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## UMaine a World Leader in Sensor Research

Josh Caron of Quimby came to the University of Maine in 1990 to focus on emerging technology.

He found the pioneering science he was looking for in the Environmental Sensor Research Group, based in UMaine's Laboratory for Surface Science & Technology (LASST).

"When I showed up for my first tour, my jaw dropped open," says Caron, who, like 15 UMaine juniors every summer for the past several years, participated in the National Science Foundation (NSF) Research Experience for Undergraduates Program. "I had no idea we had this kind of equipment on campus. After that, I knew I'd love to work there."

Caron has since earned a name in sensor research by pushing the limits of this young field of science. He is employed by one of two new industries in Maine established as a result of the University-based research. And he has helped

bring in more than \$4.5 million in research grants to his employer, Sensor Research and Development Corp. (SRD) of Orono.

Caron is one of 14 UMaine graduates on staff at SRD, including recently hired senior staff scientist Dean Smith of Dover-Foxcroft. Smith, the stand-out UMaine basketball captain who received his master's degree in electrical engineering in 1991, says he initially had to take his expertise out of state. But UMaine's international renown in sensor research changed that.

"I left the University in 1991 and spent the last seven years on a pilgrimage trying to find a way back to Maine and the University atmosphere," says Smith, who was involved in undersea acoustic research at the Naval Undersea Warfare Center in Rhode Island. "SRD, with its strong ties to the University, provided me with a great

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*Photo by David McLain*

## New Initiative Focuses on Instructional Development

College teaching may be one of the few professions where virtually all training for the work takes place on the job. While future professors take course after course in graduate programs to master their discipline, few receive assistance in learning how to actually teach college students.

That's about to change at the University of Maine.

As part of the BearWorks action plan, a new Office of Instructional Development is in the planning phase this year. A steering committee, led by Doug Gelinis, vice provost for undergraduate education, has been formed to develop goals for the new center, and launch a national search for a director.

Connie Perry and Brenda Power, faculty members in the College of Education and Human Development, have been tapped as part-time interim co-directors of the Office of Instructional Development for the 1998-99 academic year. Perry was the recipient of the first College of Education and Human Development Alumni Distinguished Professor award in 1995. Power is the author of *Long Roads, Short Distances*, a memoir of learning to teach at the college level, published by Heinemann Educational Books in 1997.

"We have three goals this year," says Perry. "First, we want to celebrate the fine teaching going on across campus –

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### In Perspective

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- 10 Research and Development, Part 2

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

## Record Set at UMaine with \$30 Million in Grant Funding

University of Maine faculty and staff successfully competed for more than \$30.3 million in grants between July 1, 1997 and June 30, 1998, according to the Office of Research and Sponsored Programs.

The total is a new record for grant funding received by UMaine researchers, bettering last year's amount by \$4 million.

"This is good news for the University and for the state," says UMaine President Peter S. Hoff. "University research translates directly into new jobs, both at the University and throughout the state. Along with providing students with hands-on, cutting-edge educational experiences, University research also helps create new products, technologies, businesses and industries.

"With that level of impact, the University of Maine is clearly one of the most influential economic forces in Maine," Hoff adds. "As countless studies have shown, university-based research can be our best hope for a strong, sustainable economy statewide."

During the past year, faculty and staff submitted 426 proposals for a total of \$84.5 million. Of the new funding received, 67 percent was from federal agencies, 18 percent from state and local governments and 1 percent from business and industry. The remaining 14 percent was from other sources, including foundations. Among the projects which received support were "Developing Sensors for Chemical and Biological Detection," "Improving Cold-Water Marine Aquaculture," "Composite Reinforced Wood," "Improving Wildlife Habitat in Maine," "The Ecology and Oceanography of the Gulf of Maine" and "Age, Hypertension and Intellectual Performance."

Grants pay for salaries, equipment and research expenses such as analytical procedures and supplies. Funds are also used to support students who work on research projects as part of their educational programs.

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## Conference Will Focus on Higher Education and the 21st Century Workplace

The nature of work is changing in the 21st century workplace. Skills that have traditionally been taught may no longer be useful to modern-day employers. Education has to be prepared to give students the skills they need to compete in a global economy.

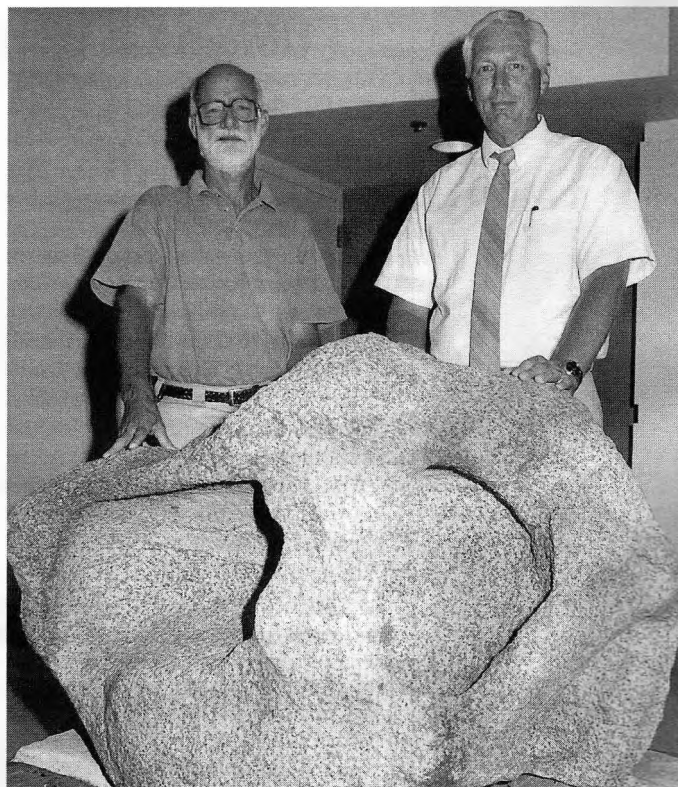
Major Maine employers and University of Maine faculty and staff will discuss these changes and trends at a day-long conference, "Education for What? Higher Education and the 21st Century Workplace," on Oct. 1.

"This is the first time something like this has been done at UMaine," says John Dorrer, assistant professor of economics. "We hope this event will stimulate a dialogue about the relationship between the University and the modern workplace."

The day will begin at 11 a.m. in Hauck Auditorium with a keynote address by Anthony Carnevale, vice president for public leadership at Educational Testing Service (ETS). Carnevale is a nationally recognized authority on education, training and employment and also chairs the National Commission on Employment Policy by appointment of President Clinton. The title of his address will be "Education for What?"

After Carnevale's talk, 10-minute presentations will be given by members of a panel made up of major Maine employers. The panelists will describe the skills and qualities that employees in

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A 300,000,000-year-old pink granite boulder from Antarctica will soon have a new home in the Bryard Global Sciences Building, home of the Department of Geological Sciences, chaired by Steve Norton, left, and the Institute for Quaternary Studies, directed by George Jacobson, right. The stone is displayed in tribute to decades of Antarctic research by members of the UMaine faculty, and to honor the accomplishments of Richard E. Byrd, the naval aviator and polar explorer who played a large role in promoting research in and peaceful use of the southern continent. The 700-pound boulder was removed from Antarctica nine years ago under the supervision of UMaine Professor of Geological Studies and Quaternary Studies Hal Borns, who was asked by the Byrd family to find a boulder suitable for display at the Rear Admiral's gravesite in Virginia. Byrd's family decided last year to donate it instead to UMaine. Byrd, who was the first person to fly over the North Pole (in 1927) and the South Pole (in 1929), led five Antarctic research expeditions between 1928 and 1956. He died in 1957 at the age of 69. His family has long had a summer home in Maine and interest in UMaine. Dysarts Transport Inc. of Bangor donated the transportation to bring the boulder from Virginia to Maine.

### MAINE Perspective

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UNIVERSITY OF  
**MAINE**

# Calendar

# MAINE

SEPTEMBER 18 - OCTOBER 6

## 18 Friday

**Performance by the Lidlal Trio**, part of the Jazz TGIF series, offered by the Union Board, 12:15 p.m., Sept. 18, Damn Yankee. x1734.

**High-Impact Cover Letters**, Job Search Workshops offered by the Career Center, 2:10 p.m., Sept. 18, 121 Lengyel Hall. Sign-up in Career Center. x1359.

**Field Hockey: Maine vs. University of Rhode Island**, 3 p.m., Sept. 18.

**"Science and Simulation: Studying Sunscreens on the Côte D'Azur,"** by Malcolm Shick, part of the Biological Sciences Seminar Series, 3:10 p.m., Sept. 18, 102 Murray Hall. x2549.

## 19 Saturday

**Orono Fall Festival**, beginning with a 7 a.m. pancake breakfast and featuring events and activities throughout the day, including a road race, street dance, live music, craft tables and food, Sept. 19, downtown Orono. 866-5065.

**"For the Love of Frogs,"** a Hudson Museum Just for Kids Program, 10 a.m., Sept. 19, Maine Center for the Arts. Preregistration. Fee. x1901.

**Blacksmith Round-up**, Maine Forest and Logging Museum, Leonard's Mills, 10 a.m.-3 p.m., Sept. 19, Bradley. Donations. x2871.

**Women's Cross Country: Maine vs. Northeastern**, 11 a.m., Sept. 19.

**Maine Center for the Arts Gala - Spirit of the Dance**, part of the Maine Center for the Arts performance season, 8 p.m., Sept. 19, Hutchins Concert Hall. Admission fee. x1755.

## 20 Sunday

**Field Hockey: Virginia Commonwealth vs. University of Rhode Island**, 1 p.m., Sept. 20. xBEAR.

**Joshua Whitehouse Faculty Recital**, part of the School of Performing Arts season, 2 p.m., Sept. 20, Minsky Recital Hall. Admission fee. x1755.

## 21 Monday

**Networking for Jobs**, a Job Search Workshop offered by the Career Center, 2:10 p.m., Sept. 21, Career Center Lab, Chadbourne Hall. Sign-up in Career Center. x1359.

## 22 Tuesday

**"Works in Progress: UMaine Faculty Reflect on Their Experience in the Multicultural Women's Studies Institute,"** with Peg Cruikshank, Margo Lukens, Liam Riordan and Carol Toner, part of the Women in the Curriculum Luncheon Series, 12:15 p.m., Sept. 22, FFA Room, Union. x1228.

**Coffee House with Ratsy**, offered by the Union Board, 8 p.m., Sept. 22, Peabody Lounge, Union. x1734.

## 23 Wednesday

**Electronic Job Search**, Job Search Workshops offered by the Career Center, 3:10 p.m., Sept. 23, 121 Lengyel Hall. Sign-up in Career Center. x1359.

**"Jewish Emancipation, the Church and the Unification of Italy: The Kidnapping of Edgardo Mortara,"** by David Kertzer, the Paul Dupee Jr. University Professor of Social Science and professor of anthropology and history at Brown University, part of the Department of History Symposium Series, 3:30 p.m., Sept. 23, 100 Neville Hall. x1913.

**Faculty Senate meeting**, 3:15 p.m., Sept. 23, Mahogany Room, Wells Conference Center. x1167.

**"Test Taking,"** a Study Skills Program, 3:15 p.m., Sept. 23, Sutton Lounge, Union. x1734.

## 24 Thursday

**Open Forum on the Blue Ribbon Panel Report, with President Peter Hoff**, 10 a.m.-noon, Sept. 24, Bangor Lounges, Union.

**"Refugee Policy as a Political Weapon,"** by Russ Christensen, former INS judge and Maine political activist, part of the Marxist and Socialist Studies Luncheon Series, 12:30 p.m., Sept. 24, Bangor Lounge, Union. x3860.

## 25 Friday

**Open Classroom Day**, part of Family and Friends Weekend, 8 a.m.-5 p.m., Sept. 25.

**Performance by Jazz Farm**, part of the Jazz TGIF series, offered by the Union Board, 12:15 p.m., Sept. 25, Damn Yankee. x1734.

**Aquaculture at UMaine Tour**, part of Family and Friends Weekend, 3 p.m., Sept. 25, Aquaculture Research Center.

**Pulp and Paper Making Demonstration**, part of Family and Friends Weekend, 3 p.m., Sept. 25, Jenness Hall.

**"Genetic Dissection of Ion Channels (Flies, Flowers, Cockroaches, & People),"** by Linda Hall, Department of Biochemical Pharmacology, State University of New York at Buffalo, part of the Biological Sciences Seminar Series, 3:10 p.m., Sept. 25, 102 Murray Hall. x2536.

**Effective Interviewing Techniques**, Job Search Workshops offered by the Career Center, 3:10 p.m., Sept. 25, Career Center Lab, Chadbourne Hall. Sign-up in Career Center. x1359.

**Movie: Scent of a Woman**, part of Family and Friends Weekend, offered by the Union Board, 6:30 p.m. and 9:15 p.m., Sept. 25, 100 Corbett Business Building. Admission fee.

**Performance by the Air Force Band of the Rockies "Galaxy Brass,"** offered by the School of Performing Arts and Bangor Daily News, 8 p.m., Sept. 25, Hutchins Concert Hall. For tickets, send a SASE with a request for a maximum of four tickets to: Galaxy Brass Tickets, Air Force Recruiting Office, 117 Broadway, Bangor, ME 04401.

## 26 Saturday

**Organizational Fair on the Mall**, part of Family and Friends Weekend, 9 a.m.-1 p.m., Sept. 26.

**Open House at Roger Clapp Greenhouse**, part of Family and Friends Weekend, 9 a.m.-4 p.m., Sept. 26.

**University Bookstore's 4th Annual Maine Fashion Show on the Mall**, part of Family and Friends Weekend, 11 a.m., Sept. 26.

**Men's Soccer: Maine vs. Boston University**, noon, Sept. 26.

**Football: Maine vs. Dartmouth**, 3 p.m., Sept. 26. Admission fee.

**Faculty Chamber Music Concert**, by Anatole Wieck, part of the School of Performing Arts season, 7:30 p.m., Sept. 26, Minsky Recital Hall. Admission fee. x1755.

**The Ronny Romm ESP and Hypnosis Show**, part of Family and Friends Weekend, 8 p.m., Sept. 26, Wells Conference Center. Admission fee. x1735.

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 x3745.

## 27 Sunday

**Kids 1K Fun Run**, organized by the Black Bear Club, part of Family and Friends Weekend, 11:30 a.m., Sept. 27, Alford Stadium. Entry fee. x1130.

**UMaine Student-Athletes 5K Run and Walk**, organized by the Black Bear Club, part of Family and Friends Weekend, noon, Sept. 27, Alford Stadium. Entry fee. x1130.

**Women's Soccer: Maine vs. Fordham University**, noon, Sept. 27.

**Susan Heath and Patricia Stowell Faculty Recital**, part of the School of Performing Arts season, 2 p.m., Sept. 27, Minsky Recital Hall. Admission fee. x1755.

## 29 Tuesday

**President Hoff's Open Office Hour**, 10 a.m., Sept. 29, Alumni Hall.

**"Different Points of View with a Single Point of Focus: Collaboration, Accountability and Cooperation by the Local Domestic Abuse Task Force,"** with Chris Almy, district attorney, Penobscot/Piscataquis Counties; Kathy Maietta, Batterers' Intervention Program, Acadia Hospital; Dr. Eric Brown, EMMC Family Practice Residency Program; Francine Stark, Spruce Run community response coordinator; Bangor Police Chief Don Winslow; and Jeff Wahlstrom, director of United Way of Eastern Maine, part of the Women in the Curriculum Luncheon Series, 12:15 p.m., Sept. 29, Bangor Lounge, Union. x1228.

## 30 Wednesday

**Organizational Meeting of the Central Maine Chapter of the Maine Software Developers Association**, 8 a.m.-1:30 p.m., Sept. 30, Wells Conference Center. Registration. x1479.

**"Test Taking,"** a Study Skills Program, 3:15 p.m., Sept. 30, Sutton Lounge, Union. x1734.

## 1 Thursday

**Higher Education and the Emerging Demands of the Modern Workplace**, a two-part program offered by the Department of Economics, featuring "Education for What?" - a lecture and panel presentation with Anthony

Carnevale, vice president, Educational Testing Service, Roxanne Bradshaw of CMP, Ann Houser of UNUM, Margaret Orth of L.L.Bean, and Jack Quirk of Blue Cross/Blue Shield of Maine, 11 a.m.-12:15 p.m., Hauck Auditorium, Oct. 1; and "Higher Education and the 21st Century Workplace" - a facilitated panel discussion with the speakers and higher education representatives including John Alexander, Chet Rock, Sandra Gardner, Howard Segal and Jennifer Nelson, 2:10-3:25 p.m., Oct. 1, Hauck Auditorium and 101 Neville Hall. x1855.

**Application for December 1998 Graduation Due**, Office of Student Records, 100 Wingate Hall, 4:30 p.m., Oct. 1.

**End of First-Third of Semester for Withdrawals**, 4:30 p.m., Oct. 1.

## Ongoing Events

### Campuswide Events

**Family & Friends Weekend**, Sept. 25-27.

**Rape and Sexual Assault Awareness Week**, Sept. 28-Oct. 2. x1405.

**Homecoming**, Oct. 16-18.

### Conferences/Seminars/Workshops

**How to Find Internships**, Job Search Workshops offered by the Career Center, 2:10 p.m., Sept. 24 and Oct. 2, Career Center Lab, Chadbourne Hall. Sign-up in Career Center. x1359.

**"Climate and Culture at 3,000 B.C.,"** Oct. 7-11.

### Entertainment

**"Our Place in Space,"** a Planetarium show, part of Family and Friends Weekend, 7 p.m., Sept. 25; 3 p.m. and 7 p.m., Sept. 26, Wingate Hall. Admission fee. x1341.

**The Crackwalker**, directed by Sandra Hardy, part of the Maine Masque season, 7:30 p.m., Oct. 22-24; high school performance, noon, Oct. 21; 2 p.m., Oct. 25, Hauck Auditorium. Admission fee. x1755.

### Exhibits/Demonstrations/Tours

**Department of Art Faculty Exhibition**, a Museum of Art exhibition, through Sept. 26, Carnegie Hall. x3255.

**Maine Crafts Association: Annual Juried Competition**, a Museum of Art exhibition, Oct. 2-Nov. 21, Carnegie Hall. x3255.

**Working Traditions: Century-Old Craftsmanship in Maine**, a photodocumentary by Cornelia Cannon Holden, through Oct. 18, Hudson Museum, Maine Center for the Arts. x1901.

**Woodland Tribes of the Northeast: Jud Hartmann Bronzes**, a Hudson Museum exhibit, through May 16, Maine Center for the Arts. x1901.

**University of Maine Museum of Art** open Monday-Saturday, 9 a.m.-4:30 p.m. x3255.

**Page Farm and Home Museum** open daily, 9 a.m.-4 p.m. x4100.

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

### Meetings of Groups/Organizations

**Newman Center**, 10 a.m. and 6:15 p.m. Sundays, and 4:45 p.m. Tuesdays and Wednesdays, beginning Sept. 13, 83 College Ave. 866-2155.

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

**Maine Peace Action Committee** meets every Wednesday, 4 p.m., Maples. x3860.

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

### Special Notices

**Farm Store**, 10 a.m.-6 p.m., Monday-Friday, through the end of September.

**Farmers' Market**, 8 a.m.-1 p.m., every Saturday; 2:53-3 p.m., every Tuesday, Steam Plant Parking Lot.

**APO Blood Drive**, Sept. 21-22, Bangor Lounge and Lown Room, Union.

**Antiques, Collectibles and Crafts Show and Sale**, part of Family and Friends Weekend, 10 a.m.-5 p.m., Sept. 26; 10 a.m.-4 p.m., Sept. 27. Admission fee.

**Public Swimming**, part of Family and Friends Weekend, 10:30 a.m.-noon, Sept. 26; 2:30-5 p.m., Sept. 26-27, Wallace Pool. Admission fee.

**Public Skating**, part of Family and Friends Weekend, 2-3:30 p.m., Sept. 26-27, Alford Sports Arena. Admission fee.

**Living History Days**, Leonard's Mills, Bradley, Oct. 3-4.

## 2 Friday

**Nancy Ogle Faculty Recital**, part of the School of Performing Arts season, 7:30 p.m., Oct. 2, Minsky Recital Hall. Admission fee. x1755.

## 3 Saturday

**"How Does a Bear Move?"** a Hudson Museum Move for Kids Program, 10 a.m., Oct. 3, Maine Center for the Arts. Preregistration. Fee. x1901.

**Football: Maine vs. Villanova**, 1 p.m., Oct. 3. Admission fee. xBEAR.

## 4 Sunday

**Field Hockey: Maine vs. New Hampshire**, 11 a.m., Oct. 4. xBEAR.

## 6 Tuesday

**"Abrupt Climate Change and the Collapse of West Asian Civilizations,"** by Harvey Weiss, professor, Department of Near Eastern Languages and Literature, Yale University, offered by the Hudson Museum and the international Foundation for the Exploration and Research on Cultural Origins, 3:30 p.m., Oct. 6, Maine Center for the Arts. x1901.

**Performance by the National Acrobats of China**, part of the Maine Center for the Arts performance season, 7 p.m., Oct. 6, Hutchins Concert Hall. Admission fee. x1755.



# Center Stage

## School of Performing Arts



Anatole Wieck

### Chamber Music Concert by Anatole Wieck and Friends

Music from the Baroque age to the computer age will be featured Saturday, Sept. 26 at 7:30 p.m., when Anatole Wieck, a member of the School of Performing Arts music faculty, Boston's Ad Libitum Ensemble and guest Keith Crook, also a member of the music faculty, present the Faculty Chamber Music Concert in the Minsky Music Recital Hall.

While music from the court of Catherine the Great of Russia is on the program, so, too, is the premiere of contemporary work *Hornpipe Dream*, for violin and audio tape, composed by Beth Wiemann, School of Performing Arts music faculty member. Also on the program are performances by Wieck and Crook as they join company for Latin American works for violin and guitar.

Members of the Ad Libitum Ensemble are Marine Minkin, performing on the harpsichord; Angus Lancing, the viola da gamba; and Wieck, the Baroque violin and viola d'amore.

Wieck performs widely in North America and Europe as a soloist and chamber musician. He is on the roster of the Maine Touring Artists Program and is assistant concertmaster for the Bangor Symphony Orchestra.

### Flutist Susan Heath and Pianist Patricia Stowell in Recital

Flutist Susan Heath of the School of Performing Arts and pianist Patricia Stowell, guest artist, present a recital featuring works by Haydn, Martinu, Debussy, and Schubert on Sunday, Sept. 27 at 2 p.m., in the Minsky Recital Hall.

The program includes: Haydn's *Twelve Pieces for the Musical Clock*; Bohuslav Martinu's *First Sonata for Flute and Piano*; Debussy's *L'Isle joyeuse*; and Franz Schubert's *Introduktion und Variationen*. Composer Claude Monteux's composition *Seagulls at the Dump* also will be performed. Joining Heath and Stowell for the Monteux work are guest flutists Joan Curtis and Karen Hawthorne.

Heath has performed throughout the United States and Europe, and is principal flutist for the Bangor Symphony Orchestra. She is a member of the Howlin' Winds flute choir, which specializes in playing music by Maine composers and works composed especially for the group.

Stowell is a chamber musician and solo recitalist. She has performed in the Midwest and New England, as well as in Austria, Germany, Poland, Bulgaria and Moscow, where she presented her dissertation on Scriabin and Russian Symbolism. Stowell is a member of the Board of Directors for the Bangor Symphony Orchestra and the Maine Center for the Arts.



Patricia Stowell and Susan Heath

### An Evening of Gerard Manley Hopkins

Poems by English mystic poet, ecologist and priest Gerard Manley Hopkins (1844-1889), set to music by contemporary American composers, will be featured in a unique faculty recital offered by soprano Nancy Ogle, a member of the School of Performing Arts music faculty.

Ogle will be joined by Maine poet John Burns as narrator and pianist Ginger Yang Hwalek in the recital at 7:30 p.m., Friday, Oct. 2 in the Minsky Music Recital Hall.

The idea for the recital grew out of Ogle's conversations with participants in the Gerard Manley Hopkins Summer School in Ireland. Those participants include composer MaryAnn Joyce Walter, with whom Ogle has collaborated on several musical projects in the past five years.

Among the other composers who have set Hopkins' much-loved poems to music, and whose works will be featured in the recital, are Kile Smith, Ronald Ray Williams, Arthur Campbell, Joyce Suskind, Donald Betts, Don Hagar, Samuel Barber and Robert Greenlee.

This summer, Ogle taped some of Hopkins' early songs for use by Walter when she presented a paper on the poet in Ireland.

For the upcoming UMaine recital, the latest collaborative project between the two women, Walter will be in the audience, and is expected to lecture in a Women Composers class.

"An Evening of Gerard Manley Hopkins" will be one of the performances in a series that Ogle will present later in October at Macalester College in St. Paul. She also has been invited to perform the recital at the Gerard Manley Hopkins Summer School in Ireland.



Nancy Ogle

## Look Who's On Campus

**DAVID KERTZER**, the Paul Dupee Jr. University Professor of Social Science and professor of anthropology and history at Brown University, will speak at 3:30 p.m., Wednesday, Sept. 23, 100 Neville Hall on "Jewish Emancipation, the Church and the Unification of Italy: The Kidnapping of Edgardo Mortara." Kertzer's primary fields of specialization include social organization, politics and culture, anthropological demography, and anthropology of religion. His books have twice been awarded the Marraro Prize from the Society for Italian Historical Studies for being "the best work on Italian history." Kertzer was a National Book Award Finalist for *The Kidnapping of Edgardo Mortara*, the story of the 1858 kidnapping of the 6-year-old son of a Jewish merchant by Italian police under orders from the papal inquisitor. The anti-Semitic act sparked public outcry and led to the downfall of papal power in Italy.

**ANTHONY CARNEVALE**, an internationally recognized authority on education, training and employment, will keynote the Thursday, Oct. 1 conference, "Education for What? Higher Education and the 21st Century Workplace." Carnevale will speak at 11 a.m. in Hauck Auditorium on "Education for What?" Carnevale is vice president for public leadership at Educational Testing Service, a world leader in the development and delivery of instruments for assessing individual competencies, and tools for career guidance and planning. Carnevale was appointed chair of the National Commission on Employment Policy by President Clinton in 1993. He also serves on numerous boards, including The Kellogg Commission on Lifelong Learning. Carnevale's books include *The American Mosaic: An In-Depth Report on the Future of Diversity at Work*.

## People in Perspective

For the past eight years, Ellen Manzo has been at home in an educational environment.

She has worked with some of the University of Maine's award-winning educators, and supported the academic efforts of undergraduate and graduate civil and environmental engineering students.

As a part-time student in university studies, Manzo has pursued her interests as a lifelong learner. And as an active member of the University community, she has been involved in activities to raise the visibility of, and to advocate for, leadership among classified employees.

"The educational environment is enriching," says Manzo. "Whether it's attending evening events, taking classes or meeting people in the teaching community, a lot is added to my life."

Now Manzo is in a position to serve as even more of a resource and advocate for education – her own and that of thousands of women in the University community. Last March, Manzo joined the Women's Resource Center. In the part-time position, she will work with Center Director Sharon Barker and the many women at UMaine whose initiatives as students or employees are supported by the Center. She also will put her own education on a faster track, and looks forward to receiving a bachelor's degree in university studies at the same time her youngest daughter graduates from Oberlin College in four years.

"I love working in education," says Manzo. "As a student, I appreciate where other students are coming from. I enjoy being in a position of supporting them and finding solutions for obstacles they come up against. At a university like this, there always is someone here to help them find answers or to point them in the right direction."

"I always have been supported to continue my education but now in this environment, I am encouraged."

The Millinocket native worked for a bank and a law firm, and was a parent volunteer in a school library before joining the University community in 1990. Manzo's part-time secretarial position in the Department of Civil and Environmental Engineering evolved into a full-time administrative assistant job in her eight years in Boardman Hall.

"In civil engineering, I loved working with the students," she says. "I also worked with some of the great educators of the University – educators who also have a lot of heart, who really care and have good common sense in their approach to education."

Manzo notes that a major benefit of joining the Women's Resource Center is the opportunity to work with Barker, who last year received a National Education Association Mary



Ellen Manzo

Photo by Mike Mardosa

Hatwood Futrell Award for work in civil rights.

"She is such an advocate for people without a voice," says Manzo. "She is a catalyst for connecting people, almost on a daily basis."

The Women's Resource Center was established to promote and maintain an inclusive, positive and supportive climate conducive to women's personal and professional development at the University of Maine. The Center serves as a resource for both individuals and organizations, offering information, referrals, advocacy and collaboration.

Manzo first learned about the Women's Resource Center through its efforts to facilitate the establishment of the Classified Employees Advisory Council in 1996. As an administrative assistant in the Center, Manzo will now work with students involved in such initiatives as United Sisters and the Beautiful Project. The annual Expanding Your Horizons program for middle school girls is one of several programs the Center supports. Expanding Your Horizons is designed to promote gender equity by exposing girls to non-traditional fields and giving them skills that enhance their own self-esteem while fostering cooperation and collaboration.

WRC offers opportunities for women to meet and work with women who share their values and vision of a more just and equitable society. The WRC expects to expand its mentoring program with student staff supported by the Division of Lifelong Learning and the Office of Student Employment, including strengthening the connections with women in engineering and other non-traditional fields.

Resources like the Women's Resource Center and a comprehensive academic community make UMaine a unique and distinct place in the state, says Manzo. "Anyone can come here and get a good education. It's here," she says.

## Gallery Glimpses

### **Frogs and Bears Just for Kids**

The Hudson Museum Just For Kids program, an educational series that has been on campus for almost 10 years, this year incorporates an animal theme to teach youngsters about other cultures.

Sept. 19, the museum celebrates frogs. In "For the Love of Frogs," children in grades K-4 will learn about the amphibians from the stories and art of Native Americans.

Oct. 3, the topic is "How Does a Bear Move?" Ann Ross, the theatre/dance coordinator in the School of Performing Arts, will present a movement improvisation workshop on animal movement. Children in grades 1-6 will learn about the importance of animals to the Northwest Coast Native American culture, dance and ritual.

All Just for Kids programs begin at 10 a.m. in the museum. Pre-registration is required. Program fees are \$3 per child.

## Maine Journalism Hall of Fame Established

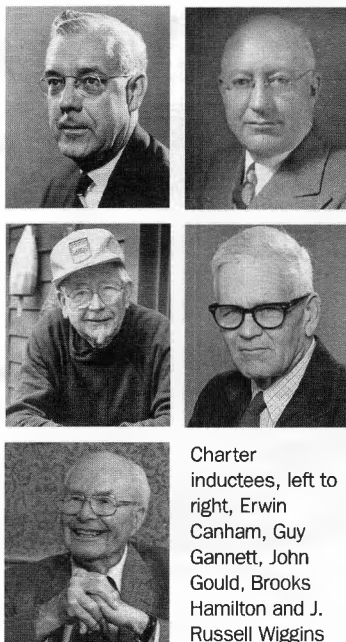
Five Maine journalists are the charter inductees into the Maine Press Association's Hall of Fame, to be housed in the Department of Communication and Journalism at the University of Maine. Photographs and biographies of those receiving the honor will be displayed on the fourth floor of Dunn Hall, where the department is located.

"The Maine Press Association is honoring the University by displaying the Hall of Fame in our department," says Kathryn Olmstead, associate professor of journalism. "I think it will make students feel as though they're a part of something larger, and broaden their horizons and aspirations by presenting role models."

Membership in the Hall of Fame honors those journalists with Maine connections who have made career contributions to their craft, in state or out. The five charter members were inducted Sept. 11 at the MPA's Fall Conference in Portland.

The University of Maine's journalism program has been the official home of the Maine Press Association since 1965. The Press Association's archives are housed at UMaine.

*continued on page 19*



Charter inductees, left to right, Erwin Canham, Guy Gannett, John Gould, Brooks Hamilton and J. Russell Wiggins

## Maine Center for the Arts Sporting a New Box Office

The Maine Center for the Arts opened its 12th season this fall sporting a remodeled box office and a state-of-the-art computerized ticket system.

The new system, which uses Pentium digital computers, Boca printers and ArtSoft software, is the most sophisticated ticket management unit north of Boston. The ticket system, similar to the one now in operation at the Kennedy Center in Washington, D.C., replaces the MCA's outdated mainframe and obsolete IBM system of computers that were 20 years old – purchased used when the state's premiere arts facility opened its doors in 1986.

"This wasn't a year 2000 complaint," says MCA Box Office Manager Mary Addison. "The old system was overloaded and under-powered. We outgrew it."

"The new system allows the box office to offer quick service that people are used to, and it makes us competitive with other modern facilities," Addison says.

Upgrading the box office has been a high priority for the Maine Center for the Arts for the past two years. Purchase of the new computerized ticket operation, and remodeling of the box office, were ultimately made possible by private monies raised by MCA Friends, the annual giving committee formed last year. A naming gift for the box office is now being sought.

The box office upgrade is part of ongoing improvements at the

*continued on page 13*

## Multicultural Institute Offers Important Perspectives

Greater diversity in the curriculum was the focus of a seven-week faculty institute this summer that brought to campus five women scholars widely recognized for their work to broaden multiculturalism in higher education classrooms.

The Multicultural Women's Studies Institute was designed to enable UMaine's faculty to include more multicultural perspectives in women's studies and departmental courses. Core participants were 14 faculty members who are teaching or developing women's studies courses, or teaching departmental electives.

Reflections on the institute will be the subject of a Women in the Curriculum and Women's Studies Luncheon Series

program on Tuesday, Sept. 22 called "Works in Progress." Four of the core faculty participating in the Institute will share their thoughts.

In an additional effort to share more broadly the larger lessons of the Institute, *Maine Perspective* asked the faculty to offer perspectives and ideas that they learned from participating in the Institute that would be of benefit for other members of the University community to consider. Institute faculty were asked to respond to two questions:

*At the conclusion of the Institute, what was the single most important message you walked away with?*

*As a result of your experiences in the Institute, and in teaching about multicultural women's studies topics, what is important for other members of the University community to know, consider or understand about the subject?*

Responses from some of the Institute core faculty follow:

### Sandy Butler – Social Work

Whatever efforts I had already made toward including multicultural content into my classes needed to be nurtured and augmented. Given the predominantly white racial makeup of our student body, staff and faculty, we are not pushed as hard to incorporate multicultural perspectives in our pedagogy as we might be on a more diverse campus. Hearing the expert scholars who have devoted so much of their lives and careers to making sure that their courses included much more than the white European perspective served as a jolt out of complacency. For our graduating students to be successful in this ever more international world, they will need to be prepared to live and work in environments often far more diverse than those in which they've grown up.

### Peg Cruikshank – Women's Studies

From the Institute, my main reaction now, some weeks later, is what a modest beginning it was, how far we have to go, how much is to be known that our educations left out. Students in my class felt excitement and exhilaration when confronted with really new material – things that they had never thought of before – and the emotional charge of the challenges to white domination. If you do this work, you feel intense dissatisfaction with the usual mainstream curriculum which is shot through with assumptions and biases that whites are usually oblivious to. As a result of the Institute, I have revised my intro to women's studies to include even more work by women of color.

*continued on page 13*



# Shaping Maine's Future Through Public Administration

A new study of the need to balance potential development and preservation of rural character in a Maine community is helping people in Newburgh draw up a land use plan for the town.

The study, "Preserving Rural Character," was completed last spring by Newburgh's then Director of Planning and UMaine graduate student Michael Crooker.

The Newburgh native got involved in helping plan the future of his hometown as a student in the University of Maine's Master of Public Administration (MPA) program. A class assignment for a City and Regional Planning course sent Crooker to his first

Newburgh planning board meeting in fall 1995. He was asked to join the planning board that spring.

In the last academic year, his survey of 200 property owners in the town – a third of its citizens – was one of several research projects conducted by students in the MPA's Methods of Analysis in Public Administration and Public Policy course. Students in the course include mid-career professionals in state and local government, and Maine's nonprofit agencies.

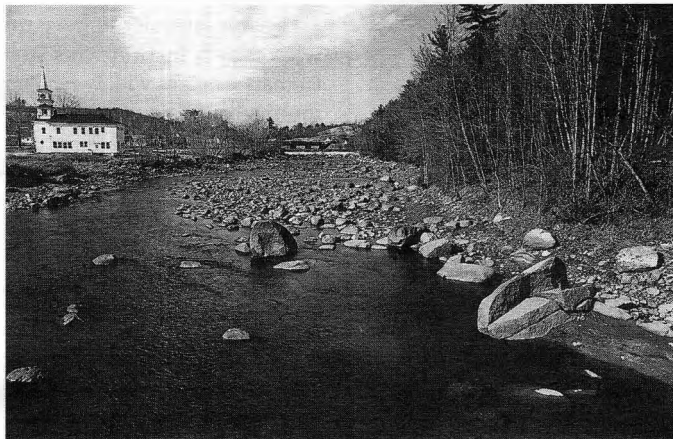
"One of the greatest things about the MPA program is we see people putting information from the class to work in the workplace," says Ken Nichols, assistant professor of public administration who teaches the two-semester course. "It provides them with greater insight into the organizational world. The students are learning and discovering, and like the frosting on the cake, service results. The effect is the value provided to Maine."

Crooker surveyed area property owners about their views concerning urban development and the importance of preserving rural character. The goal was to provide town officials with information about what property owners think about development in Newburgh. A central issue is whether ordinances can be developed that encourage development yet preserve what townspeople identify as the rural characteristics they cherish – such aspects as fields, farms, forests, wetlands and historic sites.

Of the more than 100 Newburgh residents who responded, 85 percent said they want rural character preserved. The biggest surprise, says Crooker, was the virtual equal split between those willing and unwilling to compromise land rights with ordinances to preserve rural character.

"We didn't think anyone would support a compromise restricting rights of landowners to do what they want on their property," says Crooker. "As a result, we're already beginning to look at what ordinances are on the books and how they compare to what we found in the survey."

"One of the reasons I did the study was to help people. It's nice to come back with what I learn in college and apply it to my own community," says Crooker, who received a bachelor's degree in political science from UMaine in 1994 and the next year enrolled in the MPA program. Following an internship this summer in Bradley to complete his MPA, he was named town manager there.



A study of the need to balance potential development and preservation of rural character in a Maine community was one of several research projects conducted by students in a Master of Public Administration course last year.

*Photo by Michael Mardosa*

UMaine's Public Management Program, established in 1945, is the oldest in the nation.

Coursework in public administration involves such areas as finance, personnel, public policy, local government and law enforcement. It focuses on preparing students to become better participants in a democratic society, and prepares them for careers in public service, and further study and education.

The MPA program and the undergraduate program in public management help provide professional managers at all levels for state agencies – from nonprofit agencies to town and state government in Maine.

University graduates of the MPA program are found in such jobs

as town manager, legislative aide and harbor master.

The MPA's Methods of Analysis in Public Administration and Public Policy course is taught both on the Orono campus and at the Pine Tree State Arboretum in Augusta. In the courses, students learn how to use and do research, and how to recognize good research in the workplace.

"Studies are often considered nice to have and even important, but may not be considered worth funding," says Nichols, who joined the UMaine faculty two years ago after a 28-year career with the Internal Revenue Service. "Often people in town and state governments make decisions based only on the best information at hand, or enough information available with the existing time and resources. With the skills from this course, we're hoping they will increasingly use research as a tool. People don't do a plethora of studies as a result of this course, but when they do research, it is with better knowledge and experience."

The small-scale research projects on limited budgets often have larger implications. Shawn Kline, who graduated last December from the MPA program, did a study exploring the factors that encourage international businesses with locations in Maine to expand and remain in the state rather than being lured away. Kline's study in regional economic development produced significant findings for Maine and other rural states grappling with economic development efforts to attract and retain industry.

The student projects last spring also included:

▼ "Workload Trends of the Maine Legislature," a study that looked at the workload changes in the past 50 years and questioned to what extent the working environment caused or contributed to such change.

▼ "Health Assessment of Women in Maine," a study that determined that women want more information about health, better relationships with providers and more attention for teen women.

▼ "Maine Educational Assessment Performance and Property Taxes," a study that found a correlation between MEA performance and a community's ability to raise property tax revenues to support education.

▼ "Town Meetings Versus Town Referenda: A Study of Voter Turnout in Maine," a study that showed that voter participation increases when a municipality changes its form of government. ▲

## News at a Glance

### NEW GROUP FORMS FOR MOTHERS OF GIRLS

The Women's Resource Center is coordinating a forum for mothers of girls. The goal is for women to come together, support each other, discuss issues relevant to girls' development, and share strategies for fostering healthy development in their daughters.

Girls need help and support to move against the tide of negative, limiting messages and stereotypes (be nice, be kind, cooperate, keep your thoughts to yourself especially if expressing them will hurt someone else, don't show your anger, be passive and submissive, don't appear smarter than boys in class, and be sexy but not too sexy). Girls need people to encourage them to speak their truths, to listen when they do, and to value their insights and contributions.

Mothers have a vital, yet challenging, role in meeting these needs for girls. How can a mother help her daughter discard negative messages and replace them with life-enhancing ones? How can a mother help her daughter confront limiting stereotypes and barriers, or help her daughter hold on to her true self?

The new group, Mothers of Girls, will provide women a place to dialogue about these complex questions. The first meeting will be Thursday, Sept. 24, 4-5 p.m., Totman Lounge, Union. Women who are faculty, staff or students at the University and are parenting a daughter are invited to attend. The first meeting will be devoted to how this group can best support women in their role as mothers of girls.

If you are unable to attend the first meeting but wish to join the group or would like more information, contact Mary Madden at the Women's Resource Center, 581-1508, or via FirstClass.

### FOLKLIFE CENTER COLLECTS ICE STORM RECOLLECTIONS

During the Maine Festival in Brunswick last month, the Maine Folklife Center interviewed fairgoers about their memories of the ice storm for use in an ongoing oral history project, "The Survival of Ice Storm '98: Individual Stories."

The ice storm interviews were part of a comprehensive display that examined Maine's folklife and the center's work in collecting and preserving the cultural heritage of the state. The same exhibit will be featured at the Common Ground Fair in Unity the weekend of Sept. 25.

"People out there really had stories to tell," says Sandy Ives, director of the Maine Folklife Center. "We heard stories about people ice skating in their driveways and others who went 14 days without power."

Ives says he and others from the center interviewed 36 fairgoers ages 10 to 70. The information, as well as that gathered at the Common Ground Fair, will be archived at the center.

"If someone wants to write about the storm or just listen to some of the stories, they'd be able to use this material," says Ives. "It's there as a resource and a history of the event."

### CLASS BOOK RESOURCES COMPILED ON THE WEB

A new resource for this year's class book is now available. Mel Johnson, reference librarian in the Fogler Library, has put together a website that provides on-line resources for *Lies My Teacher Told Me*. The site contains reviews of the book, articles about its author, James Loewen, and some case studies on specific themes in the book. The website is: <http://vega.ursus.maine.edu/johnsonm/eng101.htm>.

### UMAINE LAUDED FOR MASTERS CHAMPIONSHIPS

More than a month after 3,300 people from 48 states and 10 countries converged on the University of Maine for the 1998 USA Track & Field National Masters Championships, the event is still making headlines.

*National Masters News*, the official world and U.S. publication for Masters track and field, long distance running and race-walking, with a worldwide readership of 8,000, devoted most of its recent 44-page monthly issue to championship coverage. The lead story, complete with color photos, declares the games in Orono to be "the best ever." Numerous columnists referred to the outstanding site of this year's event, including Ken Weinbel, chair of Masters Track and Field, who noted that "the Maine Association, Meet director Rolland Ranson, his assistants, officials and volunteers worked in harmony to provide all in attendance with a memorable experience."

Highlights of the championships, July 30-Aug. 2 at the Clarence Beckett Track and Field Complex, include:

- ▼ Twenty-eight Olympic officials came to officiate – the largest gathering of Olympic officials since the 1996 Olympic games.

- ▼ This was the first time in the U.S. that automatic computerized timing was used for racewalks.

- ▼ Forty-one American Masters records, nine World Masters records and one Open American record were set, with the University facility now being the home of the records.

- ▼ UMaine international students served as interpreters for Russian and Mexican athletes competing in the event.

- ▼ The traditional estimate of \$1.5 million in economic impact to areas hosting the championships is expected to be much greater here.

### UMAINE WOMEN STUDENTS SEE THEMSELVES IN THE LOOP

*The Loop*, the first-ever UMaine's women's handbook, has been developed by the Student Women's Association (SWA) to welcome the University's incoming female students.

The guide for women, by women, focuses on "surviving and thriving at the University of Maine" and raises awareness of the resources available in the campus community.

The 31-page handbook has seven sections on topics ranging from student organizations for women to recommended readings and websites. In each section are personal stories written by students about their experiences at UMaine.

"We wanted *The Loop* to have the feel of one woman relating information to another – the way friends do," says SWA President Willow Wetherall. "We hope that women get a sense of community from this handbook and are able to make better use of the resources available to them."

The handbook was given to incoming female students during fall orientation. Other copies will be sent to a cross-section of UMaine women students, and made available in the library and Memorial Union. In November, it will be available on the Internet.

## Oral Exams

"Perceptions of Forest Ecosystems Attributes and Economic Values for Small, Private Woodlots in Maine," by Genevieve Pullis, candidate for master's degree in resource utilization, 2 p.m., Sept. 21, Winslow Hall.

"Paleoecology of Coastal and Interior *Picea* (Spruce) Stands in Maine," by Molly Schaffer, candidate for Ph.D. in plant science, 9 a.m., Sept. 22, 206 Rogers Hall.

# The Last Great A

*Editor's Note: On Tuesday, Nov. 3, people in Maine will be asked to vote on a bond issue question: "Do you favor a \$20,000,000 bond issue to improve the Maine economy by supporting innovative research and development of businesses and nonprofit and educational institutions in the fields of biotechnology, computers and other information technology, aquaculture and marine technology, forestry and agriculture, and advanced materials?"*

*Passage of the bond issue will earmark \$13.5 million for the University of Maine System for capital improvements and equipment purchases to support research and development in marine biotechnology, software engineering and development, advanced technologies for forestry and agriculture, biotechnology, and advanced materials engineering and development.*

*In a five-part series, Public Affairs Science Writer Nick Houtman looks at the areas of research and development that would be affected by the bond issue. The series continues with a look at advanced technologies. The practical benefits of research in this field are demonstrated in UMaine's sensor research (detailed in a story on page 1) and the following environmental monitoring project.*

On a steep mountainside in eastern Maine, a research project that has been called the "last great acid rain experiment" has turned a decade old. It has confirmed theories of ecosystem response to acidification and documented benefits of the Clean Air Act of 1990, but for soil scientists and foresters, it has taken a puzzling turn. Now the forest products industry and public interest groups are being invited to consider what the emerging picture means for the future of forested ecosystems.

The study is known as the Bear Brook Watershed Manipulation Project. It is located high on Lead Mountain in Hancock County on Champion Paper Co., land. Visible from the wind-blown, spruce-topped summit are the granite slopes of Acadia National Park and the blue expanse of the Gulf of Maine.

In 1987, with funding from the U.S. Environmental Protection Agency, the U.S. Geological Survey in Augusta built concrete weirs for the University at the outlets of two side-by-side 27-acre watersheds. UMaine scientists and their students then began measuring water flows and collecting data on soils and vegetation. In 1990, they began a bi-monthly treatment of the western

watershed using ammonium sulfate fertilizer applied by helicopter, which continues today. The eastern watershed was left untreated as a natural control.

"Bear Brook was designed to be a demonstration project for the U.S. Environmental Protection Agency," says Stephen Norton, chair of the UMaine Department of Geological Sciences and an author of the original Bear Brook proposal. "In 1987, scientists understood the process of acidification. We also knew that acidification was killing fish through mobilizing aluminum, but the policymakers needed geochemical data to support their case for changes in environmental management."

According to Ivan Fernandez, UMaine soil scientist and chair of the Department of Plant, Soil and Environmental Sciences, the project is unique because it is in forest, climate and soil types, "which are at one end of the conditions you find in the eastern U.S. This forested stream catchment is a powerful tool to look at ecosystem processes, as opposed to doing plot work in which you sample a stream, a tree or a spot in the soil," he says.

The result is a continuous record of water chemistry and additional data on soils and vegetation going back 11 years. Bear Brook is among a handful of long-term paired watershed research sites in the U.S.

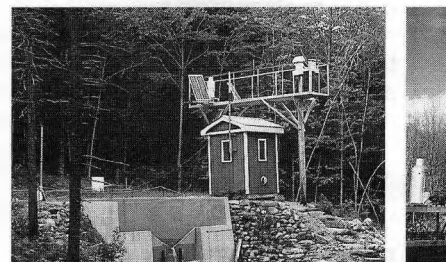
## Results

Among the major findings to date:

▼ Sulfate, a significant constituent of acid deposition, moves through the system quickly, and reductions associated with Clean Air Act regulations have already been observed. However, sulfate leaves a legacy in soil chemistry. Hydrogen ions given up by sulfate molecules strip base cations such as calcium and magnesium from the soil organic layer. Those cations tend to adsorb onto particles in the mineral layer.

▼ Although sulfate levels have dropped, acidification of both watersheds appears to be continuing for reasons that are not well understood. Bear Brook soils are naturally acidic, but if accelerated cation stripping from the soil organic layer continues, forest productivity could be affected.

▼ Most of the added nitrogen, about 80 percent, according to Fernandez, appears to remain in the system today. Increasing nitrogen concentrations have been documented in ground dwelling mosses and foliar tissues, but the long-term impacts to the rate of tree growth, regeneration and species composition are unclear.

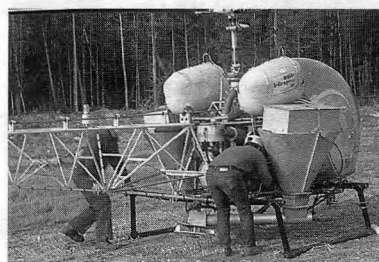


Photos top and center, precipitation collectors, soil Bear Brook collect samples and transmit data to a Photo left, one of the stream monitoring gauges for the satellite transmission equipment for real-time Deposition Program precipitation collector is located Research Institute staff prepare the helicopter for Brook.

▼ The watershed appears to be a sink for inorganic mercury, which receives inputs from atmospheric deposition. According to Terry Haines, UMaine professor of zoology, less mercury is leaving the watershed in stream flow than is deposited from the air. Methylation processes, which transform inorganic mercury into more biologically available forms, do not appear to occur at a significant rate at Bear Brook.

The biggest question mark, says Steve Kahl, director of the UMaine Water Research Institute, is nitrogen. During the early 1990s, water chemistry data showed steadily increasing amount of nitrate leaching into the surface water. Researchers thought they were seeing early signs of nitrogen saturation, a process also observed in the Adirondacks of New York and other

# Great Acid Rain E



Photos top and center, precipitation collectors, solar panels and radio equipment near the top of the watershed at Bear Brook collect samples and transmit data to a base station for downloading to the Water Research Institute. Photo left, one of the stream monitoring gauges for streamflow at Bear Brook, including the structure that houses the satellite transmission equipment for real-time data access on the World Wide Web. A National Atmospheric Deposition Program precipitation collector is located on the platform above the house. Photo right, Water Research Institute staff prepare the helicopter for experimental treatment of one of the small watersheds at Bear Brook.

*Photos by Steve Kahl and Lindsey Rustad*

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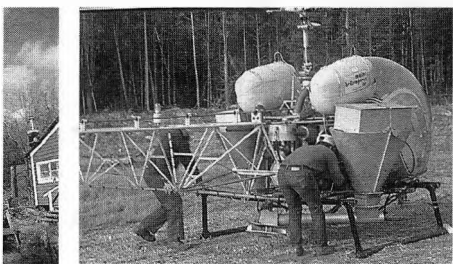
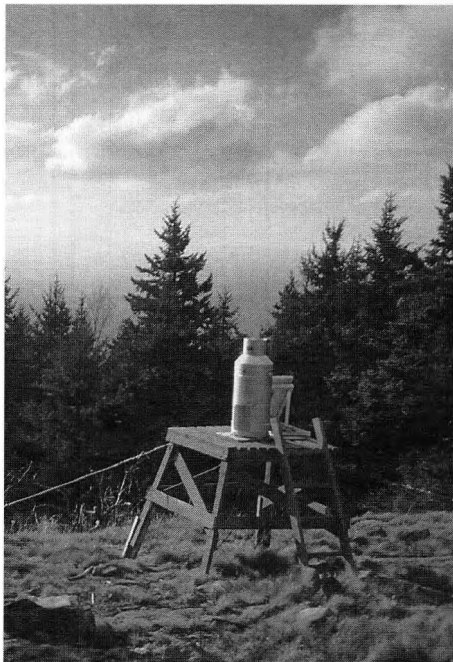
Today, although the Adirondacks are still showing signs of nitrogen saturation, dissolved nitrate levels at Bear Brook have returned to pre-treatment levels. The same drop has been seen at other monitoring sites across New England.

"Because we labeled nitrogen in our treatment with an isotope, N15," says Fernandez, "we know that the nitrogen we saw coming out in surface water was not the same nitrogen we were adding in the treatment. We had primed some sort of an internal mechanism to accelerate the export of nitrogen as nitrate."

"The take-home message is that nitrogen is still being absorbed by those ecosystems. They are nitrogen deficient. We don't have a nitrogen saturated landscape in Maine."



# d Rain Experiment



Radio equipment near the top of the watershed at Bear Brook for downloading to the Water Research Institute. The structure at Bear Brook, including the structure that houses the National Atmospheric Deposition Program, is visible in the background. Photo right, Water treatment of one of the small watersheds at Bear Brook.

Photos by Steve Kahl and Lindsey Rustad

## Predicting Nitrogen

Attempts to model nitrogen as it moves through the Bear Brook system have yet to yield results that are consistent with observations, notes Kahl. And therein lies a challenge for researchers, as well as the forest products industry: understanding the nitrogen cycle at Bear Brook well enough to predict changes in forest ecosystem processes and water quality.

"Nitrogen is probably the most important chemical factor that will influence the release of carbon," notes Fernandez. "The carbon-to-nitrogen ratio is the property of the soil that determines how fast litter decomposes. We know that increasing the nitrogen in a watershed changes litter quality and may change litter production, the amount of organic matter fixed by the trees. What we don't know is, do we fix more and quality goes down, even though we're adding nitrogen? Or do we fix more and quality goes up because we're adding nitrogen?"

To answer the nitrogen question, scientists and graduate students are continuing to treat the watershed. Janet Eckhoff, a graduate student in forest management, is working with Bruce Wiersma, dean of the College of Natural Sciences, Forestry, and Agriculture to evaluate the five U.S. Forest Service indicators of forest health. They include canopy condition, tree growth, vegetation structure, lichens and extent of damage. Eckhoff and Wiersma also have added gap analysis of the canopy and tree seed production.

"We haven't seen the metabolic and physiologic shifts through the system yet," says Wiersma. "From analyses of mosses and tree leaves, we know that cations have been depressed and nitrogen uptake has increased. Aluminum has been mobilized which could cause problems. We're dealing with processes that occur over decades, not years."

## Working with Stakeholders

In 1997, EPA funded a new effort to identify soil and water quality indicators of ecosystem status at Bear Brook, and to test them in high elevation watershed in Maine that were first studied a decade ago by Kahl. These lakes continue to have among the highest nitrate concentrations in the northeastern U.S. Meanwhile, social scientists working for the University's Margaret Chase Smith Center for Public Policy will develop techniques for working with repre-

sentatives of the forest products industry, environmental groups, owners of small woodlots and other groups with interests in forest health.

"The goal is to encourage long-term, meaningful dialogue between scientists and the consumers of scientific studies," says Deirdre Mageean, interim director of the Smith Center. "Federal agencies are focusing more attention on the policy relevance of research. The question is how to do that with basic science. We need to emphasize, for example, that science operates on a continuum, that basic science is on its way to being applied."

Mageean and Kathryn Hunt of the Smith Center note that gathering representatives of all relevant interests and keeping their attention will be a challenge. They have identified more than 40 groups, including government agencies and commodity associations, with potential interest.

The most likely communication venues will include meetings, publications and events that bring scientists and stakeholder groups together.

Hunt is a former counselor who intends to take advantage of research from other disciplines on learning styles and motivation. "Other fields are ahead of the environmental sciences in applying lessons from counseling psychology and communications," she says. "In this case, the science has not come up with conclusive answers yet. We need to bring the stakeholders up to speed on the science, help them to accept the results and perhaps enable them to contribute to the development of the models."

Nevertheless, the implications of Bear Brook for forest management are not clear. The lessons will not affect what forest managers do tomorrow. However, in the long run, a better understanding of nitrogen cycling and acidification processes may help soil and water conservation agencies and the forest products industry maintain the many benefits which flow from the forests.

"Nitrogen has consequences for the kind of forest that may grow in the future and the amount of harvesting it can sustain," says Fernandez. "If you do a clearcut, you open up the site to a flush of nutrients. The more that's accumulated, the bigger the flush and the bigger the risk. What we've learned at Bear Brook may give us a gauge about how quickly changes will occur and what kinds of signatures to look for." ▲

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## Sensors *continued from page 1*

opportunity to come back to the area, my family and the University community."

For more than a decade, University of Maine researchers and students have been undertaking pioneering sensor science that is having far-reaching implications. The Environmental Sensor Research Group, based in LASST, combines education, research and partnerships with industry to provide unique interdisciplinary learning opportunities that affect the future of sensor science and economic development in Maine, and will one day make a difference in the consumer products and industrial processes used around the world.

To date, UMaine's cutting-edge sensor research has garnered more than \$5 million in federal grants for education, equipment and research.

"In addition to the research, one of our major missions is education," says Robert Lad, professor of physics, director of LASST and one of its six full-time faculty members. "For the past five years, several new courses in electrical engineering have been developed, giving students even more options to focus classes and lab courses on sensors. In LASST, we're teaching students one-on-one how to take knowledge from textbooks and apply it to real problems in the laboratory.

"UMaine has the only comprehensive university-based sensor group in the country," says Lad. "Other places have a lot of expertise but only in chemistry and not devices or vice versa. We're covering the spectrum, making us extremely competitive in our ability to develop a finished product that's useful.

"Sensors have so much potential, ranging from consumer products to industrial process controls and detectors of environmental hazards. We all have our fire alarms in our homes, which are just one example of sensors. Think of the many consumer products using sensors that can be developed and sold. We are tapping into a multi-billion-dollar industry."

The history of sensor science at the University of Maine is rooted in the early 1980s research on acoustic wave devices by John Vetelino, professor of electrical and computer engineering. At the time, Vetelino found that the properties of his devices were adversely affected by fluctuations in humidity in the lab. What was needed was a device to "sense" when such atmospheric changes were occurring.

With NSF funding, UMaine researchers in electrical engineering, chemistry and physics combined their expertise to build the equipment to fabricate sensors. By 1990, the research evolved to the manufacture of prototype devices.

Two private-sector partners emerged from the University-based research. BIODÉ, based in Hermon and Cape Elizabeth and employing nine researchers – all UMaine graduates, was established in 1986 to develop new sensor technology for the detection, identification and quantification of trace chemical, biochemical and microbial contaminants. SRD was founded in Orono in 1993 with the intent to expand the boundaries of surface acoustic wave technology, and to develop advanced sensor technology to detect and quantify chemical gases and liquids.

In 1996, the Environmental Sensor Research Group was created, made up of UMaine scientists in nine academic disciplines and researchers from BIODÉ, SRD and, most recently, Maine Medical Center.

It is just such university-industry collaborations that are making the Environmental Sensor Research Group a top priority for federal funding. NSF has provided equipment and education grants to develop the infrastructure of the sensor program. Research funding has come from such agencies as NSF, the National Institutes of Health, the Department of Energy and the Environmental Protection Agency.

Earlier this year, the Office of Naval Research awarded a \$1.8 million grant – the largest ever received for sensor research at UMaine – to develop devices to detect chemical and biological warfare agents in the environment. This research will develop the core technology that will drive the operation of these devices. For this development, the research will use harmless substances such as egg whites that merely simulate the actual chemical and biological agents.

"With private sector partnerships, the University does focused research that supplies the necessary underpinning science that industry can build upon," says Lad. "Based on results of University research, industry does the advanced engineering development and commercialization."

Sensor technology in the Environmental Sensor Research Group currently falls into eight general areas. The eight different types of sensors, and examples of their use, are:

**Medical diagnostic sensors** - detecting gases emitted from human breath that are indicators of respiratory conditions.

**Combustion sensors** - monitoring emissions, including mercury and sulfur-bearing gases from industrial smokestacks.

**Chemical and biological warfare agent sensors** - detecting chemical and biological warfare agents in the environment.

**Fire alarm sensors** - providing early warning in electrical fires by detecting emitted gases.

**Automotive sensors** - positioned near the catalytic converter to measure carbon monoxide and nitric oxide emissions.

**Corrosion sensors** - measuring corrosion rates in airplane parts.

**Mercury sensors** - detecting trace amounts of mercury in air and water.

**Food quality sensors** - serving as "electric noses" for freshness and quality control.

"All these applications are based on the same technology – thin film sensors," says Lad. "Thin films of what we call 'controlled architecture' are only about a few hundred atoms thick. For the different sensors, we tailor the surface sites to be specific to what we're trying to detect. To do that, we have to know how to grow the film, understand the interactions between the surfaces and different gases, and manipulate the electrical response and detect it with a specific device configuration.

"Sensors have been around for 30 years but their potential has not been realized. The architecture of the thin film and the chemistry are the most important parts."

Chemiresistive and acoustic sensors initially dominated the University's sensor research. In recent years, new sensors, including optical-based sensors, are being developed. UMaine research also is evolving into the complex area of liquid-phase sensors – devices to detect pathogens, toxins, antibodies or DNA fragments in liquid.

"This is the potential for the future," says Lad. "We have some working devices now but those specific to a given toxin are still a couple years away."

As a result of the work of the Environmental Sensor Research Group, the University of Maine and collaborating industries have a number of patent applications for the different sensors.

"Joint patents between the University and its industrial partners are a benefit of our mature sensor program," says Lad. "They are a good signature of technology transfer – and a gauge of success." ▲



Mildred "Brownie" Schrupf has donated her papers to Fogler Library's Special Collections. Schrupf graduated from UMaine in 1925; her husband, Bill, also was an alumnus. The collection of the long-time *Bangor Daily News* food columnist includes Maine cook-

books and memorabilia. Her papers contain newspaper clippings, food column manuscripts, appointment books, and recipes and correspondence from her many faithful readers. Following a summer of cataloging and curating the extensive collection by Special Collections staff, seven members of Schrupf's family—including her sister, Doris Dow, 91, pictured at right, of Winthrop, and niece, Joan Dow Scott from Knoxville—visited Special Collections. They began their campus visit at the Page Farm and Home Museum, where "Brownie's Kitchen" is a permanent exhibit. The Scott family donated to the Page Museum a photograph of Schrupf at the age of 4, and kitchen items from Schrupf's childhood home in Readfield Depot. Special Collections also received a \$500 donation, given in Schrupf's honor by the Scott family.

## Box Office *continued from page 7*

Center that began three years ago when the facility made improvements to its stage lighting and floor.

"Because of time and usage, these improvements have been necessary to keep the Maine Center for the Arts open," says MCA Director John Patches. "With no money earmarked for the box office, and as the system deteriorated more and more, it was obvious something needed to be done. With the new system, we can provide a higher level of customer service."

The improvements came none too soon. The MCA's old ticket system was close to failing, says MCA Marketing and Promotions Manager Adele Adkins. Ice Storm '98 nearly claimed it as another victim when the mid-range mainframe suffered disk drive damage as a result of the extensive power outage.

Today the new system has turned a 20-minute wait for tickets at the box office into a 3-minute stop in the MCA lobby. Seating information is so complete, patrons can determine who they'll be sitting next to in any given performance.

In addition, the new ticketing system will provide databases of audience information that will facilitate MCA marketing and promotion.

All MCA staff members are networked to the box office computers for the first time in the history of the facility. The same communication capability is available in the satellite box office, located in the lobby of Class of '44 Hall outside Minsky Recital Hall.

The satellite box office, available for the first time last year, is open an hour before each School of Performing Arts event; the main box office is open an hour and a half prior to each Hutchins Concert Hall performance.

MCA officials say the new ticketing system has the potential to facilitate a ticket kiosk in the soon-to-be-renovated Memorial Union, and also could lead to collaborative ticket office use by community arts groups. ▲

## Directory Changes

Marisue Pickering, 226 Corbett Hall.

Kay Saucier, kay.saucier@umit.maine.edu

## Multicultural Institute *continued from page 7*

**Renate Klein – Human Development & Family Studies/Women's Studies**

I had been little aware of the extent, vibrancy and sheer volume of research and academic activity in Black social history and in Latino studies. At the same time, I was shocked to realize just how devastating the impact of white settlement in the U.S. still is for Native American communities and Native American research communities. Their contributions have the potential to be truly mind-boggling and profoundly transcend the "Eurocentric" world views, and ways of thinking and arguing. In women's studies, it is important to be better informed about the variety of women's experiences and to learn to analyze intersections of gender and culture.

**Kathleen March – Modern Languages (Spanish)**

Multicultural work is very much in the beginning stages, and we have to realize that. It is very demanding of us and can be risky business if we do not have enough information on the cultures we propose to understand/teach. All cultures are both vast and profound, and learning just a little about them is not enough. We also cannot afford to have the ideas and experiences of just one representative of a culture, because tokenism is limiting. We need to hear a chorus of voices from each culture in order to better compare and contrast its history with that of our own. In particular, I feel that the small amount of attention given the role of language in social and personal interaction has rendered it transparent and undervalued. People do not have the sensitivity I wish they had in analyzing the way language affects how one "is" in the world. There is a great potential for change when we really take into account all the factors that shape other perspectives, as well as other ways of expressing those perspectives. Multiculturalism as a mindset is important, however: it is subversive and constantly questioning the mainstream, rather than a set of topics to learn about and tolerate or passively accept. It takes a lot of effort to see the world through other cultural eyes, to hear and feel it through those other senses. We've only just begun, and the Institute seminars made that more evident.

**Sheila Pendse – Public Administration**

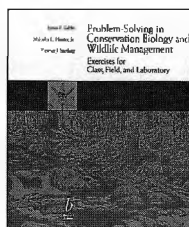
If I have to point out a single most important message, it would be the question of "teaching what you're not." With all the information resources available today, a person from one culture can teach studies on other cultures. However, there's a difference in reading and listening from the "horse's mouth" with visiting speakers who have the passion and enthusiasm for their own culture. UMaine has been talking about new policies on multicultural diversity on campus both in the student population and the curriculum. The University community should know that it is not merely lip service. With this summer's multicultural Women's Studies Institute and the attempts to make our curriculum inclusive of other cultural issues, UMaine is in the right track.

**Liam Riordan – History**

One of our challenges is to work to understand how all of American society is a combination of diverse groups that vary by region, and that the distinctiveness and important public roles played by different groups are often hidden from view by assumptions about "whiteness" as an all-encompassing and dominant way of being "normal" Americans. From the Franco-American Center to Indian Island and the Wabanaki Center, as well as scores of dedicated faculty members, we are situated in an exciting location to explore some of the diverse strands of our state. However, we must work much harder to make connections and begin conversations that help different segments of our local community to reach across varied imagined boundaries to understand our richness and fullness as a whole. ▲

# V O L U M E S

## Recent Works by University of Maine Authors



### ***Problem-Solving in Conservation Biology and Wildlife Management: Exercises for Class, Field, and Laboratory*** By James Gibbs, Malcolm Hunter Jr., and Eleanor Sterling (Blackwell Science 1998)

*Problem-Solving in Conservation Biology and Wildlife Management* is written for

students and teachers of conservation biology and wildlife management who want to have an impact beyond the classroom. The book focuses on learning by doing as a mechanism for professional development. The 27 exercises it presents span a range of conservation issues – from genetic analysis and population biology and management to taxonomy, ecosystem management, land use planning and the public policy process. All exercises carry a message about how to take the lessons of an exercise and make an impact in the larger world.

The authors are UMaine alumnus James Gibbs, College of Environmental Science and Forestry, State University of New York, Syracuse; Malcolm Hunter, UMaine Librarian Professor of Conservation Biology; and Eleanor Sterling, Center for Biodiversity and Conservation, American Museum of Natural History, New York.

Among faculty who co-authored exercises in the book is Robert Seymour, Curtis Hutchins Professor of Forest Resources, Department of Forest Ecosystem Science. UMaine undergraduate Krishnan Sudharsan, Department of Wildlife Ecology, also co-authored one of the exercises.

Royalties from the book are dedicated to conservation, including UMaine's International Biological Conservation Fund that will endow a fellowship for natural resource students from developing countries.



### ***Multidisciplinary Perspectives on Family Violence*** Edited by Renate Klein (Routledge 1998)

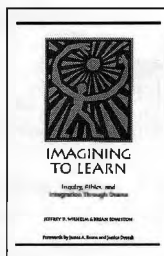
*Multidisciplinary Perspectives on Family Violence* is an introduction to family conflicts and domestic violence by internationally renowned scholars from anthropology, psychology, sociology

and women's studies. The book breaks new ground by combining a multidisciplinary perspective with an international approach. By integrating research on conflict with research on violence, *Multidisciplinary Perspectives* presents previously unpublished case studies and cutting-edge research.

Topics include child abuse, family aggression, social representations of conflict and abuse, gender stereotypes, the role of extended family, violence in dating relationships, and violence against women.

UMaine Instructor of Family Studies Renate Klein edited the volume. The purpose of the book is to cross disciplinary and national boundaries by bringing together 17 scholars from different cultural, intellectual and disciplinary backgrounds. The book is representative and testifies to the diversity of research approaches in the field of family violence. It also highlights converging ideas, complementary findings and common ground.

Klein is the founder and coordinator of the European Research Network on Family Conflict and Domestic Violence.



### ***Imagining to Learn: Inquiry, Ethics, and Integrity Through Drama*** By Jeffrey Wilhelm and Brian Edmiston (Heinemann 1998)

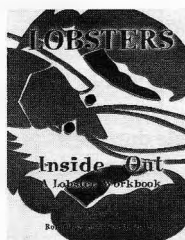
*Imagining to Learn* moves drama into the mainstream of elementary and middle school teaching, learning and curriculum. Such an approach is most effective in an integrated learning environment in which students

become engaged in reading, writing and inquiry while exploring the ethical dimensions of the curriculum. In this case, drama taps into the imagination to create powerful learning contexts.

The book, by UMaine Assistant Professor of Education Jeffrey Wilhelm and Brian Edmiston, director of the Theater and Education Program at the University of Wisconsin-Madison, is filled with examples of how teachers and students can create contexts that draw out the energies, abilities and questions of learners. In such contexts, students can discover a reason to read, a need to think and a community that cares about their ideas. In *Imagining to Learn*, readers discover new methodologies and techniques that are rarely used in the U.S.

Wilhelm and Edmiston advocate drama as a method of performance-based assessment and a way to engage in research with students. Through drama, students see what they are reading and learning, create mental models and coherent networks of thought, and apply and play out possibilities and consequences in a field of safety.

According to Jessica Dvorak, a ninth grader at John Baptist Memorial High School who wrote a foreword to the book, "drama is a great way to learn. It's like reliving history. You remember what you learn much better – as something you did rather than as something you heard in school."



### ***Lobsters Inside-Out: A Lobster Workbook*** By Robert and Juanita Bayer (Kendall/Hunt Publishing Co. 1999)

Have you ever wondered why lobsters shed their shells and claws? Did you know lobsters are "cannibals"? How do they grow? Can you tell a male from a female lobster? *Lobsters Inside-Out* explores the basic questions most

often asked about the American lobster, *Homarus americanus*.

Written by Bob Bayer, executive director of UMaine's Lobster Institute, and his wife Juanita, an elementary school teacher in Brewer, *Lobsters Inside-Out* is a fun and factual workbook for crustacean fans of all ages. When first published in 1987, the outline for the book came from the Bayer children, Meghan, Alison and Andrew, then ages 14, 11 and 10. The workbook is now in its third edition.

The workbook examines growth of lobsters from egg to maturity, discussing biology, habitat and harvesting. Also discussed is the impact of lobsters on the economy, the livelihoods of thousands of coastal residents, and the culture of communities, states and provinces along the East Coast.

Illustrations for *Lobsters Inside-Out* are by MaJo Keleshian, a graphic designer with the Sea Grant College Program, and Marcia Spencer, a freelance artist. The workbook is published in cooperation with the Lobster Institute.



Professor of Art **Susan Groce**: *Medical Care Research Unit Annual Report*, University of Sheffield, England, Cover Illustrations: 1996, 1997, 1998.

**Herman Weller**, associate professor of education and human development: "A Running Inquiry-Nature Asked the Questions During the Jog," *Journal of College Science Teaching*, 27(6):389-92 (1998).

**Doug Allen**, professor of philosophy: "Violence and Nonviolence," *Philosophy and Social Action: Philosophy, Science, and Society* 24(2):15-22 (April-June 1998).

**Jaekyung Lee**, assistant research professor: "The Impact of Content-Driven State Education Reform on Instruction," *Research in Middle Level Education Quarterly*, 21:4 (Summer 1998); and "State Policy Correlates of the Achievement Gap Among Racial and Social Groups," *Studies in Educational Evaluation*, 24:2 (1998).

**Dilip Lakshman**, associate scientist, **Jianhua Jian**, former graduate student, and **Stellos Tavantzis**, professor of plant pathology, Department of Biological Sciences: "A Double-stranded RNA Element from a Hypovirulent Strain of *Rhizoctonia solani* Occurs in DNA Form and Is Phylogenetically Related to the Pentafunctional AROM Protein of the Shikimate Pathway," *Proceedings of the National Academy of Sciences (USA)* 95:6425-29 (1998).

**Suzanne Dwyer**, graduate student in psychology, and **Alan Rosenwasser**, professor of psychology: "Neonatal Clomipramine Treatment, Alcohol Intake, and Circadian Rhythms in Rats," *Psychopharmacology* 138: 176-83 (1998).

**Bob Strong**, professor of finance: "Atractivos y Riesgos de la Inversion de Portafolio en Mercados Emergentes" (The Attraction and Special Risks of Portfolio Investment in Emerging Markets), *Gaceta de Economía*, pp. 125-141 (Spring 1998).

**Lindsey Rustad**, USDA Forest Service, and **Ivan Fernandez**, chair and professor, Department of Plant, Soil and Environmental Sciences: "Soil Warming: Consequences for Litter Decay in a Spruce-Fir Forest in Maine, USA," *Soil Science Society of America Journal*, 62:1072-1080 (1998). Also Rustad and Fernandez: "Experimental Soil Warming Effects on CO<sub>2</sub> and CH<sub>4</sub> Flux from a Low Elevation Spruce-Fir Forest Soil in Maine, USA," *Global Change Biology*, 4:597-606 (1998).

**Robert Cobb**, dean, College of Education and Human Development, is among selected national educational leaders contributing descriptions of effective programs that address Goals 2000, published in "Promising Practices, How Communities Across America Are Working to Meet National Education Goals 2000," by Ernest Brewer and Connie Hollingsworth, University of Tennessee (Holcomb Hathaway 1998).

### National Poetry Foundation, Hatlen, Alpert in New Yorker

The Sept. 7 issue of *The New Yorker* magazine includes a profile of Stephen King. The article makes several references to UMaine and cites Stephen and Tabitha King's 1997 \$4 million gift to the University. It also mentions King's University mentors – former English professor Edward Holmes and Professor of English Burt Hatlen, as well as University of Maine Press Director Michael Alpert. Hatlen and Alpert are quoted in the story.

### Anchors Interviewed for Boston Globe Article

A freelance writer on assignment from the *Boston Globe* interviewed Scott Anchors, executive assistant to President Hoff, regarding use of personality instruments in helping students adjust to university life. Anchors, the former director of residential life at UMaine, has a significant amount of experience in studying such tests. The article is scheduled for later this month.

### Food Science and Human Nutrition in Food Technology

The Department of Food Science & Human Nutrition was cited several times in the July issue of *Food Technology*, the primary news publication for the Institute of Food Technologists. IFT has 30,000 members and the magazine has an even wider distribution to companies and libraries. Mary Ellen Camire was cited by IFT's Congressional Fellow Stephanie Smith (who works for Sen. Susan Collins) for her testimony on imported food safety. Also cited was Camire's invited paper at the IFT annual meeting in June. Her paper was on the effects of food processing on dietary fiber in a symposium organized by Mian Riaz, UMaine Ph.D. '95, who is now a faculty member at Texas A&M. Also in *Food Technology*, both Food Science communicators, Camire and Alfred Bushway, were quoted – Camire for her May 15 Reuters article on food safety, and Bushway for his interview on roasted potatoes for *Cook's Illustrated*. In addition, the March 1998 issue of *Council for Responsible Nutrition (CRN) News* reported on the February National Academy of Sciences dietary antioxidant workshop. Camire's presentation on the role of anthocyanins and phenolic acids was cited. CRN is the nation's largest association of dietary supplement manufacturers.

### Cruikshank in Lesbian and Gay Studies Newsletter

The current issue of the *Lesbian and Gay Studies Newsletter* contains a review essay by Margaret Cruikshank, "Stonewall Communities," on recent studies in lesbian, gay and bisexual history. The newsletter is published by the gay and lesbian caucus of the Modern Language Association and Duke University Press.

### Whittington Interviewed for Anthropology Newsletter

Steve Whittington, director of UMaine's Hudson Museum, was interviewed by a writer from *Anthropology Newsletter*. The story is about how to communicate effectively with the media and is scheduled to appear in the publication's October issue.

### Caron on the CBC

Sandra Caron of the UMaine Human Development and Family Life faculty has been interviewed by Canadian Broadcasting Company radio. The story will be about the world record for the most couples kissing in one place at one time, a record set at UMaine in 1996 and recently broken in Spain. Caron was the primary organizer of the effort at UMaine two years ago.

## Book Ends

### New & Noteworthy at the University Bookstore

**Pass the Polenta: And Other Writings From the Kitchen - with recipes, Teresa Lust (Steerforth Press 1998).** The author originally intended to write a cookbook, but in doing so found that each recipe evoked a remembrance or an anecdote. In *Pass the Polenta*, Lust offers kitchen secrets, tricks of the trade, and lessons in life drawn from her experiences as a professional cook and her interest in culinary history. In the tradition of M.F.K. Fisher, Lust writes with passion and exuberance in this celebration of food and cooking.

**Legends: New Short Novels, Robert Silverberg, ed. (Tor 1998).** Featuring stories by Stephen King, Terry Goodkind, Robert Jordan and others, this volume is essential reading for fantasy fans.

**Forms of Devotion, Diane Schoemperlen (Viking 1998).** Acclaimed author of *In the Language of Love*, Schoemperlen again expands our expectations of the contemporary novel with her new collection of illustrated stories. The illustrations, selected by the author, are wood engravings and line drawings from the seventeenth, eighteenth, and nineteenth centuries. Combined with the subtle interplay of words and images, the result is a wonderfully readable work that is also a treat for the eye. Playful, mysterious, and sometimes surreal, this exploration of romantic love and devotion in its many forms is intriguing and fresh.

**The Voyage of the Narwhal, Andrea Barrett (Norton 1998).** Part adventure narrative, part love story, this extraordinary chronicle captures a crucial moment in the history of exploration, the mid-nineteenth century romance with the mystery of the Arctic. Combining fact and fiction, Andrea Barrett (*Ship Fever*), weaves a tale of danger and moral compromise on an obsessed expedition for an open polar sea. On the *Narwhal*, everyone is frightened, nothing is certain, and heroes emerge in unexpected guises. Barrett's explorers discover, as all explorers do, not what was always there and never needed discovering, but the state of their own souls.

### In other Bookstore news –

▼ The 4th Annual Fall Fashion Show will be held on the Mall at 11 a.m. Saturday, Sept. 26.

▼ Extended hours for Family & Friends Weekend, Sept. 26–27, are Saturday 9 a.m.-5 p.m., and Sunday 10 a.m.-2 p.m.

**Jon Lewis**, director of Dining Services, has received a Lichtenfelt Award for outstanding service to the National Association of College & University Food Services. Lewis is in his second term as NACUFS secretary/treasurer. He was president of NACUFS Region IX, co-chaired a Region I conference, and has served on numerous committees and task forces. He

has won several NACUFS dining contest awards. The Lichtenfelt Award was presented at the association's annual conference in Anaheim, July 7-11.

**Janice Kristo**, professor of literacy education, attended the International Reading Association conference May 6 in Orlando. As president of the association's Children's Literature and Reading Special Interest Group, she chaired the annual business meeting and session.

**Paula Moore**, director of the Center for Early Literacy, participated in the 1998 Reading Recovery Teacher Leader Institute in Dallas, June 3-6. Her presentations included "Guiding Teaching Learning: The Discourse of Training," and "Linking Theory and Practice: Analyzing Teacher Leader Discourse." Moore coordinates Reading Recovery teacher training in Maine.

**Robert Cobb**, dean of the College of Education and Human Development, was a panelist at the Northeast Regional Data Strategies Initiatives conference May 29, Boxborough Woods, Mass., launching a yearlong focus on sustaining comprehensive school improvement through the effective development, management and use of data to inform decision making about educational programs and services. Cobb's panel discussed how preservice programs do and should prepare educators to use data in their professional practice. The initiative is sponsored by the Eisenhower Regional Alliance for Math and Science Education Reform, the New England Comprehensive Assistance Center, Northeast Regional Resource Center and the Women's Educational Equity Act Resource Center.

**Howard Segal**, Bird & Bird Professor of History, presented a lecture at Colby College, Science & Technology Studies Program, on "Recasting the Machine Age: Henry Ford's Village Industries," May 1.

The following Department of Communication and Journalism faculty and graduate students presented papers at the Eastern Communication Association convention in Saratoga Springs, N.Y., April 23-26: Professor **Kristin Langellier** responded to a program on "Performance and Modern Rhetorical Theory"; Associate Professor **Eric Peterson** responded to a program on "On and Off Stage Boundaries: Praxis, Theory, and Disciplinarity"; Associate Professor **John Sherblom** responded to a program on "Advancing the Boundaries in Researching Interpersonal Relationships: Siblings, Strangers, Friends, and Lovers," and co-presented a paper with former graduate student **Lesley Withers**, "Now That's Embarrassing! But Why? A Comparison of Embarrassment Typologies"; graduate student **Diane Ferrero** presented a paper, "Framing and Performance Studies: Is It a Valid Relationship?" and graduate student **Jason Lind** presented a paper, "A Case Study: Advancing the Performance Boundaries, Continuing the Tradition by Implementing Computer Technology into an Oral Communication of Literature Course."

College of Education and Human Development faculty **Phyllis Brazee** and **John Maddaus**, along with recent and current doctoral students **Rose Casement**, **Carolyn Leick**, **Joyce Salvage** and **Kelly Chandler**, participated in the Tenth Anniversary Annual Conference on Ethnographic and Qualitative Research in Education, University of Massachusetts, Amherst, June 6-7. Brazee, Maddaus, Casement, Leick and Salvage presented a symposium, "The role of relational theory in literacy research." Chandler, as managing editor of the journal *Teacher Research*, participated in an Editors' Panel. The conference is sponsored by the School of Education at the University of Massachusetts.

**Alan Rosenwasser**, associate professor of psychology, and **Suzanne Dwyer**, psychology graduate student, attended the meeting of the Society for Research on Biological Rhythms, Amelia Island, Fla., May 6-10. Dwyer and Rosenwasser presented a poster, "Effects of Chronic Clonidine Treatment on Photic Phase Shifting, Entrainment, and Free-Running Circadian Rhythms in Syrian Hamsters." In addition, Rosenwasser was an invited panelist for a workshop, "What Value Should We Place on Human tau?"

## WATLING, STENECK NAMED PEW FELLOWS

The Pew Fellows Program in Marine Conservation has announced that two University of Maine scientists are among the 10 international recipients of its annual fellowship awards. Leslie Watling and Robert Steneck, both based at the Darling Marine Center in Walpole, received \$150,000 fellowships to support their work in studying marine habitats and improving management.

According to Cynthia Robinson of the Pew Program, this is the first year in which two separate fellowships have been awarded to scientists at the same university. Other winners of this year's competition include a commercial fisherman from Rhode Island, an economist at the World Resources Institute, and scientists in Australia, Brazil and England.

Watling will use his Pew award to continue studies of the impacts of mobile fishing gear on marine communities on the sea floor. Steneck's work will focus on co-management of the lobster and sea urchin fisheries involving both the fishing industry and government agencies.

*Hornpipe Dreams*, a composition for violin and electronic sounds by **Beth Wiemann**, assistant professor of music, was selected to be performed at the Society for Electro-Acoustic Music in the U.S.'s National Conference, Dartmouth College, April 16-18. The piece was performed by School of Performing Arts Associate Professor **Anatole Wieck**. Also that month, Wiemann's chamber work, *Villancico*, was performed twice by the ensemble Digital Renaissance in Los Angeles.

**Stephen Whittington**, director of the Hudson Museum, presented two papers this summer: "Death in the Late Postclassic Maya Highlands" at the 14th International Congress of Anthropological and Ethnological Sciences, Williamsburg, Vir.; and "Desigualdad e infección en Copán" at the 4th Congreso Internacional de Mayistas, Antigua, Guatemala. In addition, Whittington presented a guest lecture, "At the Entrance to Xibalba: Death in Late Postclassic Highland Guatemala," at the Institute for Mesoamerican Studies at SUNY-Albany April 24. He also took the opportunity while he was there to study skeletons excavated at Uxatlan, capital of the Quiche Maya kingdom, which was the chief rival of the Kaqchikel Maya kingdom that he has been studying since 1992.

**Rose Mary Seymour**, assistant professor, Bio-Resource Engineering, presented a paper, "Evaluating Aeration Strategy for In-vessel Composting of Crab Processing Waste and Wood Shavings," at the Annual Meeting of the American Society of Agricultural Engineers in Orlando. Co-authors on the paper were **Michael Bourdon**, graduate assistant; **Darrell Donahue**, assistant professor; and **Danielle Wentworth**, student technician, all Bio-Resource Engineering.

**Michael Bourdon**, graduate assistant, Bio-Resource Engineering, presented a paper, "Composting Crab Processing Waste In-vessel," at the Northeast Agricultural and Biological Engineering Conference in Halifax. Co-authors on the paper were **Rose Mary Seymour** and **Darrell Donahue**, assistant professors, and **Danielle Wentworth**, student technician, all Bio-Resource Engineering.

Attending the national conference of the American Association for Public Administration (ASPA), held this year in Seattle, were **Jody Harris**, a member of President Hoff's advisory committee on public administration; **Marie Grady**, adjunct instructor and secretariat for the Maine Chapter of ASPA; **Steve Ballard**, then director of the Margaret Chase Smith Center, who presented a paper, "Developing and Using Ethics in Public Administration"; **Ken Nichols**, assistant professor, who chaired the ASPA's Section for Professional and Organizational Development, and made a panel presentation on "Enforcement Administration: The Blend of Marketing and Muscle"; and recent MPA graduate **Shawn Kline**, past president of UMaine's Graduate Association of Public Administrators, who made a panel presentation on "States on the Trailing Edge in Economic Development: Self-help Insights Gained from Looking at Maine," a paper he has been invited to publish in *The American Review of Public Administration*. Also attending were former UMaine faculty members Joe Cayer, Steve Ott and Khi Thai.

**Amy Fried**, assistant professor of political science, attended the American Political Science Association (Sept. 3-6) in Boston and served as discussant for a panel on "Public Opinion and Public Policy."

**Michael Howard**, associate professor of philosophy, gave a paper, "Cooperatives and the Transition to Socialism," at the Twentieth World Congress of Philosophy, Copley Place, Boston, Aug. 10-16. He also gave a paper, "Private Versus Public Property: Does it Matter?" for a conference of the International Institute for Self-Management, Dietzenbach, Germany, July 5-10.

Aug. 6, **Christa Acampora**, assistant professor of philosophy, presented a paper, "Contesting Sappho: Agonism, Feminism, and Dynamic Relations," at the meeting of the International Association for Women Philosophers in Boston. Aug. 17, she presented a paper, "Nietzsche's Thus Spoke Zarathustra as Postmodern Bildungsroman," at the meeting of the International Association for the Study of European Ideas in Haifa, Israel.

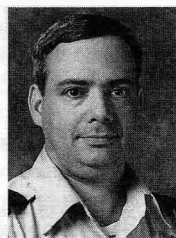
Professor of Art **Susan Groce** had the following selected exhibitions: *Thirteenth Annual Greater Midwest International Exhibition*, selection award for GMI X111 Invitational Fall 1998, Art Center Gallery, Central Missouri State Warrensburg, Mo., Juror: Andrea Inselmann (Curator of Exhibitions, John Michael Kohler Art Center); *GMI X111 Invitational*, 5 artists, Art Center Gallery, Central Missouri State University, Warrensburg, Mo., Aug. 31-Sept. 27; *LaGrange National XX Biennial*, Purchase Award, Chattahoochee Valley Art Museum, LaGrange, Ga., Juror: Siri J. Engberg (Assistant Curator, Walker Art Center, Minneapolis), April 4-May 23; *Kreft Center for the Arts 1998 National Juried Exhibition*, Kreft Center Gallery, Concordia College, Ann Arbor, Juror: Bonita Fike (Assistant Curator for Twentieth century Art at The Detroit Institute of Art), March 17-April 17; *Twenty-Second Annual National Invitational Drawing Exhibition*, Norman R. Eppink Art Gallery, Emporia State University, Emporia Kansas, Feb. 23-March 20; *Positive/Negative #13 Exhibition*, Honorable Mention, Slocumb Galleries, East Tennessee State University, Johnson City, Tenn., Juror: Annette DiMeo Carozzi (Curator of American and Contemporary Art, Huntington Art Gallery, University of Texas at Austin), Feb. 9-March 11; *19th Annual Paper in Particular National Exhibition*, Columbia College, Columbia, Mo., Juror: Nancy Brandy (Victoria College), Feb. 1-28; *Breaking the Ice*, Group Exhibition, Between The Muse Gallery, Rockland, May 1-31.

**Jennifer Craig Pixley**, English, organized and chaired a session on Ruth Moore at the American Women Nature Writers Conference at the Westbrook campus of the University of New England, Portland, June 19-21. She also gave a paper, "Second Growth: Ruth Moore as a Bioregional Writer."

Several members of the Biological Sciences Department recently attended the Annual Meeting of the American Fisheries Society in Hartford, Conn., Aug. 22-27: **John Moring**, professor of zoology, and graduate research assistants **John L , Jennifer Stone, Merry Gallagher, Nathan Leaman, Thomas Hoffman, and Lia Daniels**. Moring served on the Governing Board as president of the Fisheries History Section, and organized and moderated a special session, "The History of the Fish and Fisheries of the Connecticut River," which was mentioned by the Governor in his welcoming proclamation. Moring also gave a talk, "Connecticut River Fisheries: The Past and the Future."

**Raymond O'Connor**, professor of wildlife ecology, and **C. Hahn** presented a poster: "Scaling of Host and Environmental Patchiness in the Distribution of Brown-headed Cowbird," at the symposium Research and Management of the Brown-headed Cowbird in Western and Eastern Landscapes, Research Working Group of *Partners in Flight*, Sacramento, Oct. 23-25, 1997. O'Connor, with **John Bartlett**, graduate student in wildlife ecology, and **Deirdre Mageean**, associate professor, Margaret Chase Smith Center for Public Administration, gave a poster presentation, "Indexing the Human Dimensions of Global Environmental Change," to the GCTE-LUCC Open Science Conference on *The Earth's Changing Land*, Barcelona, Spain, March 14-18. O'Connor, Mageean and Bartlett presented "Indexing the Human Dimensions of Global Environmental Change" to the Eastern U.S. Forest Modeling and Analysis Workshop, Raleigh, N.C., May 13-15. And O'Connor presented a paper, "Hierarchical Models of Human-environment Relations" to the Biodiversity Research Meeting, USEPA Environmental Research Laboratory, Corvallis, Oregon, May 27-28.

**Doug Allen**, professor of philosophy, gave a paper, "Gandhi's Critique of Dominant Ideological Constructions of Self," at the Twentieth World Congress of Philosophy, Boston, Aug. 10-16.



A Change of Command Ceremony Sept. 10 officially introduced U.S. Army Lt. Col. Marc Girard to the University of Maine community.

Guest speakers for the ceremony were Interim Dean of the College of Engineering Chet Rock and Col. Edward Stone, Commander of the 1st Brigade, 1st Region, U.S. Army Cadet Command headquartered in Devens, Mass.

Lt. Col. Girard has been assigned as Professor of Military Science and commanding officer of the ROTC Black Bear Battalion at UMaine, succeeding Lt. Col. Jeffrey Wright who completed an unprecedented six years as commanding officer before retiring in June.

Serving as acting commander this summer was Maj. Randy Clements, Assistant Professor of Military Science and a member of the University community since January 1997.

Lt. Col. Girard, a Massachusetts native, comes to Maine from Stuttgart, Germany, where he served for the past year as chief of the Current Operations Branch in the J3 Operations Directorate, U.S. European Command.

At UMaine, he commands a battalion of 85 cadets. Army ROTC has been part of the University of Maine for the past 129 years.

**Phillip deMaynadier**, research associate, Department of Wildlife, and **Malcolm Hunter Jr.**, Libra Professor of Conservation Biology, Department of Wildlife Ecology, presented a paper, "Forest Canopy Closure and Dispersal by Pool-breeding Amphibians in Maine," at the National Conference of the Society for the Study of Amphibians and Reptiles, University of Guelph, Canada, June 18-21. Hunter also chaired a session, "Natural Disturbance Regimes as Models for Managing Ecosystems," at a meeting of the Society for Conservation Biology, Sydney, Australia, July 14.

**Russ Quaglia**, director of the National Center for Student Aspirations, gave the keynote address at the bi-annual meeting of the Maine General Federation of Women's Club, July 15 in Waterville. The Federation plans to place copies of Quaglia's book, *Believing in Achieving*, in the state's elementary schools.

Associate Professor **Nancy Ogle**, Music, served as secretary for a panel at the International Conference on Neoplatonism and Western Aesthetics in Rethymnon, Crete, in July.

Professors **Steven Barkan** and **Steven Cohn**, sociology, attended the annual meetings of the American Sociological Association, Aug. 20-23 in San Francisco. Barkan presented "Attributions of Legitimacy in a National Social Movement Organization," which was co-authored with Cohn. Barkan also attended the annual meetings of the Society for the Study of Social Problems (SSSP), also in San Francisco, where he was elected

chair of the Editorial and Publications Committee.

**Kim Oller**, professor, communication sciences and disorders, presented the following: "Fixed vocal signals in humans across the lifespan: A perspective from non-human primate vocalizations" at the April 1998 Child Phonology Conference, Charlottesville, Vir.; and a poster presentation with A.R. Neal, P. Mundy, and **R. Eilers**, "Verbal and nonverbal communication skills in infants with late onset of canonical syllables," at the May 1998 International Conference in Infant Studies in Atlanta. He also made several presentations at the May 1998 International Sensory Aids Conference in Portland: with H.K. Schwartz, Eilers, **A.B. Cobo-Lewis**, & K.C. Vergara, "The speech production of deaf children using tactile aids and cochlear implants"; with Vergara & L.W. Miskiel, "Vocal development of deaf children with tactile aids, hearing aids, and cochlear implants"; with Vergara, Miskiel and Eilers, "A longitudinal study of children's speech perception skills using hearing aids and tactile aids." Two presentations were made at the XVth Meeting of the International Society for the Study of Behavioral Development, Berne, Switzerland in July: with Eilers, "Prospective evaluation of language learning in infants with delayed babbling"; with N. Masataka, "Effects of environmental inputs on the development of babbling in hearing and deaf infants." And a presentation in August at the Fourteenth Biennial Conference of the International Society for Human Ethology, Vancouver, "Infrastructure properties of vocal communication in onogeny and evolution."

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

##### CONCESSION EQUIPMENT

Stainless steel Multimixer for milkshakes; "Star" hot dog steamer

and bun warmer; BBQ sandwich/soup heater; stainless steel milk/cream dispenser; electric ice cream maker; "Toasty Bun Cafe" nachos, cheese, chili & bun heater; two steam table hoods; large stainless steel mixing bowls, pots & pans, utensils. Call 732-5322.

**COMPUTER:** Pentium II, 233mhz, 64-meg memory, 4.5 gig hard drive. No monitor. \$1,000 – negotiable. Call 941-8932.

**HOMESTEAD:** 70+ acres of field and forest. 30 minutes from Orono. 3-BR Cape, woodstove, attached garage, barn with wood shop. Additional garage and trailer pad. Gardens, wildlife, ski trails. \$124,900. Call Pat, 945-0969.

**HOUSE:** Spacious 4-BR, 3-level finished house in a quiet residential neighborhood in Orono. 4 bathrooms, large picture windows, and large backyard. Large LR, DR, play/family room, and eat-in kitchen. Complete set of appliances. 2 fireplaces in living and family rooms. Lots of built-in closets and shelves. 2-car garage. Walk to UMaine and downtown. Plus, income-producing apartment. \$139,900. Call 866-5983.

**HOUSE:** Cardville Road, Greenbush. 2-BR home and garage on approximately 1-acre lot. New renovations include oak kitchen cabinets, tile bath, replacement windows, vinyl siding. Low taxes and insurance costs. Motivated sellers will negotiate and help with closing costs. \$55,000. Call 827-2308 to see. Leave message.

**KITCHEN STOVE:** 1995 white Whirlpool cleantop ceramic glass cooktop, 4-burner electric range, black front, self-cleaning oven, broiler, storage drawer, hot surface indicator lights, timer, clock. Immaculate. New: \$700. Will sell for \$425. Call 223-5929.

**SURPLUS SALE:** The University of Maine offers for sale, on an as-is, where-is basis, the following: (1) PENTIUM II TC COMPUTER, No Monitor, 233 mhz, 64 MB RAM, 4.3 GB hard drive, CD ROM, \$750; (1) ROOM DIVIDER, blue cloth with chrome trim, 5' x 5', free standing, \$40; (1) FAX MACHINE, Canon 630, roll type (NOT plain paper), \$35; (3) EXERCISE MACHINES, Leg Extension, Bodymaster, Low Back Extension, Bodymaster & Cross Aerobics, Stairmaster, \$1,000 each or all 3 for \$2,500; (1) STORAGE TOWER for CD'S, with lock, \$10; (1) QMS 860 LASER PRINTER, 600 DPI, recently rebuilt – like new, \$300; (1) METAL OFFICE DESK, 5 drawers, 55" wide, 24" deep, \$50. 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.

**PHILIP GLASS OPERA, Satyagraha**, CD box set with libretto, new condition. Recently purchased for \$53. Asking \$28. (If you called last spring, call again – your number was lost.) 866-0813.

**REFRIGERATOR:** GE 20.7 cubic ft. no-frost refrigerator-freezer. Excellent condition. BO. Call 732-5322.

**TRAILER:** 20' Cadet Coachmen trailer for camping/concession. Complete w/bath-room, stove/oven and kitchen cabinets. Call 732-5322.

**WOODSTOVE:** Wood burning stove purchased through J.C. Penney. Good condition. Call 732-5322.

#### FOR RENT

**HOUSE:** Large Bangor house, 3-4 BRs and bath on second floor; LR, DR, den, kitchen and halfbath on first floor. Dry, full basement and stairway to large attic for storage. Plentiful closets, high ceilings and beautiful front hallway. Located near EMMC, 1 block from bus stop (hourly service to UMaine). Walking distance to schools. \$700/mo. Security deposit, lease required. Call 963-7844.

#### SERVICES

**PRESCHOOL OPENINGS:** The Child Study Center has openings in its afternoon MWF session for children ages 2 1/2–5. For more information, call 581-3080.

The Conley Speech and Hearing Center, L-5 North Stevens Hall, is now accepting new therapy clients for the fall semester – preschool through adult – with speech/language/hearing disorders. Complete speech/language/hearing evaluations are scheduled in our Friday diagnostic clinic, ending Dec. 4, for the fall semester. For more information, call 581-2006.

#### WANTED

**CAT HOMES:** 1 male, 1 female orange cats need new homes. Both fixed. Love outdoors. Interesting semi-feral personalities. Can be adopted separately. Call for details if you can help. Owner moving far. Call 866-0813.

**CLARINET:** Used, reasonably priced clarinet needed for a fifth-grader starting lessons. Does not have to be in mint condition but has to be in good shape and affordable. If you can help launch the musical career of an aspiring artist, call 884-8493.

**RESEARCHER:** Research project to form the basis for a national bottle bill. Much of the groundwork already done. This bill has been introduced several times to Congress but without the necessary infrastructure. Project entails developing methods and systems to enable a practical national bill. Experience with grant proposal writing a plus. If interested or for more information, contact Jay, 942-2904, or e-mail jpdresser@juno.com.

**VOLUNTEERS:** Spruce Run Association, the domestic violence project serving Penobscot County, is looking for volunteers who are interested in working either on the hotline or with children who have been affected by domestic violence. Spruce Run is offering volunteer training

beginning this month. No prior experience required. Work study and CEU's available. Interested? Call 945-5102 for more information and a volunteer application.

#### ORONO/DARLING MARINE CENTER SHUTTLE SERVICE

A shuttle service runs between the Orono campus and the Darling Marine Center in Walpole through the weeks when classes are scheduled and passengers are signed up. The shuttle leaves Orono from the Libby Hall Parking Lot at 6:45 a.m. and 4:15 p.m. The shuttle leaves the Darling Marine Center at 7 a.m. and 4 p.m. Reservations to ride the shuttle or to transport cargo can be made by calling Rita Langille, x-4385, by 2 p.m. the day before you wish to use this service.

## 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.*

**Counselor, Maine Educational Talent Search.** Half-time position. Position funded through May 1999; reappointment contingent on external funding. Continued funding is expected. Qualifications: Bachelor's degree (master's preferred) in counseling, education, or related area; demonstrated employed experience working with people from disadvantaged backgrounds; ability to interact and work successfully with target population, schools, and community agencies, as well as strong organizational, interpersonal and communication skills; strong self-motivation and ability to work independently. Frequent travel, usually requiring a driver's license and automobile. Salary Range: \$11,494-\$12,267. Review of Applications: Will begin 10/1/98. Projected Start Date: October 1998. Standard Work-Year: Aug. 1-May 31. Contact: Send resume, letter of application, and names and phone numbers of three references to: Search Committee, Maine Educational Talent Search, University of Maine, Room 310, 5713 Chadbourne Hall, Orono, ME 04469-5713. Telephone: (207) 581-2526.

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

#### EMPLOYEE ASSISTANCE PROGRAM SERVICES AVAILABLE

The Employee Assistance Program (EAP) provides free, short-term counseling and professional consultation services for all active and retired faculty and staff, and their immediate family members who have personal or work-related concerns. This confidential resource assists employees with a wide range of issues, such as occupational or personal stress; conflict resolution; anxiety disorders, such as phobias and panic attacks; marital and family issues; single parenting; legal referrals; relationship conflict, personal or at work; alcohol and drug misuse and dependency; burnout; depression; career decisions; divorce; financial concerns; and eldercare.

When a referral is needed, links are made with carefully screened community resources (therapists, psychiatrists, lawyers, physicians, financial consultants, etc.). Confidentiality is EAP's most critical component. All contacts are strictly confidential. No information, including participation in EAP, is disclosed without written client authorization. EAP office hours are Monday-Friday, 8 a.m.-4:40 p.m., including the noon hour. Accommodations for appointments can be made. Call 581-4014.



## Hall of Fame *continued from page 7*

The five inductees:

**Erwin Canham** began his journalism career as a child helping his father, the agricultural editor of the *Lewiston Sun and Journal*, gather information. After college, he went to work at the *Christian Science Monitor* in Boston. Over the years, he served as the *Monitor's* Geneva correspondent, Washington bureau chief, general news editor and top editorial executive. In 1964, he was named the *Monitor's* editor-in-chief. Canham was also a presidential advisor to Eisenhower and resident commissioner of the Marianas Islands.

**Guy Gannett** started out working for his father's magazine, *Comfort*. In 1921, he purchased the *Waterville Morning Sentinel* and two Portland newspapers, which he combined to create the *Portland Press Herald*. In 1938, he expanded into broadcasting with WGAN radio, and took to the television airwaves in 1954 with WGAN-TV.

**John Gould** started writing for the *Brunswick Record* while in high school. After graduation from college, he began writing dispatches from Maine. These columns have run in newspapers around the country, including the *New York Times*, *Chicago Tribune* and the *Christian Science Monitor*. They also appeared in magazines such as the *Saturday Evening Post* and *Collier's*. In 1958, Gould published the weekly *Lisbon Falls Enterprise*. Over the years, he has written more than 30 books.

**Brooks Hamilton** began reporting at the Bates College newspaper. After graduation, he was a reporter at the *Daily Kennebec Journal* in Augusta. He was named city editor in 1950. Two years later, Hamilton was appointed assistant professor of journalism and head of the department at the University of Maine. Hamilton is widely recognized as the primary author of Maine's right-to-know law. Hamilton retired from UMaine in 1984, but continued to teach until his death in 1996.

**James Russell Wiggins** started his journalism career in 1921 at his high school paper and as a reporter for the *Rock County Star* in Minnesota. At the age of 22, he bought the *Star* and became its editor and publisher. He sold the paper and worked at the *St. Paul Pioneer Press*, and was eventually promoted to managing editor of the paper group. After World War II, he became assistant to the publisher of the *New York Times*. In 1947, he became managing editor of the *Washington Post*. He retired early to serve as U.S. Ambassador to the United Nations. In 1969, he became editor and publisher of the *Ellsworth American*. ▲

## Grant Funding *continued from page 2*

"Because so much of the research money the University attracts from out-of-state is spent right here in Maine, the economic impact is enormous," Hoff says. "Using conservative estimates, the research dollars the University received from the federal government alone generated at least \$40 million in economic activity for the state."

In addition to research, special projects such as the Maine Family Nutrition Program, the new Center for Technology Based Business and the Maine Educational Opportunity Center received grant support during the past year. Among federal agencies, the most grant funds came from the National Science Foundation, the Department of Defense and the Department of Agriculture.

At the state level, the largest sources of support for UMaine activities were provided by the Departments of Education, Inland Fisheries and Wildlife, and Marine Resources. ▲

## Instructional Development *continued from page 1*

UMaine has always been known for its committed and talented faculty. Second, we want to help faculty build networks across campus around teaching issues. Through presentations and workshops using a variety of formats, we hope faculty begin to recognize their individual strengths and needs as teachers, and make new connections across disciplines to energize their teaching. Finally, we want to gather information for next year's director about faculty, student and staff perceptions of the purpose of an office of instructional development."

Both Perry and Power welcome workshop and presentation suggestions from faculty, staff and students for this year, as well as advice for the steering committee in setting long-range goals.

University administrators are making development of new support for faculty a top priority, and are ahead of schedule on the BearWorks timetable for this project. "We are operating on what in the construction industry is called 'Fast Track' – starting construction while the engineers are still designing the Office of Instructional Development. We have an ambitious and diverse schedule of events this fall. At the same time, we'll gather the collective wisdom of the campus about needs from many different potential audiences to guide us as we go," says John Alexander, vice president for academic affairs and provost.

Plans for the fall will be detailed "Spotlight on College Teaching," an upcoming informational series from the Office of Instructional Development.

For more information about the initiative, or to make suggestions, call Perry, 581-2494, or Power, 581-2486 (e-mail: [Connie\\_Perry@umit.maine.edu](mailto:Connie_Perry@umit.maine.edu) or [Brenda\\_Power@umit.maine.edu](mailto:Brenda_Power@umit.maine.edu)). ▲

## 21st Century Workplace *continued from page 2*

their firm and industry must have to function effectively and develop personally rewarding careers. Panelists are: Roxanne Bradshaw, manager of employee and organizational development at Central Maine Power Co.; Ann Houser, vice president of human resources at UNUM America; Margaret Orth, organizational development consultant for L.L. Bean; and Jack Quirk, training and organizational development consultant for Blue Cross Blue Shield of Maine.

At 2:10 p.m., 101 Neville Hall, there will be a panel discussion on "Higher Education and the 21st Century Workplace." Panelists for this discussion will be the presenters listed above, as well as members of the University community: John Alexander, vice president for academic affairs and provost; Chet Rock, interim dean of the College of Engineering; Sandra Gardner, chair of the Department of Sociology; Howard Segal, Bird Professor of History and director of the Technology and Society project; and undergraduate student Jennifer Nelson.

The discussion will be facilitated by Dorner, who is also the deputy director of the workforce development program at the National Center for Education and the Economy.

The afternoon meeting will give audience members a chance to ask questions and discuss the topic with members of the panel.

"This is a very important issue for higher education in the United States," says Dorner. "We hope this event will produce a real discussion among the faculty about ways to prepare students for the workplace of the future."

The conference is free, no pre-registration is required, and is open to all members of the University community. It is sponsored by the Department of Economics, the office of the Vice Provost for Undergraduate Education and the Vice President for University Development Corporate Affiliate Program. ▲

**Fund for the Improvement of Postsecondary Education's Comprehensive Program** supports innovative reform projects that promise to be models for the solution of problems in higher education. FY99 interests focus on access, retention, and completion; campus climates for learning; curricular and pedagogical reform; productive use

of resources for teaching and learning; faculty development; and K-12 teaching and schools. Preproposals are due Oct. 22.

**U.S. Department of Agriculture's National Research Initiative** announces the availability of FY99 grants for research in natural resources and the environment; nutrition, food quality, and health; plant systems; animal systems; markets, trade, and policy; and new products and processes. The earliest program deadline is Nov. 15.

**National Science Foundation** invites applications for 12-month NSF-NATO Postdoctoral Fellowships in Science and Engineering. Eligible individuals may apply to conduct research in NATO Member or Partner Countries, and institutions may apply to host Visiting Scientists from NATO

Partner Countries. Deadline: Nov. 16.

**Environmental Protection Agency's Sustainable Development Challenge Grants** provide seed money for community-based approaches to solving problems related to patterns of growth and to public investment or disinvestment that accelerate loss of open space and wetlands, fragment habitat, and increase consumption of fossil fuels. Deadline: Nov. 24.

**United States-Egypt Science and Technology Joint Board** awards modest support for binational collaborative activities in science and technology. Current priorities are in environmental technologies, biotechnology, standards and metrology, and manufacturing technologies. Deadline: Dec. 1.

**Rockefeller Foundation** invites applications from programs of international or intercultural scholarship to recruit and host resident Rockefeller Foundation Humanities Fellows in 2000-2003. Priority programs seek to understand the global interactions of belief and value systems, and to analyze the impact of the mobility of ideas and people on an increasingly global society. Letters of intent are due Dec. 1.

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

#### MAINE PERSPECTIVE FALL PUBLISHING SCHEDULE

Oct. 2 (copy deadline Sept. 18); Oct. 16 (copy deadline Oct. 2); Oct. 30 (copy deadline Oct. 16); Nov. 13 (copy deadline Oct. 30); Nov. 27 (copy deadline Nov. 13); Dec. 11 (copy deadline Nov. 27).

#### IACUC BIENNIAL TRAINING/ORIENTATION

The Institutional Animal Care and Use Committee's (IACUC) fall offering of its biennial training/orientation program on the care and use of animals will be Wednesday, Oct. 21, from 3-4:30 p.m., 427 Corbett Hall (across from the Gym). People who have attended previous training sessions do not have to attend. This campuswide training/orientation program is in compliance with federal regulation and the University's approved Animal Welfare Assurance. All faculty, staff and students who work with live, vertebrate, non-human animals are required to participate in the program. The IACUC will not act on protocols for approval of animal use until all project personnel have been certified as having completed the training program. Contact Gayle Anderson, Office of Research and Sponsored Programs, x1498, for registration information.

#### INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE MEETINGS

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

Completed Protocol Review Forms should be submitted two weeks before the meeting date in order to be reviewed at that meeting.

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

The information is also available at the ORSP website, [www.ume.maine.edu/~spd/index.html](http://www.ume.maine.edu/~spd/index.html).

IACUC Meeting Dates (submit protocols at least two weeks before meeting date): Sept. 21; Oct. 19; Nov. 23 and Dec. 14.

#### Campuswide Calendar Available

*Maine Perspective* keeps an electronic calendar listing on-campus University of Maine events for the academic year that have been submitted for inclusion. If you have events already scheduled, send your listings to *Maine Perspective*. If you are planning an event and want to check for other activities scheduled at particular days and times, give *Maine Perspective* a call, x3745.

The most up-to-date electronic versions of the University of Maine Master Calendar are available on FirstClass (in the Campus Activities folder) and on the Web (off the UMaine homepage: [www.ume.maine.edu](http://www.ume.maine.edu) or at the calendar website:

[www.ume.maine.edu/~paffairs/perspectiveweb/mastercalendar.html](http://www.ume.maine.edu/~paffairs/perspectiveweb/mastercalendar.html)).

## What's Ahead



### RAPE AND SEXUAL ASSAULT AWARENESS WEEK

September 28-October 2

### APO BLOOD DRIVE September 21-22

### PRESIDENT'S OPEN OFFICE HOUR September 29

### MAINE CRAFTS ASSOCIATION: ANNUAL JURIED COMPETITION October 2-November 21

### CLIMATE AND CULTURE AT 3,000 B.C. October 7-11

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

