancement
Tom Daffron, consultant, 1:30 p.m., for faculty and staff; 2:15 p.m., for students, Jan. 14, Bangor Lounge, Union. x1655.

15 Friday

Meetings with Candidate for Vice President for University Advancement
Susan Reardon, vice president for university advancement and marketing, Ferris State University, 1:30 p.m., for faculty and staff; 2:15 p.m., for students, Jan. 15, Bangor Lounge, Union. x1655.

Women's Ice Hockey: Maine vs. Yale, 7 p.m., Jan. 15. xBEAR.

16 Saturday

"Basketmaking," a Hudson Museum Just for Kids Program, 10 a.m., Jan. 16, Maine Center for the Arts. Preregistration. Fee. x1901.

Men's Basketball: Maine vs. New Hampshire, noon, Jan. 16. Admission fee. xBEAR.

Bangor Symphony Orchestra Family Casual Concert, 7 p.m., Jan. 16, Hutchins Concert Hall. Pre-concert preview with Stuart Marrs and members of the BSO Percussion Ensemble, 6 p.m., Bodwell Lounge, Maine Center for the Arts. Admission fee. 942-5555.

Women's Ice Hockey: Maine vs. Yale, 7 p.m., Jan. 16. xBEAR.

Keith Crook Faculty Recital, part of the School of Performing Arts season, 7:30 p.m., Jan. 16, Minsky Recital Hall. Admission fee. x1755.

17 Sunday

Men's Ice Hockey: Maine vs. UMass-Amherst, 2 p.m., Jan. 17. Admission fee. xBEAR.

Bangor Symphony Orchestra Concert, 3 p.m., Jan. 17, Hutchins Concert Hall. Pre-concert preview with David Klocko, 2 p.m., Minsky Recital Hall. Admission fee. 942-5555.

18 Monday

No Classes - Martin Luther King Jr. Day Observance, Jan. 18.

3rd Annual Dr. Martin Luther King Breakfast, offered by the Greater Bangor Area NAACP and UMaine Human Rights Coalition, part of UMaine's Martin Luther King Jr. Day Observance, 8:30-10:30 a.m., Jan. 18, Wells Conference Center. Admission fee. For tickets, call x1405.

Films and Presentations in Observance of Martin Luther King Jr. Day, including *Skin Deep*, a film followed by discussion facilitated by Michelle Rosemond; "Multicultural Voices Sharing Their Reality," a presentation by Dialogues in Diversity students; *Promised Land: Montgomery After Martin Luther King Jr.*, a film followed by discussion facilitated by Shannetta Mennenga, offered by the Center for Students and Community Life, 11 a.m.-5 p.m., Jan. 18, Bangor Lounge, Union. x1405.

Candlelight Vigil, part of UMaine's Martin Luther King Jr. Day Observance, 5 p.m., Jan. 18, Union steps. x1405.

19 Tuesday

President Hoff's Open Office Hour, 10 a.m., Jan. 19, Alumni Hall.

Meetings with Candidate for Vice President for University Advancement
Joe Mitchell, vice president for university advancement, University of Northern Iowa, 1:30 p.m., for faculty and staff; 2:15 p.m., for students, Jan. 19, North Lown Room, Union. x1655.

"How to Find Internships," a Career Center workshop, 2:10 p.m., Jan. 19, Chadbourne Hall. x1359.

20 Wednesday

Meetings with Candidate for Vice President for University Advancement
Patricia Stewart, vice president of Florida State University Foundation, 1:30 p.m., for faculty and staff; 2:15 p.m., for students, Jan. 20, North Lown Room, Union. x1655.

21 Thursday

"How to Get Around Europe on 84 Cents a Day," by Gil White, part of the Guest Lecture Series, 7 p.m., Jan. 21, Devino Auditorium, Corbett Business Building. x1777.

Performance by the Band Gush, offered by the Union Board, 9 p.m., Jan. 21, Bear's Den. x1734.

22 Friday

BearWorks Discussion, featuring presentations on benchmarking by Tom Skaggs and on parking, transportation and bus routes by Anita Wihry, 3:30 p.m., Jan. 22, Woolley Room, DTAV. Open to all members of the University community.

Women's Basketball: Maine vs. Delaware, 7:30 p.m., Jan. 22. Admission fee. xBEAR.

23 Saturday

Men's-Women's Swimming and Diving: Maine vs. Providence College, 11 a.m., Jan. 23. xBEAR.

The Crackwalker Tapped for College Theater Festival

Maine Masque's *The Crackwalker*, a play produced on campus in October, has been chosen for the regional competition of the American College Theater Festival.

The festival will be held Jan. 27-31 at the Spingold Theatre Center at Brandeis University, Waltham, Mass. Winners from this and the other seven regional competitions will perform at the Kennedy Center in Washington, D.C.

Last spring, two UMaine theatre students, James Beer and Jim Day, advanced to the national competition after winning in regional competition for their work on the student-directed production, *Unidentified Human Remains and the True Nature of Love*. Beer designed the set, Day the contemporary costumes.

"This festival is like March Madness for theater students," says Sandra Hardy, associate professor of theater who directed the production. "It's a wonderful place to make contacts and a real learning experience for everybody."

The play was chosen after two ACTF judges watched performances on campus. *The Crackwalker*, by Canadian playwright Judith Thompson, will be presented with four other plays from Region One - Connecticut, Massachusetts, New Hampshire, Rhode Island and Vermont.

Also selected for competition were Southern Connecticut State University, Colby Sawyer College, Boston University, Franklin Pierce College and Salem State College.

The Crackwalker is an extremely challenging play to perform on a college stage. Hardy says she chose it because of the number of outstanding UMaine student actors who were ready for just such a challenge.

"It's a play about bigotry and ignorance, about abusive love and the pathos of unrewarded struggle," says Hardy. "Judith Thompson insists those of us who are fortunate, who haven't fallen through the crack, take a realistic look at the life of those who do. She's written a powerful script, perhaps not for the faint-of-heart, but for an audience who wants thoughtful, moving drama with strong writing and riveting performances."

Appearing in *The Crackwalker* are Misty Jordan, a senior from Bar Harbor; Kristin Williams, a graduate student from Millinocket; Andy Lyons, a junior from Orono; Christopher Ashmore, a senior from Ellsworth; and Carlos Henrique Fontes, a visiting student from Natal, Brazil.

American College Theater Festival, sponsored by the Kennedy Center, is an opportunity for colleges and universities to showcase their theatrical work and the talents of students. ▲

Center Stage

School of Performing Arts

Classical Guitar Performance

Perennial favorites and obscure masterpieces for classical guitar will highlight the faculty recital of Keith Crook Saturday, Jan. 16 in Minsky Recital Hall.

The 7:30 p.m. concert will feature music for Spanish guitar from historical periods spanning 500 years, including flamenco pieces. Selections will include *Asturias* by Isaac Albeniz, *Recuerdos de la Alhambra* by Francisco Tarrega and *Omaggio* by Manuel de Falla

Crook teaches guitar at UMaine, the University of Southern Maine and Portland Conservatory. As president of Down East Society for Classical Guitar, he has been instrumental in organizing nine Classical Guitar Competitions for Maine students.



Conductor of the Bangor Symphony Orchestra Christopher Zimmerman, left, joined Associate Professor of Music Anatole Wieck and School of Performing Arts Director Diane Roscetti for last month's announcement of Operation Harmony, a new graduate program in music. Four student musicians, selected in a nationwide search, will receive free tuition and a stipend as the School of Performing Arts Graduate String Quartet and as members of the string section of the Bangor Symphony Orchestra. The quartet also will offer live performances in schools and other community venues. Since the announcement of the cooperative venture between the School and Symphony, inquiries about the program have come from as far away as Canada and England. Finalists for the four positions are expected to be on campus in March.

Photo by Kathryn Rice

Ancient Peruvian Artifacts Added to Hudson Collection

The Hudson Museum has received a donation of ancient Peruvian artifacts from a private collector in New York.

The 14 artifacts include textile clothing items, shell and stone carvings and a gold earspool, all in good to excellent condition.

The items range in age from 600 B.C. to the time of the Spanish Conquest in the 1500s. The donor, who wishes to remain anonymous, first learned of the Hudson Museum when he loaned items for a Hudson Museum exhibit of Peruvian artifacts last year, *Empires Emerging: Collecting the Peruvian Past*.

"The donated items are of a very high quality and are important additions to the Hudson Museum's Peruvian holdings," says Stephen Whittington, Hudson Museum director.

"The fabrics and other artifacts were well preserved by the dry conditions of the Peruvian coast. The fabrics include tapestries of llama and alpaca wool, double cloth, gauze and tie-dyed cotton, all still retaining most of their original structural integrity and vibrant colors. The donor has one of the best private collections around."

The artifacts include an Inca miniature poncho (7 inches by 9 inches) with red, black and yellow stripes found on the south coast of Peru, most likely made between 1300-1500 A.D. to be worn by a baby.

There is also a gold earspool and three shell ornaments carved in the shapes of jaguars from the Chavin culture, which existed between 600-100 B.C. These are the first Chavin artifacts the Hudson Museum has owned. ▲

Send notices of upcoming campus events
to *Maine Perspective* for the UMaine Calendar.

Gallery Glimpses



Pompeii Street, 1987, gelatin silver print.
Evelyn Hofer

Hofer Photographs

The Museum of Art will host two exhibitions of the photographs of Evelyn Hofer Jan. 29-March 17.

An opening reception Friday, Jan. 29, 5-7 p.m., will be highlighted by a gallery tour by Edmund Yankov, curator of the Hofer exhibitions.

In his article "Enduring Images" (*New York Sunday Times Magazine*, February 1982), Hilton Kramer wrote that "the quality of pure observation that we find in Miss Hofer's pictures, and their

serene indifference to the accidental, the sordid, the trashy, and the vulgar, has more often been appreciated by writers, painters and magazine editors than by the panjandrum of the contemporary photography world."

Hofer's elegant, straightforward approach to her art is exemplary in *Interiors*, an overview of Hofer's color photographs of interiors from 1962-1987. Through her images, one can imagine standing alone in the regal serenity of the Villa Medici in Rome; or the chic art deco atmosphere in the Ladies Room of New York's Radio City Music Hall; or the quiet solitude of Diego Rivera's bedroom in Mexico. All of her photographs were created using existing light, which enhances the subtlety and nuance of color and composition in each image.

In addition, a selection of 24 photographs from Hofer's book *Emerson in Italy* constitute the second Museum of Art exhibition. In 1832, Ralph Waldo Emerson, suffering from tuberculosis and, disenchanted with his profession as a Unitarian minister, set off in search of his "true self" by examining the art and architecture of the "Old World" in Italy, hoping to gain insight into the nature of man and an understanding of his rapidly changing society. Inspired by Emerson's journals of his voyage, Hofer and writer/Emerson scholar Evelyn Barish set off in 1986 to retrace Emerson's wanderings through Malta, Sicily and Italy.

Equilibrium, stillness and monumentality have always been the hallmark of Hofer's work with a camera. The *Emerson* photographs further illustrate a consistency of vision that is uniquely Hofer's. Due to the preservation of the antiquity of the

Italian landscape and architecture, many of the views in Hofer's photos are as they were when Emerson saw them more than 160 years ago – Mount Etna in Sicily, the cloisters at San Giovanni in Palermo, the ancient Via Appia Antica. The show is comprised of black and white and color images.

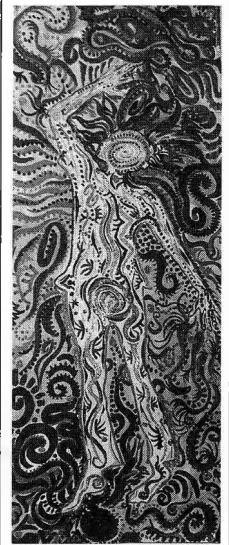
Hofer's photographs appear in many private and public collections worldwide, most notably The Museum of Modern Art in New York, New Orleans Museum of Art, Houston Museum of Fine Art, Centro Cultural Arte Contemporaneo in Mexico City, Musée de l'Elysée, Lausanne, Switzerland – and now, the University of Maine Museum of Art.

Basketmaking Just for Kids

Basketmaking will be the focus of the Hudson Museum's next Just for Kids program, Saturday, Jan. 16.

Pam Cunningham, a Penobscot basketmaker, will teach workshop participants how to make turtle book-marks and ornaments using brown ash splints and sweetgrass.

The 10 a.m., program is for children in grades 3-6 and their parents.



This "full body mandala," published in *Maine Perspective* in November, incorrectly identified the artist. The mandala, part of *A Collective Vision: Uncovering Layers of Artistic Energy*, is by senior studio art major Willa Wirth.

Career Fair Links Students to Jobs, Internship Opportunities

Third-year bio-resource engineering student Brian Lafaille spent last summer studying oxygen levels in the waters around Narragansett Bay as part of an internship with the Rhode Island Department of Environmental Management.

Lafaille, of Burrillville, R.I., was one of 62 students in New England – four from UMaine – chosen from 200 applicants to participate in the New England Board of Higher Education Environmental Internship Program. The NEBHE program started in 1995 and offers paid internships in 26 corporations, 28 government agencies and six non-profit organizations.

Lafaille spent 10 weeks working with a water resource engineer. In addition to studying the health of the waters in the Narragansett Bay area, he worked with other students designing an environmental Website for children (www.nebhe.org) and attended an environmental symposium.

"I got a lot of good hands-on experience and I got to work with another engineer and see what it was like," Lafaille said. "I also saw the problems of an environmental career, like getting pulled in a lot of different directions."

Lafaille is one of a growing number of students taking advantage of internship opportunities to gain practical experience and training. The Career Center estimates that last year, more than

Many internship application deadlines fall in February. In preparation, the Career Center is sponsoring its second annual Career Fair, 10 a.m.-3 p.m., Thursday, Jan. 28, Wells Conference Center.

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Oral Exams

"Image Processing and GIS Analysis of Peruvian Beach Ridges: El Niño and Seismic Components of Coastal Change," by Stacy Shafer, Institute for Quaternary Studies, 2 p.m., Jan. 13, 100 Bryand Global Sciences Center.

Training sessions on the use of on-line FAST (Financial Accounting System) will be offered in 111 Corbett Business Building on the following days: Friday, Feb. 5, 3:15-4:15 p.m.; Wednesday, March 3, 9-10 a.m.; Thursday, March 11, 1-2 p.m. All are invited to attend. Contact Beth Morin, x1552, to reserve a space. Class size limited to 20 participants per session.

People in Perspective

From the control room high above Morse Field in Alford Stadium, Claude Junkins punches the computer keyboard that transmits animated images and messages to the lighted scoreboard screen of what is quickly becoming one of the University's most popular landmarks. Since August, most people on campus have noticed the new UMaine Blue scoreboard with the electronic message board. In contrast, few in the University community know the man behind the messages.

In Wizard of Oz style, Junkins has become the "Wizard of UM."

"People often call Athletics first to try to find out about getting their message on the scoreboard," says Junkins, an estimator and project specialist with Facilities Management. "When the system went down for two days, people called, worried that they had big things coming up and would not be able to use the message center to get the word out.

"Probably more people than ever before are entering campus on that end so they can swing by and see the changes in the messages," he says. "You see students looking as they walk across the parking lots. I put up friendly messages to welcome people to campus. I never want it to be boring; it should be interesting and sometimes give people a chuckle.

"A lot of people worked hard to get the scoreboard up and running. It's rewarding to hear people react to it, enjoying the messages and the animation."

Oversight of the new scoreboard – from its purchase and installation to maintenance and operation – has been Junkins' responsibility. This fall, he and UMaine graduate student Molly Putnam shared the task of programming the animation and graphics for the scoreboard during football and field hockey games. Junkins maintains the day-to-day communication with the campus community via the message board.

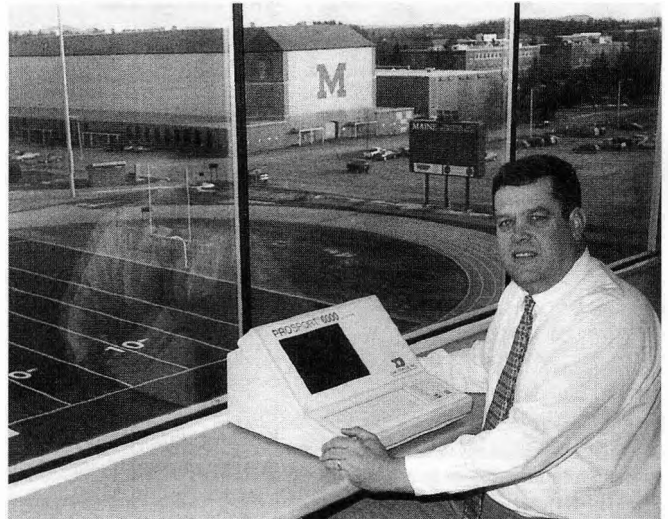
The project combines his long-held interests in art, computer technology and athletics.

Ten years ago, Junkins was hired at UMaine as a construction estimator. At the time, Facilities Management was equipped with only an IBM XT with a 20-Mb hard drive.

In the past decade, Junkins has been instrumental in moving Facilities from traditional board drafting to computer-aided drafting and design (CADD). Today, a MicroStation CADD system and a dedicated server allow Facilities Management's engineers to develop floor plans and building elevations, plan renovations and new construction, and effectively communicate the institutional image through architectural consistency.

"The big advantage of CADD computer drafting is the rescalability and reusability of the work," says Junkins, who now teaches an introductory mechanical engineering technology class in computer-aided drafting and board drafting. "We can use a window drawn for one project on many future projects. Initially we were drawing each element over and over; now we keep them in a computer library. Such consistency and quick graphic output is helpful when talking to architects and committees. It helps people to see images of concepts and ideas. For me, the advantage is in comparing the preliminary digital images to the final project as it evolves to completion."

The 3-D digital images now used by the computer engineers are increasingly important in UMaine's planning and fund-raising efforts. Facilities Management has assisted in the creation of digital images for several new projects. Eventually, the incorporation of animation will allow virtual walk-throughs of the University's buildings of the future.



Claude Junkins

Junkins maintains the Facilities Management Website. This past summer, he developed a digital campus map underlayment that now is available off the UMaine homepage and is used as the backdrop for the new printed campus map.

"Future development will include a new work order system for campus," says Junkins. "With it, a person may bring up a floor plan, click on a room and find a database that lists everything from furniture and who uses the room to light fixtures and the paint on the walls. In the next few years, the goal is to develop a graphic-based facilities management program."

In addition to continually sharpening the technological edge of Facilities Management, Junkins serves as project manager for many of the small-scale renovation projects on campus. Oversight of the scoreboard project for Morse Field became his responsibility last summer.

Using color images and detailed drawings of the scoreboard, Junkins coordinated the efforts of a scoreboard manufacturer in North Dakota, and the Bangor-based construction company responsible for the steel fabrication, erection and installation of the scoreboard. The computer-generated images provided precision specifications so that the steel framework was erected and the scoreboard installed upon arrival. Junkins had already previewed and practiced with the software. The scoreboard was in operation for the first field hockey game in August.

"One creative factor is in how each screen image enters or exits to catch the viewer's attention," says Junkins, whose long-time interest in commercial art has shifted in recent years to sketching notable hockey greats. "You also have to consider how long it takes to read a particular message. We don't want to have traffic stopped so people can finish reading a new message.

The monochrome, full-matrix screen is made up of thousands of lightbulbs. Junkins likens it to a PC paint program in which each bulb is a pixel. With such an electronic canvas, the artistic possibilities are seemingly endless.

"This type of board is much more than a scoreboard. Its functions and versatility will cover the spectrum of sports and events. It also can be a tool for recruitment and retention.

"The scoreboard with its message board for campus is an important part of the University now. It represents UMaine."

Class Book the Focus of Numerous Spring Semester Activities

Like the UMaine class book authors before him, James Loewen, who wrote *Lies My Teacher Told Me: Everything Your American History Textbook Got Wrong*, will be on campus this spring for a lecture highlighting a year of campuswide dialogue about the volume. But since the start of the academic year, Loewen also has been taking part in the discussion about the class book via FirstClass.

Loewen, professor emeritus of sociology at the University of Vermont, is the first of UMaine's class book authors to be invited to use FirstClass to join in the ongoing discussions. As a result, Loewen, who has an interest in Web-based learning and distance education, has "looked in on and participated in" some of the ongoing campus dialogue, according to Harvey Kail, interim chair of the English Department.

"Students who are participating in the conference are pleased to see him there," says Kail. "This fall, students also have been more involved in dialogue with each other about the class book. It has been an active conference with almost 400 postings in the semester."

Lies My Teacher Told Me is proving to be the most controversial of UMaine's class books, which have been selected annually since 1992. "There are strikingly different points of view on it.

Professional historians are not keen on it but people who are just coming to some of these issues feel very informed and confirmed in reading it," Kail says.

The class book is required reading for 1,300 first-year students taking English 101 this year. In addition, the Provost's Office offered free copies of the book to members of the University community interested in reading the volume and actively participating in the campus dialogue. The University Bookstore has sold more than 2,400 copies of *Lies My Teacher Told Me*; last year the Bookstore sold more than 2,000 copies of the 1997-98 class book, *The Ecology of Commerce: A Declaration of Sustainability* by environmentalist Paul Hawken.

This semester, Loewen is expected to be on campus March 30 for a public lecture and panel discussion during the observance of Women's History Month.

For the third year, the Division of Lifelong Learning has scheduled a noncredit class book community program this spring, with students meeting in Camden and on campus.

In addition, the Continuing Education Division is offering UMaine's first upper- and graduate-level Web courses based on the class book. INT490 – Lies, Deception and "Heroification"

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BearWorks
University of Maine

Falling Stars

Midway through his career as a criminal justice professor, David Machell of Western Connecticut State University found himself feeling angry and dissatisfied with his job. He wondered how someone engaged in meaningful work in a fairly idyllic setting could feel disillusioned and cynical. A typical professor, he saw in his question a need for counseling – and an opportunity for research. Machell interviewed more than 300 professors nationwide and discovered similar feelings among colleagues. He coined the term "professorial melancholia" to describe the unrealistic needs and expectations shared by those unsatisfied as college professors.

Machell uncovered a disturbing pattern across campuses. New professors came from graduate school, where they were viewed as "stars" and their achievements were eagerly heralded by advisors and their departments. An abrupt shift occurred when they landed their first jobs as assistant professors. Success was sometimes seen as a threat to senior colleagues. New professors often learned quickly to avoid talking much about

SPOTLIGHT ON COLLEGE TEACHING

success with tenured faculty. This loss of a support community, usually when new faculty had already uprooted themselves and moved hundreds of miles to a new job, was debilitating. Combined with intense pressure to publish, many faculty felt isolated and discouraged.

In contrast, the professors who thrived had a few attributes in common. First, they managed to maintain strong ties to others in their community outside of their professional roles. Second, they avoided networking with unhealthy colleagues, seeking out those who were most positive and productive. And finally, they had strong connections to their students.

It's tempting for professors to distance themselves from students, if only to preserve time for scholarship. But Machell found the reverse was true in his study. Professors who were most engaged with their students as teachers also proved to have the most active research agendas. Perhaps more important, their mental health was strong.

The lessons for college professors? The extra time that goes into getting to know students and teach them well is a way to keep your own star shining. And if you're feeling a little disillusioned and cynical like Machell, it might be time to dust off those bagpipes, pull out that poetry journal, or head for the gym to shoot some hoops. Renewal comes from remembering the hobbies and loves that sustain us, and allowing the students in front of us to spark new professional fires.

Instructional Development Upcoming Events

"Beyond Geddlina Grupe: Fostering Better Small Group Discussions," by Connie Perry and Brenda Power, 3-4:40 p.m., Jan. 27, Totman Lounge, Union. *Helping students learn to work well with peers requires preparation and patience. This workshop will provide new strategies for setting up, managing and evaluating small group work.*

"Props and Plays: Keeping Students Engaged," by Irv Kornfield, 3:30-4:45 p.m., Feb. 4, 202 Shibles Hall. *From some perspectives, teaching is theater: The instructor is the absolute center of attention and the students constitute a captive audience. Adopting this attitude permits instructors to exploit aspects of theater in order to enliven lectures and better communicate information.*

Myth of the Month – Few resources are available to help professors improve their teaching

In the past decade, there has been a dramatic rise in support for improving college teaching across the country. Many colleges and universities now offer a variety of specific support services for professors on-line. These resources range from complex research on developing quality evaluation tools to simple strategies for learning student names the first weeks of the semester. To learn more about a particular teaching topic, access the directory of all U.S. college teaching center homepages: www.cc.ukans.edu/~sypherh/bc/us2.html

STUDENTS LEARNING ON AUTOMATED ASSEMBLY SYSTEM

A new partnership between LANCO Assembly Systems of Westbrook and UMaine is giving engineering students access to sophisticated industrial technology.

The company has loaned an automated assembly system to the School of Engineering Technology for student research. The system features conveyor belts, robotic arms and other devices that assemble component parts into a finished product as directed by programmable computers.

Tom Zack, president of LANCO Assembly Systems and a 1970 UMaine graduate, formally presented the system in a ceremony last month in Barrows Hall.

"We hope that the LANCO machine can be integrated into course study to demonstrate real-world applications of technologies being taught in the classroom," says Zack. "By providing the University with a functional automated system, we also hope to generate interest among the students to consider this field after graduation."

Scott Dunning of the Electrical Engineering Technology program says this is an excellent demonstration of how industry-University collaborations can improve educational opportunities for Maine students while assisting Maine industry.

The process line was originally designed to demonstrate the quality of LANCO products for trade shows. The system will allow mechanical and electrical engineering technology students to take the theoretical principles of automation and process control and apply them to a working process line. Students also will be examining opportunities to improve on the system design.

LANCO Assembly Systems Inc. is a global company focused on providing modular automation systems and services to customers in the automotive, appliance, electronics, medical and consumer products industries.

A GIFT OF TECHNOLOGY BENEFITS 10 DEPARTMENTS

A gift to the University of Maine during the holidays came in the form of a donation of almost 80 high-speed computer workstations from a Michigan firm. The machines have been placed in 10 departments where faculty and students will use them for teaching, mathematical modeling and software development.

David Batuski, associate professor of physics, received the donation from Electronic Data Systems as a result of a recommendation from a company employee – one of Batuski's former graduate students – T.C.A. Venkatesan.

It was the second contribution of computers and monitors UMaine has received from the Detroit-based EDS, although the most recent shipment was four times as large as the first.

"The company took these machines out of service much earlier than it had originally planned," says Batuski. "They were used at General Motors until the company decided to switch all its machines to one manufacturer."

The donation includes more than 60 Hewlett Packard and several Sun workstations. Among the departments using the new machines are Chemistry, Music, Physics and Astronomy, Forestry, Information Technologies, Spatial Information Science and Engineering, Geology, Business, Electrical and Computer Engineering, and Telecommunications.

"Since these computers use the UNIX operating system, they're not compatible with desktop computers such as PCs and Macs," says Batuski. "Still, they are very powerful, and some of our graduate students can hardly wait to start using them."

Electronic Data Systems manages large computer systems for corporations and government agencies.

A SPECIAL INVITATION TO PROSPECTIVE STUDENTS WHO ARE CHILDREN, GRANDCHILDREN OF UNIVERSITY EMPLOYEES

High school-age children and grandchildren of UMaine employees again have a special invitation this year from Enrollment Management to come on campus and get to know the University community a little better.

The second annual Students of MAINE Employees Reception will be held on Saturday, Jan. 16 for employees and their sons, daughters and grandchildren who are high school juniors and seniors. The midday program is designed to establish a dialog between prospective students, their parents and University employees and their University of Maine students.

The 10 a.m. reception features a brunch and a panel discussion with members of the University community talking about their University experiences, including being a student with a parent who is a University employee and vice versa. Questions also will be solicited by the panel from members of the audience. Those attending the reception will receive complimentary game passes to the Men's Basketball game against New Hampshire, which begins at noon.

"When I arrived in August 1997, one of the things I heard is that employees felt their children who are students were not being actively recruited by the University of Maine," says John Beacon, dean of enrollment management. "In higher education, this is not all that uncommon. Families living within the shadow of a university are presumed to know a lot about the institution when, in fact, they may not. We decided to have a luncheon reception for families that included a panel of employees and students to give the audience an opportunity to interact and ask questions."

"In my 32 years of involvement with recruitment, I have never discovered a magic formula for finding what it is that actually prompts students to select one school over another. But I strongly believe that getting people on campus to see the facilities and to meet students, faculty, administrators and support personnel is a critical step in the process."

Last year, the first reception brought 40 prospective students to campus.

It is not too late to attend this year's program. To confirm a reservation, interested employees should call the Office of Enrollment Management, 581-1572.

Class Book *continued from page 7*

will explore how lies in history, education, government, business and society create cultural distortion. The Master of Arts in Liberal Studies Advisory Committee has approved the graduate school version of the course as a LIB500 Seminar in Liberal Studies.

Fifteen faculty from different disciplines will co-teach the three-credit class, including Loewen, who will co-teach the final lesson with Kail and Eric Foner, the DeWitt Clinton Professor of History at Columbia University. The course, on the Internet at <http://reppin.asap.um.maine.edu:8900/public/CED499/>, is one of 25 Web-based courses offered this spring at UMaine.

Also this spring, the Academic Affairs Committee of Faculty Senate will be accepting nominations for the class book for the academic year beginning in 2000. The class book selected for the next academic year is *A Midwife's Tale: The Life of Martha Ballard* by Laurel Thatcher Ulrich. Class books now are being selected a year in advance to allow more time for faculty to include them in their curricula. ▲

Engineering Education That Benefits Maine Industry

For the past five years, Vincent Allen has been studying electrical and computer engineering in the classroom, in manufacturing plants and in high-tech research laboratories.

His on-site learning has led to contributions benefitting one of Maine's most traditional manufacturers and one of the state's newest high-tech firms.

"At Dexter Shoe Co., we helped create a more efficient (computer-automated assembly line) system. The company's productivity went up significantly because of our project," says Allen, who is finishing his thesis for a master's degree in computer engineering and is starting a new job next week (Jan. 11) as a software engineer. "As a result of the work being done at SRD (Senor Research and Development Corp.), soldiers in the infantry will one day be wearing nerve gas sensors on their lapels that will alert them to dangerous chemicals in the area. It's really great to know that the work I did may actually help save lives. It's a good feeling – and pretty exciting."

Allen, who grew up in Falmouth, intended to go to Notre Dame, his father's alma mater. When he was wait-listed at Notre Dame in 1991, Allen enrolled at UMaine, where his older brother, Christopher, was pursuing a bachelor's degree in electrical engineering. Allen attended Notre Dame the next year, returning to UMaine in 1993 to save money and to be closer to home.

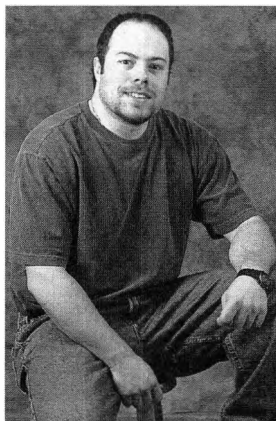
That year, Allen began working in the Department of Electrical and Computer Engineering's Instrumentation Research Laboratory with Bruce Segee, associate professor of electrical and computer engineering, and a team of undergraduate and graduate student engineers. The Instrumentation Research Laboratory is dedicated to research, development and education related to instrumentation, including industrial computer control using PLCs (programmable logic controllers), programming, and communication between PLCs and PCs.

When the Milo plant of Dexter Shoe was preparing to move from its long-standing manual system of conveyor belts to an automated system, the Department of Electrical and Computer Engineering was contacted. Development of a PLC-PC interface is at the heart of the automated system for Dexter Shoe – at that time the largest and most complex industrial project undertaken by the Laboratory.

When Allen first joined the team, software had just been designed and developed for a computer-automated conveyor line customized to meet the special needs of the world-famous shoe manufacturer. The next step was to install the computer technology along four assembly lines in the stitching room of the Milo plant. Eventually, similar systems were installed in other Dexter Shoe plants.

Allen was involved in the integration of the technology. He also wrote the "users manual" to allow supervisors and others at Dexter Shoe to learn and operate the computer-automated system.

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Vincent Allen

Graduate Student Focus

The CUTTING EDGE

University of Maine Research on the Frontiers of Science

Gulf Trawling

Evidence pointing to potential geochemical impacts of sea floor trawling in the Gulf of Maine has been reported by scientists from UMaine and the Woods Hole Oceanographic Institution in a paper published in the December issue of the *Journal of Conservation Biology*.

In their paper, Cynthia Pilskaln and Lawrence Mayer, both of the UMaine School of Marine Sciences, and James Churchill of WHOI, used information from sediment traps deployed well above the sea floor for nine months in 1995 to suggest that further research should be done to pin down the sedimentological and chemical effects of trawling.

The authors discuss the scale of trawling in the Gulf and use their data to point out possible impacts to the Gulf's chemical and biological cycles, and the food chain. Those possibilities include changes to nitrogen and silica cycles, and the types of plankton that are the foundation of the marine ecosystem. The amount of primary production, a rough measure of plankton growth, could also be affected.

The sediment traps were located 80-100 feet off the sea floor in two Gulf basins. They collected sinking particulate material which scientists retrieved at two-week intervals. The samples were analyzed at UMaine.

In an area of the western Gulf known as Wilkinson Basin, the trap samples contained large benthic worms that are normally found only at the surface of or within the bottom sediments. The spring peak in benthic worm collection in the 1995 trap samples coincided with seasonal period of peak trawling activity in Wilkinson Basin, according to bottom trawling records obtained from the National Marine Fisheries Service for 1990-1993.

In contrast, trap samples collected in Jordan basin, located in the eastern region of the Gulf of Maine, contained very few benthic worms. Trawling activity documented by NMFS records is substantially less frequent in this region as compared with the Wilkinson Basin area.

According to Pilskaln, the paper examines the likely effects that bottom trawling has on sediment resuspension and sedimentary nutrient fluxes in the Gulf. It discusses potential restructuring of benthic communities by high levels of trawling activity, which in turn may affect sediment geochemistry.

"Sediments are important in nutrient cycling and if they are being stirred up this process could have an appreciable impact on Gulf-wide nutrient budget," says Pilskaln. "We need to do some more detailed work to quantify exactly how much sediment and pore water is resuspended per year in the Gulf as a whole, and specifically within heavily trawled regions."

"Trawling may very well augment or help maintain the permanent particle resuspension layer in the Gulf of Maine, a natural phenomena in which sediment particles are kept in suspension by strong tidal mixing within a layer just above the bottom. Particle resuspension is not necessarily a negative, as there are organisms that have adapted to feed in particle resuspension layers found throughout many of the world's oceans. The creation of a thicker or more dense resuspension layer may increase the abundance of such organisms, but no one has studied that," says Pilskaln.

"Ideally, the next step that we should take would be to conduct a laboratory experiment within a large flume tank in which we simulate excavation by trawling and examine the sediment particle dynamics and the changes in sedimentary pore water chemistry."



Witnessing the Evolution of Maine's Logging Industry

In 1927, Raymond Vigue saddled a horse and headed to Maine's north woods, armed with a notebook, pencil and Kodak box camera he borrowed from his Aunt Rose. He had been hired by Hollingsworth & Whitney Co., to field inventory its herd of woods horses spread across 35 logging camps in five counties. Vigue was 14.

"I was 100 miles from home in a completely new world," says the Winslow native. "Prior to that, I had never been farther north than Skowhegan. The company gave me a list of the camps that were usually 10 miles off any road. It took me all summer. I came up with an inventory of 239 horses."

By that time, Vigue had already been working in the woods for three summers helping his uncle, a sawmill operator in Winslow. Vigue was following in the footsteps of his Canadian-born father, who had worked in the woods since he was 14.

Initially, Vigue started photographing to let his father and mother know what he was doing in the woods, and later to supplement his monthly reports to logging company officials in urban offices "who had never been in the woods." Over more than half a century, he amassed a collection of thousands of photographs documenting the evolution of the logging industry in Maine.

Perhaps it was his photographs, or his meticulous record-keeping, or the glimpses of an analytical mind that first caught the attention of lumber company officials. By 1928, Vigue was hired to research the expense of horse ownership by the company – how much it cost to feed horses and what return the owners got on their investments. The following year, he conducted a production and cost-comparison analysis for Hollingsworth & Whitney of a horse team versus a three-ton crawler tractor.

As further forecast of the future, Vigue had just delivered a new Lombard tractor from Fairfield to the Edouard Lacroix logging headquarters at Churchill Depot.

"When I went into the woods, it was during the Depression years," he says. "I was from a large family and as soon as I was old enough, I left school and earned money for the family. But my father continued to push me to study and learn. Life has been a learning experience ever since."

Vigue, now 85, is considered one of the leading experts on the history of logging and woods transportation. Not only was he in the

Maine woods to witness the evolution of the logging industry, but he made history with his inventions and innovations that revolutionized the way forest products were transported through the years from the woods to the river, the rail and road.

His extensive documentation of the Maine lumber industry, the forest and the human relationships with that forest, is now part of Fogler Library's Special Collections at the University of Maine. It is the seventeenth significant collection on this subject to be housed at Fogler, which now has one of the leading archives in forest history.

Vigue was associated with the Hollingsworth & Whitney lumber company on and off for a quarter-century, eventually overseeing its fleet of trucking, harvesting and road construction equipment. In those years, he experimented with prototypes of more efficient and effective equipment, and retrofitted military surplus equipment to meet increasingly modern needs.

For the next nine years, Vigue traveled throughout North and South America as an off-highway trucking specialist for Mack Truck Co. He designed and field-tested such heavy equipment as harvesters, trailers and trucks, all with an eye on the ever-present bottom line: Improve production and vehicles, and cut costs. His on-site consulting took him from the Arctic Circle to the rainforests of South America.

Vigue always brought home to Maine the knowledge he learned on other jobsites – first to the north woods and then to the state highways. In 1961, he began a 16-year career as equipment engineer with the Maine State Highway Commission, now the Maine Department of Transportation. By this time, Vigue was being tapped not only for his knowledge of equipment but of people. He has remained a consultant on the future of heavy equipment in the forest, mining and heavy haulage industries, and on personnel safety and management.

"Through the years, I learned a lot about people, including that we're not alike," he says. "I learned how the environment changes us and how educated people are not the happiest in the world. Life is what you make it."

"I loved the vast challenge of modernizing and improving on what was being done in the woods. I have had three careers, involving management of resources, personnel, finances and equipment. It has been a great life."

Lombards and Log Drives

Horses and steam-driven Lombard log haulers were doing much of the logging in the Maine woods at the turn of the century. By the mid-1930s, the last Lombards was working extensively in Maine.

The Lombard was seasonal and needed special roads. Its replacement, the crawler tractor, offered year-round use and was a logical means of cutting costs and increasing production. Once the bulldozer blade was invented, many more roads were built. With better roads came large diesel trucks, providing not only year-round hauling capabilities but the versatility to go directly from forest to the watershed – and eventually to the mill.

“As I look back at those earliest memories of working in the woods, I realize it was a very, very hard life. Men worked from daylight to darkness. There were no mechanized means in those days. Everything was manual labor. The camps were crude, not comfortable, although the food was reasonably good.

“Back in those days, that was life and we thought we were ahead of our predecessors. Fortunately, I saw the entire mechanization of woods operations, going from the ax and cross-cut saw to tractors replacing horses and trucks replacing tractors. One of the most revolutionary inventions was the chainsaw, followed shortly by 4x4 yarding tractors, mechanized harvesters and mobile chippers. And when the forest industry became increasingly dependent on highway and rail service, even camp life became very different.”

The first woods roads were designed to haul supplies and men to places in the wilderness. Better roads also brought an end to rustic logging camps. It now was possible for portable buildings and even perishable foods to be trucked to camps. Eventually, woodworkers commuted to worksites rather than staying in camps for extended periods of time.

“I kept asking why they were doing things the same way they’d been done for 100 years,” says Vigue. “But big changes such as those from horse to tractor didn’t just happen. We did many surveys, comparative analyses and experiments. We were always looking for ways to improve production, vehicles and costs.”

Truck Transformation

Vigue worked as a truck foreman for Hollingsworth & Whitney Co., eventually becoming equipment maintenance manager in 1943. Through the years, Vigue was in charge of all of the company’s trucking and roads, as well as the modernization of its camps. He continued to develop systems of analyses to trace costs and to evaluate losses and gains. Vigue also traveled to consult at the company’s bases of operation in Nova Scotia and Alabama.

After World War II, companies like Hollingsworth & Whitney began replacing obsolete logging equipment with all-wheel drive military surplus vehicles. The vehicles, durable and easily modified, were used extensively for hauling pulpwood and building roads. Vigue designed experimental trucks that carried double or more payloads to mills or rail lines on company roads. Loading and unloading was modernized when the winch and cable cranes were replaced by hydraulic mechanization that was faster, more economical and safer for workers.

continued on page 12



Photo at left, mountains of pulpwood, marked with Hollingsworth & Whitney brands, trucked to the Roach River landing near Kokadjo, waiting to be pushed in the river by bulldozer in the spring (1943). Photos this page, beginning at upper left and moving counter-clockwise, horses haul a sled of pulpwood to Fish Pond Landing (1945); a cable log crane mounted on a five-ton crawler tractor with an assistant tongsman “riding” a log, an unsafe practice discouraged by most logging camps and eventually made obsolete by hydraulic cranes; a Mack B635X loaded with logs as a traction ballast and pulling a train of up to 20 sleds, each carrying five cords of wood (1951); some early woods trucks were considered expendable when compared to the cost of building access roads (1952).

Photos by Raymond Vigue



Logging Industry *continued from page 11*

Within a decade, the surplus vehicles were replaced by more conventional trucks.

"My job was to design modern trucking equipment, customized to meet the needs of specific applications," says Vigue. "But even new machines had to use the existing bridges and roads with limited capacities. Often we had to custom fit vehicles for the roads that existed. Then we had to convince management that if roads were improved and bridges reinforced, they could carry an increased payload."

Changing Times

Hollingsworth & Whitney and a handful of other logging companies in Maine closed after World War II because of an overabundance of wood. In 1952, Vigue went to work for Mack Truck Co. While Mack was headquartered in Allentown, Vigue was based in production offices in Plainfield, N.J., and Boston.

Vigue did field engineering for Mack. He designed logging equipment for use in Maine, Canada, the Deep South and the Pacific Northwest. Vigue was involved in the construction of the Distant Early Warning (DEW) radar line, established by the U.S. military during the Korean War. Vigue's job was to engineer an off-highway tractor semi-trailer for trucking radar installation equipment with a net payload weight capacity of 165 tons. Each unit was equipped with extra-large tanks to provide sufficient fuel for extensive distances in which engines were seldom idle during the 3,000-mile roundtrip journey from Alaska and across the Northwest Territory to the Arctic Circle.

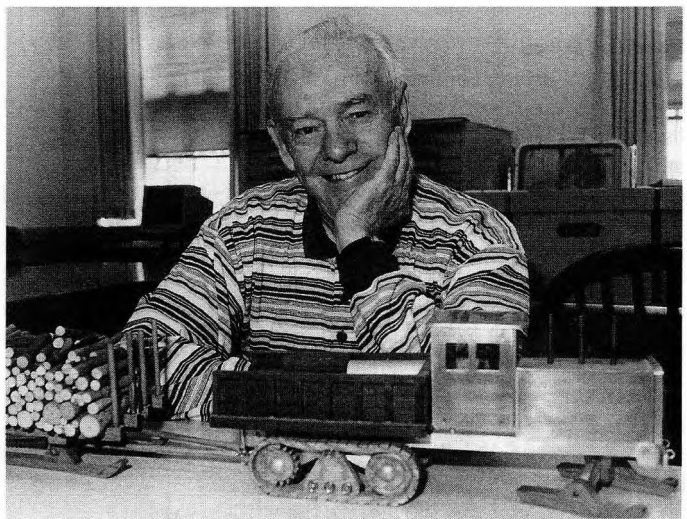
"Mack liked me because I could produce," he says. "They'd say such-and-such a company needs consultant services. Can you come up with an idea that could sell trucks? I'd go to the worksite and do a study. I often spent weeks in the field, would go back to the office and think about it, trying to come up with a different concept that would lead to lower costs of moving wood, ore and other materials. The bottom line was to save on manpower, to haul more wood per trip, to make more trips per day, to change management systems."

"It got to a point that we could double or triple payloads. I'd bring a model to a client and let them know what was possible. If they believed in the concept, I then went to see what I could do with the (truck) company to build a prototype to put to work. Working with a prototype was no risk for the logging company. The logging company furnished fuel and manpower and we furnished the equipment and the commitment to perfect it. The guarantee was, if the new equipment worked, it would save money and lead to a lot of things."

"My job was to figure it all out. What would it cost to operate the new piece of equipment into its lifetime, usually five years? I broke down the analysis into 200 elements of a truck's 13 systems. I took fuel and labor costs of the company and projected what I thought was going to happen. Then I put the whole ball of wax together. With the prototype and blueprint of cost, I'd go back after the first year and talk to the manager about the projections. The way to perfect and improve future production was to look at the final figures after five years."

All Roads Lead to the Future

When the time away from home began taking a toll on his wife and three children, Vigue accepted an offer from the Maine Department of Transportation to serve as equipment engineer for the state in 1961. For 16 years, he was responsible for managing 3,000 pieces of equipment and 300 state workers. His contributions included innovations in snow removal and ice control equipment.



Through the years, Raymond Vigue created scale models of his heavy equipment inventions used to move wood, ore and other materials.

"The challenge was fantastic," says Vigue. "The state was so far behind in equipment management. As equipment engineer, I wanted to bring the system into the modern age. In addition, there were no safety or training programs. Equipment was sitting outdoors."

True to his hands-on approach in the field, Vigue spent three out of five days in the work week on the road, traveling what was then more than 5,400 miles of Maine's state highways. "I was looking at how my department was doing in supporting the equipment, training and maintenance needed," he says. "I always was asking the question: How can I mechanically improve on what we have now? This time, the improvements cost the taxpayer but they also saved money in the final analysis."

When Vigue retired from DOT in 1977, he worked as an engineering consultant. He was tapped to be a member of a team that developed equipment management manuals for transportation crews at the local, state and federal levels. For five years, he presented training programs to equipment management personnel at sites throughout North America on subjects ranging from job safety to effective management.

In the past three years, Vigue has continued to develop heavy equipment prototypes for use in the forest products industry. Among them, a "trackless forest road train," powered by a locomotive diesel-electric engine with the capacity to move high volumes of wood on private hauling road systems where legal restrictions do not apply.

For Vigue, the future of the forest is never too far out of mind.

"In 10 years, major changes are on the way," says Vigue. "I see modernization of harvesting equipment and better vehicles to haul it to the mill. There will be more yield out of the forest and perpetual growth to take care of mill expansions. Faster growing trees are being developed in Maine; instead of leaving it up to Mother Nature to take 50 years to produce a crop, the new forests will do it in half that time."

"We're going to see better management of our resources. When I worked for Hollingsworth & Whitney, we were cutting trees a minimum diameter of 12 inches at breast height. For every cord of wood produced, there were three or four waiting to be cut. Today that ratio has changed tremendously."

"If I look in my crystal ball, I see progress in management, methods, techniques – and more electronic equipment keeping track of costs." ▲

Agricultural Center *continued from page 1*

campus and in the System for the benefit of the state.

"Agriculture is in transition, which is increasing the need and demand for research and programming. People are looking to us to make that transition a little smoother."

The Center will coordinate the agriculture-related programs in Cooperative Extension and the Experiment Station. Extension educators, faculty and researchers will be brought together to exchange information and communicate on a broader level. A toll-free call to the Center from anyone in the state will bring to bear the University's many agriculture-related resources.

As director of the Maine Agricultural Center, Reiling expects to spend much of his time interacting with major agricultural groups in the state to determine their research needs. The Center will have some financial flexibility to respond to the industry's highest priority needs and to leverage more research and development monies. In partnership with Maine agriculture, the Center will provide the research and education resources the industry needs to remain competitive in local, national and global markets. Knowledge, technologies and policies will be developed with the Center's help to provide high-quality Maine products that are both economically viable and environmentally sustainable.

Agriculture-related research and programs will be prioritized and expanded to meet the growing and changing needs of Maine agriculture. The Center will build on what continues to be a multi-million-dollar agriculture research investment at UMaine. In FY98, the Experiment Station committed \$3.5 million and Extension dedicated \$1.6 million in base funding for agriculture-related research.

Another example of UMaine's long-standing commitment to agriculture, as well as the evolution of the industry in Maine, is found at the University's Witter Farm. Since 1997, the once primarily dairy farm has undergone dramatic transformation and diversification. In response, sectors of the state's agricultural industry are supporting new initiatives such as embryo transplant research at the farm.

"In a lot of ways, agriculture has become more high-tech, including genetic engineering in both plants and animals. In addition, there have been major changes in market structure nationally and internationally. Today more than ever, there are new policy issues facing agriculture. And while agriculture is influenced by policy, it also can help achieve state policy. Agricultural land that is profitable and healthy can help address important issues in Maine such as concern about urban sprawl in the southern part of the state," says Reiling.

In the past few months, Reiling has been crisscrossing Maine, meeting with people in the various sectors of the industry to discuss the proposed Center and the difference it could make.

"If we're successful, five years from now the University will be serving the industry better because our efforts will be better coordinated and integrated into the key issues," he says. "We'll be doing research to deal with problems of the years to come." ▲

Campuswide Calendar Available

Maine Perspective keeps an electronic calendar listing on-campus events for the academic year that have been submitted for inclusion.

If you have events already scheduled, send your listings to *Maine Perspective*. If you are planning a future event and want to check for other events scheduled at particular days and times, call 581-3745.

The UMaine Master Calendar is available on FirstClass (in the Campus Activities folder) and on the Web (off the UMaine homepage: www.umaine.edu or the calendar website: www.umaine.edu/~paffairs/perspectiveweb/mastercalendar.html).

Ice Storm *continued from page 1*

Lyombe Eko, assistant professor of journalism and mass communication, and Joanne Gula, assistant professor of journalism, surveyed 134 households about the Ice Storm and the media deprivation that resulted. They have written about their research in a paper that will be presented to the International Communication Association conference next year, "What it Means to be in the Dark in the Information Age: The Ice Storm of '98 and Mass Media Deprivation in Maine."

Eko and Gula say the modern world has become an information society, characterized by dependence on the mass media and information technology for psychological and social needs and satisfactions. For many, the Ice Storm pulled the plug on access to media.

An estimated 800,000 people – almost four out of five residents – lost power during the storm for periods ranging from a few hours to two weeks. Fifteen of the state's 16 counties were affected, and Maine was declared a disaster area.

"When the ice storm hit, we saw this as a unique opportunity," says Eko. "Media deprivation is rare, and the last academic study of the near total absence of the mass media was in the 1980s, before the Internet, and we are more dependent on the media now than ever before."

For the study, Eko and Gula first determined whether respondents used the media to meet psychological or sociological needs and to get gratification. Respondents were then asked whether they experienced any discomfort caused by media deprivation. Student volunteers from journalism classes conducted the surveys.

An overwhelming 91 percent of those surveyed said they had lost power and 16 percent had gone to a shelter. Twenty percent were without a phone for all or part of the Ice Storm.

"Media loss had some impact on everybody," says Gula. "We looked at a number of different variables, such as political affiliation or socioeconomic status, and there was no demographic difference. The storm was a leveling factor."

The researchers found that because people in society are so saturated with the various mass media, a psychological bond is formed with favorite news anchors or characters in shows. However, few respondents felt overly disoriented because of the near-total media blackout. One of the reasons: access to radio.

Most electronic media outlets, including the Public Broadcasting System and the Emergency Warning system, were silenced as a result of the storm. The only alternative became local radio stations that transformed themselves into community instruments. Two in particular, WVOM and WWBX, aired 24-hour a day storm-related programming.

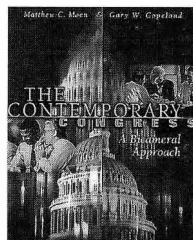
"Radio saved the day. People called in to encourage each other, to inquire about relatives and friends and give on-air tips on various subjects. It became a wonderful communication tool," says Gula. "It allowed people to get in touch with the outside world and find out what was happening."

During the storm, Gov. Angus King and members of Maine's Congressional delegation used radio several times to communicate directly to the people of the state. The utility companies also used the radio stations to give updates about the extent of the damage and the time it would take to restore power to customers. Eko and Gula say because of this, radio returned to its original mission – providing information.

"Radio is not the medium that people think of when they need information," says Eko. "During the storm, though, it stepped in and filled the social need people had and allowed those without power to feel part of a community again." ▲

V O L U M E S

Recent Works by University of Maine Authors



***The Contemporary Congress:
A Bicameral Approach***
by Matthew Moen and Gary Copeland
(Wadsworth Publishing 1999)

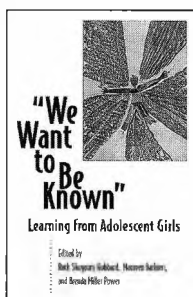
In *The Contemporary Congress*, Congressional scholars Matt Moen and Gary Copeland present an examination of the legislative branch by detailing the similarities and differences of the House and Senate.

Such a bicameral approach helps readers better understand the complex functioning of the legislative branch and the constitutional role Congress plays.

The examination of the House and Senate as different institutions provides a deeper understanding of such topics as elections, representation, membership, committees and leadership. The book addresses the recent changes in Congress in the context of enduring constitutional differences between the House and the Senate that stem from the earliest days of the Republic.

In addition to highlighting the similarities and differences in the two distinctive chambers, *The Contemporary Congress* considers whether such bicameralism is effective in contemporary times. Throughout the book, theories, facts and anecdotes convey the richness of life on the Hill.

Copeland is associate professor of political science at the University of Oklahoma. Moen is professor and chair of political science. This is Moen's fourth book.



***"We Want to Be Known":
Learning from Adolescent Girls***
Edited by Ruth Hubbard, Maureen Barbieri and Brenda Power
(Stenhouse Publishers 1998)

Recent studies show how concerned teachers and parents are about adolescent girls. What's been missing in the research are practical strategies for changing the curriculum and building communities that help girls grow up secure and strong.

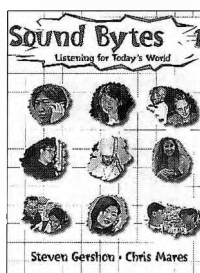
"We Want to Be Known," written by 10 teacher researchers from throughout the country, documents successful innovations. Through the stories of their classrooms, the writers detail important strategies – from involving strong female role models in math and science to developing service learning programs and considering the special needs of minority girls.

The book includes lists of resources such as books with strong women characters, and poems and essays by adolescent girls.

The editors of the book – Ruth Hubbard, Maureen Barbieri and Brenda Power – are former students and consultants of the Writing Process Laboratory and Summer Literacy Programs of the University of New Hampshire. This is their first collaboration. Power is UMaine associate professor of education.

SNOW LINE AVAILABLE

Information about the University's class schedule during inclement weather can be obtained by calling 581-SNOW. A toll-free line is available by adding the 1-800 prefix. The recorded message will provide general information about postponements or cancellations due to a storm.



***Sound Bytes:
Listening for Today's World***
By Steven Gershon and Chris Mares
(Prentice Hall 1998)

Sound Bytes: Listening for Today's World is a three-level listening course for beginner through pre-intermediate learners of English. The course is designed to teach specific listening strategies, such as listening for main ideas and listening for

specific information.

Sound Bytes also provides the opportunity to expand critical thinking skills. Material is included dealing with troublesome individual sounds, speech reductions, stress and intonation patterns, and making sense of non-word sounds common to everyday English. The text focuses on the listening process and product in a variety of contemporary situations relevant to young adult to adult learners.

Sound Bytes is written by Steven Gershon and Chris Mares. Mares is a lecturer in English as a second language in the Intensive English Institute.

Engineering Education *continued from page 9*

"It was incredible experience," says Allen. "One of the coolest things was getting started in code development and making it more efficient with each Dexter project. We were able to develop simulators to do more debugging in-house and make the integration go better. Another high point was travelling to the different sites, getting out of the lab and interacting with upper-level management and operators to get the system to work."

"We were working there in Dexter Shoe as undergraduates – two of us – and there were times when we were there integrating the system line by line. There was a lot of responsibility. It seemed like all of Dexter Shoe was on our shoulders. The kind of experience UMaine offers undergraduate students is huge."

Two years ago, Allen began his graduate work. His thesis focuses on his work developing biosensors with another Maine company, the high-tech corporation SRD, based in Orono. Allen has focused on neural networks that "crunch data and give readings" comparable to neurons providing information to the brain. In his work, Allen is developing reusable software modules that implement the neural network functionality while providing a standard software interface.

"A few years ago, students doing neural network research usually had to write their own code or adapt it from other applications and tailor it to their needs," says Allen. "Today, they can take one programming package that is proven and tested, and have neural network functionality at the click of a button."

Allen will continue his work in programming and design as a software engineer with Modicon, an industrial automation company in North Andover, Mass.

Three other UMaine engineering graduates, including one from Segee's Instrumentation Research Lab, are already at Modicon.

"The biggest lesson I learned at UMaine is that hard work pays off," says Allen. "The engineering program is a very good one and you need to work hard to do well in it. It helped me prove to myself that I can work that hard and succeed in this field. As a result, I have had a real good job waiting for me – since August." ▲

Rashid Shariff, former graduate research assistant with the National Center for Geographic Information and Analysis; **Max Egenhofer**, director of the National Center for Geographic Information and Analysis, College of Engineering Libra Professor, associate professor in spatial information science and engineering, and cooperating associate professor in computer

science; and David Mark, professor in geography at the University at Buffalo: "Natural-Language Spatial Relations Between Linear and Areal Objects: The Topology and Metric of English-Language Terms," *International Journal of Geographical Information Science*, 12(3):215-246 (1998).

Geoffrey Thorpe, professor of psychology, and **Jeffrey Hecker**, associate professor of psychology: review of *Treating Panic Disorder and Agoraphobia: A Step-by-Step Clinical Guide* by Elke Zuercher-White, in *Child and Family Behavior Therapy*, 20:63-67 (1998).

Christa Acampora, assistant professor of philosophy: a review of Nicholas Martin's *Nietzsche and Schiller: Untimely Aesthetics* (Cambridge 1997), in *Philosophy in Review/Comptes rendus philosophiques*, XVIII:4 (August 1998) pp. 277-279.

James Artesani, assistant professor of special education, and Deborah Goessling, Providence College: "Collaborative Instruction Over Interactive Television: The Agony and the Ecstasy," *Rural Special Education Quarterly*, 17:1 (Winter 1998).

Gloria Vollmers, associate professor of accounting: "Industrial Home Work of the Dennison Manufacturing Company of Framingham, Massachusetts, 1912-1935," *Business History Review*, 71:444-70 (Autumn 1997).

Janine Haynes, graduate student in the Horticulture Program, Department of Biosystems Science and Engineering; Paul Cappiello; and **John Smagula**, professor of horticulture, Biosystems Science and Engineering: "Propagation and Early Production of Bunchberry (*Cornus canadensis* L.)," *Combined Proceedings International Plant Propagators' Society*, 47:507-12 (1997).

V. Panchang, professor, School of Marine Sciences; **L. Zhao**, graduate student in civil engineering; and Z. Demirbilek, Army Waterways Experiment Station: "Estimation of Extreme Wave Heights Using GEOSAT Measurements," *Ocean Engineering*, 26:205-25 (1999, published in 1998).

S. Koneshan, graduate student, Chemistry Department; and **J. Rasaiah**, professor of chemistry, with R. Lynden-Bell, Queen's University, Belfast: "Friction Coefficients of Ions in Aqueous Solutions at 25°C," *Journal of the American Chemical Society*, 120:12041-50. The paper is dedicated to the memory of professor **Brian Green** of the Chemistry Department.

Lyombe Eko, assistant professor of journalism and mass communication: "Trademark Parody and the Mass Media: Going Beyond Survey Evidence in the Determination of 'A Likelihood of Confusion,'" *Communication Law and Policy*, the journal of the Law Division of the Association for Education in Journalism and Mass Communication, 3(4) (Autumn 1998).

Randall Boone, former research associate, Department of Wildlife, and **William Krohn**, leader, Maine Cooperative Fish and Wildlife Research Unit: "Maine Gap Analysis Vertebrate Data - Part I: Distribution, Habitat Relations, and Status of Amphibians, Reptiles, and Mammals in Maine," 175 pages plus appendices (1998a). Boone and Krohn also published: "Maine Gap Analysis Vertebrate Data - Part II: Distribution, Habitat Relations, and Status of Breeding Birds in Maine," 367 pages plus appendices (1998b), both parts of final contract reports to USGS Biological Resources Division, Gap Analysis Program, Moscow, Idaho. Also, Krohn; Boone; **Steven Sader**, professor of forest resources; **Jeffrey Hepinstall**, research associate; and **Sandra Schaefer** and **Stephanie Panton**, graduate students: "Maine Gap Analysis - A Geographic Analysis of Biodiversity," 123 pages plus appendices (1998), the final contract report to USGS Biological Resources Division, Gap Analysis Program, Moscow, Idaho.

Amy Fried, assistant professor of political science: "U.S. Interest Groups and the Promotion of Environmental Values: The Resounding Success and Failure of Earth Day," *Environmental Politics*, 7(4): 1-22 (December 1998).

Book Ends

New & Noteworthy at the University Bookstore

Wrong Information is Being Given Out at Princeton, J.P. Donleavy, St. Martin's Press (1998). When Stephen - the son of former bootleggers, an ex-naval gunner, unemployed composer and student of dairy cattle and music - marries into the very rich Triumphant family, he gets more than he bargained for. His gorgeous new wife is obsessed with rough sex, finding her real mother, and spending his non-existent money rather than her own millions. Stephen finds himself inconveniently attracted to his wife's adoptive mother, leaving him little time to pursue his dreams of musical glory. Donleavy, author of *The Ginger Man*, again has created an irreverent, witty story.

Lost Woods: The Discovered Writing of Rachel Carson, edited by Linda Lear, Beacon Press (1998). Thirty years after Rachel Carson's death from cancer, her environmental classic *Silent Spring* sells more than 25,000 copies annually. Now, *Lost Woods* offers a trove of Carson writing never-before-published or collected. *Lost Woods* creates a vivid portrait of Carson's activism through her early writing for newspapers and for the Fish & Wildlife Service; journal observations on shore life; letters, including the "Lost Woods" correspondence on her efforts to save land in her beloved Maine. The book is a welcome addition to our knowledge of Carson, her environmentalism and her life.

Word Virus: The William S. Burroughs Reader, edited by James Grauerholz and Ira Silverberg, Grove Press (1998). *Word Virus* brings together selections of Burroughs' most important and challenging work, beginning with his early writing and including a chapter from his never-before-seen collaborative novel with Jack Kerouac. This book, which includes a spoken word CD, is a resource for scholars, as well as an overview of Burroughs' work for general readers.

Two notable new Maine books:

Down East Maine: A World Apart, Photographs and Text by Frank Van Riper, Down East Books (1998). In the documentary tradition of Walker Evans and the literary spirit of E.B. White, award-winning photographer and writer Frank Van Riper presents a stunning portrait of the people who live and work in one of America's last coastal frontiers, Down East Maine.

The Old Town Canoe Company: Our First Hundred Years, Susan T. Audette, Tilbury House Publishers (1998). The Old Town Canoe Company's rich history spans a century, from its early wood-and-canvas canoes built for Maine guides to today's booming recreational market. This is the fascinating story of a family business that grew and responded to a changing market. It is also the story of recreational canoeing, richly illustrated and told with humor, insight, and the affection that makes most Old Town canoes a member of the family.

▼ Reminder: The last day for spring semester textbook refunds is Jan. 26.

ACAC CALL FOR INSTRUCTIONAL TECHNOLOGY PROPOSALS

The Academic Computing Advisory Committee requests proposals for instructional technology projects, to be recommended to the Vice President for Academic Affairs and Provost, for funding from a portion of the Student Technology Fee monies. Proposals should develop creative and innovative uses of technology for the unit applying to support the teaching and learning mission of the University. Any unit or consortium of individuals (students, faculty and/or staff) in the University may submit a proposal.

These Instructional Technology Grants are intended to enhance the overall educational experience by funding innovative, creative projects that further the access to and use of technology in the classroom and throughout the University's learning community. The funds to support these projects come from the Student Technology Fee and therefore should "bring technology to students" in a manner that enhances the teaching and learning mission of the University.

Last year, 25 proposals requesting a total of \$550,000 were received. Of these, 18 received some funding. Some proposals were funded entirely by ACAC funds; others were partially funded. Since there was considerable overlap between a few of the proposals, some were combined in order to gain efficiency in use of funds. In order for projects to be considered in this year's round of funding, 18 hard copies of the proposal must be received by Professor George Criner (206 Winslow Hall) by 4 p.m., April 3.

Copies of the RRP guidelines, evaluation criteria, budget format, and cover sheet are available in hard copy or electronically. This information is also posted on FirstClass. For hard copies or electronic copies, contact Gail Cormier via FirstClass; telephone, 581-3150; fax, 581-4278; mail, Department of Resource Economics and Policy, 206 Winslow Hall.

John Smagula, professor of horticulture, and **David Yarborough**, Extension blueberry specialist and assistant professor of horticulture, attended the following meetings where papers were presented: Northeastern Weed Science Society Washington, D.C., Jan. 5-8, 1998, Yarborough and **T.M. Hess**, "Spot Treatment of Granular Hexazinone for Weed Control in

Wild Blueberries" and "Effect of Formulation on Soil Movement of Hexazinone"; Northeast Regional meetings of the American Society for Horticultural Science, University of Massachusetts, Amherst, Jan 9-10, 1998, Smagula, **W. Litten** and **S. Dunham**, "Effect of Dolomite and 'Photomag' on Nutrient Status of Lowbush Blueberry"; 1998 Wild Blueberry Research and Extension Workers Conference, Halifax, April 15-16, Yarborough and Hess, "Effect of Time of Fall Pruning on Wild Blueberry Growth and Yield," "Best Management Practices to Reduce Hexazinone in Groundwater in Wild Blueberry Fields," "Spot Treatment of Granular Hexazinone in Wild Blueberries" and "Effect of Formulation on Soil Movement of Hexazinone"; 8th North American Blueberry Research and Extension Workers Conference, Wilmington, N.C., May 27-29, Smagula, Litten, and Dunham, "Effect of Magnesium Supplementation on Lowbush Blueberry," Yarborough and Hess, "Effect of Time of Fall Pruning on Wild Blueberry Growth and Yield" and "Effect of Formulation on Soil Movement of Hexazinone"; 95th Annual International Conference of the American Society of Horticultural Science, Charlotte, N.C., July 12-15, Smagula, Litten and Dunham, "Lowbush Blueberry Response to Different Phosphorus/Nitrogen Ratios," and "Assessing Lowbush Blueberry Response to Phosphorus-Containing Fertilizers: Leaf Nutrient Concentration and Content," Yarborough and Hess, "Spot Treatment of Granular Hexazinone in Wild Blueberries."

Kenneth Palmer, professor in political science, and **Kevin Marsh**, graduate student in history, presented a paper, "U.S. Supreme Court Review of Maine Supreme Judicial Court Decisions, 1945-1998," at the annual meeting of the Northeastern Political Science Association, Boston, Nov. 12-14.

John Smagula, professor of horticulture, was invited to Japan by Takato Tamada, professor and blueberry researcher at Chiba Agricultural College in Chiba-Ken prefecture, and the Japan Blueberry Grower's Association to lecture on Maine Lowbush Blueberry Culture, Oct 18-25. Lectures on "Lowbush Blueberry Growth and Production" were given to first-, second- and third-year students at Chiba College. In Tokyo, a presentation on "Blueberry Production in North America" was given to the Japan Blueberry Grower's Association. Research plots at Chiba College and several growers' plantings in the Tokyo area were also visited.

Two papers were presented at the 32nd Annual Convention of the Association for the Advancement of Behavior Therapy, Washington, D.C., Nov. 5-8: "Prevalence and Characteristics of Panic in Post-Menopausal Women," **Roxann Roberson-Nay**, graduate student in psychology; **Jeffrey Hecker**, associate professor of psychology; **Sandra Sigmon**, associate professor of psychology; **Margaret Smith**, undergraduate psychology major. "An Interceptive and Psychoeducational Intervention Targeting Anxiety Sensitivity in a Socially Anxious College Sample," Roberson-Nay; **Kristin Maki**, graduate student in psychology; **William Nay**, graduate student in psychology; and Hecker.

Kenneth Nichols, assistant professor and director of graduate programs, Department of Public Administration, had the following editorial pieces published: "The MPA Is Great, But Way Too Late" in the Education Supplement to *PA Times* (October 1998); "Professional Development Never Ends," (about addressing ethical behavior through training programs within government organizations), *PA Times* (November 1998); and "The Last Word," *Ethics Today* (Fall 1998).

Patrick McMullen, assistant professor of management, presented two papers at the 1998 Decision Sciences Institute conference in Las Vegas, Nov. 22, "Using Simulated Annealing to Address JIT Sequencing for Mixed-Model Assembly Lines with Setups," and "Using Simulated Annealing for Lockbox Collection Points." The second paper was co-authored by **Robert Strong**, professor of finance.

Henry Munson, professor and chair of anthropology, discussed the causes of Islamic militancy at a NATO conference on Mediterranean Security in the 21st Century in Rome on Dec. 4.



Eric Beenfeldt teaches the course and developed this practical application as part of the Electrical and Computer Engineering Department's efforts to improve student recruitment and retention.

Photo by Nick Houtman

Nellie Orr, assistant professor of kinesiology and physical education, presented papers on Exercise in Older Adults and Exercise and Cardiovascular Health at the Pennsylvania State Association for Health, Physical Education, Recreation and Dance conference in Harrisburg, Dec. 4-5.

Robert Milardo, professor of family relations, presented papers on Epistemology and Precision in Family Scholarships, and another on Publishing in Social Science Journals at the annual meeting of the National Council on Family Relations, Milwaukee, Nov. 12-17.

Harold Daniel, assistant professor of marketing, and **Darlene Bay**, assistant professor of accounting, presented a paper, "Trying to Consume - An Application in the Student Retention Decision," Dec. 7 at the Ninth Annual Symposium for the Marketing of Higher Education, San Antonio. The symposium is a national conference sponsored by the American Marketing Association. The paper was co-authored with UMaine MBA student **Chip Griffin**.

Marcella Sorg, RN, Ph.D, Margaret Chase Smith Center for Public Policy and faculty associate, anthropology, attended the Maine Workforce and Rural Health Association Conference at the Samoset Resort, Rockport, Dec. 2-4, representing the Interdisciplinary Training for Health Care for Rural Areas Projects and the Maine Consortium of Partnerships. During this three-day conference, Sorg conducted two workshops: Demystifying Research, in collaboration with David Hartley, Ph.D., MHA, from the Muskie School of Public Service; and Learning Organizations in Health Care: A Consortium Model, in conjunction with D. Cleghorn, Ed.D., from Lawrence Family Practice, Lawrence, Mass.

Winners in the remote-controlled car competition in Electrical and Computer Engineering were Clayton Matthews of Buckfield, left, and Prashanth Chandrasekar of Bangalore, India. In the competition, the object for the student engineers was to not just cross a finish line, but to use specially designed "attachments" on the vehicles to capture more wooden cubes than their opponents. The winning team earned "bragging rights." For the past two years, ECE 101 has featured hands-on engineering experience using the remote-controlled car kits. Lecturer

François Amar, associate professor of chemistry, and chemistry graduate student **W.H. Jinasena**, attended the High Performance Computing and Visualization Workshop at the Boston University Center for Scientific Computing and Visualization, Dec. 3-4.

Max Egenhofer, director of the National Center for Geographic Information and Analysis, College of Engineering Libra Professor, associate professor in spatial information science and engineering, and cooperating associate professor in computer science, attended the Seminar on Integrating Spatial and Temporal Databases at Dagstuhl, Germany, Nov. 22-27. He gave a talk on Spatio-Temporal Reasoning about Identity and Visibility, co-authored by **Kathleen Homsby**, graduate research assistant in spatial information science and engineering and the National Center for Geographic Information and Analysis; was co-author of the presentation Geospatial Lifelines, presented by David Mark, professor in geography at the University at Buffalo; and chaired a session on Spatio-Temporal Queries.

Gloria Vollmers, associate professor of accounting, was an invited speaker at the New England Archivists fall conference at the University of Connecticut, Oct. 30-31. She spoke on the use of accounting records in historical research.

Dudley Doane, associate director of the Intensive English Institute, and **Janis Williamson**, director of the Intensive English Institute, presented "Predictors of Academic Success Among International Undergraduates Who Are Non-Native Speakers of English" at the NAFSA Association of International Educators Region XI conference, Nov. 13, Hyannis, Mass.

Robert Vadas and Ph.D. graduate student **Jill Fegley** participated in the Cobscook Bay Rockweed Forum in Eastport Nov. 21. Vadas and research associate **Wesley Wright** presented a paper, "Vulnerability of *Ascophyllum nodosum* to Natural and Other Disturbances." Fegley and Vadas presented on "Short Term Effects of Harvesting *Ascophyllum nodosum* on the Associated Community." The forum was organized to inform seaweed harvesters, resource managers and legislators of the biology and ecology of rockweeds, and on the potential impacts of harvesting on seaweed resources.

Graduate student **S. Koneshan** of the Chemistry Department was a visiting student at the Pacific National Laboratories in Washington state during summer 1998, and visited the Center for Advanced Research in Biotechnology (CARB) in Rockville, Md., during the fall semester. He gave a talk to the Biotechnology Group of National Institute of Standards and Technology (NIST) Nov. 23 on his simulations studies, with Professor of Chemistry **J. Rasaiah**, "Self Assembled Alkane Thiol Membranes," and presented a poster on this work at the Manhattan poster project VI at NIST, Nov. 16-17. Rasaiah is a visiting

scientist at Biotechnology Division of the NIST. He gave talks on his research on "Ionic Friction and Mobility in Aqueous Solutions," which is supported by the National Science Foundation grant, to The Physical and Chemical Properties Division of NIST Sept. 21; the Chemistry Department, Georgetown University Oct. 21; and the Institute of Physical Science and Technology (IPST) of the University of Maryland, College Park, Nov. 24.

Alan White, associate professor of forest resources, and **Malcolm Hunter Jr.**, Librarian Professor of Conservation Biology, presented a paper, "Ecological Thresholds and the Definition of Old Growth Forest," at the Eastern Old Growth Conference, Harvard Forest, Mass., Nov. 6. At the Biodiversity in Maine Conference, UMaine, Nov. 20, Hunter chaired the session, "Basic Concepts of Biodiversity Conservation," and presented a paper, "What is Biodiversity and Why is it Important?"

Peter Tarasewich, assistant professor of management information systems, presented a paper, "Genetic Algorithm Techniques Applied to Product Line Design with Pricing," at the Annual Meeting of the Decision Sciences Institute in Las Vegas, Nov. 22.

Reaccreditation *continued from page 2*

For the past year and a half, the University has been engaged in a process of self-evaluation, addressing the Commission's Standards for Accreditation. The results of this process are contained in the University of Maine Self-Study Report, accessible at www.umaine.edu.

An evaluation team will visit the institution to gather evidence that the self-study is thorough and accurate. The team will recommend to the Commission a continuing status for the institution; following a review process, the Commission itself will take the final action.

The public is invited to submit comments regarding the UMaine to: Public Comment on the University of Maine, Commission on Institutions of Higher Education, New England Association of Schools and Colleges, 209 Burlington Road, Bedford, Mass. 01730-1433. E-mail: cihe@neasc.org.

Comments must address substantive matters related to the quality of the institution. Comments will not be treated as confidential.

Written, signed comments must be received by April 7. The Commission cannot guarantee that comments received after that due date will be considered. Comments should include the name, address, and telephone number of the person providing the comments.

The Commission cannot settle disputes between individuals and institutions, whether those involve faculty, students, administrators or members of other groups. Individuals considering submitting complaints against an affiliated institution should request the separate Policy and Procedures for the Consideration of Complaints Against Affiliated Institutions from the Commission office. ▲

Media Spotlight

Fried in *Houston Chronicle*, Gannett News Service

Assistant Professor of Political Science Amy Fried was quoted in a Dec. 27 *Houston Chronicle* story about public reaction to the Clinton scandal and impeachment. Fried commented on the media's role in shaping public opinion during political scandals. Earlier last month, Fried also talked on impeachment and public opinion to a reporter with *Florida Today*/Gannett News Service.

Watling in *USA Today*

Last month, National Public Radio broadcast a story about the negative impact of trawlers on the world's fisheries. The story made reference to a study co-authored by Professor of Oceanography Les Watling. Watling, a member of the School of Marine Sciences faculty, also was quoted in a Dec. 15 story in *USA Today* on the same subject.

Silver in the *Boston Sunday Globe*

Evelyn Silver, director of Equal Opportunity, was quoted in a *Boston Sunday Globe* story Dec. 27 about race on campus and the challenges New England schools face in recruiting minority students.

Bayer Interviewed by the Associated Press

Robert Bayer, director of the Lobster Institute, was quoted in an Associated Press story Dec. 11 on continuing concerns over lobster health in pounds and in the wild. Bayer noted that increases in mortality are still a problem in some pounds, although industry representatives are reluctant to discuss them.

Food Science and Human Nutrition Students in National Newsletter

Two students in the Department of Food Science & Human Nutrition – junior Hannah Osborn and master's candidate Ken Viscidi – were cited in the December newsletter of the Nutrition Division of the Institute of Food Technologists. Both students had been recognized at the Division's luncheon at the annual meeting of IFT in June. Associate professor Mary Ellen Camire is the new chair-elect of the division, which has over 1,800 members.

Daniel in *Management Review*

Harold Daniel, assistant professor of marketing, was quoted extensively in an article, "The Technology Treadmill," in the December issue of *Management Review*, an American Management Association publication. The article focuses on decisions to upgrade manufacturing and office automation systems.

Cody Interviewed by *Los Angeles Times*

Howard Cody, associate professor of political science and Canadian studies, was interviewed in early December about recent Canadian elections by the *Los Angeles Times* and New Brunswick radio station CHSJ.

AUBG in *Atlantic Monthly*

The December issue of *Atlantic Monthly* includes a story about conditions in Bulgaria, focusing in large part on the influence of organized crime. The story, written by Robert Kaplan, makes a positive reference to UMaine through its association with American University at Bulgaria, which, the story says, is "the only place where Serbs and Albanians . . . not only sit together in class, but are good friends."

Steneck in *Gulf of Maine Times*

Research by Robert Steneck of the School of Marine Sciences is featured in the winter edition of *Gulf of Maine Times*, a quarterly newspaper published by Gulf of Maine Council on the Marine Environment. The story includes photos of recent underwater dives to explore lobster habitat along the Maine coast and a note about a recent award by the Pew Fellows Program to Steneck and Leslie Watling, also of SMS. Both Steneck and Watling conduct their research at the Darling Center in Walpole.



**The Combined Charitable Appeal
for University Employees
total to date:
\$68,813**

Maine Perspective classified ads are free to faculty, staff and students at the University of Maine. Ads must be typewritten and include a telephone number. They will be published one week only unless otherwise specified. Send ads to: Maine Perspective Classifieds, Public Affairs.

FOR SALE

HOUSE: Orono. Restored antique Cape, beautiful lot overlooking the Stillwater River. Canoe portage

nearby. 10 minutes from campus. \$87,900. Call 827-7431.

RUG: Fine quality Persian Oriental rug (traditional Bokhara) 6'2"x10'6," Saliba estimate, \$3,200. Will sell for \$1,800. Will last lifetimes. Call 234-2128.

FOR RENT

APARTMENT: Bradley. Well-maintained furnished 1-BR apartment in quiet setting. Sliding glass door overlooking the Penobscot River. Seven miles from campus. \$400/mo. which includes heat, water and plowing. References and security deposit required. No pets. Available immediately. For more information, call 827-7017.

SERVICES

FINANCIAL SERVICES AND RETIREMENT PLANNING: Jane Campbell Brann, VALIC Retirement Plan specialist, is available for individual or group assistance at the University every Tuesday or by appointment. Call 732-4955 or leave voice mail at 800-448-2542, x89272. Visit us at www.valic.com.

TREE REMOVAL SERVICE: Free estimates, many references. Seasoned firewood \$70 per 1/2 cord or \$130/cord, delivered. Commercial woodsplitter rental, 4-way wedge, free delivery, \$65/day or \$100/2 days. Call Gordon, 866-7034.

SURPLUS SALE: The University of Maine offers for sale, on an as-is, where-is basis, the following: (1) COLOR SCANNER, Relisys 4816, 24 bit, 300DPI, with adapter card and all software, about 3 1/2 years old, \$50; (1) WOVEN WIRE EQUIPMENT ENCLOSURE, heavy duty, 42 linear feet, 7' high, includes a 6' and a 7' sliding door, hardware and steel posts. Excellent for securing storage areas. Cost \$1,700 new, \$500 or BO. Off-campus inquiries are welcome. Items generally sell for the prices specified, however, lower offers are sometimes considered. For further information contact Ron Logan, Purchasing Department, 581-2692 or Email: Logan@Maine.

Positions Available

The qualifications within the listings below are greatly abbreviated. In order to assess your background relative to the job and to submit the most effective application, contact the hiring department for more complete information. Guidelines for filling professional positions are available by contacting the Office of Equal Opportunity, x1226. A Request to Fill form must be approved before posting in Maine Perspective.

Assistant Professor (Theatre Generalist), School of Performing Arts. Full-time, tenure-track position.

Qualifications: Must have at least one full year of teaching experience and a terminal degree. Voice and/or Movement experience are highly desirable. Will teach a wide range of subjects, including undergraduate courses in the following areas: dramatic literature, musical theatre performance, and history. There is an opportunity to direct one main stage production per year. Review of Applications: Will begin immediately and continue until position is filled. Contact: Send resume and three letters of recommendation to: Search Committee Chair, University of Maine, School of Performing Arts, Division of Theatre/Dance, 5788 Class of '44 Hall, Orono, ME 04469-5788.

Research Assistants (2), Water Research Institute. Full-time laboratory positions, with continuation contingent on extra-mural funding. Qualifications: Minimum: BA/BS in chemistry, environmental science or engineering. Strong analytical, computer and laboratory skills; experience with EPA organic extraction methodology and analysis, especially GC and/or GC/MS; excellent interpersonal skills and be able to work independently. A pre-employment physical is required. Salary Range: \$23,000-\$26,000, depending on qualifications. Review of Applications: Began 12/28/98. Contact: Send letter of application, resume, and names and phone numbers of three references to: Search Committee, Water Research Institute, University of Maine, 5764 Sawyer Environmental Research Center, Orono, ME 04469-5764. No phone inquiries, please. www.ume.maine.edu/~wri/

Assistant Professor, College of Education and Human Development. Tenure-track position in educational psychology/measurement. In addition to teaching and research responsibilities, the successful candidate will assume consultative role with COEHD faculty and students, and teachers and administrators in Maine schools. Qualifications: Required: Ph.D. in educational psychology or related area, with emphasis in educational measurement and assessment (ABDs with anticipated conferral of 6/99 will be considered); demonstrated success (or potential for success) in university teaching, research and scholarship, and in working with public schools on measurement- and assessment-related needs and initiatives; strong written and interpersonal communication skills. Desired: Experience with diverse populations and teaching K-12. Review of Applications: Will begin 2/1/99 and continue until position is filled. Contact: Send letter of application addressing qualifications and responsibilities, and statement of research interests; complete CV; three letters of recommendation (with names, addresses and telephone numbers); graduate school transcript; sample publications and conference papers; and evidence of teaching effectiveness at the university level to: Theodore Coladarsi, University of Maine, 5766 Shibles Hall, Orono, ME 04469-5766. Phone: 207-581-2474; fax: 207-581-2423; E-mail: theo@maine.edu

Assistant or Associate Professors (2), Department of Electrical & Computer Engineering. Tenure-track positions. Rank at the time of appointment is dependent upon qualifications. Qualifications: Ph.D. in electrical engineering, computer engineering, or a related discipline and have background in microelectronics. Applicants at the assistant professor level should demonstrate ability to contribute to existing research programs or to establish an independent, externally funded research effort. Applicants at the associate and full professor level must document relevant prior research and the potential for continuing research support. All applicants are expected to be effective teachers and have expertise in one or more of the following areas: circuit design for high-speed data conversion, sensors or sensor systems, and microelectronics circuit design or modeling, testing, instrumentation, or fabrication including automation and packaging. Exceptional candidates in other areas of microelectronics will also be given consideration. Should demonstrate eligibility to accept employment in the United States. Review of Applications: Will begin 2/1/99 and will continue until the positions are filled. Contact: Send letter of application, statement of research interests, resume, and the names of three references to: Faculty Search Committee, University of Maine, 5708 Barrows Hall, Orono, ME 04469-5708.

Research Associate, Automated DNA Sequencing Facility and Freezer Program, School of Marine Sciences. Half-time, one-year appointment, with renewal contingent on available funding. Qualifications: Required: Master's or bachelor's degree in one of the biological sciences. Under certain circumstances, experience may be substituted for the degree. Excellent teaching, organizational and interpersonal communication skills. Highly Desirable: Experience with automated DNA sequencing and DNA sequence analysis, basic word processing, general familiarity with recombinant DNA techniques (e.g., PCR amplification, DNA isolation and quantification). Salary Range: \$11,000-\$14,000. Review of Applications: Will begin immediately. Start Date: 1/1/99. Contact: Send letter of application, resume and names and addresses of three references to: Rebecca Van Beneden, School of Marine Sciences, University of Maine, 5751 Murray Hall, Orono, ME 04469-5751.

Faculty Position, School of Marine Sciences and Department of Geological Sciences. Anticipated full-time, tenure-track, academic-year, senior faculty position in coastal sedimentology. The position is 50 percent teaching and 50 percent research. It is expected that the successful candidate will provide extramural support for their research program that includes between 25 percent and 50 percent of their academic year salary. Qualifications: An earned Ph.D. in geology or a closely related discipline; ability to apply research to environmental and resource problems of importance to the State of Maine; an established record of grant development and management; and demonstrated effectiveness in teaching. It is expected that the successful applicant will bring with them the extramural support described above. Review of Applications: Will begin immediately and continue until a suitable applicant is identified. Contact: Send letter of application, curriculum vitae, other supporting materials and three letters of recommendation to: Daniel Belknap, Chair, Marine Geologist Search Committee, University of Maine, School of Marine Sciences, 5741 Libby Hall, Orono, ME 04469-5741. Telephone: (207) 581-2159. E-mail: Belknap@maine.maine.edu

continued next page

Positions Available

Project Coordinator, Center for Research and Evaluation, College of Education and Human Development. Fiscal-year, professional staff position. Qualifications: Minimum of a master's degree or equivalent (doctorate or ABD preferred); demonstrated computer skills, including knowledge of SPSS or SAS, Microsoft Excel and Microsoft Word; the ability to use advanced (multi-variate) statistical procedures; ability to balance the demands of multiple projects; ability to travel, normally requiring a driver's license; and excellent oral and written communication skills. Review of Applications: Will begin immediately and continue until the position is filled. Salary Range: \$30,000 to \$35,000. Contact: Send letter of application, resume, transcripts, and names and phone numbers of three references to: Amy Cates, University of Maine, College of Education and Human Development, 5766 Shibbes Hall, Orono, ME 04469-5766.

Assistant Professor (Educational Leadership), College of Education and Human Development. Tenure-track position. Qualifications: Earned doctorate in educational leadership, administration, or a related field; and enthusiasm for teaching, inquiry, and school leadership development. Candidate will demonstrate: ability to facilitate leadership development among educators; strong background in school system leadership and administration; knowledge of educational program planning, implementation and assessment and its link to the practice of school leadership and school improvement; understanding of the dynamics of diversity and inclusivity in educational organizations; successful teaching and advising at the graduate level; capacity for research, with reference to strengthen our quantitative side, and writing. Review of Applications: Will begin 1/11/99 and continue until position is filled. Start Date: 9/99. Contact: Send letter of application addressing each of the qualifications listed above, placement file with transcripts, three letters of recommendation, and a vita to: David Brown, Associate Professor, Educational Leadership Search Committee, University of Maine, 5766 Shibbes Hall, Orono, ME 04469-5766. E-mail: david_brown@umit.maine.edu Voice-mail: 207-581-2453.

Director of Sales and Marketing, National Poetry Foundation. Part-time, one-third time, fiscal-year, professional position. Initial six-month appointment with renewal contingent on funding. Time worked may change in future, depending on funding. Qualifications: Required: B.A. in one of the humanities; excellent oral and written language skills; experience in the publication, promotion and distribution of books and journals, especially books of poetry and scholarly books and journals; experience and record of success in grant-writing; experience in preparing financial reports; computer proficiency. Preferred: M.A. in one of the humanities; broad knowledge of 20th Century poetry in English; skills in the layout and design of books and scholarly journals. Review of Applications: Will begin 12/15/98 and will continue until position is filled. Preferred Start Date: 1/1/99. Salary Range: \$9,000 to \$10,000. Contact: Send letter of application addressing qualifications, at least three letters of recommendation or names and addresses of references, and a full CV to: Professor Burton Hatlen, Room 304, University of Maine, 5752 Neville Hall, Orono, ME 04469-5752.

Assistant Baseball Coach/Lecturer in Physical Education, Department of Athletics. Ten-month, September-June/50%, position. Qualifications: B.A. degree; college coaching experience; excellent computer skills; excellent written and oral communication skills; knowledge of and demonstrated commitment to NCAA rules and regulations; ability to travel, normally requiring a valid driver's license. Salary: \$10,000. Review of Applications: Will begin 1/22/99 and continue until a candidate is identified. Contact: Send letter and resume to: Paul Kostacopoulos, Head Baseball Coach, 5745 Mahaney Clubhouse, Orono, ME 04469-5745.

Director, Counseling Center. Full-time, professional position. Qualifications: Required: Must be a licensed psychologist in the State of Maine within one year from time of appointment. Have demonstrated success in administrative leadership in a college environment and demonstrated success in, and understanding of, challenges pertaining to the issues of diversity; be sensitive to others; exhibit effective communication skills; and possess a vision for future directions of college counseling centers. Preferred: Substantial post-doctoral experience in counseling. Review of Applications: Will begin 1/18/99. Start Date: 7/1/99. Contact: Send letter of application, vita, and the names and addresses of five references to: Counseling Center Search Committee, University of Maine, Suite 218, 5703 Alumni Hall, Orono, ME 04469-5703.

Associate Dean for Multicultural Student Affairs, Office of Multicultural Student Affairs. Full-time, fiscal-year position. Qualifications: Required: Advanced degree and substantial experience addressing multicultural issues; demonstrated abilities in administration, program development, training, creative leadership, human relations, and conflict resolution; excellent oral and written communication skills; and ability to work in a collaborative, inclusive environment. Preferred: Demonstrated experience with and sensitivity to individuals of diverse cultural backgrounds and counseling and advising skills. Salary Range: \$35,000-\$45,000. Review of Applications: 2/15/99. Contact: Send letter of application, resume, and names, addresses and telephone numbers of three references to: Chair, Search Committee, Associate Dean for Multicultural Student Affairs, University of Maine, 5748 Memorial Union, Orono, ME 04469-5748. For full announcement and/or job description, contact our website at www.umaine.edu/hr/; phone (207) 581-1405; or write to the above address.

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

PROFESSIONAL, FACULTY SEARCH, SELECTION GUIDE AVAILABLE

CONFUSED? LONGING FOR AN EASY-TO-UNDERSTAND GUIDE TO THE SEARCH AND SELECTION PROCESS? The Office of Equal Opportunity announces the completion of the new Professional and Faculty Search and Selection Guide. This easy to follow, step-by-step guide through procedural quagmire and legal quicksand is available AT NO COST from the Office of Equal Opportunity (x1226) or on FirstClass in the Equal Opportunity folder, (accessed through Campus Connection and then University Organizations). Be the first in your department to own one!

Career Fair *continued from page 5*

600 UMaine students earned academic credit by participating in internships on and off campus.

In addition to engineering, internships are offered in such disciplines as business, communication and journalism, English, psychology, biology, botany and social work.

"All on-the-job experience is valuable, but an internship often takes learning one step further in content and applicability to an academic field," says Career Center Director Patty Counihan. "On resumes, internships make huge differences. Companies like Fairchild Semiconductor and National Semiconductor are changing their policies to hire only college grads who have coop experience with them. They will have 60 coop positions this year and want to fill 80 percent with UMaine students."

Many internship application deadlines fall in February. In preparation, the Career Center is sponsoring its second annual Career Fair, 10 a.m.-3 p.m., Thursday, Jan. 28, Wells Conference Center. To date, more than 70 industry representatives from throughout the country have signed up to participate. More than 50 have indicated they have full-time jobs to fill; almost all have summer and academic-year coop positions available.

Also to aid in the search for internships, the Career Center offers numerous resources, including a nationwide internship database, 1999 internship directories, and student support services such as resume writing. A workshop, "How to Find Internships," is scheduled for Tuesday, Jan. 19, 2:10 p.m., in the Career Center. ▲

Correction

The Viewpoints column in the last issue of Maine Perspective noted that Honorable Mention in the Dorothy Clarke Wilson Peace Writing Award went to senior Richard Ronco of Orono. Ronco is majoring in sociology, not philosophy.

Pls who plan to submit a grant application to the National Science Foundation in 1999 and who are not yet registered FastLane users are urged to contact Clifford Wilbur, 581-1419, as soon as possible to initiate registration.

National Institute on Alcohol Abuse and Alcoholism, the Department of Education, and the

Center for Substance Abuse Prevention jointly invite applications to conduct intervention-oriented research that will ultimately lead to the reduction of alcohol-related problems among college students. Letters of intent are due Feb. 23; applications, March 23.

Camille & Henry Dreyfus Foundation invites experts in environmental science and engineering fields to propose a program for training Ph.D. chemists and chemical engineers in research activities related to chemistry and the environment. Awards provide \$96,000 for two years of support of a postdoctoral research associate. Deadline: March 1.

National Science Foundation, in collaboration with a consortium of federal statistical agencies, invites research to further new and innovative approaches to surveys. Priority will be given to basic research with broad implications for survey methodology in general and potential for creating fundamental knowledge of value to the Federal Statistical System. Deadline: March 1.

Robert Wood Johnson Foundation's Health Care Financing and Organization Program requests proposals for policy analyses and research, demonstration and evaluation projects examining major changes in healthcare financing with implications for current policy issues. Letters of intent to respond to this special solicitation will be accepted until further notice.

U.S. Department of Energy's Comprehensive Nuclear-Test-Ban Treaty Research and Development Program accepts unsolicited research proposals in support of its mission. Program priorities focus on the advancement of seismic, infra-sound, radionuclide, and hydroacoustic knowledge and capabilities.

National Science Foundation has revised proposal requirements for the FY99 Knowledge & Distributed Intelligence Program. Both pre-proposals and full proposals must be submitted via FastLane.

For more information, call Research & Sponsored Programs, x1476, or visit our Website at www.ume.maine.edu/~spd/index.html.

WINTER PARKING RULES IN EFFECT

The University's winter parking rules are now in effect. It is illegal to park in employee (blue) or commuter (black) lots between midnight and 6 a.m. The winter rules stay in effect through May 1. Questions should be directed to the Public Safety Parking Office, 581-4047.

U.S. POSTAL SERVICE RATE INCREASES

(effective Jan. 10, 1999)

First Class Mail - Single piece, first ounce letter rate increases from \$0.32 to \$0.33. Each additional ounce decreases from \$0.23 to \$0.22 per ounce, up to 13 ounces. The maximum weight for First Class mail increases from 11 ounces to 13 ounces; heavier pieces are subject to priority mail rates.

Priority Mail - Priority Mail rates for up to 2 pounds increase from \$3 to \$3.20. All other Priority Mail rates increase according to weight and destination zone.

Express Mail - Express Mail next day half-pound rates increase from \$10.75 to \$11.75. The 2-pound rate increases from \$15 to \$15.75. All other Express Mail rates have moderate increases.

Certified Mail - The fee increases from \$1.35 to \$1.40.

Return Receipt - The fee increases from \$1.10 to \$1.25.

Non-Profit Standard A Mail - Letter and non-letter size pieces weighing 3.2873 ounces or less have a basic rate fee increase from \$0.138 to \$0.169 per piece for letters, an increase from \$0.201 to \$0.233 for flats.

For more information on campus, call Jim Vaillancourt, Mail Room, x3760.

INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE MEETINGS

The Institutional Animal Care and Use Committee (IACUC) reminds investigators/instructors that no research, teaching, or testing activities using live vertebrate animals shall be initiated until the IACUC has approved a protocol for such use. Listed below are the meeting dates for the spring semester. Completed Protocol Review Forms should be submitted two weeks before the meeting date in order to be reviewed at that meeting.

Protocol review forms and copies of the University's Policies and Procedures for the Humane Care and Use of Animals are available from Gayle Anderson, Office of Research and Sponsored Programs, 424 Corbett Hall, x1498.

The information also is available at the ORSP Website, www.ume.maine.edu/~spd/index.html.

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

IACUC Meeting Dates (submit protocols at least two weeks before meeting date): Jan. 25, Feb. 22, March 22, April 19.

What's Ahead



**MARTIN LUTHER KING JR.
DAY OBSERVANCE**
January 18

BEARWORKS DISCUSSION
January 22

**STUDENT PERCEPTIONS OF
ACADEMIC LIFE AT UMAINE**
January 27

CAREER FAIR
January 28

**OPENING RECEPTION FOR
EVELYN HOFER EXHIBITS**
January 29

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