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Photo by Monty Rand

\$1.25 Million Grant Funds Project Mainstay

In K-12 classrooms throughout central and northern Maine, you can hear the difference.

French. Passamaquoddy and Micmac. Spanish. Eighteen Asian, 12 African or nearly 50 other languages.

More than half of the state's bilingual students or those who have English as a second language (ESL) are enrolled in Maine's rural schools.

Dedicated teachers and tutors throughout Maine help to meet the needs of non-English heritage language students. However, in the northern two-thirds of the state, 82 percent of ESL/bilingual teachers do not have state endorsement in ESL or bilingual education. Moreover, until recently, no higher education institution in

Maine offered a complete ESL endorsement program for educators of limited English proficiency (LEP) and heritage language students.

Now a five-year, \$1.25 million Title VII grant under the U.S. Department of Education's Improving America's Schools Act (IASA) has been awarded to the University of Maine, in consortia with 12 local education administrations, to train pre-service and in-service educators who teach English as a second language (ESL) and bilingual students in central and northern Maine.

Project Mainstay is an educational reform initiative. Its goal is to create a training program that will serve as a "mainstay" for helping the state's school personnel provide an outstanding education for Maine's LEP and bilingual students, supporting teachers' efforts in implementing Maine's Learning Results by aligning them with the TESOL (teaching English as a second language) Standards and subsequently training teachers in this process.

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Heart Disease Risk Factors Reduce Mental Abilities

Analyses of data based on two long-running studies of cardiovascular disease and mental abilities such as learning, thinking and reaction time, are providing powerful evidence that untreated high blood pressure and diabetes result in lowered cognitive ability.

A team of UMaine psychologists working with physicians and epidemiologists at the State University of New York Health Science Center at Syracuse and the Framingham Heart Study has documented an association between major risk factors for stroke and heart disease, and age-related decline in cognitive abilities, as measured by neuropsychological tests.

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In Perspective

- 2** Commitment to Downtown Orono
- 10** Le Stagioni
- 11** Solar Vehicles

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



UMaine Contribution to Orono for Downtown Improvements

The University of Maine will contribute \$5,000 to the Town of Orono to support downtown improvement efforts.

The University's contribution targets a proposal by a group of Orono residents and business owners who are considering forming a development district to plan and carry out improvements. In addition to the University, the Town of Orono is providing financial assistance to support the effort. A public meeting to discuss the district is scheduled later this month in the town council chambers.

"Orono's downtown has many key elements that contribute to its attractiveness as a retail and business center," says UMaine President Peter Hoff. "Many of the businesses in downtown are tailored to – and are substantially supported by – members the University community.

"A vibrant, properly developed downtown benefits both Orono and the University", Hoff says. "It contributes to the economic stability of the community and also strengthens our ability to attract new students and faculty."

The success of the University and the town are closely linked, Hoff says. "I'm pleased to assist in the planning and development of new opportunities in the downtown area," says Hoff.

The money is part of a larger University commitment to help promote Orono's economic growth, says Hoff. Currently, the town and the University cooperate in local land use policies, educational initiatives and services such as wastewater treatment and emergency response. ▲

Topics Course Links Students in the U.S. and Middle East

A Web-based topics course on the United States and the Middle East has linked 15 students on campus and throughout Maine with eight of their peers in Egypt, taught by UMaine Associate Professor of Political Science Bahman Baktiari, who is at the American University in Cairo on a visiting professorship this academic year.

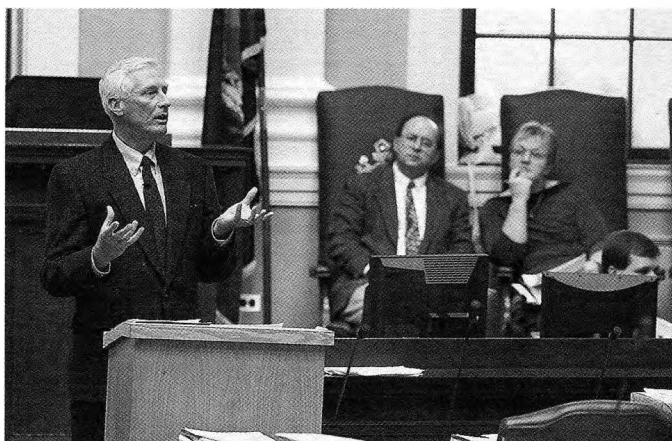
In many ways, POS 359 is a demonstration of the dynamics of distance education.

"In this course, Maine students had the opportunity to participate in on-line discussions with students in Egypt," says Baktiari, an internationally recognized specialist on parliamentary politics in the Mideast, with a major focus on Iran. "Topics included U.S. foreign policy in the Middle East; the role of Western media and reporting of news from the Middle East; U.S. Congress and the Middle East, U.S.-Iraq confrontation in 1990-1991, and the quest for peace between Israelis and Palestinians."

Last semester, students from Baktiari's class at the American University in Cairo engaged in a discussion over the causes of the EgyptAir crash, and how the U.S. media was reporting it. In addition, in the Bulletin Board of the course's Web page, there are more than 100 postings on subjects ranging from air pollution in Cairo to U.S. presidential elections.

Baktiari has taught the UMaine topics course since 1998, and first offered it as a Web course last year. He is again teaching POS 359 through the Division of Lifelong Learning this semester from Cairo, returning to UMaine this fall.

Baktiari has received a grant from the Ford Foundation to organize two workshops on Renewal in Moslem Societies. More than 15 prominent Islamic thinkers will take part in two days of discussions, comparing their national experiences. ▲



Jan. 11, UMaine faculty members George Jacobson, pictured above, Michael Vayda, and Timothy Dalton testified before a joint meeting of four committees of the state legislature about salmon restoration and the potential economic effects of a Endangered Species Act listing. Pictured in the background are state Rep. Matthew Dunlap of Old Town and state Sen. Marge Kil Kelly of Lincoln.

Photo by Monty Rand

White Papers Focus on State's Atlantic Salmon Concerns

An endangered species listing for the Atlantic salmon would likely result in new costs for the Maine aquaculture industry, according to a recent UMaine report, part of an effort by the College of Natural Sciences, Forestry, and Agriculture to make scientific information available to the public.

In addition to the white paper series, three UMaine professors addressed a special public hearing on the salmon listing at the Statehouse in Augusta Jan. 11. Faculty members Michael Vayda, George Jacobson and Timothy Dalton gave brief

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MAINE PERSPECTIVE PUBLISHING SCHEDULE

The spring publication schedule of *Maine Perspective* is:

Feb. 7 (copy deadline Jan. 26); Feb. 21 (copy deadline Feb. 9);
March 6 (copy deadline Feb. 23); March 27 (copy deadline March 8);
April 10 (copy deadline March 29); April 24 (copy deadline April 12);
May 8 (copy deadline April 26).

MAINE Perspective

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MAINE Calendar

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

JANUARY 26 – FEBRUARY 14

26 Wednesday

Add/Drop Continues, Jan. 26.

Outdoor Leadership Training, part of the Maine Bound Winter/Summer 2000 course offerings, Jan. 26. Admission Fee. Registration required by calling x1794.

Life, Work and Stewardship Workshop, an examination of what constitutes an undergraduate liberal education at UMaine, featuring keynote address by University of Maine System Trustee Esther Rauch, 2-4:30 p.m., Jan. 26, Bodwell Lounge, Maine Center for the Arts. Registration required by calling Faculty Senate, x1167.

"Communication Function of Metaphorical Expression by American Sign Language Users," by Barbara Millios, offered by the Department of Communication Sciences and Disorders, 5:15-6 p.m., Jan. 26, North Lown Room, Union. x2006.

27 Thursday

Add/Drop Continues, Jan. 27.

"Family Life in Rural Maine," featuring presentations by Mary Jo Sanger, Alice Mummé and Alice Smith, part of the Page Farm and Home Museum Brown Bag Lunch Program, noon, Jan. 27, Page Farm and Home Museum. x4100.

Women's Basketball: UMaine vs. Delaware, 7:30 p.m., Jan. 27, Alford Arena. Admission Fee. xBEAR.

28 Friday

Add/Drop Continues, Jan. 28.

Kick and Glide: Classic Style Cross Country Skiing, part of the Maine Bound Winter/Summer 2000 course offerings, Jan. 28. Admission Fee. Registration required by calling x1794.

Resume Writing: New Techniques, a Job Search workshop, offered by the Career Center, 2:10 p.m., Jan. 28, Third Floor, Chadbourne Hall. Sign up by calling x1359.

Men's Ice Hockey: UMaine vs. Boston College, 7 p.m., Jan. 28, Alford Arena. Admission Fee. xBEAR.

Friends of the Orono Public Library will hold a Book and Bake Sale Saturday, Jan. 29, 9 a.m.-3 p.m., Orono Public Library. Snow date is Saturday, Feb. 5.

For more information, call Judy Hakola, 581-3812.

29 Saturday

Introductory Frozen Waterfall Climbing, part of the Maine Bound Winter/Summer 2000 course offerings, Jan. 29-30. Admission Fee. Registration required by calling x1794.

Women's Basketball: UMaine vs. Towson University, noon, Jan. 29, Alford Arena. Admission Fee. xBEAR.

Men's Ice Hockey: UMaine vs. Boston College, 7 p.m., Jan. 29, Alford Arena. Admission Fee. xBEAR.

For the latest in event information for the University of Maine, see the Master Calendar on the Web: calendar.umaine.edu

30 Sunday

Kayak Rolling Pool Clinic, part of the Maine Bound Winter/Summer 2000 course offerings, Jan. 30. Admission Fee. Registration required by calling x1794.

Women's Ice Hockey: UMaine vs. McGill University, 1 p.m., Jan. 30, Alford Arena. Admission Fee. xBEAR.

Bangor Symphony Orchestra Concert, featuring works by Wagner, Elgar and Ravel, 3 p.m., Jan. 30, Maine Center for the Arts. Pre-concert preview by David Klocko, 2 p.m., Bodwell Lounge, Admission Fee. 942-5555.

31 Monday

"Educational Programs at Fields Pond Nature Center," by Judy Markowsky, part of the Wildlife Ecology Seminar Series, noon, Jan. 31, 204 Nutting Hall. x2862.

Effective Interviewing Techniques, a Job Search workshop, offered by the Career Center, 3:10 p.m., Jan. 31, Third Floor, Chadbourne Hall. Sign up by calling x1359.

Reception in Memory of Elizabeth Hill, a member of the Departments of Economics and Music from 1962-75, 4-6 p.m., Jan. 31, Bodwell Lounge, Maine Center for the Arts.

February

1 Tuesday

Video: On Ice, part of the Maine Bound Lunchtime Adventure series, Feb. 1, FFA Room, Union. x1794.

Resume Writing: New Techniques, a Job Search workshop, offered by the Career Center, 2:10 p.m., Feb. 1, Third Floor, Chadbourne Hall. Sign up by calling x1359.

High Impact Cover Letters, a Job Search workshop, offered by the Career Center, 3:10 p.m., Feb. 1, Third Floor, Chadbourne Hall. Sign up by calling x1359.

Application for May Degree Filing Deadline, 4:30 p.m., Feb. 1.

2 Wednesday

High Impact Cover Letters, a Job Search workshop, offered by the Career Center, 2:10 p.m., Feb. 2, Third Floor, Chadbourne Hall. Sign up by calling x1359.

3 Thursday

Career Fair 2000, featuring more than 80 employers and organizations, 10 a.m.-3 p.m., Feb. 3, Wells Conference Center. x1359.

"Defending Our Civil Liberties," issue briefings/grassroots skills training led by ACLU National Field Organizer Becky Dinwoodie, offered by the Maine Civil Liberties Union, 7-8:30 p.m., Feb. 3, Bangor Lounges, Union.

Performance by Tap Dogs, part of the Maine Center for the Arts performance season, 7 p.m., Feb. 3, Hutchins Concert Hall, Maine Center for the Arts. Admission Fee. x1755.

Hearts and Minds, part of the MPAC Peace and Justice Film Series, 7 p.m., Feb. 3, 100 Corbett Business Building. x3860.

Men's Basketball: UMaine vs. Vermont, 7:30 p.m., Feb. 3, Alford Arena. Admission Fee. xBEAR.

4 Friday

Avalanche Awareness and Rescue, part of the Maine Bound Winter/Summer 2000 course offerings, Feb. 4-5. Admission Fee. Registration required by calling x1794.

Dropping Courses for Refunds Ends, Feb. 4.

Kick and Glide: Classic Style Cross-Country Skiing, part of the Maine Bound Winter/Summer 2000 course offerings, Feb. 4. Registration required by calling x1794.

Electronic Job Search, a Job Search workshop, offered by the Career Center, 2:10 p.m., Feb. 4 121, Lengyel Gym. Sign up by calling x1359.

Men's Volleyball Club: UMaine vs. Colby College, 7 p.m., Feb. 4, Lengyel Gym. x1406.

5 Saturday

Backcountry Snowshoeing Overnight, part of the Maine Bound Winter/Summer 2000 course offerings, Feb. 5-6. Admission Fee. Registration required by calling x1794.

Women's Beginner Ice Climbing, part of the Maine Bound Winter/Summer 2000 course offerings, Feb. 5. Admission Fee. Registration required by calling x1794.

Students of UMaine Employees Reception, for UMaine employees and their children who are currently high school juniors or seniors, featuring buffet lunch, discussion and tickets to the Men's Basketball game, 11:30 a.m., Feb. 5, Bodwell Lounge, Maine Center for the Arts. Pre-registration required by contacting Sharon Buchanan, x1826.

Men's Basketball: UMaine vs. Hartford, 1 p.m., Feb. 5, Alfond Arena. Admission Fee. xBEAR.

6 Sunday

Women's Beginner Kayaking, part of the Maine Bound Winter/Summer 2000 course offerings, Feb. 6. Admission Fee. Registration required by calling x1794.

"Music in Terezin," a faculty recital by Phillip Silver, part of the School of Performing Arts Season, 2 p.m., Feb. 6, Minsky Recital Hall, Class of 1944 Hall. Admission Fee. x1755 Boxoffice.

7 Monday

X-C Classic Performance: Classic Style Cross-Country Skiing, part of the Maine Bound Winter/Summer 2000 course offerings, Feb. 7. Admission Fee. Registration required by calling x1794.

"Mapping Conservation Priorities for Birds at Risk in Latin America," by Kimberly Smith, University of Arkansas, part of the Wildlife Ecology Seminar Series, noon, Feb. 7, 204 Nutting Hall. x2862.

"Technology In Graduate Education: Dilemmas and Delights," informal roundtable discussions led by Sandra Caron presenting "Lessons from the First Weeks of a Web-Based Course"; Ed Jadallah, "Designing Web Materials to Support Instruction"; Sue Estler, "Through the Looking Glass: Coping with Change"; Paula Moore, "Behind the Glass Teaching: Why and How It Works";

Jim Chiavacci, "Understanding and Using ATM Technology," part of the Graduate Education Afternoon Tea Series, offered by the Graduate Affairs Committee of the College of Education and Human Development, 2-3:30 p.m., Feb. 7, 202 Shibles Hall. x2441.

Resume Writing: New Techniques, a Job Search workshop, offered by the Career Center, 3:10 p.m., Feb. 7, Third Floor, Chadbourne Hall. Sign up by calling x1359.

8 Tuesday

Free-Heeled Telemark Skiing, part of the Maine Bound Winter/Summer 2000 course offerings, Feb. 8. Admission Fee. Registration required by calling x1794.

Video: Beyond the Groomed, part of the Maine Bound Lunchtime Adventure series, Feb. 1, FFA Room, Union. x1794.

How to Find Internships, a Job Search workshop, offered by the Career Center, 2:10 p.m., Feb. 8, Third Floor, Chadbourne Hall. Sign up by calling x1359.

Effective Interviewing Techniques, a Job Search workshop, offered by the Career Center, 3:10 p.m., Feb. 8, Third Floor, Chadbourne Hall. Sign up by calling x1359.

9 Wednesday

Ski Wax Seminar, part of the Maine Bound Winter/Summer 2000 course offerings, Feb. 9. Registration required by calling x1794.

Winterfest, featuring demonstrations by Maine Bound, Recreational Sports activities, ice sculpture contest, Feb. 9, on the Mall. x1406.

Careers for History Majors, a Career Center seminar, 3:10 p.m., Feb. 9, Third Floor, Chadbourne Hall. x1359.

10 Thursday

"Navigating the Roiling Waters of the Global Economy," an International Community Breakfast featuring Gov. Angus King and Perry Newman, president of the Maine International Trade Center, offered by the World Affairs Council, 7 a.m. buffet breakfast, 7:45 a.m. program, Feb. 10, Wells Conference Center. Reservations required by calling 780-5383.

"Counseling in Speech-Language Pathology with a Multicultural Focus," by Pat Mercatis, offered by the Department of Communication Sciences and Disorders, 4-6 p.m., Feb. 10, Bangor Lounges, Union. x2006.

11 Friday

Kick and Glide: Classic Style Cross-Country Skiing, part of the Maine Bound Winter/Summer 2000 course offerings, Feb. 11. Admission Fee. Registration required by calling x1794.

Careers for English Majors, a Career Center seminar, 2:10 p.m., Feb. 11, Third Floor, Chadbourne Hall. x1359.

Men's Ice Hockey: UMaine vs. UMass-Amherst, 7 p.m., Feb. 11, Alfond Arena. Admission Fee. xBEAR.

12 Saturday

Katahdin Winter Ascent, part of the Maine Bound Winter/Summer 2000 course offerings, Feb. 12-13. Admission Fee. Registration required by calling x1794.

Scholar-Athletes Reception, followed by Women's Basketball game, with the scholar-athletes being honored at half time, 10:30-11 a.m., Feb. 12, Wells Conference Center. RSVP for reception by calling x1828.

Women's Basketball: UMaine vs. New Hampshire, noon, Feb. 12, Alfond Arena. Admission Fee. xBEAR.

Men's Ice Hockey: UMaine vs. UMass-Amherst, 7 p.m., Feb. 12, Alfond Arena. Admission Fee. xBEAR.

Trio Camerata in Concert, part of the School of Performing Arts Season, 7:30 p.m., Feb. 12, Minsky Recital Hall, Class of 1944 Hall. Admission Fee. x1755.

13 Sunday

Pool Self-Rescue - Sea Kayaking, part of the Maine Bound Winter/Summer 2000 course offerings, Feb. 13. Admission Fee. Registration required by calling x1794.

Snowshoe Day Hike, part of the Maine Bound Winter/Summer 2000 course offerings, Feb. 13. Admission Fee. Registration required by calling x1794.

14 Monday

X-C Skate Performance: Skate Style Cross-Country Skiing, part of the Maine Bound Winter/Summer 2000 course offerings, Feb. 14. Admission Fee. Registration required by calling x1794.

Women of the World Lunch, focusing on cuisine and culture from South of the Equator, noon, Feb. 14, Church of Universal Fellowship, 82 Main St., Orono. Admission Fee. x2905.

Ongoing Events

Exhibits/Demonstrations/Tours

Sequences, a Museum of Art exhibit, through Feb. 26, Carnegie Hall. x3255.

The Only Woman on Board: The Legacy of Seafaring Wives, a Museum of Art exhibit, through Feb. 26, Carnegie Hall. x3255.

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

Meetings of Groups/Organizations

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

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

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

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

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

Maine Time Conversations, every Wednesday, 2-3 p.m., Bangor Lounge, Union. x1734.

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

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

Yoga Groups - for Stress Management and Fitness, Fridays, noon-1 p.m. (except during spring break), Jan. 28-May 19, Dexter Lounge, Alfond Arena. x4014.

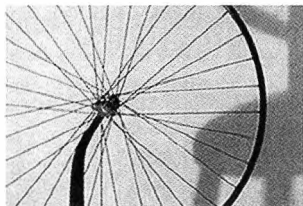
Gallery Glimpses

Sequences of Art

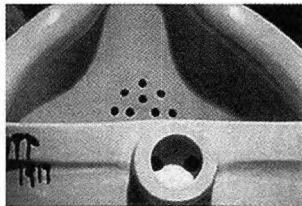
The 29 artists of *Sequences* are of divergent sensibilities, different nationalities and disparate ages. What they have in common is a conceptual and practical interest in the series – a device that allows them to construct a serial narrative while leaving visible the possibility of change; to establish context while alluding at its incompleteness; to suggest an ongoing presence while calling attention to absence; to reflect a vision of the world in which truth is as likely to be found in the space between things as in the things themselves.

The artists represented in *Sequences*, on exhibit through Feb. 26 in the Museum of Art, are participating in an entirely contemporary art practice, but they also are exercising an ancient tradition. Richard Long's *River Avon Mud Drawings* are semi-automatic records of natural history, apparently abstract images that also carry overtones of scientific demonstrations illustrated and reproduced in print. Bernd and Hilla Becher photograph quintessentially modern sites of industrial decay, but their attention to taxonomic display harkens back to ancient bestiaries and botanies. Elaine Sturtevant's *Duchamp* studies and Hanne Darboven's triple set of synthetic marble read not simply as self-contained triptychs, but as excerpts from larger catalogues.

The *Sequences* collection of 78 prints in more than 12 different techniques – from woodcut to etching to grano lithograph – forms a concentrated survey of contemporary graphic art at the end of this century.



Duchamp Triptych, 1998 (detail)
Elaine Sturtevant



Women on the High Seas

The Only Woman on Board: The Legacy of Seafaring Wives features the turn-of-the-century photographs and words of Alice and Sumner Drinkwater of Yarmouth. The exhibition, on display through Feb. 26 in the Museum of Art, includes 20 photographs, printed from the original negatives, taken during the couple's seafaring journeys around the world.

Sumner Drinkwater (1859-1942) was captain of the barque *Grace Deering* from 1897-1903. His wife, Alice (1861-1915), often accompanied him at sea. On one such voyage (January 1898-March 1899), the Drinkwaters rounded the Cape of Good Hope, visiting Australia, Singapore and St. Helena island before returning the same way. Both Sumner and Alice kept diaries.

It was quite common during the 19th century for a captain's wife to accompany her husband to sea. As "the only woman on board," she had to balance the pressures of being both a loving and devoted wife, and observing the strict rules that defined gender roles during the Victorian age.

The Drinkwaters' diaries and photographs, discovered in 1978 by artist and historian Julianna Free, give an unprecedented look into the personal lives of Sumner and Alice, and the seafaring culture of their time.

The exhibition also includes historical artifacts related to the *Grace Deering*.



Cold Morning (Edge of the Field) #2, 1999
Turpentine Wash
Michael H. Lewis

An exhibit of 26 paintings by Michael H. Lewis, *The Spirit of Winter*, is on display through Feb. 27 in the Square Gallery of the Museum of Art, Colby College. The paintings were completed last spring while Lewis was on sabbatical. In his artist's

statement, Lewis notes that the inspiration for the new works came from his awe of winter's subtle beauty. He found himself "surprised by the intensity of the emotions and the breadth of the associations that this exploration of the season provided." The point of departure for the paintings is the physical landscape; they are about the experience of "mystery" and about transcending limitations. Lewis says he would like his paintings to invite the viewer to "proceed from the specific reality of the external, physical landscape into a space that is at once more intensely personal, mysterious, and perhaps mystical (spiritual)."

CAREER FAIR 2000

Thursday, Feb. 3 10 a.m.-3 p.m. Wells Conference Center
Presented by the Career Center and the

Collegiate Chapter of the American Marketing Association

Featuring more than 80 employers and organizations, including New England Environmental Paid Internship Program; DeLorme; IBM Microelectronics; United Way of Eastern Maine; Americorps; IDEXX Laboratories; Cabletron Systems; Maine Medical Center; Bangor Daily News; Maine State Government Internship Program; Harding, Lawson Associates; U.S. Fish and Wildlife; State Street Corp.; Fairchild Semiconductor; Liberty Mutual Information Systems Group.

All faculty, staff and students are welcome and encouraged to attend the fair. For more details, see the Career Fair database on the Web: www.ume.maine.edu/~career, or call the Career Center, 581-1359.

Winterfest

WEDNESDAY, FEB. 9 9 A.M.-4 P.M. ON THE MALL
Sponsored by the Center for Students and Community Life
and various student organizations

Winterfest 2000 is a celebration to start the new semester and year.

It also celebrates winter in Maine

and the many ways to enjoy the outdoors this time of year.

The day will feature music, information about student groups, demonstrations and recreational activities.

Try cross-country skiing, snowshoeing and volleyball.

Get instruction in winter camping and other Maine Bound activities.

A snow sculpture contest will feature entries by student groups.

Prizes will be awarded throughout the day to activity participants.

For more information or to get involved,

contact Joanne Arseneault, Maine Bound, 581-1794

SNOW LINE AVAILABLE

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

People in Perspective

In the Division of Lifelong Learning, distance education has come a long way – fast – via the Internet.

The first two Web-based courses debuted through distance education in 1997. Last fall, 24 CED Web courses were on-line (www.ume.maine.edu/ced/de/). This spring, course offerings include 41 Web classes.

The number of registrations for CED Web courses is double what it was last year.

Keeping pace with the increasing demand by students and faculty for distance education courses delivered with Web-based technologies is a team of three media specialists in the Division of Lifelong Learning – Justin Hafford, Son Thai and Man-Ching Lee.

“This is an effective means of delivering Lifelong Learning opportunities to more people,” says Hafford, the instructional multimedia specialist. “With our facilities and technology, we can offer more customized programming to help our students who want and need flexibility in the accessibility of their educational options.”

Offering courses via the Web provides students the flexibility of accessing class materials day or night by bringing the campus to them – wherever they may be. In addition, the asynchronous instruction allows students and faculty to accomplish their goals independently.

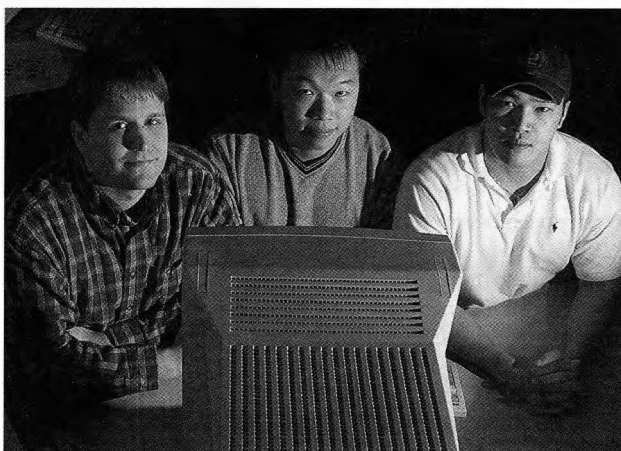
“We are providing educational opportunities closer to home for our students. Any UMaine students can take Internet courses from their homes over breaks or if they decided to take a semester off, they can now still participate in classes. With Web courses, we’re addressing the needs of a population we may have been unable to serve otherwise.”

Hafford graduated from UMaine with a degree in psychology in 1997. As an undergraduate, he worked in multimedia through ASAP, the student organization that has since become an interdisciplinary unit of the College of Liberal Arts and Sciences. In the year following graduation, Hafford was a Web developer at NASA Ames Research Center, Moffett Field, Calif.

He joined Lifelong Learning in August 1998 and began establishing the infrastructure to technologically support the distance education needs of faculty and students in the Division of Lifelong Learning. That involved interfacing with existing resources – UNET of the University of Maine System, UMaine’s Information Technologies and ASAP. It also included tapping students in the University community to assist in building Lifelong Learning’s technology foundation. Hafford coordinates a student staff that has grown from four to 14.

As a result, in the past year Lifelong Learning’s technology team has moved beyond administrative support to include networking, Internet course development, marketing and publishing, and new models of communication, such as audio and video streaming on the Web.

As staff associate of digital marketing and technology, Lee helps faculty develop on-line courses, but more importantly Lee



Justin Hafford, Son Thai and Man-Ching Lee

Photo by Monty Rand

has developed a new approach to digitally market all CED’s programs and courses. For example, the spring 2000 CED catalog was published in digital and traditional format in the *Bangor Daily News*. Lee’s marketing plan involves creating a catalog-request Website, submitted to more than 1,300 search engines worldwide; running campus television and radio ads; and disseminating information via FirstClass, the Alford Stadium electronic bulletin board, and a monthly newsletter (subscribe by e-mail: Newsletter@umit.maine.edu).

Lee joined the UMaine community as an international student. He received a bachelor’s degree in electrical engineering in December 1998, and joined Lifelong Learning the following month.

“The most crucial development in CED’s digital marketing effort has been the addition of a new online registration process,” he says. “Last year, 179 students had registered by Dec. 8; this year, 848 had signed up for CED classes by that date. Students register on line for classes in much the same way Internet users shop on line, adding courses to a virtual backpack rather than a shopping cart.”

Nationwide, there has been a huge increase in Web courses, says Thai, who received bachelor’s and master’s degrees in business from UMaine in 1997 and 1999, and worked as a graduate assistant with CED before joining the staff last year. “It has to do with the growth of the Internet, and more people having access to personal computers.”

As staff associate for administration and technology, Thai primarily provides technical support for faculty, students and the administration in the Division of Lifelong Learning. He also manages Lifelong Learning’s toll-free help line: 877-947-HELP.

The help line was established a year ago to answer students’ questions and provide technical support for Web-based courses. In the first two weeks of CED classes each semester, Thai and two graduate students answer more than two dozen calls daily.

The most-asked question from students is how to log into their classes, says Thai. “We talk to students who just got their computer out of the box and are just figuring out how it runs, and we talk to students having trouble logging on to the Internet. But once they find the course on the Web, they usually are OK. We provide any help we can, like spending an hour and a half on the phone with a student in (Washington) D.C., because if students are not happy with the technical support, they probably will not take a Web class again.”

Because CED students “get to class” electronically, says Hafford, access to course Websites and electronic resources is critical. “If we don’t provide the technical support in a timely fashion, students are essentially not in class for a week or so. We are their link to the University and the support services they need.”

Likewise, the team supports faculty in Web-based courses, offering as little or as much faculty development as needed.

Center Stage

School of Performing Arts



Phillip Silver

Photo by Monty Rand

Music in Terezin

During the Holocaust, a number of esteemed Eastern European musicians were imprisoned at Terezin Concentration Camp. There, under horrific conditions, they composed remarkable works of art that continue to speak to and about the enduring human spirit.

The works of four of those artists will be performed in a concert Sunday, Feb. 6 at 2 p.m., Minsky Recital Hall, by pianist Phillip Silver and

three other members of the School of Performing Arts faculty.

The pieces also will be featured on Maine Public Radio's "Live at 11" with Dave Bunker on Tuesday, Feb. 1.

For Silver, who lost members of his family in the Holocaust, bringing "Music in Terezin" to the stage is his way of ensuring that the people and the past are not forgotten. As an artist, Silver is honoring the memories and the music of the two murdered in Auschwitz and two who died in forced labor camps.

"I find it difficult to separate the music from the circumstances under which it was composed," says Silver. "In the midst of complete horror, the human urge for survival, beauty and communication comes through. It is an example of the human spirit refusing to bow down."

Gideon Klein, whose *Piano Sonata* will be performed by Silver, was 23 when he was sent to Terezin and had not yet established his career as a composer. Viktor Ullmann, whose music was known and performed prior to his incarceration, said his writing in the camp "was commensurate with his will to survive." He wrote 25 works, including an opera, in a two-year period.

Ullmann's *Piano Sonata No 7 in D Major* was completed two months before he died in the gas chambers of Auschwitz. Along with this work, Silver, with soprano Nancy Ogle, will also perform a second Ullmann work, *Six Sonnets de Louise Labé*. This work was composed for his wife Elizabeth, who also perished in Auschwitz.

"Through such music, we find messages and codes being passed between the prisoners," says Silver. "Symbolism permeates the music."

Like Ullmann, Pavel Haas had a composing career prior to incarceration, with a number of his works conducted by major conductors in Europe. One of Haas' works, composed immediately after the Nazi occupation of Czechoslovakia, *Suite for Oboe and Piano*, an impassioned work of defiance, will be performed by Silver and oboist Louis Hall.

The concert also includes the only work known to exist by Robert Dauber, *Serenata for Violin and Piano*, performed by Silver and violinist Anatole Wieck. The Nazis allowed a cafe to be formed, and Dauber wrote salon music.

Works by the other composers were composed for permitted musical/cultural series utilized by the Nazis as part of an elaborate hoax to quash rumors of the the atrocities being committed at other camps, and present Terezin as a typical example of concentration camp life. ▲

Learning Circles to Meet

Teams of UMaine faculty, staff and students will meet this semester to investigate aspects of teaching on campus.

These groups of five to eight people include individuals from three or more colleges or campus units, and at least one person who is new to the University. The groups are meeting as part of Learning Circles 2000, a project of the Center for Teaching Excellence to encourage discussions about teaching at UMaine.

Eleven Learning Circle proposals were funded by the Center. Proposals were reviewed by Ryan Carnegie, graduate student in Marine Sciences; Virginia Nees-Hatlen, associate dean of the College of Liberal Arts and Sciences; Sherman Rosser, executive director for University Recruitment; and James Berg, director of the Center for Teaching Excellence. Funding for the Learning Circles 2000 program comes from the Adelaide C. and Alan L. Bird Fund for the Improvement of Teaching Quality through the Office of the Provost and Vice President for Academic Affairs.

Learning Circle participants will share their work with the campus community in May 2000.

The project leaders and projects are:

- ▼ James Leck, Office of International Programs, "Meeting the Challenge of Teaching in an Intercultural Classroom"
- ▼ Jean MacRae, Civil and Environmental Engineering, "Identifying Techniques to Help At-Risk Students in the Classroom"
- ▼ Kim McKeage, Business, Public Policy, and Health, "Recruiting and Supporting Women in Non-Traditional Fields"
- ▼ Stephen Whittington, Hudson Museum, "Teaching Diversity Through Objects"
- ▼ Carolyn Bennett and Kristin Langellier, Communication and Journalism, "Race Matters in Teaching and Learning"
- ▼ Sharon Barker, Women's Resource Center, "Challenges that Face Women Teaching Primarily Men"
- ▼ Estella Williams Chizhik, Education and Human Development, "Infusing Multicultural and Global Issues into Undergraduate Education Courses"
- ▼ Carlos Islam and Chris Mares, Intensive English Institute, "Using Conferencing Technology to Impact the Learning of English by International Students"
- ▼ Sandra Caron, Education and Human Development, "Development of a Concentration or Minor in Gay, Lesbian, Bisexual Studies" ▲



UNIVERSITY OF MAINE

Office of the President

5703 Alumni Hall
Orono, Maine 04469-5703
207/581-1512

Dear Colleagues:

The World Affairs Council of Maine and I invite you to attend the 6th annual Governor's International Community Breakfast on Thursday, Feb. 10, at Wells Conference Center from 7:45 -9 a.m. Please join Gov. King, who will report on the Trade Mission to Taiwan and Hong Kong, where he, business leaders and a government delegation represented Maine. Also, Mr. Perry Newman, President of the Maine International Trade Center, will describe the changes occurring in Maine's immersion in the turbulent global business environment.

Registration forms for "Navigating the Roiling Waters of the Global Economy," can be obtained at the World Affairs Council of Maine, P.O. Box 9300, Portland ME 04104-9300, by telephone: 780-5383, or by e-mail: lendreson@wacmaine.org. The form, along with payment, must be received by Friday, Feb. 3.

I look forward to seeing you there on the 10th.

Sincerely,

Peter S. Hoff
President

Computer Composites

Making wood fiber composite materials usually requires pulping machines, presses and other industrial equipment. Huaijun Wang, graduate student in Wood Science, is constructing composites using only a computer. He is creating a computer model that simulates the structure of these materials based on the characteristics of individual fibers and fiber-to-fiber interactions. His model will be tested against actual laboratory experiments. This virtual model could be used to investigate new composite material designs or to improve paper production. Wang is a member of the Advanced Engineered Wood Composites Center and works in collaboration with Stephen Shaler in the Department of Forest Management and AEWEC.

On Solid Ground

The soil beneath our feet contains most of the ingredients for life. Jennifer Evans, a graduate student in the Department of Plant, Soil and Environmental Sciences, is studying how disturbances in the environment such as acid rain, forest fire or forest harvesting, can affect those ingredients. Such disturbances could also alter the role that forest ecosystems play in sequestering carbon under a changing climate. Evans is analyzing the ratios of carbon and nitrogen in soils at research sites in Acadia National Park, Lead Mountain in Hancock County and Weymouth Point in Piscataquis County. In general, she found that 10–50 years after disturbances, only small changes in the amounts of carbon and nitrogen in the soil are evident. She also found that the quality of soil organic matter changed, particularly in upper soil layers. Her results are useful in understanding how land management affects the balance of carbon in soil and atmosphere.

Martens and Managed Forests

Land management impacts on wildlife are a major factor in forest conservation discussions. Angela Fuller, a graduate student in the Department of Wildlife Ecology, has been studying the relationship between pine marten and tree harvesting systems in an industrial forest west of Baxter State Park. Working with Dan Harrison, professor of wildlife ecology, she trapped and radio collared about 60 marten in an effort to track their use of mature, clearcut and partially cut forests. She found that marten avoid recent clearcuts during winter and summer, despite clearcuts having high concentrations of snowshoe hares, a winter staple of the marten. Marten prefer partially cut and mature forests about equally during the summer. During the winter, they increase their use of mature forests and expand their range to include less partially harvested forest and more mature forest. Previous work by Harrison and others has found that marten prefer stands with large amounts of woody debris and at least 30 percent canopy cover. Their results indicate that marten will continue to occupy managed forests until the combined percentage of clearcuts is less than 35 years old and partial harvest exceeds 40 percent of the landscape.

Maya Forest Lands

Archaeologists estimate that the northern lowland rainforest of Guatemala used to feed a population of more than 1 million people about 1,000 years ago. Although the area was sparsely populated in the 1960s (about 25,000), the population has recently grown to around 500,000. Dan Hayes, a graduate student in Forest Management, is studying the use of satellite imagery to detect changes in the landscape of a protected area known as the Maya Biosphere Reserve. He is working with Steve Sader, professor of forest management who specializes in remote sensing applications. Analyses of images from two decades indicate what types of forest lands are being cleared for slash and burn agriculture and pasture. The project is being conducted in cooperation with the government of Guatemala and conservation organizations with financial support from the U.S. National Aeronautics and Space Administration.

FACULTY TECHNOLOGY STIPENDS

The Department of Information Technologies announces the availability of \$15,000 for Faculty Technology Stipends. The stipends awarded will range from \$1,000–\$2,000 and are intended to support interested faculty members in the research and development of technology-based resources for their courses.

Proposals are solicited for projects that produce direct and significant improvement in undergraduate teaching and learning by using technology. Faculty members, with or without computer skills, are encouraged to present proposals to integrate technology applications into the curriculum. Collaborative projects are also encouraged. Technical assistance and resources will be available at IT's new Faculty Technology Development Center located in 108 East Annex.

Eligibility: All faculty who will be teaching at the University in the academic year 2000/2001 are eligible to apply.

Procedure: An attached application form and project description should be submitted.

The proposal must include description of the project; discussion of expected results; impact on the process of learning for students enrolled in the course.

Upon completion of the project, each grant recipient will be required to participate in the Faculty Technology Fair, which will be held in November. At the fair, recipients will present their projects to colleagues and share results with other members of the campus community. A written report on the results must be submitted to the Department of Information Technologies. Reports should include the evaluation of results of your project in terms of affected courses, number of students reached, and the impact on your course pedagogy.

Deadlines: proposals – March 17; project completion – Aug. 31; final report – Sept. 30.

Send your proposal and application to Andrei Strukov (andrei@umit.maine.edu), Faculty Development Center, 108 East Annex. Telephone: 207-581-1925. Visit us at <http://www.ume.maine.edu/tech>

To apply on-line, visit <http://www.ume.maine.edu/tech>

SPEAKERS BUREAU AND SPECIALISTS 2000 AVAILABLE

Each year the University of Maine compiles a list of its personnel who are specialists in their fields, including many who are available to speak to groups and organizations. The free guide, Speakers Bureau and Specialists List 2000, lists over 200 speakers covering more than 500 topics in subject areas, as well as 110 specialists in 318 areas of expertise. To obtain a copy of Speakers Bureau and Specialists List 2000 or for more information, call 581-3743, or visit the Website: www.umaine.edu/speakersbureau.

STUDENTS OF UMAINE EMPLOYEES RECEPTION

*For parents of high school juniors or seniors
Offered by the Office of Enrollment Management
**Saturday, Feb. 5, 11:30 a.m.,
Bodwell Lounge, Maine Center for the Arts***

The Office of Enrollment Management is again hosting a reception for UMaine employees and their sons/daughters who are currently high school juniors or seniors. The program is intended to establish a dialog between prospective UMaine students, their parents and current University students. The Feb. 5 program includes a buffet lunch and panel discussion, and concludes with complimentary tickets to the Men's Basketball game, UMaine vs. Hartford, at 1 p.m., Alford Arena. Call 581-1826 or 581-1572 for more information.

The CUTTING EDGE

University of Maine Research on the Frontiers of Science

Galactic Halos

Researchers at the University of Maine and Cornell University have recently simulated a process that sheds light on the nature of the dark matter in galactic halos.

Using computer simulations, Thomas Zeltwanger and Neil Comins at UMaine, and Richard Lovelace at Cornell University, have reproduced the shapes and various details of off-center spiral galaxies created when galaxies rapidly pass each other. The motions of the stars and gas in their model support the belief that lopsided spiral galaxies are sloshing in halos of dark matter.

By studying the behavior of such galaxies, researchers hope to help determine the nature of these as-yet-unseen galactic halos.

The results of this research were presented earlier this month to the American Astronomical Society in Atlanta.

Lopsided spiral galaxies have spiral arms and interstellar gas and dust that are not distributed uniformly around the bright center, or nuclear bulge, of the galaxy. Galactic halos are distributions of dark matter in which galaxies are embedded.

Observations reveal that up to 90 percent of a typical galaxy's mass is in its halo. Astronomers infer the existence of halos by their observed gravitational effects on visible matter, but the nature of the halo matter is still under investigation.

Observations reveal that a third of all spiral galaxies may have lopsided spiral structures. Such galaxies include M 31, located 2.9 million light years away in the constellation Andromeda; M 33; 3.0 million light years away in the constellation Triangulum; M 101, located 27 million light years away in the Ursa Major; NGC 4486B, located 50 million light years away in the constellation Virgo; and K64, located 200 million light years away in the constellation Andromeda, among many others.

The simulations give strong evidence that when the visible stars, gas and dust in the disk respond to a passing galaxy more readily than does the dark matter, the spiral galaxy's visible matter is pulled off-center, creating lopsided galaxies. Dark matter that is relatively hot moves rapidly and responds relatively little to the gravitational tug of a passing galaxy.

Since stars and cool gas in a galaxy respond more strongly than the halo, these latter elements are pulled slightly away from the halo as the other galaxy passes. Simulations reveal that as the galaxies move away from each other, stars and cool gas swirl back to the halo's center. Had the dark matter all been of the proposed cool variety, then the halo would be shifted by the other galaxy's gravity as much as the visible stars and gas. In that case, the observed sloshing of stars and gas does not occur. Results of the simulations suggest that at least some of the dark halo matter in disk galaxies is of the proposed hot, rapidly moving variety. This result needs to be verified by further simulations and observations.

These simulations also suggest that this spiraling process can create knots of gas and stars, such as those seen in the galaxy M83, located 15 million light years away in the constellation Hydra. The overall motion of the stars and gas swirling back into the halo center also appears to help maintain the galaxy's spiral structure, which otherwise washes out into a more uniform disk.

By determining the time since an encounter between galaxies, scientists may be able to determine the distribution of halo matter from the lopsided appearance of the spiral galaxy. The researchers have also discovered that central bars of stars, found in many spiral galaxies, can be suppressed by the swirling motion of the stars and gas moving back into place in the halo.

However, they find that the presence of massive black holes,

which have been observed in a growing number of galaxies, including our own Milky Way, can actually cause the formation of a bar where one wouldn't exist. By understanding the composition and dynamics of galaxies, astronomers hope to be able to infer more information about their as-yet-unseen components.

Cross-Pollination Study

The chance of cross-pollination between corn plants in the field, whether produced by traditional breeding practices or by genetic engineering, is small for plants in close proximity to each other and quickly drops to zero with increasing distance, according to a recent UMaine study.

The study was conducted by John Jemison, an agronomist and water quality specialist with Cooperative Extension, and Michael Vayda, professor in the Department of Biochemistry, Microbiology and Molecular Biology.

Two corn varieties, including genetically modified (GM) Roundup Ready corn, were grown at the University's Rogers Farm. Some of the GM corn was cut down by vandals last August after plants had finished shedding their pollen. Offspring (seeds) from the non-genetically modified corn were grown in the Roger Clapp Greenhouse to determine if any cross-pollination had occurred between the Roundup Ready corn and the non-GM corn.

Results of the study indicate that, in hybrid corn grown downwind from the Roundup Ready plots, there was about 1 percent cross-pollination in the first six rows within 100 feet of the Roundup Ready corn. In the middle six rows, the frequency dropped to 0.1 percent, and in the last six rows the frequency dropped to 0.03 percent. No cross-pollination was found in corn 1,000 feet away.

Only plants immediately downwind of the Roundup Ready corn exhibited significant cross pollination.

The results of the study indicate that a 1,000-foot buffer or border rows adequately protect organic corn crops from neighboring crops of genetically modified varieties, says Jemison.



UMAINE

Show Your Colors

NEW DINING SERVICE HOURS FOR SPRING 2000

In order to better serve our customers, Dining Services is announcing some enhancements for Spring 2000.

Dining Services has unified and extended serving hours in all dining commons, in addition to increasing services at select locations.

All dining commons, Monday-Friday

Breakfast 7-10:30 a.m.

Continental Breakfast 9-11:30 a.m.

Lunch 11 a.m.-2 p.m.

Dinner 4:30-7 p.m.

Stewart and York Commons, Saturday-Sunday

Brunch 11 a.m.-2 p.m.

Dinner 4:30 -7 p.m.

Bear's Den, 7 a.m.- 10 p.m., Sunday-Friday; 7 a.m.-Midnight, Saturday;

Damn Yankee, 8:30 a.m.-6:30 p.m., Monday-Friday;

Union Coffee Shop, 7-2 a.m., Monday-Friday; noon-2 a.m., Saturday-Sunday; **M.C. Fernald's**, 7 a.m.-2 p.m., Monday-Friday; **Hilltop & South**

Side Markets, 10:30 a.m.-11 p.m., Monday-Saturday

Le Stagioni



Nikita Pogrebnoy, Weronika Knapik, Patricia Shih and Inna Nassidze

Photo by Monty Rand

Last year at this time, violinist Patricia Shih was giving concerts in Germany and violinist Weronika Knapik was studying at the Conservatory in Mainz.

Cellist Inna Nassidze was completing her fifth year at the Curtis Institute of Music and headed to a concert career in New York City.

Nikita Pogrebnoy was finishing his scholarship studies at the Longy School of Music in Massachusetts, and his first year as assistant principal violist with the Portland Symphony Orchestra.

That's when the University of Maine/Bangor Symphony Orchestra String Quartet program came into their lives.

Since last fall, UMaine has been home to four of the most exciting young string musicians in the world. The four students are here as the first of four music graduate students selected for the debut of the UMaine/BSO String Quartet program, sponsored by the University of Maine School of Performing Arts and the Bangor Symphony Orchestra.

For two years, students receive free tuition and a stipend as the School of Performing Arts Graduate String Quartet, and as members of the string section of the Bangor Symphony Orchestra.

The quartet also performs off campus, representing both the School and the Symphony as it travels to public schools and communities for live performances.

The UMaine/BSO Quartet, publicized internationally, attracted numerous applicants from around the world. Applications for the four graduate positions were reviewed by School Director Diane Roscetti and Associate Professor of Music Anatole Wieck, and by Christopher Zimmerman, Bangor Symphony music director and conductor. Winners joined the University community in September.

"All four are consummate musicians who have a great deal of training, awards and experience," says Roscetti, who was instrumental in the creation of the UMaine/BSO String Quartet program. "They are all committed to a full-time career in performance, which at this time they hope to be a professional quartet of international acclaim. They have such a zest for life and are really enthusiastic.

"It is important to have the state's land-grant university working with a major community organization like the Bangor Symphony. This program provides educational opportunities to schools and communities in Maine."

The formation of the quartet represents a new chapter in the professional lives of all four performers, who up until now have had solo careers. The effects of this new musical experience in Maine is already evident in the name they chose for their group –

Le Stagioni Performance Schedule

Jan. 26	Performance, "Live at 11" with Dave Bunker, Maine Public Radio
Feb. 3	School Clinics, Mount Desert
Feb. 5	Arts Institute of Western Maine Concert, Farmington
Feb. 10	School Workshops, Mount Desert
March 24	School Workshops, Deer Isle-Stonington
April 9	Performance, St. John's Church, Bangor
April 18	Performance as part of the UMaine Chamber Music Recital with Diane Roscetti and Anatole Wieck
April 25	School Workshops, Machias
April 27	Recital, University of Maine

Le Stagioni, Italian for "the seasons" – and their excitement in having the artistry of four musicians from different parts of the world "now combined into one whole, a quartet."

What audiences will hear when the four take the stage is a depth of musical talent that has cultivated and matured in some of the finest music schools and venues in the world.

"There is such a great repertoire for quartet. But it also is so different from performing solo and expressing yourself," says Shih, 28, who grew up in Canada and is based in Toronto. "In a quartet, you have to listen to everyone else. It requires more communication.

"When we first played together, I thought our sounds all blended," says Shih of the quartet's first professional recording session, which has been made into a promotional CD. "We communicated right away. Our musicology is important in how we understand each other. That will come across when people hear us performing as a quartet."

Shih was 4 when she started playing violin like her older sister, Anne. At age 5, Patricia came to the attention of the world when she was invited to perform the Bach *Double Concerto*. After years of winning international competitions, Patricia debuted in Carnegie Hall at the age of 15.

continued on page 14

Two UMaine Solar Vehicles Expected at the Tour de Sol Starting Line This Year

In the years to come, sophomore Mark Stanley of Searsport plans to have a job related to his degree – and an electric car to get him there.

"I joined the University of Maine Solar Vehicle Team because I have always liked the idea of an electric car," says Stanley, a sociology major. "One thing that I have decided is that my first car is going to be an electric car."

Stanley is one of 10 students from different academic disciplines who are helping design and build a solar-powered car, dubbed UMO – Unidentified Moving Object.

The UMO, being constructed from the ground up using a truck frame and suspension, and a lightweight shell, will be at the starting line of the American Tour de Sol 2000 in New York City this spring with the Solar Black Bear, UMaine's first solar-powered vehicle.

In its first competition last year at the American Tour de Sol, the Solar Black Bear took two first-place awards in the Solar Commuter Class and in the Solar Fraction category. This semester, the race is on to repeat history in the upcoming rally and competition from New York to Washington, D.C., May 12-18, before an expected global audience of 200 million.

"In this project, students gain an understanding of how a solar-powered system works, including the simplicity of components that come together," says Paul Van Steenberghe, a mathematics instructor and Solar Vehicle Team coach. "They also learn a lot about teamwork, interpersonal communication, and promotional skills like writing letters for fund raising. These are the tougher lessons – real world lessons."

Van Steenberghe and the campus group he advises, the Student Environmental Action Coalition, built a solar-powered three-wheel bicycle two years ago. Their interest in developing an even more sophisticated solar-powered vehicle as the cornerstone of a sustainable transportation system led them to the Bio-Resource Engineering Program.

"We were one of the few schools that ever prepared a solar vehicle and won in the same year," says Ben Dresser, laboratory coordinator for Bio-Resource Engineering who, with Van Steenberghe, teaches and advises the students working on the Solar Vehicle Team. "While many competitors built cars from the ground up, creating everything from brakes and suspension to steering, our job was to combine reliable, off-the-shelf parts that didn't normally come together."

The Solar Black Bear is a 1987 Chevy pickup, donated by Bangor Hydro-Electric, that was converted into a solar-electric, zero-emissions vehicle. In addition to the Tour de Sol, the Solar Black Bear was driven daily from May 1-Nov. 1 to collect data on its efficiency. In those six months, the solar vehicle traveled 3,500

miles, 40 percent of which were "free" miles, provided by energy from the sun.

The UMO will be a more car-like vehicle, with more agility and power from 52 batteries and 14 solar panels, compared to the Black Bear's 24 batteries and 12 solar panels. It is estimated that the UMO will have the ability to travel 200 miles on a single charge.

Like last year, the students are not only designing and building the new solar vehicle and updating the Solar Black Bear, but they also are undertaking fund-raising activities and promotional campaigns. The students need to raise at least \$20,000 to buy the materials, solar panels and batteries needed for the UMO. They raised \$16,000 last year to get the Solar Black Bear ready for competition. Team members paid their own expenses to participate in the Tour de Sol, sleeping in tents along the race route to save money.

"This is not only a good program but another way we can integrate students into activities to enhance their education," says Bruce Wiersma, dean of the College of Natural Sciences, Forestry, and Agriculture. ▲



The 43rd year of the Congressional Internship Program of the Department of Political Science now includes a state legislative component for UMaine students. This spring semester, four students will intern full time in the offices of Maine's Congressional delegation in Washington, D.C., and one part-time in a Congressional district office; and three students will intern two days a week in leadership and staff offices of the Maine legislature. Associate Professor Tim Cole, standing at far right, is interim chair of the Department of Political Science. Professor of Political Science Ken Palmer, standing third from the left, is coordinator of the Internship Program, which he has directed since 1969. Students selected to participate in this year's program are, left to right, standing, Dan Parkinson of Kennebunk, a junior majoring in political science who is interning in the legislative office of House Minority Leader Thomas Murphy; Ryan Eslinger of Kittery, a senior majoring in political science, interning in the legislative office of Senate President Mark Lawrence; Matthew Allen of Bradford, a sophomore majoring in electrical and computer engineering and minoring in political science, interning in Sen. Olympia Snowe's office; Kathleen Burke of Appleton, a senior majoring in political science, interning in Sen. Susan Collin's office; Ed Gilman of Hollis, a junior majoring in political science, interning in Rep. John Baldacci's office; Karen Henry of Skowhegan, a junior majoring in political science, working in a Congressional district office; seated left to right, David Roach of Sydney, a senior majoring in political science, who was recommended for an internship in Augusta; Christine Anuszewski of Kennebunkport, a senior majoring in political science, also interning in the legislative office of House Minority Leader Thomas Murphy; and Victoria Curtis of Eddington, a senior majoring in political science, interning in Rep. Tom Allen's office.

Photo by Monty Rand

The University of Maine Alumni Association is taking Black Bear pride to WALT DISNEY WORLD - APRIL 17-24

Join family, friends and UMaine alumni

\$925 per person, based on a party of four; prices vary with party size;

Alumni Association members receive \$50 off each package.

(\$150 refundable deposit required; bookings must be paid by Feb. 15)

Prices include round-trip airfare from Portland, ground transportation from airport to hotel, accommodations for seven nights, six-day Park Hopper Pass.

For information and reservations, call the University of Maine Alumni Association, 581-ALUM or 1-800-934-ALUM.

Heart Attack Risks *continued from page 1*

With data from two of the nation's longest-running studies of such risks, these investigators have obtained strong evidence for several important relationships:

- ▼ hypertension (high blood pressure) and diabetes are independently associated with an accelerated decline in cognitive functioning with advancing age
- ▼ untreated blood pressure levels in mid-life are associated with decline in cognitive ability many years later
- ▼ the risk of lowered cognitive functioning doubles in the presence of both hypertension and diabetes, and increases even further in the presence of smoking and obesity

Diabetes and hypertension are the key risk factors that drive these relationships.

"Prior to the Framingham study," says Merrill Elias, UMaine professor of psychology, "conventional wisdom said that high blood pressure might benefit sustained levels of cognitive functioning in old age because it maintained blood flow in the brain. People were operating on the idea that a rise in blood pressure was probably inevitable as you got older and might even be good for you. The idea is that it was essential for blood flow and brain oxygenation in old age. This is of course not true.

"Lowering blood pressure at all ages results in a dramatic decrease in prevalence and incidence of stroke. Now we know that these risk factors for stroke, hypertension and diabetes are associated with more rapid decline in cognitive ability over the life span. Further, we know that lowering of cognitive performance in hypertensive diabetics is probably exacerbated by obesity and cigarette smoking," says Elias.

UMaine scientists involved in the projects include Elias, also adjunct research professor of medicine and public health, Boston University; Michael Robbins, senior research associate and cooperating associate professor of psychology; and Penelope Elias, adjunct associate professor of psychology and senior research associate in mathematics and statistics, Boston University.

Longest-running UMaine study

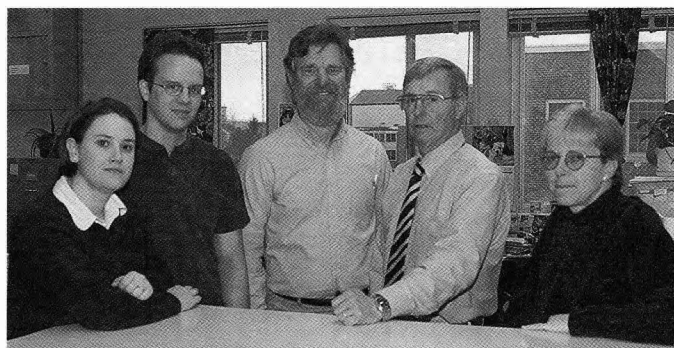
Evidence that blood pressure is a predictor of cognitive ability has been accumulating for more than two decades through one of UMaine's longest-running research projects. Known as the Maine-Syracuse Studies of Hypertension and Cognitive Functioning, it has enrolled 2,000 men and women, ages 17-90 years old, from the Syracuse, N.Y., area and Maine. It has been supported by grants from the National Institute on Aging (NIA) of the National Institutes of Health (NIH).

The project was started in Syracuse in 1975 by Merrill Elias and David Streeten, professor of medicine. Michael Robbins and Penelope Elias joined the study in 1981. It has been funded every year since 1977, most recently with \$311,177 from NIA in 1999. This work firmly established that high blood pressure is a risk factor for lowered cognitive ability.

In 1990, the research team decided to study additional cardiovascular/stroke risk factors in relation to cognitive ability. In 1991, with supplemental funding from the National Institute on Aging, the Maine research team obtained data from the Framingham Heart Study on a large sample of subjects who had never been treated for hypertension. The objective was to obtain more data on diabetes, obesity and cigarette smoking. They worked closely with Philip Wolf (neurology) and R.B. D'Agostino (epidemiology and biostatistics) at Boston University.

"Whether we use measures from the Framingham Study or the Maine-Syracuse study, we get the same result," says Elias. "Decline in cognition is strongest with high blood pressure and diabetes, and less strong with the other two factors."

About 85 percent of the Maine-Syracuse participants are from



Seniors Nicole Derosie and Brent Bingaman are working with UMaine faculty researchers Mike Robbins and Merrill Elias on hypertension and cognitive function research, with support from Kathy McAuliffe. *Photo by Monty Rand*

the Syracuse area. When they entered the study and again every five years, they received an extensive examination for hypertension and related risk factors (diabetes, obesity, smoking), and a battery of neuropsychological tests. Participants are being enrolled up to the present.

As a result, the Maine-Syracuse project has created one of the longest running and extensive data bases on blood pressure and comprehensive measures neuropsychological test performance in the world.

The Framingham Heart Study began in 1950 with a group of about 5,000 participants. Extensive medical data on cardiovascular risk factors have been obtained every two years. A battery of neuropsychological tests was first given to 1,799 of the subjects in 1968 and every two years since then.

Study results have been published in *Hypertension*, the *American Journal of Epidemiology*, *Psychosomatic Medicine*, *Health Psychology*, *Journal of Gerontology* and *Psychology of Aging*, and have been reported at professional meetings, including those of the American Heart Association.

"It appears that as the number of risk factors goes up, cognitive functioning goes down," Elias adds. "We must keep in mind, however, that effective treatment or prevention practices can delay or prevent accelerated cognitive decline associated with cardiovascular risk factors. Our data, and data from other investigators, should provide an additional incentive for people to control hypertension, diabetes, cigarette smoking and obesity through good health practices or medical treatment."

Decline is gradual

As demonstrated through neuropsychological tests, the decline in thinking abilities is gradual over time. "We are talking about hypertension and diabetes as insidious predictors of gradual and subtle decline in cognitive ability," Elias says. "Pathophysiological changes associated with hypertension and diabetes take many years. So do the cognitive changes associated with them."

As their sample population grows older, the Eliases, Robbins and their colleagues intend to pursue the relationship between reductions in cognitive functioning and the eventual onset of dementia and Alzheimer's Disease.

"It has been hypothesized, although it is yet unproven, that uncontrolled or poorly treated diabetes and hypertension may ultimately progress to dementia in some individuals, but not others. This may be the most exciting area of behavioral science research in the future. We hope that our data will encourage this line of investigation and that we can be part of this effort."

The team has already begun to extend collaborative work to include investigators at Oxford University, England, who are working on cardiovascular risk factors and dementia. ▲

Project Mainestay *continued from page 1*

"We will be helping teachers network so that they can share strategies, questions and concerns, and solid programmatic information on curriculum reform and materials development," says Tina Passman, chair of the Department of Modern Languages and Classics. "The need is very great. Teachers need support and pragmatic tools for language education in the classroom."

"The value for the individual student is high," Passman says. "Students who are less English proficient will feel validated in their own home language, rather than feeling wrong and different. The message to that student's classmates is that the heritage language is a positive difference, that it is good to have knowledge of more than one culture in a global society. If you multiply that by the students in all grades, and by all the LEP or Franco or Native language families, the great benefit is in more tolerance and understanding."

Passman, Franco-American Centre Director Yvon Labbé and Intensive English Institute Director Janis Williamson are co-principal investigators on the grant, which provides \$250,000 a year for the next five years. The natural collaboration brings to bear the expertise of three of the state's leading organizations in language and diversity education.

The Intensive English Institute, established in 1989 and the only program of its kind in New England north of Boston, has increasingly been involved in teacher training. Its programs have included training TESL educators from abroad, and pre-academic training programs for college-bound international and ESL resident students.

The Department of Modern Languages and Classics offers classes in languages, literatures and cultures to prepare UMaine students for a global society. The Department is committed to enhancing bilingual education in the schools and supporting teachers' efforts in implementing the Learning Results for Modern and Classical Languages.

The Franco-American Center at the University of Maine supports bilingual education programs in Maine schools and at the University. Through the years, it has recognized Franco-American legislators who fought to overturn a state statute that prohibited the use of any language but English in Maine schools. Working with the Governor's office and members of the legislature, the Centre has developed research and economic development initiatives that will make the Maine Franco culture and language resources available to business and tourism.

"Maine is finding value in identifying and developing these resources for economic development as awareness is raised regarding the state's francophone neighbors — more than 10 million — and la 'francophonie du monde,'" Labbé says.

The groundwork for Project Mainestay is found in the bilingual programs in the state's Franco communities of the St. John Valley. In Madawaska, where there is a deep-seated community interest in bilingual education in the schools, the federally funded program "L'Acadien du Haut St. Jean" has received national recognition for excellence.

Now through Project Mainestay, the University will take a leadership role in advocating and supporting bilingual education efforts statewide. Project Mainestay will coordinate teacher training with the IASA Title VII-funded "L'Acadien du Haut St. Jean."

In addition to helping build the capacity to provide the educational training language and mainstream teachers need to help bilingual and ESL students, the grant is helping to reverse the trend of total assimilation and language loss. The Franco-American bilingual model is expected to be the model for other heritage language groups.

"If the model is successful, viable and inclusive, we can share

our knowledge and experience with other communities. The community-based approach like the one in Madawaska is one which other Maine cultural communities may want to replicate. Native American educators have indicated interest. A common goal is to educate people within their identity and their (bilingual and cultural) assets," says Labbé, of the nearly 40 percent of Maine's population who are of French Canadian descent.

Equally important to the grant are the ESL needs of teachers and other education personnel in the grant's consortia of schools and Maine Indian Education. Eventually, the project will work with any Maine school with existing and emerging bilingual or ESL education needs.

"There has not been a lot of attention given to ESL students in Maine to help them be successful and participate in the English-speaking culture. We are trying to reach those children and the districts where needs are greatest through this teacher training grant," says Williamson.

"Often LEP students get assigned tutors and are pulled out of classes rather than using an approach to allow ESL or LEP students to participate in content learning that is managed in a way that is accessible to those still learning English. We hope to enable tutors and mainstream teachers to work together to facilitate this," Williamson says.

For more than a year, Passman has joined other educators on a Maine Department of Education committee to develop materials to assist teachers working with ESL and bilingual students. "We are putting together an ESL toolbox that consists of basic documents and models for teachers with LEP students," says Passman. "Such materials will allow us to reach teachers when and where they need it. For example, the kit will contain cultural information enabling teachers to help guide learners coming from a wide range of backgrounds."

Training through Project Mainestay will be for pre-service and for in-service teachers in language education and in any discipline who may have bilingual or ESL students in their classes. A goal is to increase the number of teachers who receive state endorsement for ESL or bilingual education by offering graduate coursework.

In addition, workshops will bring together educators and community members in an effort to support an education that respects and nurtures the heritage of Maine's LEP students and their families.

"A question is how to effectively involve communities to ensure the kind of education they want for their children," says Williamson. "The bilingual project in Madawaska is a model of such community involvement. But ESL populations are so varied, not only in languages and cultures but in perspectives. We want parents and community leaders to participate to better understand their children's needs. A long-term goal is to educate communities and all in the schools to more fully understand the challenges students are facing in ESL or bilingual situations."

As more teachers are trained and develop in ESL and bilingual education, they will be able to make students with differences feel at home, which supports the basic principles of diversity, Passman says.

"In years to come, I hope Maine will have several more bilingual programs. I hope students who come to school less English proficient than their peers because of immigrant or migrant status feel welcome. The basic awareness of the importance of language teaching and learning will be acknowledged, and we will see Maine begin to come into its own in terms of global awareness of cultural differences, and how those differences can enrich us." ▲

Le Stagioni *continued from page 10*

Patricia entered Indiana University when she was 14, joining her sisters Anne, 18, a violinist and pianist, and Connie, 12, a pianist. After studies with Josef Gingold, she received a graduate degree in music six years later.

"I love the sound of the violin," says Shih, who also plays piano. "It is close to the sound of the singing voice. The violin is so much a part of my life, it is like an extension of my body."

For Knapik, 28, of Poland, it was an older brother studying piano and percussion who introduced her to music. She started on the piano, then moved to the violin. From her mentors, Knapik says she learned "to be spontaneous and express myself in a free way as a musician. I learned to have the courage to say what I want in my music."

Knapik was in Germany at the Hochschule in Mainz for three-and-a-half years with Patricia's sister, Anne. The UMaine/BSO String Quartet program was an opportunity for her to do something new with her career. It also is her first experience living in the United States.

Nassidze began improvising on the piano at age 3. She took up the cello, the instrument her father plays, at 7. When she was 15, her family moved from the former Soviet republic of Georgia to Mexico, where her parents are professional musicians. Beginning in 1994, Nassidze studied under David Soyer at the Curtis Institute of Music. Also at Curtis Institute was Patricia's sister, Connie, whom Nassidze performed with for five years.

"I never doubted that I was on the right track," says Nassidze of her music. "My life would not be fulfilled unless I was doing what I am now."

Nassidze graduated from Curtis Institute in May and was on her way to New York to begin her concert career. The UMaine/BSO Quartet program was an opportunity to combine her solo career with chamber music.

Nassidze performs with a cello willed to her by Raya Garbousova. Garbousova was a world-renowned Russian concert cellist and a professor with whom School of Performing Arts Director Diane Roscetti studied in graduate school.

"The quartet sound – the feeling of four instruments – is unbelievable," says Nassidze, 25. "I was expecting something less when we came together to play for the first time. We played like we'd been together for years."

"First thing I said when I called home was that nature is beautiful in Maine," says Nassidze. "It is the perfect place for making music, with its quiet, space, and inspiring and calming beauty."

"I'm used to big cities like Philadelphia," Nassidze says. "New York is hard, with the extra pressure that affects playing. Here, you just look at the colored leaves and you can't be nervous."

Pogrebnoy started playing piano at age 5. A year later, he switched to the violin. His father, an engineer, was a professional musician in his youth.

"My father wanted me to be a musician," says Pogrebnoy, 26, who grew up in St. Petersburg. "From him I learned the aspects of music. Even today, I know I can trust his opinion about my playing."

At age 15, Pogrebnoy turned to the viola, an instrument he appreciates for its deeper sound. "Compared to the violin, it also suits my personality – more calm, laid-back."

Pogrebnoy spent five years at the St. Petersburg Conservatory, where his graduate work was done with A.V. Liudewig. Beginning in 1997, he studied with Michael Zaretsky at Longy School of Music, Cambridge, Mass.

He has performed with the Portland Symphony for the past two years.

"This is what I want to be – a chamber musician," says Pogrebnoy.

Shih and the others admit that Le Stagioni, the professional name this first quartet in the program will go by when it records and enters international competitions, is "a new experience, full of the unknown." And it is a unique opportunity, bringing four rising stars together based on their talent, aspirations and fate.

"I have lots of hopes for this group, not just for the two years we're here but for longer," says Shih. "We can see the potential and we're very optimistic."

"We do it for the love of music," says Shih. "The music I play takes the place of language. I can say so much more with music. After a concert, I have a feeling of completeness, of giving myself to the audience. When you can take the audience to that ethereal world, it is such an inspiration."

Music is not materialistic but spiritual, and there is no limit to it, Nassidze says. "There is no small or big concert; it doesn't matter if you're performing for 100 or for two people. They all are equally important."

"Maine audiences can expect to hear what we feel – enthusiasm for the music," Nassidze says. ▲

Media Spotlight

Camire Interviewed for National Restaurant Newsletter

Mary Ellen Camire of the Food Science and Human Nutrition faculty was interviewed for the National Restaurant Association newsletter about functional food ingredients from the sea. She pointed out that shark cartilage is used in dietary supplements and that sea cucumbers are gaining popularity in some restaurants. In addition, she noted that UMaine faculty member Denise Skonberg has shown that a crustacean shell derivative called chitosan, which has been used as a weight-reduction aid, can also be used to extend the shelf life of fresh seafood.

Jagels in Wall Street Journal

Richard Jagels of the Forest Biology faculty was quoted in a Jan. 18 *Wall Street Journal* story on an ongoing dispute between "sentimentalists" and "conservationists" on Monhegan Island. One group wants to continue the tradition of building shelters, from sticks, moss and the like, in the woods. According to local legend, the shelters serve as a place for forest "fairies" to live. The other group is concerned about damage to the forest. Jagels talked about how long it takes for moss to grow back.

Hatlen Part of A&E "Biography"

Stephen King was the subject of "Biography," the A&E Network television program that aired nationwide Jan. 17. The program included an interview with UMaine Professor of English Burton Hatlen, and included video of the campus.

Segal in New York Times

A letter from Professor of History Howard Segal was published in the Dec. 23 *New York Times*. The letter was a response to a column about turn-of-the-century American utopian novels. Segal wrote that the columnist ignored "the many pessimistic, or dystopian, writings of the same period."

Orr Interviewed by Los Angeles Times

Nellie Orr, assistant professor of kinesiology and physical education, interviewed with the *Los Angeles Times* for a story about careers in kinesiology, fitness and wellness, particularly in the corporate sector.

Milardo in Daytona Beach News-Journal

Robert Milardo, professor of human development and family relations, interviewed this month with the *Daytona Beach News-Journal* for a story about fatherhood, roles, rights and other related issues, being pursued in covering a local custody battle.

O'Connor in The Scientist

The Jan. 10 issue of *The Scientist* includes a letter written by Raymond O'Connor of the Wildlife faculty. The letter, which is a response to an article on the scarcity of major science awards to women, can be found on the Web: www.the-scientist.library.upenn.edu/yr2000/jan/let2_000110.html

Mei Jiang, graduate student, and **Richard Jagels**, professor of forest ecosystem science: "Detection and Quantification of Changes in Membrane-Associated Calcium in Red Spruce Saplings Exposed to Acid Fog," *Tree Physiology*, 19(14):909-16 (1999).

John Moring, professor of zoology, Department of Biological Sciences: two book reviews in *Journal of the West*, 38(4) (1999) – *Oil, the State, and Federalism: The Rise and Demise of Petro-Canada as a Statist Impulse*, by J.E. Fossum, University of Toronto Press, p. 99 (1997); and *The History of the Haverstock Tent Show: The Show With a Million Friends*, by R.L. Wyatt, Southern Illinois University Press, p. 113 (1997).

Ramesh Gupta, professor, Department of Mathematics and Statistics, co-authored with **S. Ramakrishnan** and **Xingwang Zhou**, former graduate students: "Point and Interval Estimation of $P(X < Y)$: The Normal Case with Common Coefficient of Variation," *Annals of the Institute of Statistical Mathematics*, 51(3):571-84 (1999).

Frederico Fonseca, graduate research assistant with the National Center for Geographic Information and Analysis and doctoral student in Spatial Information Science and Engineering, and **Max Egenhofer**, director of the National Center for Geographic Information and Analysis, College of Engineering's Libra professor, associate professor in Spatial Information Science and Engineering, and cooperating associate professor in computer science: "Sistemas de Informação Geográficos Baseados em Ontologias," *Informática Pública*, 1(2):47-65 (1999).

Pete Doucette, graduate research assistant with the Department of Spatial Information Science and Engineering; **Peggy Agouris**, assistant professor with the Department of Spatial Information Science and Engineering; **Mohamad Musavi**, professor with the Department of Electrical and Computer Engineering; and **Anthony Stefanidis**, research assistant professor with the National Center for Geographic Information and Analysis: "Automated Extraction of Linear Features from Aerial Imagery Using Kohonen Learning and GIS Data," *Lectures Notes in Computer Science*, 1737:20-33, Springer Verlag.

Steven Colburn, associate professor of accounting: "Hold on to Special-Use Valuation Estate Tax Savings," *Practical Tax Strategies*, 63(6):340-52 (December 1999).

Lora Lindyberg, program director, and **Keith Lancaster**, director, Maine Center for Coaching Education: "Sports, Schools and Learning: Program Helps High School Students Prepare for Work, Higher Education and Citizenship," *Interscholastic Athletic Administration*, 26(1) (Fall 1999).

Jeffrey Wilhelm, associate professor of literacy education: "Reading & Writing Workshop: Focus on Drama," *Instructor* magazine, (November-December 1999). In addition, book review of *Literacy in a Digital World: Teaching and Learning in the Age of Information*, by Kathleen Tyner, (Lawrence Erlbaum Associates, 1998), *Educational Computing Research*, 20(4) (1999).

Deborah Rogers, professor of English, review of Susan Greenfield & Carol Barash, eds., *Inventing Maternity: Politics, Science, and Literature, 1650-1865*, in *Eighteenth-Century Fiction*, 12:113-15 (October 1999).

V O L U M E S

Recent Works by University of Maine Authors



The Guru's Gift: An Ethnography Exploring Gender Equality with North American Sikh Women

By Cynthia Mahmood and Stacy Brady
(Mayfield Publishing Co. 2000)

The Guru's Gift is an ethnography focusing on the concerns of young Sikh women in North America who are interested in asserting their rights. It highlights the voices of 13 young women finding their way through the competing traditions of Punjabi and North American culture.

The ethnography is the result of a collaborative research effort by Associate Professor of Anthropology Cynthia Mahmood, and Stacy Brady, who was an undergraduate majoring in education. Brady graduated last May as co-valedictorian, and outstanding graduating student in the College of Education and Human Development, and the Department of Anthropology.

The unique student-mentor relationship between the two authors, as well as the relationship between the authors and the women they interviewed, is discussed throughout the text. The ethnography is described as a forum for Sikh women and an experiment in pedagogy.

Book Ends

New & Noteworthy at the University Bookstore

Miss Wyoming, Douglas Coupland, Pantheon (1999). From the bestselling author of *Generation X* and *Microserfs*, *Miss Wyoming* is a smart, funny, fast-paced mystery with a heartfelt American romance at its core. Susan is a former child beauty pageant contender. John is a hard-living movie producer. She walks away from a plane crash without so much as a scratch. He comes away from a near-death experience with a unique, vivid plan. With the help of a blackmailing pageant mom, a pair of suburban eggheads, a rust belt refugee, and others, John and Susan search for love. Douglas Coupland combines the literary and the popular in a sparkling and witty caper.

Mr. Spaceman, Robert Olen Butler, Grove Press (2000). With *Mr. Spaceman*, Pulitzer Prize-winning author Robert Olen Butler has created a magical and humorous contemporary fable that captures the state of humanity at the cusp of a new millennium, as seen through the uniquely sensitive perspective of an empathetic extraterrestrial. The night before the turn of the millennium, a tour bus bound for a Louisiana casino is suddenly beamed inside a spaceship hovering high above the Earth. As its 12 passengers emerge nervously from the vehicle, they come face-to-face with the being who has brought them aboard, a 16-fingered zoot-suited alien named Desi. In the next 24 hours, Desi will seek their help as he readies himself for the final phase of the mysterious mission he has travelled across the galaxies to fulfill. *Mr. Spaceman* is a tribute to the power of love and dreams; a funny, touching, and unforgettable novel by one of America's most acclaimed authors.

Chocolat, Joanne Harris, Penguin (1999). When beautiful, unmarried Vianne Rocher sweeps into the pinched little French town of Lansquenet on the heels of the carnival and opens a gem of a chocolate shop across the square from the church, she begins to wreak havoc with the town's Lenten vows. Her uncanny ability to perceive her customers' private discontents and alleviate them with just the right confection coaxes the villagers to abandon themselves to temptation and happiness, but enrages the local priest. Certain that only a witch could stir such sinful indulgence, Reynaud pits himself against Vianne and vows to block the chocolate festival she plans for Easter Sunday, and to run her out of town forever. Loaded with interesting characters, wit and charm, humor and wisdom, *Chocolat* is a delight.

Other Notes:

▼ Last day for Spring Semester Textbook Refunds – Feb. 8
▼ Spring Semester Extended Hours: Monday-Thursday, Jan. 24-27 – 8 a.m.-6 p.m.; Friday, Jan. 28 – 8 a.m.-4:30 p.m.; Saturday, Jan. 29 – 10 a.m.-4 p.m.; Monday-Thursday, Jan. 31-Feb. 3 – 8 a.m.-5 p.m.; Friday, Feb. 4 – 8 a.m.-4:30 p.m.; Saturday, Feb. 5 – 10 a.m.-4 p.m.

COMMEMORATING THE CORNERSTONES OF DISCOVERIES

A commemorative calendar highlighting 115 years of research for Maine and its people, is available free of charge from the Maine Agricultural Experiment Station. The theme, "accomplishments of the past form the corner-



stones for discoveries yet to be made," features both old and new photos focusing on various research activities (past and present) at sites throughout the state and at the University of Maine. Copies are available by contacting Judy Round, 581-3229, judy.round@umit.maine.edu.

In September, **William Baker**, professor of history, delivered four public lectures at New College, University of New South Wales, Sydney, Australia. Within the general theme, "If Christ Came to the Sydney Olympics," Baker suggested that Christ would recognize many quasi-religious rituals and mythologies in the Olympics; he would affirm the athletic pleasures of the flesh, but would

denounce Olympism's tendency to make false gods of materialism, patriotism and sport, and would especially chafe at the hucksterism that exploits the Olympics for the propagation of fundamentalist Christianity. The *Sydney Herald* invited poetry submissions beginning with "If Christ came to the Sydney Olympics . . .," and published several dozen (mostly humorously irreverent) on the eve of the first lecture. Within the week, Baker was interviewed twice by the Australian Broadcasting Corp., and by four other radio stations. In addition, in the fall, Baker was interviewed by ESPN in New York City for a program on Jesse Owens as one of the outstanding athletes of the 20th century.

Pete Doucette, graduate research assistant with the Department of Spatial Information Science and Engineering, was awarded a Maine Space Grant Consortium NASA/EPSCoR Fellowship, to work on "Automated Extraction of GIS Features from Remotely Sensed Imagery" under the supervision of **Peggy Agouris**, assistant professor with the Department of Spatial Information Science and Engineering.

Gary Schilmoeller, associate professor of child development and family relations, **Kathryn Schilmoeller**, adjunct assistant professor of human development, and **Marc Baranowski**, associate professor of human development, presented a poster, "Creating Community for Families with a Rare Disorder: The Case of Agnesis of the Corpus Callosum," at the annual meeting of the National Council on Family Relations in Irvine, Calif., Nov. 12. In addition Gary and Kathryn Schilmoeller facilitated a meeting of families who have a member with agnesis of the corpus callosum at the Lee Travis Institute for Biopsychosocial Research, Fuller Graduate School of Psychology, Pasadena.

Peggy Agouris, assistant professor, Department of Spatial Information Science and Engineering, and **Anthony Stefanidis**, research assistant professor, National Center for Geographic Information and Analysis, were invited to give a presentation on their research activities in digital image analysis and geospatial data management, Nov. 23, Bureau of Labor Statistics, Washington D.C., to representatives from various federal agencies, including National Science Foundation, National Imagery and Mapping Agency, U.S. Geological Survey and Bureau of Census.

Several women connected with the University of Maine spoke at the 14th Annual Women's Studies Making the Connections (En)Gendering Technology Conference, Nov. 13. **Rhea Côté Robbins** of the Franco-American Women's Institute, spoke on "Teaching on the Web." **Nancy Lewis**, Fogler Library reference librarian, presented a panel, moderated by **Ann Schonberger**, Women in the Curriculum and Women's Studies Program director, "Libraries and Gendered Technology." **Sue Estler**, associate professor of education, presented "Through the Looking Glass: Observations While Graying on the Impact of Technology on Teaching and Learning"; Sandra Haggard, associate professor of biological sciences at University College, Bangor, presented "The Greening of Women's Studies"; **Tina Passman**, associate professor of classical language and literature, and department chair, spoke about "Weaving the Web: The Center Is Where You Are"; Phyllis VonHerrich spoke on "Gender and Technology: The View from a Distance Student." **Carol Toner**, research associate/assistant professor of history, presented "High-Tech Women's Studies: Connecting Maine Women," and **Claire Sullivan**, associate professor of communication, presented a workshop, "Cancer Support Groups in Cyberspace: Are There Gender Differences in Message Themes?" **Mary Madden**, doctoral student, and **Sharon Barker**, Women's Resource Center director, spoke on "Female Engineering Students: Denial of Gendered Experiences and Investment in Meritocracy."

Margo Lukens, associate professor of English, presented a paper, "Wabanaki Literary History: Writers and Storytellers of the Past One Hundred Years," at the American Literature Association's conference on Native American Literary Strategies for the New Millennium, Nov. 13, Puerto Vallarta, Mexico.

Marcella Sorg, research assistant at the Margaret Chase Smith Center and faculty associate in Nursing and Anthropology, and **Marilyn London**, research collaborator at the Smithsonian Institution, presented "Careers in Physical Anthropology" at the 27th annual Canadian Association for Physical Anthropology meeting, Wu Conference Center, University of New Brunswick, Fredericton, Nov. 3-6.

Bonnie Blagojevic, adjunct instructor for the College of Education and Human Development, presented "More Early Childhood Connections: the Internet and Early Childhood Educators" as part of a preconference panel presentation at the National Association for the Education of Young Children Conference, Nov. 10, New Orleans. In addition, Blagojevic participated in an evening "One on One" session, Nov. 11, showcasing the NAEYC Technology Caucus Website project "Technology and Young Children," which she helped develop. Blagojevic is curriculum coordinator at The Sharing Place Child Care Center, Orono.

Literacy Professors **Jan Kristo** and **Rosemary Bamford** were participants at the Books and Breakthroughs - Literature, Science, and Math Conference, sponsored by the Maine Reading Association, Maine Science Teachers Association and Association of Teachers of Mathematics in Maine, Dec. 1, Rockport. Their presentation was "Checking Out Nonfiction - Choosing the Best for Math and Science."

Sharon Gilbert, post-doctoral research associate at the Center for Community Inclusion, presented "Students to Teachers: Transitioning Our Own," at the 15th Annual Division for Early Childhood International Early Childhood Conference on Children With Special Needs Conference, Washington, D.C., in December. The presentation covered a mentoring program originated by Gilbert at the University of South Alabama in which upper-level students in the Department of Special Education mentor lower-level students through the undergraduate process.

This year's recipients of the Dow and Griffie Graduate Student Awards Competition, sponsored by the Maine Agricultural and Forest Experiment Station, are **Jill Fegley**, a Ph.D. candidate in Ecology and Environmental Ecology; **Angela Fuller**, an M.S. candidate in Wildlife Ecology; and **Ann Querry**, an M.S. candidate in Wildlife Ecology.

Mark Lutz, professor of economics, attended the Associated American Law Schools Conference in Washington, D.C., Jan. 5-9, where he was a participant on several panels dealing with law and economics, and presented a paper, "Some Thoughts on Corporate Law and Responsibility." Lutz also attended the Allied Social Science Association Meetings in Boston, Jan. 7-9, where he presented a paper, "On the Norm of Equality."

Professor **Jay Bregman**, History, attended the annual meeting of the American Academy of Religion/Society of Biblical Literature, Boston, Nov. 20-23, where he presided at a panel of the Platonism/Neoplatonism Group on "Contemporary Encounters With Neoplatonism: Levinas and Plotinus." Bregman has completed two years of his second five-year term as co-chair of the group, responsible for Ancient/Modern thought. Co-chair duties are shared by Willemien Otten, Department of Theology, University of Utrecht, Netherlands, responsible for Medieval/Renaissance thought.

The History and Anthropology Departments were especially well represented at the 33rd annual meetings of the Society for Historical Archaeology in Quebec City, Jan. 4-9. Professor **Alaric Faulkner** of the Anthropology Department presented a paper, "Reassessing the Boundaries of Early Acadia: Archaeology at the Richard Foxwell House 1633 to 1636." In addition, two graduates of the Historical Archaeology M.A. Option in History were in attendance and presented papers: **Leon Cranmer**, now of the Maine Historic Preservation Commission, discussed his recent work on the archaeology of "The Shaker Community at Sabbathday Lake"; **Emerson Baker**, now assistant professor of history at Salem State College and author of a recent biography of Sir William Phips, chaired a symposium dealing with the infamous Phips expedition against Quebec in 1690. Baker also presented the paper, "The Archaeology of 1690, The Year of Living Dangerously in New England." Finally, recent undergraduate **Matthew Palus**, now in the Applied Anthropology Master's Program at the University of Maryland, spoke on "Tourism, Nostalgia, Legitimization and Meaning in the John D. Rockefeller Jr., Carriage Road System, Acadia National Park, Maine." Also in attendance were current M.A. candidates in historical archaeology, **David Klinge** and **Shannon Wright**.

Beth Wiemann, assistant professor of music in the School of Performing Arts, was awarded the 1999 Orvis Prize in Vocal Composition by the University of Hawaii. Her work, *Four Ambitions*, for soprano, clarinet and piano, will be premiered March 8 in Honolulu at the Music21C Festival of new music, hosted by the University of Hawaii. Submitted to the competition were 75 works from composers representing Austria, Italy, Poland, Belgium, Sweden, Greece, Germany, Slovakia, Russia, Scotland, Hungary, Canada, Iceland, Argentina, Ukraine and Hong Kong, as well as 24 states of the United States. Other works of hers will be performed this spring in the "Spring in Havana 2000" Festival, 92nd St. Y in New York, by the Larry Parsons Chorale in Clarksburg, W.V., and by members of the U.S. Marine Band in Washington, D.C.

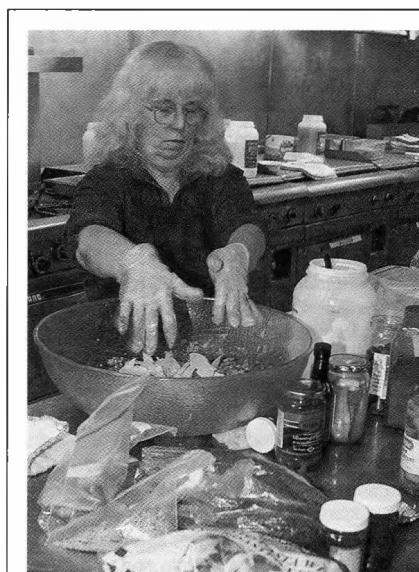
Dorothy Breen, associate professor of counselor education, gave a presentation, "Play Therapy with Adolescents," at the Maine Play Therapy Association conference, Nov. 6, Gorham.

College of Education and Human Development faculty and graduate students participated in the National Council of Teachers of English annual convention, Nov. 18-23, Denver. Giving presentations were: Professors **Rosemary Bamford** and **Janice Kristo**, with doctoral students **Sandip Wilson** and **Suzanne Kaback**, "Shaping, Sharpening and Scaffolding Nonfiction Learning through Specific Read-Aloud Procedures"; **Evelyn Beaulieu**, director, Center for Adult Learning and Literacy, "Lessons From Away: A Family Literacy Model from Northern Maine"; Professor **Brenda Power**, "Living the Questions: How Teacher Researchers Develop Literacy Research Questions"; and with Old Town public school teachers/UMaine adjunct faculty **Mary Bagley** and **Kerri Doyle**, "Insights from On-Site: Lessons from Preservice Literacy Methods Courses Taught in Schools"; Associate Professor **Jeff Wilhelm**, "To Make Reading Visible" and "Boys and Books." Wilhelm also was session leader and consultant for Middle Mosaic, special sessions for middle level educators, on the topics, "Response to Literature: How to Help Kids See that Response Is More Than 'I Liked It,'" "Teaching from Our Depths" and "Action Strategies to Support Reluctant Readers." Bamford and Kristo were discussion leaders for the Elementary Section meeting, focusing on the transaction theory of reading researcher Louise Rosenblatt.

Frederico Fonseca, a graduate research assistant in the National Center for Geographic Information and Analysis and doctoral student in the Department of Spatial Information Science and Engineering, is the winner of a \$10,000 scholarship from the 1999 NASA/EPSCoR Fellowship Program. The scholarship will support research on geographic information science and digital imagery. Fonseca collaborates with **Max Egenhofer**, professor in spatial information science and engineering. Fonseca's proposal, "Using Ontologies for Aerial Image Integration," builds on his recent research results. This fall, Fonseca presented two papers that introduced the foundation for his proposed work: "Ontology-Driven Geographic Information Systems" at the Seventh Association for Computing Machinery Symposium on Geographic Information Systems, and "Knowledge Sharing in Geographic Information Systems" at the Knowledge and Data Engineering Exchange Workshop hosted by the Institute for Electrical and Electronics Engineers.

Paula Moore, assistant professor of literacy, gave two presentations, "Teaching for Structure: The Neglected Source of Information," and "Beyond the Early Strategies: Fostering Children's Processing at Levels 6-10," at the Literacy for All Northeast Early Literacy Conference and Reading Recovery Institute, Nov. 7-9, Boston. Moore also introduced keynote speaker Regie Routman, author and national consultant. The conference was sponsored by the Lesley College Center for Reading Recovery in collaboration with the Reading Recovery programs at the University of Maine, University of Connecticut and New York University.

Stephanie Cross has joined the Pulp and Paper Foundation as managing director, responsible for student-centered activities, program management and publications. Cross is a former Pulp and Paper Foundation scholarship recipient and a chemical engineering alumnus. In 1997, she earned a master's degree in organizational management. She began her paper industry career as a co-op student at Scott Paper in Winslow, and later worked there as a process engineer. Most recently she has been group manager in the Technology Group of Chinot Co., in Waterville.



Kathy Merrill, a salad preparer at Stodder Commons, is one of 115 Dining Services employees who participated in training, employee development programs, and industry tours in the past three weeks. According to Beth Carlson, associate director of resident dining, the extended winter break gave dining services staff the opportunity to train with corporate chefs, tour peer colleges, test new products, and initiate a new quality improvement program.

Photo by Monty Rand

The National Center for Geographic Information and Analysis (NCGIA) held the annual meeting of this three-site research consortium in Santa Barbara, Dec. 3-4. Ten researchers from the UMaine attended: **Max Egenhofer**, director of NCGIA, College of Engineering's Libra Professor, professor in Spatial Information Science and Engineering, and cooperating professor in Computer Science; **Harlan Onsrud**, professor in Spatial Information Science and Engineering; **Kate Beard**, chair and associate professor in Spatial Information Science and Engineering; **Peggy Agouris**, assistant professor in Spatial Information Science and Engineering; **Anthony Stefanidis**, research assistant professor with NCGIA; **Mustafa Palancioglu**, graduate research assistant with NCGIA and doctoral student in Spatial Information Science and Engineering; **Georgios Mountrakis**, graduate research assistant with NCGIA and master's candidate in Spatial Information Science and Engineering; and **Frederico Fonseca**, graduate research assistant with NCGIA and doctoral student in Spatial Information Science and Engineering. Egenhofer gave an overview of activities at NCGIA-UMaine and gave a software demonstration of Spatial-Query-by-Sketch, developed by **Andreas Blaser**, graduate research assistant with the NCGIA and doctoral candidate in Spatial Information Science and Engineering. Palancioglu presented "Spatio-Temporal Modeling of Movements"; Mountrakis presented "Feature Extraction/Change Detection"; Fonseca presented "Ontology-Driven GIS"; and Stefanidis talked about "Research Issues in Image Analysis."

UMaine's National Youth Sports Program has been named one of the best in the country for the third time in its seven-year history. In announcing the 1999 Meritorious Program award winners, the National Collegiate Athletic Association recognized the UMaine program for outstanding leadership, service to children and community involvement. The UMaine NYSP received a first-year commendation award in 1993 and earned a meritorious program award in 1994. Project administrator is **Steve Butterfield**. NCAA oversees the federally funded skills development and educational summer program at 188 sites in the country. Twenty-three of those sites, including UMaine, were selected as exceptional, based on rigorous national evaluations. The 1999 winners will be honored at a February awards ceremony in Washington, D.C. At least 90 percent of the children served in the program must meet federal low-income family guidelines.

Ginger Yang Hwalek and **Laura Artesani**, instructors at the School of Performing Arts, gave the premiere performance of *Music for Two Pianos*, by Sean Reed, at the Music Teachers National Association Quad State Convention, University of Vermont, Oct. 22. The work was commissioned for this event. Reed, a native of Camden, studied at Interlochen Arts Academy, the Eastman School of Music, and the Academy for Music and Theater in Hamburg. Other works by Reed have been premiered in New York City, Berlin, Salzburg and Frankfurt.

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.

Associate Professor in Educational Leadership, College of Education and Human Development. Tenure-track position. Qualifications: Earned doctorate in relevant field; record of successful teaching and facilitation of adult learning in university and school settings; strong working knowledge of both organizational dynamics and development and the interpersonal and intrapersonal dimensions of leadership practice; substantial experience as a successful leader and collaborator in educational settings; demonstrated capacity to develop mutual respect and collaboration among diverse people; demonstrated ability to foster critical thought and creative action appropriate to graduate level scholarship and effective leadership practice; record of applied research and of success at sharing learning through writing, speaking and other forms of expression; exhibited commitment to students and to experiential learning; record of successful doctoral advisement; and demonstrated commitment to the mission of the University of Maine. Review of Applications: Will begin 2/15/2000 and continue until position is filled. Start Date: 9/2000. Contact: Send letter of application addressing each of the qualifications listed above, transcripts, three letters attesting to the candidate's qualifications, and a vita to: Gordon Donaldson Jr., Chair, Educational Leadership Search Committee, 5766 Shibles Hall, Orono, ME 04469-5766. For application packet, contact Sharon at email Carter@umit.maine.edu/ or telephone 207-581-2455.

Crops Specialist (Position #64), University of Maine Cooperative Extension. Full-time, fiscal year position to be housed in the Presque Isle Extension Office located on Aroostook Research Farm of the University of Maine Agricultural and Forest Experiment Station on U.S. Rt. #1 in Presque Isle. Qualifications: Required: Earned Ph.D. in an area of plant science; excellent verbal communication skills; commitment to serving diverse audiences and supporting civil rights, equal opportunity, and affirmative action policies; licensed in Maine as a pesticide applicator within six months of hire; ability to travel, usually requiring a valid driver's license, both in- and out-of-state. Desired: Strong academic background in agronomy or plant physiology; experience working in agricultural crop production; experience with crop water management systems; familiarity with computers and knowledge of the Extension educational process; demonstrated positive interpersonal skills for working with coworkers, employer, and constituents of the community. Review of Applications: Will begin 2/18/2000. Contact: Send complete application which consists of application, vitae, all transcripts, and four letters of reference tailored to fit position to: Sandra Vaillancourt, Room 103, 5741 Libby Hall, Orono, ME 04469-5741. Telephone: (207) 581-3191; Fax (207) 581-3325. The Committee will review only complete packets which are the responsibility of the applicant to provide. You may contact the address above to request a full job description with detailed statement of additional qualifications.

Field and Data Coordinator, Cooperative Forestry Research Unit (CFRU). Full-time position with continuation contingent upon annual funding. Qualifications: Bachelor's degree in forestry, silviculture, natural resources, or closely related field (master's degree preferred); excellent written and verbal communication skills; strong interpersonal skills; proven ability to work successfully in a position of key support and responsibility, both independently and as a team member; knowledge and experience with advanced statistics, and database design and maintenance; some experience with coordinating field activities; meeting management and conference organization; some experience in forestry or natural resources field. A physical examination is required. Salary Range: \$28,000-\$35,000, dependent upon qualifications and experience. Review of Applications: Will begin 3/1/2000. Contact: Send resume and contact information for three references to: Bob Wagner, CFRU, University of Maine, 5755 Nutting Hall, Orono, ME 04469-5755. Telephone: (207) 581-2903; Fax: (207) 581-4257 or 581-2833; email: Bob_Wagner@umenf.maine.edu. For a complete job description, see website at <http://www.umaine.edu/hr/jobs/>

Assistant Volleyball Coach, Department of Athletics. Full-time, 12-month position. Qualifications: Bachelor's degree required, master's preferred. Collegiate volleyball playing experience and/or experience coaching elite high school and/or collegiate level volleyball athletes; demonstrated ability to positively mentor and monitor student-athletes; excellent communication skills, including familiarity with computer applications; knowledge of NCAA rules; be prepared to demonstrate and participate in practice and training sessions. Ability to travel, normally requiring a valid driver's license. Salary Range: \$20,000-\$25,000. Review of Applications: Will begin 1/24/2000 and continue until position is filled. Start Date: Immediately. Contact: Send letter of application, resume, and the names of at least three references to: Sue Medley, Head Volleyball Coach, University of Maine, 5747 Memorial Gymnasium, Orono, ME 04469-5747.

Assistant Professor in Rhetoric, Department of Communication and Journalism. Tenure-track position (pending administrative approval). Qualifications: Ph.D. in communication or related discipline by appointment date; demonstrated excellence in teaching; an ongoing program of research and scholarship; a willingness to participate actively in department service and governance. Review of Applications: Will begin 2/21/2000 and continue until the position is filled. Contact: Send letter of application, vita, three letters of recommendation, and supporting materials such as published and unpublished research, teaching evaluations, and course syllabi to: Nathan Stormer, Search Committee Chair, Department of Communication and Journalism, University of Maine, 5724 Dunn Hall, Orono, ME 04469-5724. Telephone: (207) 581-1938; Email: stormer@maine.edu; Web page: www.ume.edu/~coj/depthomp.htm.

Assistant Professor (Physics Education Research), Department of Physics and Astronomy. Tenure-track position. Qualifications: Ph.D. in physics specializing in physics education research, including a completed Ph.D. thesis by September 2000; proven research ability; and demonstrated excellence in teaching. Preference will be given to candidates interested in developing extramurally funded research programs. Review of Applications: Will begin 2/1/2000. Start Date: 9/2000. Contact: Send letter of application, curriculum vita, brief research program overview, statement of teaching philosophy, evidence of teaching excellence, and three letters of recommendation to: Physics Education Search Committee, Department of Physics and Astronomy, University of Maine, 5709 Bennett Hall, Orono, ME 04469-5709. Further information about the Department of Physics and Astronomy can be found at www.umephy.maine.edu.

Assistant Director, Wabanaki Center. Professional position. Qualifications: Required: Successful completion of formal training in education, human developmental or a related field at the bachelor's degree level required, training these areas at the master's degree level preferred. Substantial knowledge of graduate and undergraduate experience, particularly issues critical to Native student retention and development needs of students; demonstrated success in recruiting and serving students with counseling and other skills that positively impact Native American student retention; knowledge and experience with Native communities; excellent organizational skills, including ability to deal effectively with diverse groups of people, motivate students, and win cooperation from a variety of people; excellent written and verbal communication skills. Occasional travel required. Preferred: Knowledge and experience with Maine tribes. Salary Range: \$30,000-\$40,000. Review of Applications: Will begin 1/24/2000. Start Date: Position available immediately. Contact: Send letter of application, resume, and names and telephone numbers of three references to: Chair, Search Committee, University of Maine, Room 314, 5724 Dunn Hall, Orono, ME 04469-5724.

Assistant Football Coach/Offensive Line, Department of Athletics. Full-time, fiscal-year appointment. Qualifications: Required: Bachelor's degree required, master's degree preferred. Coaching philosophy compatible to current program; demonstrated expertise in coaching offense and special teams; excellent organizational, oral and written communication skills; demonstrated success in working with student-athletes, preferably including minority student-athletes; ability to travel, normally requiring a valid driver's license. Preferred: Knowledge of NCAA rules and regulations. Review of Applications: Will begin 2/14/2000 and continue until the position is filled. Contact: Send letter of application, resume and names of three references to: Jack Cosgrove, Head Football Coach, University of Maine, 5747 Memorial Gym, Orono, ME 04469-5747.

continued next page

Salmon *continued from page 2*

presentations about salmon genetics, paleoecology and the salmon aquaculture industry. The special hearing involved four legislative committees and presenters from the National Marine Fisheries Service, the administration of Gov. Angus King, UMaine and industry.

The white paper series focuses on the following topics. They are posted on the Web: www.umaine.edu/mainesci

- ▼ "Assessing Genetic Distinctiveness of Wild Maine Atlantic Salmon," by Irving Kornfield, School of Marine Sciences
- ▼ "The Potential Impact of an Atlantic Salmon Endangered Species Listing on Blueberry Producers," by Timothy Dalton and George Criner, Department of Resource Economics and Policy
- ▼ "The Farming of Atlantic Salmon in the State of Maine," by Linda Kling and Michael Opitz, School of Marine Science
- ▼ "Atlantic Salmon, Restoration, Rehabilitation, and Federal Protection," by John Moring, Department of Biological Sciences
- ▼ "Impact of the Atlantic Salmon Industry on the Maine Economy," by James Wilson, School of Marine Sciences
- ▼ "Influences of Past and Future Climates on Atlantic Salmon," by George Jacobson, Department of Biological Sciences
- ▼ "The Effect of Seals on Maine Atlantic Salmon," by James Gilbert, Department of Wildlife Ecology
- ▼ "Infectious salmon anemia virus (ISAV)," by Eric Anderson, Department of Biochemistry, Microbiology and Molecular Biology
- ▼ "Fish Diseases in Aquaculture," by Bruce Nicholson, Department of Biochemistry, Microbiology and Molecular Biology ▲

AFFIRMATIVE ACTION PLAN

UMaine's Y2K Affirmative Action Plan is available in the Fogler Library reference room and in the Office of Equal Opportunity, 101 North Stevens. The Affirmative Action Plan, required of all organizations receiving federal funds, includes an analysis of women and federally designated minorities in each University employee category (administrators, faculty, professional and classified staff), and goals where these groups are currently under-represented.

Directory Changes

Joyce Longcore, Research Assistant Professor, Biological Sciences, 203 Deering Hall, 581-4396, longcore@maine.maine.edu

19TH PROFESSIONAL EMPLOYEE ACHIEVEMENT AWARDS

The Professional Employees Advisory Council (PEAC) seeks to raise the awareness of the campus community about the indispensable contributions that represented and non-represented professional employees make to the quality, diversity and overall mission of the University.

This year two awards will be given to professional employees whose actions and activities above and beyond normal work responsibilities have provided outstanding service to their fields, to UMaine, or to the community as a whole. In recognition of the employees' accomplishments and contributions, a cash stipend of \$1,000 is presented to each awardee. Awards are presented at the annual spring employee banquet.

A professional employee must be nominated by another University employee. To be eligible for an award, the employee must be a current represented or non-represented professional employee with a minimum of three years of continuous service to the University. The employee need not be in the same position over that three-year period. When nominating an individual, describe the actions and activities that deserve consideration for the award; include the positive impact the person has had on the field, the University, or outside community organization. Describe the unique characteristics that set the performance of the individual above normal, expected performance levels. Letters of recommendation must be limited to two typewritten pages.

Submit nominations to PEAC President Joyce Henckler, Heritage House, 101 College Ave.

Deadline for receipt of nominations is March 1.

PRESIDENTIAL OUTSTANDING TEACHING AWARD

In recognition of the importance of outstanding teaching to the University of Maine, nominations are now being accepted for the 2000 Presidential Outstanding Teaching Award.

The Presidential Outstanding Teaching Award is presented annually to a tenured University of Maine faculty member who has demonstrated outstanding commitment to and ability in the teaching area, while maintaining a commitment to scholarship and public service. The recipient will receive a medallion and \$1,500.

Deadline for receipt of nominations is March 1. Late nominations will not be accepted.

Nomination forms can be obtained from Carole Gardner, Office of Academic Affairs, 201 Alumni Hall, e-mail: caroleg@maine.edu or FirstClass: Carole Gardner or phone: x1617.

Assistant to the Dean for Libraries, Raymond H. Fogler Library position. Qualifications: B.A./B.S./B.U.S. degree required, M.A. preferred. Demonstrated competency in accounting practices, procedures, and budgetary management; knowledge of computers with detailed knowledge of Excel and Lotus including basic statistical and data analysis; demonstrated written and oral communication skills with excellent managerial and organizational skills; strong interpersonal skills and proven ability to work with and relate to a diverse population, internally and externally. Review of Applications: Will begin 2/7/2000 and continue until a qualified candidate is chosen. Contact: Send letter of application that cites professional experience and qualities applicable to the position, current curriculum vitae (or resume) and the names of three professional references to: Elaine Albright, Dean of Cultural Affairs and Libraries, University of Maine, 5729 Raymond H. Fogler Library, Orono, ME 04469-5729.

Assistant Professor (Instructional Technology), College of Education and Human Development. Tenure-track position. Qualifications: Required: Doctorate in Instructional Technology, Educational Media, Library Science or related field. ABDs with anticipated conferral of June 2000 will be considered. Demonstrated (or potential for) excellence in teaching at both graduate and undergraduate levels. Recent successful experience in K-12 schools and a broad knowledge of contemporary curricula; demonstrated ability and commitment to conduct an active program of scholarly research. The ability to travel is necessary, normally requiring a driver's license. Desirable: Experience in integrating technology in education, multimedia, and internet-based design. Review of Applications: Will begin 2/1/2000. Contact: Send completed applications which should include cover letter addressing the announced responsibilities and qualifications, statement of teaching philosophy, statement of research interests, complete curriculum vitae, three letters of recommendation (with names, addresses and telephone numbers), official graduate school transcripts, sample publications and conference papers, and evidence of teaching effectiveness at the university level to: Herman Weller, Chair, IT Search Committee, University of Maine, 5766 Shibles Hall, Orono, ME 04469-5766. e-mail: Herman.Weller@umit.maine.edu

Staff Nurse (specializing in sexual health), The University of Maine's Student Health Services. Full-time, 10-month position. Qualifications: Bachelor's degree in nursing, certification in CPR, and an active license to practice nursing in the State of Maine. Must relate well to students of diverse backgrounds and sexual orientations and must have prior experience in sexual health programs; must be computer proficient and have excellent oral, written and interpersonal communication and organizational skills. Preference will be given to an experienced nurse educator. Salary Range: \$27,000-\$30,000. Review of Applications: Will begin 2/1/2000. Contact: Send letter of interest, resume, and names and contact information for three references to: Search Committee, c/o Cindy Perry, Student Health Services, University of Maine, 5721 Cutler Health Center, Orono, ME 04469-5721.

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.

Defense Advanced Research Projects Agency's new program of Fundamental Research at the [Bio:Info:Micro] Interface calls for proposals from university-based interdisciplinary teams to develop concepts and technologies that will contribute to advances in science and engineering at the intersections of biology with information and

microsystems technologies. Preproposals are due Feb. 18; proposals, March 31.

National Science Foundation's program of Research on Learning and Education has broadened its scope to support brain research as a foundation for research on human learning; fundamental research on behavioral, cognitive, affective, and social aspects of human learning; research on science, mathematics, engineering, and technology (SMET) learning in formal and informal educational settings; and research on SMET learning in complex educational systems. Preliminary proposals due March 1.

National Endowment for the Humanities supports national summer seminars and institutes in the humanities for postsecondary educators or for K-12 educators to enhance the intellectual vitality and professional development of teacher-participants. Applications to participate in the Summer 2000 program or to direct a seminar or institute in Summer 2001 are due March 1.

Fund for the Improvement of Postsecondary Education makes matching grants for Learning Anytime Anywhere Partnerships working to enhance the delivery, quality, and accountability of postsecondary education and career-oriented lifelong learning through technology and related innovations. Deadline for preapplications: March 3.

U.S. Department of Energy's Energy Biosciences Program supports basic biochemical, genetic and physiological investigations of plants and microorganisms that can provide support for future energy related biotechnologies. Preapplications are due March 8.

International Council of Shopping Centers Educational Foundation makes grants of up to \$10,000 for projects of applied research related to the shopping center industry. Current priorities focus on the effects of entertainment; the management of development and growth; and the interactions between store retailing, online retailing, and other sales channels. Deadline: March 13.

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

Combined Charitable Appeal for University Employees total to date: \$72,069 – more than \$2,000 over UMaine's goal.

PHI KAPPA PHI GRADUATE FELLOWSHIP COMPETITION

The Honor Society of Phi Kappa Phi has announced its annual fellowship competition in support of the first year of study in graduate or professional school. All national nominees (one applicant per chapter is chosen to represent the chapter in the national competition) receive a lifetime membership in Phi Kappa Phi.

The first fellowships of \$500 each were granted in 1932. Since that time, the Fellowship Program has grown to its current status, awarding up to \$380,000 annually in the form of 50 Fellowships of up to \$7,000 each and 30 Awards of Excellence of \$1,000 each for post-graduate study at accredited institutions of higher learning. The 80 scholarships are awarded on a competitive basis to students pursuing first-year graduate or professional study on a full-time basis, normally within one year following the receipt of the baccalaureate degree.

Interested students should contact Scott Delcourt, the scholarship and awards coordinator for the UMaine chapter of Phi Kappa Phi, 2 Winslow Hall, to receive the application materials. Application deadline is Feb. 18.

Founded in 1897 at the University of Maine, The Honor Society of Phi Kappa Phi is the oldest and largest interdisciplinary honor society. Reflecting the organization's mission of recognizing and promoting academic excellence in all fields of higher education is its Graduate Fellowship Program.

INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE MEETINGS

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

Listed below are the meeting dates for the spring semester. Completed Protocol Review Forms should be submitted two weeks before the meeting date in order to be reviewed at that meeting. Protocol review forms and copies of the University's Policies and Procedures for the Humane Care and Use of Animals are available from Gayle Anderson, Office of Research and Sponsored Programs, 424 Corbett Hall, x1498. The information is also available at the ORSP Website, www.ume.maine.edu/~spd/index.html.

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

IACUC Meeting Dates (submit protocols at least two weeks before meeting date): Feb. 22, March 28, April 18, May 16.

What's Ahead



CAREER FAIR
February 3

TECHNOLOGY IN GRADUATE EDUCATION: DILEMMAS AND DELIGHTS
February 7

WINTERFEST
February 9

NAVIGATING THE ROILING WATERS OF THE GLOBAL ECONOMY
February 10

SCHOLAR-ATHLETES RECEPTION
February 12

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

