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Forestry major John Pratt puts up a shade cloth in a hoop house near Nutting Hall to protect young trees being grown for use in research by the Forest Ecosystem Science Department.

Photo by Kathryn Rice

Maine Summer Youth Music Senior Camp Celebrates 25 Years at UMaine

For 25 years, high-school musicians have been spending a week of their summer vacations at the University of Maine sharpening their skills and making new friends at Maine Summer Youth Music.

To celebrate, MSYM Director Curvin Farnham commissioned a composition. The Longfellow-inspired piece will be one of two to premiere this summer.

This month, MSYM has welcomed what has become a typical number of campers — about 330 — between the silver-anniversary Senior Camp and its younger sibling, Junior Camp, which opened MSYM to junior-high-age musicians in the early 1980s. The students come from Maine and other New England points.

"We're the largest camp going," says Farnham, a member of the UMaine music faculty who is logging his 12th year as MSYM director — a longer tenure than any other director.

For the milestone anniversary, he commissioned a celebratory piece for chorus and band from a student he met while on sabbatical last fall in Virginia — Alexandra Molnar-Suhajda, a junior majoring in music composition at George Mason University in Fairfax. She describes her *Deering's Woods: My Lost Youth*, which evokes the Henry Wadsworth Longfellow poem referenced in the title, as similarly "quiet and reflective." Choral sections are selected from verses of Longfellow's *My Lost Youth* containing references to Maine.

The composition is still unpublished and will premiere Friday, Aug. 2, as the closing piece of the Senior Camp Final Concert. *continued on page 15*

Boost for Cod Aquaculture Recorded by UMaine Scientist

Linda Kling knew she had something unusual when she saw what looked like thousands of small, transparent worms swimming in her fish tank. By all rights, they shouldn't have been there. She had expected most of them to die.

What Kling saw were actually tiny cod. They had hatched about eight weeks earlier from eggs brought to Kling's laboratory from the University of Rhode Island. After several weeks, about

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In Perspective

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

Science, Cultural Preservation Combine to Bring About Exhibit

A 2,500-pound log of western red cedar will soon be part of the Hudson Museum's Northwest Coast exhibit, thanks to the generosity and cooperation of wood scientists and truckers coast to coast.

The log, cut from a tree estimated to be 60-75 years old, was donated to the Museum by via the auspices of the University of Washington after University of Maine Associate Professor of Forest Biology Doug Maguire contacted colleagues on the West Coast. Barrett Moving and Storage Co., of Tacoma donated its services to prepare the log for shipment, and Dysarts Transport Inc., trucked the 5-foot tree trunk coast to coast at reduced cost.

Once on campus, the log was kiln-dried for three weeks, and again this month for a week, to remove excess moisture and the risk of infestation. The wood kiln, located in Nutting Hall, was made available by the Wood Science and Technology Program of the Forest Management Department. The kiln is used for teaching and for research, including studies conducted on behalf of industry.

The drying process was supervised by Associate Professor of Wood Science and Technology Bob Rice, who made headlines earlier this year by overseeing the drying of the remains of the *Snow Squall*, an American Clipper built in 1851 on the Maine coast. In September, Rice has been invited to Edinburgh, Scotland, to speak on the use of kiln drying in historic preservation efforts to the 11th Triennial Meeting of the International Council of Museums.

The combination of research expertise and facilities at the University have made it possible for this important exhibit element to be included for thousands of Museum visitors to see. In coming weeks, the long-standing Northwest Coast exhibit on the first floor of the Hudson Museum will be dismantled and replaced with an exhibition focused on three facets of the Northwest Coast native cultures – the environment, social organization and ceremonial life, and contemporary art as it reflects cultural heritage.

The role of the environment in the lives of Northwest Coast Indians past and present is a focus that will be brought into perspective with the inclusion of the red cedar log. Now weighing 1,200 pounds after drying, the log will be used to show the importance of the softwood to the tribes.

"It was the tree of choice and was used for so many things," according to Joan Klusmann, Hudson Museum education specialist. "Red cedar was used for everything from building long-houses and dugout canoes to making fish hooks and bowls for eating. The wood was carved, and used for building, and the bark pounded thin and woven into baskets and clothing. The Northwest Coast Indians have been called the master wood-carvers of North America."

In the refurbished exhibit, expected to be completed this March, students in the construction and building trades classes of United Technologies Center in Bangor will erect eight-foot wide platforms along the gallery walls in a U-shape, giving the semblance of a longhouse. Northwest Coast artifacts will be removed from glass cases and be placed on display in a more natural setting. ▲

A REMINDER

Maine Perspective will be published the last Monday of every month through August. Deadlines for the summer issues are mid-month. For information, call *Maine Perspective*, x3745.



Examining the log of Western red cedar after its first three weeks of drying in the kiln is Kim Sawtelle, registrar at the Hudson Museum, and Bob Rice, associate professor of wood science and technology.

Residential Safe Zone Wing Will Not Be Created This Fall

A lifestyle wing of a residence hall designated for gay, lesbian, bisexual and transgendered students and their allies – known at UMaine as a Safe Zone – will not be implemented for the 1996-97 year after only two students signed up for rooms.

According to Scott Anchors, director of Campus Living, any lifestyle proposal for the residence halls that is not filled to a certain capacity is not implemented. The space will be used to meet the on-campus housing needs of the increased numbers of new and returning students. Campus Living will reconsider designation of a Safe Zone wing for the 1997-98 academic year should student interest exist.

Campus Living has offered students the opportunity to create community sections for more than 15 years. Such lifestyle options sections in the residence halls provide students with a forum of like-minded peers for educational and emotional support.

This fall, Campus Living is again offering an engineering wing, and has expanded the S³ wing for science students. Also offered will be non-smoking wings in every hall and three halls that are designated just for non-smoking students, which has proven to be a very popular and successful residential alternative. Colvin Cooperative, with its dining cooperative, is the oldest of UMaine's residential lifestyle areas. ▲

Maine Perspective

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University of
Maine

U Maine Calendar

AUGUST

All events are free and open to the public unless otherwise specified. Any speaker not otherwise identified is a member of the University of Maine faculty, staff or student body. Send notices of upcoming campus events to: *Maine Perspective* Calendar, Public Affairs. Calendar of events listings MUST be typewritten and should be sent AT LEAST TWO WEEKS in advance. Deadline for each issue: 9 a.m. Friday. For more information, call x3745.

30 Tuesday

Maine Summer Youth Music Senior Camp Jazz Concert, 7:30 p.m., July 30, Hauck Auditorium. x4700.

31 Wednesday

Maine Summer Youth Music Senior Camp Student Solo Recital Night, 8 p.m., July 31, 120 Lord Hall. x4700.

1 Thursday

Reading of *Whale in the Sky* and *Telling of Northwest Coast Crest Animal Stories*, part of "Cool Mornings at the Hudson Museum," weekly storytelling for children in grades K-3, 10:30-11:30 a.m., Aug. 1, Maine Center for the Arts. Registration/admission fee. x1901.

Maine Summer Youth Music Senior Camp Student Ensemble Recital Night, 7:30 p.m., Aug. 1, Hauck Auditorium. x4700.

2 Friday

Maine Summer Youth Music Senior Camp Musical Theater Presentation, 3 p.m., Aug. 2, Hauck Auditorium. x4700.

Maine Summer Youth Music Senior Camp 25th Anniversary Final Concert, featuring Concert Band, Chorus and Symphonic Band, 7 p.m., Aug. 2, 120 Lord Hall. x4700.

Meetings with Candidates for Chief Financial Officer

Open meetings are scheduled with candidates for chief financial officer of the University of Maine. See related story and the schedule of meetings on page 5.

8 Thursday

Reading of *Mouse Bride*, part of "Cool Mornings at the Hudson Museum," weekly storytelling for children in grades K-3, 10:30-11:30 a.m., Aug. 8, Maine Center for the Arts. Registration/admission fee. x1901.

15 Thursday

Reading of *Raven's Light*, part of "Cool Mornings at the Hudson Museum," weekly storytelling for chil-

dren in grades K-3, 10:30-11:30 a.m., Aug. 15, Maine Center for the Arts. Registration/admission fee. x1901.

22 Thursday

Reading of *Punga, the Goddess of Ugly* and *Maori Mask Making*, part of "Cool Mornings at the Hudson Museum," weekly storytelling for children in grades K-3, 10:30-11:30 a.m., Aug. 22, Maine Center for the Arts. Registration/admission fee. x1901.

23 Friday

Summer Session Ends, Aug. 23.

3 Tuesday

Fall Classes Begin, Sept. 3.

Oral Exams

"Kinetics of Co Oxidation on Pd(110) and Oscillatory Reactions," by Victor Bondzie, candidate for Ph.D. in physics, 10 a.m., Aug. 1, 102 Bennett Hall.

"Molecular Genetics of VSB717, a Double-stranded RNA Virus of the Phytopathogenic Fungus *Rhizoctonia solani*," by Ethan Strauss, candidate for Ph.D. in plant sciences, 9:30 a.m., Aug. 2, 101C Deering Hall.

"The Effects of Invading Black Crapples on the Resident White Perch Population in a Lake of Central Maine," by Andrew Madden, candidate for master's degree in zoology, 1 p.m. seminar, 102 Murray Hall; 2 p.m. defense, 309 Murray Hall.

"The Wetting and Spreading of Individual Latex Particles on Calcium Carbonate Surfaces," by Yiren Luo, candidate for master's degree, 2 p.m., Aug. 13, Sawyer Environmental Research Center Conference Room.

Ongoing Events

Exhibits

Pop as Mannerism, a University of Maine Museum of Art exhibit, through Aug. 11, Hole in the Wall Gallery, Union. x3255.

Museums by Mail: On View, a University of Maine Museum of Art exhibit, through Aug. 19, Carnegie Gallery, Carnegie Hall. x3255.

Pencil Work: Drawings from the Museum Collection, a University of Maine Museum of Art exhibit, Aug. 20-Nov. 17, Hole in the Wall Gallery, Union. x3255.

Being Heard: The Strength, Courage and AIDS of Winnie MacDonald, a University of Maine Museum of Art exhibit of photographs by Jim Daniels, through Sept. 13, 1938 Gallery, Carnegie Hall. x3255.

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

Maine Forest and Logging Museum - Leonard's Mills, a water-powered sawmill community site, open daily

9 a.m.-4 p.m., with guided tours available, Bradley. x2871.

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

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

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

Athletic Mementos and Memorabilia Past and Present, an M Club-sponsored exhibit, Memorial Gym Lobby.

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

Miscellaneous

Taste of Home, a potluck cookout and "spiritual tune-up" - food for the body and spirit, 5:30 p.m., every Tuesday, Wilson Center. 866-4227.

UMaine Artist's Studio on AAUW Second Annual Studio Tour

The newly constructed studio of University of Maine Professor of Art Susan Groce will be among 11 artists' studios featured on a self-guided tour next month, sponsored by the Mid-Coast Chapter of the American Association of University Women (AAUW) to benefit scholarships and educational programs for women.

The Second Annual Studio Tour will be Thursday, Aug. 15, 10 a.m.-4 p.m. Tickets and information about the self-guided tour are available by contacting the Mid-Coast Chapter of AAUW, 372-6537.

The AAUW tour will be the first public viewing of Groce's studio, located in Martinsville on the St. George Peninsula. Designed by Groce and her husband, Tom Judge, the two-story studio, tucked into the wooded coastline, features a large, practical work area/gallery on the lower level, while on the upper level, a 15-foot ceiling height and banks of windows provide a very open, light, airy, clean – and scenic – drafting area and library.

Initial construction of the unique structure began in 1994 in a two-weekend community house raising/work party in which upwards of 40 friends, neighbors and colleagues – from professional carpenters to artists, doctors and University professors – came together to construct the building's frame. Interior construction and finish work have been ongoing for the past two years.

This is a functional, working studio, says Groce, and only becomes a gallery for a limited time during the summer months. The combination affords visitors a rare opportunity to view works on exhibit in the same venue in which they were created.

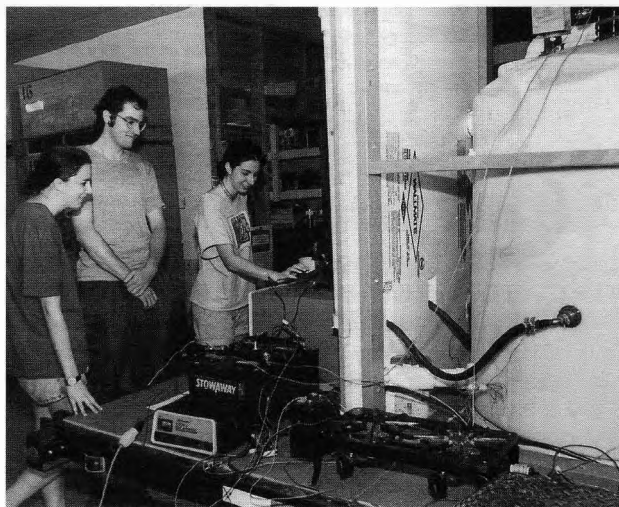
"Usually artists work in one place and exhibit in another," Groce says. "Here I have the opportunity to show the work and the process. It is also a chance for visitors talk to an artist in the

work environment, which sometimes can lead to further insight and can add another dimension to the work and its effectiveness."

Groce describes the St. George Peninsula as a growing artistic community that has become "an extension of Monhegan."

"The area is becoming a real attraction," says Groce.

"Monhegan Island has been a recognized artist colony for years, but on the St. George Peninsula, there also is a community of summer and year-long artists. This is a growing community of artists with art studios and studio openings. In planning the AAUW Studio Tour, there were dozens of studios on the St. George Peninsula from which to choose." ▲



Stanford University student Elizabeth Scheps, left, and Andrea Kurtz, a student at Haverford College in Pennsylvania, join University of Maine bio-resource engineering student Mark Bolduc as they take a close look at the prototype bioconverter to be used to demonstrate a way to alleviate garbage and energy problems. The two women were high school seniors when their project proposal to build a prototype bioconverter for their hometown of Brookhaven, N.Y. won second prize in the 1995 NYNEX Science & Technology Awards. Subsequently, UMaine Department of Bio-Resource Engineering was awarded the grant to research, develop and implement the bioconverter. Constructed by Bolduc under the supervision of Associate Professors of Bio-Resource Engineering Warren Hedstrom and Ed Huff, the bioconverter is nearing completion. Scheps and Kurtz have been on campus for a few weeks this summer learning how the bioconverter operates before it is trucked to Long Island for installation. The prototype for Brookhaven is using manure for start-up, and later will be converted to vegetable waste. The generator is expected to be able to produce enough power for ten 75-watt lights for about an hour. The prototype is modeled after the experimental anaerobic digester at the Witter Center.

Photo by Kathryn Rice

MEMBERS OF THE UNIVERSITY COMMUNITY INVITED TO MEET THE CANDIDATES FOR UMaine CHIEF FINANCIAL OFFICER

The Chief Financial Officer Search Committee invites the campus community to attend open meetings with candidates for the position of chief financial officer.

Vitae and letters of application for each candidate are on file in the President's Office. The Search Committee invites comments on each candidate. Feel free to contact any member of the Committee: Ginny Gibson, Bob Holmes, John Ford, Dave Wihry, Scott Anchors, Dale MacDonald, Paul Uttormark, Sue Tyler, Victoria Kane, Bill Livingston and Mark Anderson.

The meeting schedule follows:

Tuesday, Aug. 6, 11 a.m., North Lown Room, Union – John Eckert, chief operations officer, Ames Laboratory, Iowa State University since 1989. (MS in business administrative sciences, Iowa State, 1989; MBA, University of Utah, 1976; MS in mechanical engineering, Michigan State, 1973; BS in general engineering, U.S. Military Academy, 1966)

Thursday, Aug. 8, 11 a.m., North Lown Room, Union – Lawrence Kelley, vice president for business and finance, Kent State University since 1991. (MS in technical education - educational finance, University of Akron; BA in education, University of Akron)

Wednesday, Aug. 21, 10 a.m., Bangor Lounge, Union – Charles Tandy, vice president for Administration, Milton S. Hersey Medical Center, Pennsylvania State University since 1991 (MBA, Harvard Graduate School of Business Administration, 1973; BBA, University of Texas at Austin, 1971)

**Send notices of upcoming campus events
and any fall schedules to
Maine Perspective for inclusion in the UMaine Calendar.**

CLEP/PLACEMENT EXAM

CLEP/Placement Exam – French, German and Spanish – will be conducted Wednesday, Sept. 4, 6 p.m., 213 Little Hall. Sign up in the Department of Modern Languages and Classics by 2 p.m., the day of the exam.

UMaine Violinist Finds New Love in Viola d'amore



If the violin is Anatole Wieck's first musical love, then the viola d'amore may be his paramour.

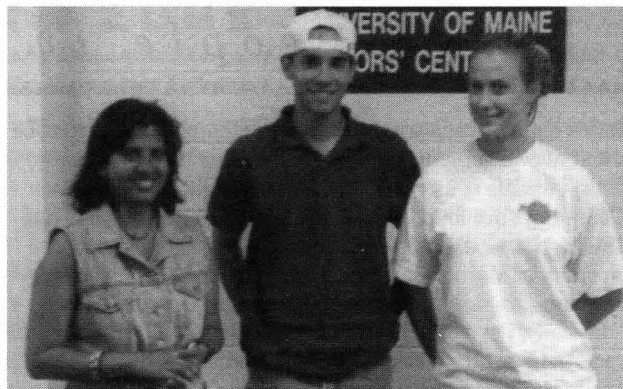
"I really fell in love with the sound of this instrument," says the University of Maine associate professor of music, conjuring the English translation of the instrument's name.

The Juilliard-trained violinist, who performed on the viola d'amore with the Artona Baroque Players recently as part of the Summer Early Music

Concert Series in Massachusetts, demonstrates as he explains how the instrument and its sound differ from his accustomed violin.

"Fifteen to 20 years ago, I discovered one element that makes string instruments sound beautiful — harmonics and overtones," he says.

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Laxmi Vallury, Visitors' Center coordinator, greets Rick Hathaway and Jennifer Meagher, both from Brunswick, who stopped into the Visitors' Center at the same time earlier this month and jointly became the 30,000th visitors to UMaine since the office in Chadbourne Hall opened three years ago. The milestone was reached one day shy of the third anniversary of the opening of the Center July 13, 1993. Hathaway and Meagher are two prospective UMaine students, and Meagher's mother, Nancy Meagher, came to the University that day for a tour.

We Remember

Oliver Larouche

Oliver Larouche, founder and supervisor of Hirundo Wildlife Refuge, died this spring at the age of 76.

Larouche graduated from UMaine in 1949 with a bachelor's degree in electrical engineering. A faculty associate in wildlife, Larouche served on the University's Institutional Animal Care and Use Committee. In 1991, he received an honorary degree from his alma mater.

Larouche had a career with GTE (Sylvania) in Massachusetts that spanned more than 20 years. When he retired, he returned to his hometown of Old Town to complete the establishment of Hirundo, a 1,875-acre wildlife refuge that has been a trust of the University of Maine System since 1978.

Through Hirundo, Larouche touched the lives of many in the University community who came to recognize the significance of his vision of acquiring a tract of land for the preservation of wildlife habitat. As a wildlife refuge in close proximity to the University, Hirundo was used as an outdoor laboratory for classroom instruction. In addition, the Hirundo Trust has funded research projects through the years.

The natural setting found at Hirundo made it a popular venue for a number of University groups. Members of the student chapter of the Wildlife Society maintained wood duck nesting boxes at Hirundo. In a long-standing agreement with Judicial Affairs at the University, students facing sanctions for conduct code violations performed community service work at Hirundo.

An archaeological project at Hirundo, initiated in 1971 and conducted by UMaine researchers, has examined the interrelationships between prehistoric man and the environment in central Maine in an inland setting.

As a natural learning center for the University and visitors of all ages, Hirundo was an intense source of pride for Larouche, who served as its faithful steward. Friends and colleagues remember Larouche for his patience as well as his persuasive powers in acquiring land through the years to constantly extend Hirundo's borders. Larouche had an intense love and respect for nature, as well as a profound understanding of human nature. He is remembered for the spontaneity and sincerity of his friendship, and his sheer delight in all that is right with life.

Jean Pressey

Jean Pressey, a member of the University community for 23 years, died July 2 at the age of 68.

A longtime employee of Engineering Services within the University's Physical Plant Operation, she first worked as a member of the support staff. She was promoted through the years and, in July 1979, took over the telephone office, a division of the Physical Plant, as the telecommunications manager, serving in that capacity until her retirement in 1991.

Both Pressey and her late husband, Donald Pressey, a heating engineer overseeing the Steam Plant, worked for the Physical Plant Operation.

Those who knew her remember Pressey as the perpetual optimist — someone who had a good word for all whom she met. It was equally clear to all who came in contact with her that she had a great respect for the University community. It was not unusual to hear Pressey telling people about the University's excellence.

Colleagues note that Pressey left her mark on the University of Maine in terms of being a "PR person" for UMaine, and in the work she did in telecommunications. Pressey set the stage for the telecommunications system now on campus. She left her mark, says one colleague, "in the way the University answers its telephone."

WOULD YOU LIKE TO HOST AN INTERNATIONAL STUDENT FOR A DAY?

In August, the Intensive English Institute will be teaching English to a group of Japanese students from a college in Japan, along with other international students. The Japanese students will be free during the weekend of Aug. 17-18. We would like to offer the students a glimpse of life in the United States, different from the life they will lead as a University student. If you would be interested in hosting one, two, or three students for a few hours a day, or a weekend during the month of August, please call Marion Harris, x3821.

People in Perspective

In his eighth grade yearbook, Harry Hamblen noted that he wanted to be a computer programmer when he grew up.

Today, his life is more like that of a firefighter.

Computers are found in both his professional and personal pursuits. But as the administrative network specialist at the University of Maine, Hamblen finds that it's problem solving more than programming that keeps him on the run.

"Basically, I'm a firefighter," he says. "If someone calls, I respond. I don't turn anybody down. Instead of dialing 911, they dial 1652. But there's a certain irony in what I do because, like firefighting, there's no long-term solutions for the problems I help people face."

Hamblen has been working for Business Services since February where he works as a one-person trouble-shooting department, answering a wide range of questions and addressing concerns about computers in use by administrative offices across campus. There are times that a caller can accurately describe a computer problem well enough for Hamblen to diagnose the dilemma over the phone, but usually solutions require office visits.

For many with computer quandaries in administrative offices, there is now a sense of relief just in hearing the familiar purr of a motorcycle engine. That means its rider, clad in black helmet and black and white leather jacket, will be striding into their offices, pulling up a chair before the most contrary of computers and attempting to bring a flicker of life – and hope – back to the darkest of monitors and the deadest of drives.

Of the numerous calls or e-mail messages for help that he receives weekly Hamblen estimates that 80 percent are problems of "wetware" – human error, rather than software or hardware problems, that result in sweat and tears of frustration.

"Some of the things I deal with daily do make you want to cry," says Hamblen. "That's why you have to look at it all with a sense of humor. Most of the human error problems occur because computer users have had little or no training, so they're stumbling along on their own. And that's not really the fault of the users."

The most common problems Hamblen addresses have to do with network access – access lost on a daily basis for one reason or another, he says. Then there are the easier problems to solve, like the reason the computer won't turn on is because someone has kicked loose the power cord.

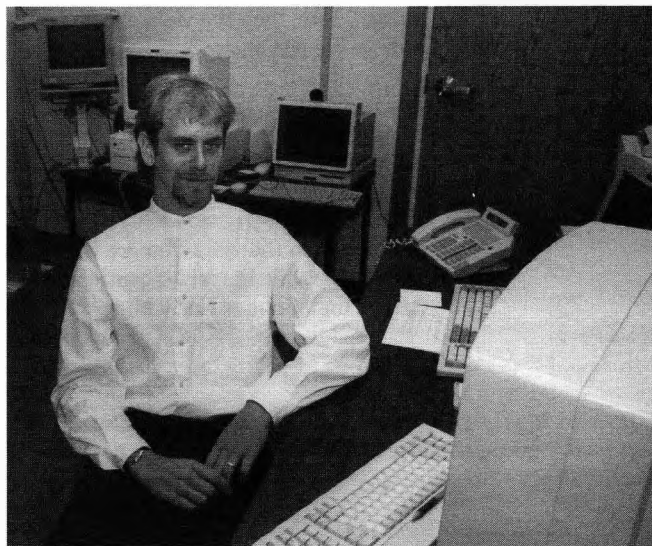
"I've seen just about everything possible," says Hamblen. "The most arcane problem I saw happened prior to coming to the University when someone spilled coffee on a keyboard, washed it under a faucet in a sink, and then wondered why the keyboard didn't work any more."

Prior to joining the University community, Hamblen spent six years as the computer specialist for the Maine Department of Corrections' Maine Youth Center. From database programming and statistical analysis to budget work, Hamblen says if it involved a computer, the job was his.

Hamblen is trained in DOS, specializes in UNIX and works with Macs. At UMaine, most of the administrative clients whom he assists work primarily on Macs.

What he has found in the myriad of users at various levels of ability is that most have a need for training in how to use and maximize the potential of their computer equipment.

"It's important to teach the end-user how to use his or her



Harry Hamblen

Photo by Kathryn Rice

computer, and to discover what computers are capable of doing for them. People I've worked with in other places were not using computers for what they're capable of doing. They use them for word processing, spread sheets and databases when they have so many more far-reaching uses like worldwide communications, and replacement of the telephone for the transfer of information on a daily basis."

Hamblen even points to his hobbies as further reasons to explore the possibilities of computers. As an amateur artist and musician, Hamblen "paints" and draws on computers, and uses programs to play music. And thanks to the World Wide Web, he finds plenty of information about both his preoccupations, he says.

When it comes to citing other misconceptions people have about computers, Hamblen points to the most widely held notion that "by touching a wrong button at the wrong time, people can break things on a computer." The reality, Hamblen says, is that overall, the worst that can happen with the push of a wrong button is the computer locks or the current project that is running is ruined.

"The one that hits home most often is that people have to remember that computers take time to do the programs. People don't have patience when that happens, and they begin hitting keys.

"Fifty percent of what I encounter in computer problems have to do with lack of patience that leads to hitting buttons. An example is when doing Web publishing, modifying a graphic image can result in a 45-minute wait to save it. But you have to be patient and wait."

And yet, while most computer problems for the everyday user can be solved, it's important to remember that not all computer questions have answers – yet. There are still some mysteries of electronics, Hamblen notes.

That's when a sense of humor is more important than ever.

The CUTTING EDGE

University of Maine Research on the Frontiers of Science

Phonics and So Much More

California is taking action to re-emphasize "back to basics" phonics instruction as critics charge that literature-based reading programs have resulted in plummeting reading scores. But before rushing to follow California's lead, University of Maine literacy faculty suggest that other states take a look at the what's happening in Maine, which is experiencing the most successful reading instruction and scores.

Maine fourth graders lead the nation in reading proficiency, according to the 1994 National Assessment of Educational Progress recently released by the U.S. Education Department. Maine's average score was 228 compared to the national average of 212. Nationally, 41 percent scored below the basic skill level. Maine had the highest proportion of fourth graders reading at both the basic and middle levels of proficiency, and was just one percentage point behind Connecticut for the largest proportion scoring at the advanced level.

"Learning to read is a complex task, requiring synchronized cognitive, perceptual and motor skills, so the issue isn't about the importance of phonics but about how best to teach it," says Paula Moore, assistant professor of education and director of UMaine's Center for Early Literacy, which produces the Little Books for Early Readers series. Reading, when appropriately taught, includes phonics, but in service to learning to read, not as an isolated skill in itself, she explains.

"Young readers are highly motivated to learn, and we don't want to lose that excitement by teaching in a decontextualized way. Young children need to learn how spoken language corresponds to letters and letter clusters, but one letter and its sound have no meaning. Most find it easy to learn phonics in the process of reading stories that use natural language and captivate their interest," Moore says.

In Maine, whole language instruction is more than just another great experiment that never really got tried as in some other states, says Jeffrey Wilhelm, assistant professor of education, and author of *Standards into Practice: Grades 6-8*, recently published by the National Council of Teachers of English. College of Education research is centered on teachers and students, and it's having a tremendous impact in Maine schools.

"Teachers really understand reading strategies and apply that knowledge in the classroom," he says. "In most case, phonemic awareness is a useful, scaffolding device to add brief support for certain students at certain times. But we read to find meaning, not to identify words without context."

Literature-based reading has been implemented in Maine schools over the past decade, and it's a major thrust of the University's elementary teacher preparation program. While it's simplistic to say that one system does or doesn't work, there are some important variables that are making a difference, according to the UMaine teacher educators.

▼ Maine has maintained small class sizes, both in elementary schools and in teacher training programs in the College.

▼ While rural states generally are much less affluent than their urban counterparts, educational innovations tend to start and spread quickly in rural areas. In Maine, the dramatic innovation in teaching reading over the past decade is the use of many more real books and far fewer workbooks and textbooks.

▼ The impact of short-term, early intervention programs such as Reading Recovery for at-risk first graders, begun in Maine five years ago, is just beginning to show up in the fourth grade scores.

▼ The University's literacy faculty is significantly active on the national research level, works closely with practicing teachers in the schools, and makes sure undergraduates are knowledgeable in the complex process of learning to read, and in the research and best practice, including a variety of strategies for teaching the reading and writing process.

▼ Children come to school with very different backgrounds and abilities, and need different approaches. Teachers versed in or restricted to only one method will reach only a limited number of children. Maine teachers usually have the flexibility and the knowledge to reach every child.

New Opportunities for Maine Manufacturers

A team of University of Maine engineers is bringing the latest computerized tools to the factory floor in a program designed to apply so-called "intelligent systems technology" to industrial processes. This summer, Maine manufacturing companies can get involved in the program, which is supported by a \$1.2 million state and federal grant administered through the Maine Science and Technology Foundation (MSTF).

UMaine faculty members from the Chemical Engineering and the Electrical and Computer Engineering departments will be working with energy utilities, pulp and paper firms and other manufacturers including S.D. Warren in Skowhegan and The Jackson Laboratory in Bar Harbor. The tools of their trade include such high-tech items as fuzzy logic systems, electronic sensors and neural networks.

"We are looking for companies with an interest in improving their production processes with these tools," says Mohamad Musavi, professor of electrical and computer engineering. "We're not looking for money from them, but there must be a commitment to training their employees and testing new methods."

Over the last year, Musavi and his colleagues have been working with S.D. Warren on a trial basis. "Papermaking has long been called a 'black art' due to the complex and changing inter-relationships within our processes," says Dan Coughlin of S.D. Warren. "Intelligent technologies allow us to peer into our process and decipher these relationships. The University of Maine has been an excellent resource for us in bringing the latest technologies to bear on the topics relevant to our business."

Barbara Knowles, director of research at The Jackson Laboratory in Bar Harbor, credits an improvement in genetics research to use of the same technologies. "It's a real breakthrough for researchers working with mouse genetics. We're able to identify chromosomes much more quickly and accurately," she says.

According to Terry Shehata, director of programs for MSTF, the project will strengthen University research and service to Maine industries. "The intelligent systems project is an exciting example of University research capacity overlapping with industry needs. The Foundation is delighted to see Maine manufacturers taking advantage of this technology that was researched and developed right here in Maine."

The project will involve training sessions and workshops on intelligent systems applications. Additional training will be carried out through a new videoconferencing system being purchased under the grant. Public schools will also be involved through educational projects designed to inform students about manufacturing facilities in their communities.

Funds for the work came from the federal Department of Energy's EPSCoR program and the state.



Ian Davison "hanging out" with an elephant seal.

I n F o c u s

A UMaine Scientist Kissing Neptune

It was no tourist cruise, and he didn't bring back any scenic postcards or trinkets. Instead, Ian Davison, University of Maine professor of botany and marine studies, returned home from a research trip to Antarctica last spring with a memory of kissing King Neptune's feet, a certificate for crossing the Antarctic Circle and three boxes of seaweed.

With support from a National Science Foundation grant, Davison spent four weeks in March at the United States' Palmer Station on the Antarctic Peninsula. Using the station's sophisticated lab facilities, he conducted experiments on growth and metabolism in seaweed, work designed to understand how these marine plants survive and even prosper in harsh conditions.

Closer to home, the botanist is also working on a separate project on a Gulf of Maine seaweed with commercial potential. That work is being done in collaboration with Coastal Plantations of Eastport and has been funded by the UMaine/University of New Hampshire Sea Grant Program.

"For about 10 years I've been working on how temperate seaweeds in places like Maine adjust to seasonal changes in temperature, how their metabolism changes. A logical extension of that is to go to the Antarctic to look at seaweeds which are in chronically low temperatures for the entire year," says Davison.

Unique research opportunities

Davison is one of a group of more than 50 past and present UMaine students and faculty who, like the New England mariners of the 19th century, have taken advantage of opportunities on and around the frozen continent. Antarctica provides a unique laboratory for testing theories about how fish, plants and other forms of life adapt to the coldest environment on Earth.

Because the Antarctic environment also exerts strong influences over global climate and ocean circulation, it has become a mecca for UMaine scientists working to understand processes as diverse as the movements of ocean-based ice sheets and the adaptations of marine species. The Palmer Station where Davison worked has been established as a long-term ecological monitoring site by the U.S. government.

On his March trip, Davison worked with Ken Dunton, a UMaine graduate now working at the University of Texas; Valarie Gerard of the State University of New York, Stonybrook; and John Heine, a marine biologist and a diver from the Moss Landing Marine Lab in California. Davison, Dunton and Gerard are comparing the growth and productivity of seaweeds in Antarctica, the Gulf of Maine and

the Arctic. Their goal is to understand the fundamental processes that enable these plants to thrive under such different conditions of temperature, light regimes and nutrient supply.

The group is currently focusing on one species of Antarctic seaweed (*Himantothallus grandifolius*), which grows to more than 50 feet long. Like kelp in Maine, it can establish dense colonies on bare rock or in unlikely places like the hulls of sunken ships. In fact, an Argentinian cruise ship which sank near Palmer Station in 1989 is now covered with the seaweed.

"At Palmer, there is a very rich seaweed flora," says Davison. "When you dive, you find very thick beds of large seaweeds. Nobody knows how old they are or how fast they grow."

"There is very little work done on Antarctic seaweeds, so we don't really know how important they are to the overall ecology of the area. The data that we have suggest that the growth rates and photosynthetic rates are comparable to those of temperate seaweeds. The question is, how are they doing that? The answer may have some implications for understanding photosynthesis and plant growth in Maine and other areas where plants experience low temperatures."

Like spring in Maine

Traveling to Palmer took Davison more than a week by way of New York, Miami and Santiago, Chile. Five days were spent on a



Antarctica's glacial landscape.

Antarctic Voyage e's Feet and Bringing Home the Seaweed

rolling ship crossing the Drake Passage between Punta Arenas, Chile and the U.S. station. Before arrival, he had braced for bitter cold weather but found that conditions were more like spring in Maine. "The temperatures probably averaged around 30. When we had precipitation, it was usually rain or sleet or occasional snow.

"Palmer sits on a little peninsula that's bare rock. It's a fairly small area, a large part of which is covered with the buildings and the station. Immediately behind that is a glacier. You can hike on the glacier, but the station itself is a fairly confined area."

One of things about living there is that you're in close proximity to about 40 other people, and you're isolated from the outside the world, he says. "I was probably in the lab by 8:30 and worked until midnight or 1:30. The phone never rang. No committee meetings. There was nothing to worry about except doing research. It was nice to get back to why I got into science in the first place. Plus it's a really beautiful place."

Disgusting food remains

The return trip took Davison further south across the Antarctic Circle. In honor of that occasion, the ship's crew gave first-time Circle crossers an initiation involving what Davison calls some "really disgusting" food remains.

"First, they took us downstairs one at a time and made us drink a huge tumbler full of really bad red wine to fortify us. Then we were

led onto the fantail at the back of the ship where the captain was dressed up as King Neptune in a sou'wester, a crown and a trident. A scientist who had been across the circle before was dressed up as his queen. They were sitting in chairs, and I was pushed down to my knees, and a mixture of seawater and disgusting oatmeal and rotten eggs was poured over me.

"The captain said, 'kiss my feet. How dare you be here in my realm?' I said, 'it's not my fault. The captain's an idiot and doesn't know where he is.' Five or six of the crew were banging buckets and making a row. Fortunately the ship had a laundry."

On the trip home, Davison and his colleagues brought three boxes containing about 250 young seaweed plants packed in seawater and ice. All went well until they arrived in Miami with their cargo, and a promised ice delivery failed to show up. "It was hot, and we were sure the plants were going to be cooked. But we got to Long Island, and there was still ice in the boxes. The plants were much easier to transport than fish would be."

Over the next year, Davison and his students will be conducting further studies with the 80 plants he brought back to Deering Hall. They will be looking in particular at the enzymes which regulate growth and photosynthesis.

Next year, the group plans to return to Antarctica to monitor the growth of plants they tagged this year. On that trip, Davison hopes to indulge his love of fly-fishing in several Andean trout streams. ▲



Ian Davison and the other researchers with a sample of the giant seaweed.



A collection of inflatable Zodiac boats used for research, moored at the station.



Mohammad Omary, chemistry graduate student, Howard Patterson, professor of chemistry at Angelo State University, San Angelo, Texas: "Photoluminescence and Electronic Structure Studies to Probe Metal-Metal Interactions in Thallium Dicyanoargentate (I): A New Low Dimensional Solid State Class," *Molecular Crystals and Liquid Crystals*, 284:399-409 (1996).

Jeffrey Hecker, associate professor, **Melinda Losee** and **Bryan Fritzier**, graduate students, and **Christine Fink**, former graduate student, all of the Department of Psychology: "Self-directed Versus Therapist-directed Cognitive Behavioral Treatment of Panic Disorder," *Journal of Anxiety Disorders*, 10(4):253-65 (1996).

Jeffery Wilhelm, assistant of education, with Brian Edmiston, University of Wisconsin-Madison: "Playing in Different Keys: Research Notes for Action Researchers and Reflective Drama Practitioners," invited chapter; *Researching Drama and Arts Education: Paradigms & Possibilities*, pp. 85-96, edited by Philip Taylor; published by The Falmer Press (1996)

David Brown, **Constance Perry** and **Walter McIntire**, professors of education, and **Rebecca Carr**, research associate: "Principals' Perceptions of Community and Staff Involvement in Shared Decision Making," *Journal of Research in Rural Education*, Vol. 12, No. 1 (Spring 1996) pp. 17-24.

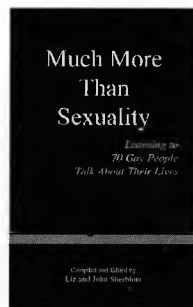
John Moring, professor of zoology: "Fish Discoveries by the Lewis and Clark and Red River Expeditions," *Fisheries*, 21(7):6-12 (1996).

A revised edition of the *Dairy Nutrition Manual, Bulletin #2107* was recently published by the New England Committee on Dairy Nutrition. This manual for producers contains a summary of the recent information on the principles of dairy nutrition, new nutrition technology, and on nutritional requirements and feed practices. The manual was written or revised by 11 research, teaching and Extension faculty of New England land-grant and private institutions, and two employees of leading New England feed companies. Maine authors were **Calvin Walker**, Extension educator and dairy Extension specialist, UMaine Cooperative Extension (UMCE), and **Martin Stokes**, professor of animal, veterinary and aquatic sciences. The publication was printed by the UMCE.

Paul Grosswiler, assistant professor, department of communication and journalism, refereed article: "The Dialectical Methods of Marshall McLuhan, Marxism, and Critical Theory," *Canadian Journal of Communication* (Winter 1996) Vol. 21, pp. 95-124.

V O L U M E S

Recent Works by University of Maine Authors



Much More Than Sexuality: Listening to 70 Gay People Talk About Their Lives
Compiled and Edited by **Liz and John Sherblom**
(Audenreed Press, Brunswick 1996)

All we saw growing up was just the real flamboyant, the real feminine. That's all that was visible on TV. . . . That's what gay meant. . . . You sit there going, 'Good God, is that what I am?' Your mind goes loop-de-loop.

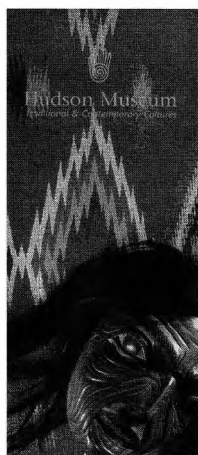
(Gay Male Interviewee)

Much More Than Sexuality moves beyond the stereotypes of "Gay" and "Lesbian" to interviews with real people talking about their lives. Compiled and edited by John Sherblom, associate professor of communication and journalism, and his spouse, Liz, an artist and market researcher, the book offers an introduction to 70 different people, many of whom share only one common characteristic — they happen to be gay. The individual stories are taken from interviews with voluntary participants, ages early 20s to almost 80, that were conducted by Liz Sherblom between February–June 1993 throughout the Northeast.

The book is about "human lives and spirit, about love and joy, about sadness, grief and fear, about children, family, partners, friends, sexuality, homosexuality and occasionally about AIDS." The stories told are first-person accounts of being a lesbian woman or gay man in the United States today. They are people living against a backdrop of social and political debate about, and discrimination against, gay people as being somehow "different" or "other."

The editors write that their intention in compiling this book is "to facilitate a small step in the direction of re-examination people as fellow human beings, rather than as part of a group defined and stereotyped on the basis of one or another innate characteristic. In that respect," they say, "we hope that it adds to our oneness."

The editors have donated 10 percent of the profits from this book to "the benefit of social justice."



A Hudson Museum brochure created by its staff designer, Cindy Eves-Thomas, has won acclaim from two professional organizations.

The full-color informational brochure, designed for a general audience, received second place from Maine Media Women. It also took third place for promotional brochures in the New England Museum Association's 1996 Publication Awards. The publication was among 134 entries from NEMA's 50 institutional members.

"What we were aiming at was to show how exciting the Museum could be to the average person — that it isn't just a dull dusty place with dull dusty stuff in it," says Eves-Thomas, whose design complemented copy written by the Museum's education specialist, Joan Klusmann.

With photos of a Northwest Coast mask on the front and, on the inside, a necklace of amber beads from West Africa and Inuit goggles, the publication represents diverse cultures, textures, color and material.

Eves-Thomas has been in-house designer at the Hudson Museum for four years, and has worked at the University most of the time since 1980.

Along with the other NEMA winners, the brochure will be donated to the Boston Public Library after being exhibited during NEMA's annual conference in Portsmouth, N.H., in November.

EAP SERVICES IN THE SUMMER

Summer coverage for Employee Assistance Program (EAP) Services through Tuesday, Sept. 3 is being provided by the UMaine Counseling Center. For an appointment, call x1392, identify yourself as an employee or a family member, and state you are seeking EAP services.

EAP consultations are STRICTLY CONFIDENTIAL. For questions about EAP emergencies, ask for Charles Grant, x1392.

Employee Assistance Program-Emergency Loan Fund is being suspended until Sept. 3. The EAP office will be closed in August.

There will be openings in September for a faculty, professional and Chancellor's Office representatives on the EAP Advisory Council. If interested call the EAP office, x4014. If you have expressed an interest in the past, call to resubmit your name. Preference is made for resubmittals.

Penobscot Bay Conference Zeroes in on Research Needs

Assembling a composite picture of the complex ecosystem of Penobscot Bay is key to ensuring its economic future, according to organizers of a conference held in May in Searsport.

"We lack a synthesis of current knowledge, a framework, and priorities for future investigations," said Robert Wall, director of the University of Maine Sea Grant Program.

Jointly sponsored by the Penobscot Bay Network and the Sea Grant Program, the forum on "Marine Science and Sustaining the Health of Penobscot Bay" brought together researchers from the University of Maine, University of New Hampshire, Maine Maritime Academy, Maine Department of Marine Resources and Maine Department of Environmental Protection to meet with representatives of local, state and federal government, and organizations with an interest in the future of the bay.

According to scientists who attended the conference, research on Penobscot Bay is significant because there is so little of it. Discussion centered on what scientists know about the bay and how to frame issues for future studies.

The bay's economic importance was underscored by Robert Steneck, UMaine professor of oceanography, who pointed out that about half of Maine's lobster landings and 30 percent of sea urchin landings come from counties around the bay.

"Penobscot Bay is still very productive, and we should make use of it," added Dan Schick of the Maine Department of Marine Resources. Schick noted that the bay holds underutilized species which have markets in the U.S. and overseas. These new fisheries resources could be tapped, but only after information is available on their sustainability and on the appropriate gear, fishing techniques and management tools.

Several participants described problems in the bay, including contamination of sediments, closed clam flats, and a health advisory on lobster tomalley. Eelgrass beds, which provide nursery habitat for several commercial species, are well below historical levels, according to Fred Short of UNH, although some increases have been noted recently near Belfast.

According to Steve Miller of the Islesboro Island Trust, attempts to reseed historically productive clam flats on the island have failed for unknown reasons. Causes may be related to water or sediment contamination or other factors affecting clam reproduction.

These problems may be warning signs of more fundamental problems, other speakers noted, but current information does not allow scientists to provide a reliable diagnosis. Larry Mayer of the UMaine Darling Marine Center pointed out that the bay's harvestable resources depend on unseen microorganisms such as bacteria and plankton.

"Knowing the bay by its visible resources is like describing the economy on the basis of sports stadiums and opera houses," said Mayer. "We need to take a gardener's approach to the system, maintaining productivity over the long run and keeping a healthy and functioning ecosystem." ▲

Viola d'amore *continued from page 5*

The viola d'amore has 14 strings, arranged in two parallel rows, and a thicker neck. The two rows of strings lie one atop the other, with the top seven the only ones that are played. The bottom ones are "sympathetic," their presence influencing the overtones, enriching the resonance.

"It gives sweetness to the sound," says Wieck, in English flavored with Latvian.

The heyday of the viola d'amore was about 300 years ago; its origins are uncertain, says Wieck, who first heard the instrument played 15 years ago. Some believe early versions originated in North Africa, then traveled to Italy and the rest of Europe through Spain.

"There's not much to prove the theory," Wieck says, pointing to one of the few indicators that bear it out: its sound holes, which take the shape of flaming swords, a symbol he says is common to Islam.

The viola d'amore is a member of the viol family — which marks it as an instrument of the privileged class — rather than of the more populist violin family. Both, however, are constructed of maple on the back and spruce on the front.

The instrument's qualities made it a good fit for the harmonic style of baroque music, although its fragility and lesser versatility explain its rarity, says Wieck.

He began his own search for a viola d'amore upon moving to Orono in 1986. Four years ago, his violin dealer, Robert Lorimer of Bangor, called and said he'd located one.

"I told him to go ahead," says Wieck, although because the instrument was in New York City and inaccessible to a test run, the proposition was risky. He couldn't be sure, for example, that the fit would be to his liking, an important consideration for a musician. He obtained a 250-year-old instrument, its neck topped by an ornately carved woman's head, its workmanship suggesting prominent origins.

The risk proved worth taking, and Wieck began to compile a repertoire. Parts written for the instrument are not always readily available, and are fewer in number than for other instruments. Thus, in the course of his research, Wieck has hand-copied a half-dozen Vivaldi concertos from complete works editions in the University's Fogler Library, and continued his search in other libraries in the United States and Europe. Wieck intends to impose modern technology upon the old music, using computers to aid in its editing.

So he had the instrument and the repertoire, but still lacked a necessary ingredient.

"Soon I realized that I was beginning to get into the baroque repertoire without having any training in baroque performance practices," he says, explaining that baroque music often is set down on the page more as a structure from which the musician improvises, while music of later periods is played as written.

During a sabbatical two years ago, he studied baroque violin and chamber music with Carol Lieberman at Boston University, and now teaches a course at UMaine in baroque performance practices.

His work with the viola d'amore adds a new chapter to a musical life. Wieck received early training in his native Latvia and in Moscow, and continued upon arriving in the United States in 1973. He has studied violin under Yuri Yankelevich, Zinaida Gilels and Ivan Galamian, viola with Lillian Fuchs and Paul Doktor, and chamber music with members of the Juilliard String Quartet. Wieck, who also performs on baroque violin and viola, has given concerts in North America and Europe as a soloist and chamber musician, and is on the roster of the Maine Touring Artists Program sponsored by the Maine Arts Commission. ▲

Please be advised that University Credit Union's branch office at the Memorial Union will not reopen in the fall. The Memorial Union is in the process of reorganization, therefore we will be relocating our services to the main office on Rangeley Road, offering you convenient hours and a variety of services that will meet your needs.



Wei Hu, graduate student in food science and human nutrition, presented a poster, co-authored by **Alfred Bushway**, professor, **Richard Work**, scientific technician, and **Therese Work**, food scientist: "Chemical, Physical and Sensory Characteristics of Disease-Resistant Apple Cultivars," at the Institute of Food Technologists Annual Meeting in New Orleans, June 22-26.

Dorothy Breen, associate professor of education, presented a paper: "Applications of Kaufman's Interpersonal Needs to Use of Play Therapy in Schools," at the International Play Therapy Conference, Ede, The Netherlands, May 23-25.

Michael White, science and engineering librarian, presented: "Patents and the Engineering Curriculum," at the American Society for Engineering Education's 1996 annual conference in Washington, D.C. The panel discussion also included Martha Crockett Sneed, director of the Patent and Trademark Depository Library Program and Lawrence Goffney Jr., deputy assistant secretary of commerce and deputy commissioner of patents and trademarks.

Aly Nazmy, associate professor of civil engineering, attended the Eleventh World Conference on Earthquake Engineering in Acapulco, June 23-28. The international conference, sponsored by the International Association for Earthquake Engineering, is held once every four years in a different country, and is a gathering opportunity of world experts in the field of earthquake engineering. From 1,700 technical papers included in the conference proceedings, Nazmy's paper: "Earthquake-Response Characteristics of Long-Span Arch Bridges," was among the top 10 percent outstanding technical papers selected for oral presentation at the conference by the International Review Committee. The paper was enthusiastically received by the conference attendees.

Paul Grosswiler, assistant professor, Department of Communication and Journalism, presented a refereed research paper: "Symbolic Labeling of Cuba and Vietnam in Selected U.S. Newspaper Editorials, 1991-1994," to the International/Intercultural/Development Communication Division of the International Communication Association 46th National Annual Convention, May 23-27, Chicago.

Paula Moore, assistant professor of education and director of the UMaine Center for Early Literacy, and Anne Rhodes-Kline, College of Education research associate, participated in the national Reading Recovery Teacher Leader Institute in San Francisco, May 30-June 2. Moore's presentations included: "Becoming Literate: In-Depth Study Session," and "Use of Guidesheets in Teacher Training Classes." Rhodes-Kline presented: "Second Round Reading Recovery Children: What are the Important Differences?" and "Data and Research on Reading Recovery."

Faro de Vigo (the newspaper of the city of Vigo in Galicia, Spain) published an interview (with picture) of Professor of Spanish **Kathleen March** in its July 10 issue. The interview followed a paper presentation by March: "The Heirs of Rosalia de Castro," for a summer seminar on Women and Writing held at the Universidade de Vigo. The paper was given in Galician; the interview done in Galician and Spanish. In both cases, the topic was the ways in which contemporary women writers draw upon the 19th century poet and novelist Castro for their own literary creation. The week-long seminar was attended by scholars from throughout Spain, and several from other European countries.

Speakers in the 3rd annual Maine Water Resources Conference May 10 in Lewiston included **Warren Hedstrom** and **Rose Mary Seymour**, Bio-Resource Engineering; **Lynn Katz**, Civil and Environmental Engineering; and **John Jemison** and **David Yarborough**, Cooperative Extension. The conference focused on conflicting uses of Maine's water resources with specific talks on withdrawals for irrigation and competition among industrial, municipal, commercial and recreational uses for lakes, rivers and marine waters. Conference organizers included the UMaine Water Research Institute, Cooperative Extension and Department of Public Affairs in cooperation with Maine Consumers Water Co., Department of Environmental Protection, the State

Planning Office, U.S. Geological Survey, Maine Geological Survey and New England Water and Wastewater News.

Howard Segal, Bird and Bird Professor of History, was a panelist evaluating proposals for a new National Endowment for the Humanities initiative on: "Teaching With Technology," Washington, D.C., May 30.

Deirdre Mageean, assistant professor of public administration and research associate, Margaret Chase Smith Center for Public Policy, gave a paper: "Migratory Responses to Climate Change: Lessons from Past Patterns," and chaired a session on Demographic Responses to Climate Change: Past and Present, at the 1996 Annual Meeting of the Population Association of America in New Orleans, May 9-11. Mageean and **John Bartlett**, graduate student in the Department of Wildlife Ecology, gave a paper: "Integrating Social Science Data with the Landscape Ecology of the Coterminous United States," at the 6th International Symposium on Society and Natural Resources, Penn State University, May 19-23.

Four faculty members of the Department of Animal, Veterinary and Aquatic Sciences and their graduate students attended the Northeast Regional Meetings of the American Dairy Science Association and the American Society of Animal Science, July 7-9, Portsmouth. Doctoral candidate **Shuyun Zheng** presented a paper in the graduate school paper competition, co-authored by professor **Martin Stokes** and scientific technician **Alma Homola**: "Effects of Fibrolytic Enzymes on Digesta Kinetics and Growth of Heifers." Extension dairy specialist **David Marcinkowski** presented: "Development of a Dairy Bulletin Board System as a Tool for Extension Education of the Maine Dairy Industry," co-authored by dairy Extension specialist **Calvin Walker**. Assistant professor **James Weber**, with doctoral candidate **Kun Xu**, presented: "Factors Affecting Fertility of Dairy Cows Induced to Ovulate Early in the Postpartum Period." Four posters were also displayed: "Improving Agricultural Resource Management in Benin," by recent doctoral graduate **Denis Mikode**, Stokes, and former associate professor **Barbara Barton**, now of Purina Mills Inc., St. Louis; "Effect of Enzyme Application Rate on the Fermentation and Composition of Alfalfa Silage," by Stokes, doctoral candidate **Yanbing Wang**, master's student **David**

Bartlett, recent doctoral graduate **Jichun Chen** and scientific technician **Anne Chase**; "Effect of Enzyme Dilution on Composition of Grass Silage," also by Stokes, Wang, Bartlett, Chen and Chase; and "Lack of Effect of Soft Water on Milk Production," by Stokes, recent AVAS graduate **Lorie Webster**, scientific technician **Katherine Davis-Dentici** and Chase. Associate professor **Charles Wallace** organized the judging of the graduate student paper competition. Stokes chaired two paper sessions and is now president of the Northeast Branch of ADSA.

Kyriacos Markides, professor of sociology, served on a panel, by invitation of the U.S. Institute of Peace, to discuss U.S. foreign policy and the future of Greek-Turkish relations, Washington, D.C., June 12.

Professor **Merrill Elias**, psychology, received the Master's Degree in Public Health with a concentration in epidemiology and biostatistics at Boston University, May 19, 1996, after a number of years of work in summer and evening classes offered by the New England Epidemiology Institute and Boston University School of Public Health.

Howard Patterson, professor of chemistry, presented a seminar: "Luminescence Studies of Interacting Gold and Silver Dicyanide Complexes: A Low-dimensional Solid-state Class," at the Universitat of Regensburg, Regensburg, Germany, May 23. Patterson has a NATO grant for joint scientific research with professor Hartmut Yersin of the Universitat of Regensburg.

Katherine Musgrave, professor emerita of food science and nutrition, has become certified as a Fellow of the American Dietetic Association and may now use the designation, FADA. To become certified as a Fellow by the Commission on Dietetic Registration (CDR), the credentialing agency for the American Dietetic Association (ADA), a registered dietitian must successfully demonstrate exceptional professional abilities and expertise through a rigorous portfolio assessment. Currently, less than 1 percent of all registered dietitians have achieved this accomplished status. With over 67,000 members, The American Dietetic Association is the world's largest group of food and nutrition professionals. As advocate of the profession, the ADA serves the public by promoting optimal nutrition, health and well-being.

Erdogan Kiran, Gottesman Research Professor of chemical engineering, was an invited lecturer at the Department of Chemical Engineering and Food Science at the University of Salerno in Italy, May 15-22. He gave presentations on: "Miscibility of Polymers in Near Critical and Supercritical Fluids," and also on: "Phase Separation from Polymer Solutions at High Pressures."

July 9, Professor Emeritus of History **C. Stewart Doty** presented: "Rural Northern Maine Through the FSA's Eyes," as part of the National Endowment for the Humanities-funded summer institute for Maine teachers: "In View of America: Photography's Role in Creating a Nation's Identity," Bowdoin College.

Professor **Melvin Burke**, economics, presented a paper: "Las empresas multinacionales y la integración economi de Mexico y Norteamerica," at the International Symposium "Mexico en America," Universidad Autonoma de Sinaloa, Culiacán, Mexico, May 31.

Edward (Sandy) Ives, professor of folklore and director of the Maine Folklife Center was awarded the degree of Doctor of Letters *honoris causa* by Memorial University of Newfoundland at its May Commencement, at which he also gave the Commencement Address: "Crossing Ogden Avenue: An Essay on Knowing." June 21-23, he attended the Dublin Seminar on New England Folklife in Deerfield, Mass., where he read a paper: "'How Got the Apples In?': Tradition and Creativity in Ballad-Making."

Jennifer Craig Pixley, English, gave a paper: "A Particular Woman: Science in the Poetry of Ruth Stone," at the 1996 National Poetry Foundation Conference, "Poets of the Fifties," in Orono.

Paul Taylor, former graduate student in the Department of Food Science and Human Nutrition, presented a paper: "A Fluorescence Double-quenching Technique to Assess Native Lipoprotein Structure," co-authored by **Manal Omary**, graduate student in the Department of Chemistry, **Howard Patterson**, professor of chemistry, and **Dorothy Klimis-Tavantzis**, associate professor of clinical nutrition, at the 22nd Annual Maine Biological and Medical Sciences Symposium at the University of Maine, May 30.

Since February, **Judy Round** and **John Hanson** have worked with United Way of Eastern Maine through the all-volunteer distribution process. Along with more than 100 other volunteers, they have been visiting United Way agencies, reviewing budgets, and evaluating services. An allocation amount for the next fiscal year was recommended to the Board of Directors, which gives final approval for each agency. As part of this process, volunteers also look at new agency applications to determine if they meet the criteria for United Way support. In addition, they look at existing designation-only agencies to determine their status for the coming year. More than \$1,148,000 will be distributed to 33 allocation agencies through United Way's Community Fund.

In July, **Stuart Bruchey**, Libra Professor of History and professor of economics, addressed 50 high school teachers in Gulfport, Miss., on the subject of American business in the global economy of the 21st century, and on the relationship between capitalism and Western values. In addition, Bruchey has been informed that his biography has been selected for publication in the 1997 edition of *Who's Who in the East*.

President's Council on Women

When is a Benefit not a Benefit?

The 1996-97 agenda of the President's Council on Women focuses on a single issue: the ability of members of the classified staff to make use of their collectively bargained benefit of tuition waiver for University study.

Article 26 of the C.O.L.T. Collective Bargaining Agreement describes the benefit. It stipulates that "requests by a unit member to take a course during his or her normally scheduled work hours shall be subject to supervisory approval, which shall not be unreasonably denied," and that the supervisor shall make arrangements for the unit member to make up regular work hours missed, or to approve (but not require) the unit member's use of unpaid leave or annual leave for such purposes.

It is difficult to find fault with the intent of this article. Enlightened employers view workers as resources to be developed. In the case of the University in particular, the employer is one whose mission and identity may be said to consist of encouraging educational aspirations.

The University offers a limited array of evening courses, and a severely limited set of degree programs that can be completed exclusively in evening study. For full-time office workers (95 percent of whom are women) and other classified staff who work normal office hours, arrangements to take courses during those hours are essential to fulfilling the spirit and the letter of the agreement.

Fortunately, Meridian Mail and other new office technologies have made such arrangements easier than ever, and the University's renewed commitment to a student-centered approach has made them more appropriate than ever. Unfortunately, however, some supervisors deny approval to take courses during normally scheduled work hours, not just to a particular employee in a particular position, but to all classified employees in their unit. Others grant approval only when, in their estimation, the course is directly related to the job the employee presently performs. Still others require that the employee use unpaid or annual leave to take courses scheduled during working hours.

As a direct result of such supervisory decisions, workplace morale sinks, employees are arbitrarily denied a benefit collectively bargained in good faith, educational aspirations are stunted, career aspirations are diverted, and human potential goes unfulfilled. This seems to the Council too high a price to pay for the alleged benefits of leaving no desk unstaffed from 8 to 4:30. We will work in the coming year to change practice and policy: our vision is a workplace in which supervisors must make a compelling case for denying supervisees the opportunity to pursue a freely chosen course of study.

World Wide Web Watching

Some of the newest homepages:

The University of Maine System pages have a new look. Check them out at <http://www.maine.edu/>

The Visitors' Center now has its own page presence on the Web, under the Public Affairs site. Come for a visit at <http://www.ume.maine.edu/~paffairs/maptour/VWEB1.html>

The Athletics and Recreation Department now is on the Web. You'll find it at <http://www.ume.maine.edu/~athletic/>

The Cooperative Forestry Research Unit and Natural Resources Program is now found at <http://www.ume.maine.edu/~nfa/cfru/welcome.htm>

The Bureau of Labor Education is now online, located at <http://inferno.asap.um.maine.edu/labored/>

The Radiation Education Program has a new Web Site, found at <http://kramer.ume.maine.edu/~panda/phyast/homepg2.htm>

Check out the **Department of Human Development and Family Studies** at <http://inferno.asap.um.maine.edu/sbs/Humandev/>

MEMORIAL UNION BUILDING HOURS

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

Bookstore: Monday-Friday, through Aug. 23, 8 a.m.-4:30 p.m., closed weekends. Aug. 26-30, 8 a.m.-5 p.m.; Aug. 31, 10 a.m.-4 p.m.

Computer Cluster: Weekdays, 8 a.m.-9 p.m.; Weekends: 10 a.m.-9 p.m.

Food Service:

Damn Yankee/Taco Bell, through Aug. 25, 10 a.m.-6 p.m. daily; closed Aug. 26-30.

Bear's Den, through Aug. 25, 7 a.m.-1:30 p.m. daily; Aug. 26-29, 7 a.m.-3 p.m.; Aug. 30, 7 a.m.-9 p.m.; Aug. 31, 10 a.m.-9 p.m.

Coffee Shop closed.

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

Newscounter: Monday-Friday, 7:30 a.m.-4 p.m.; Closed weekends.

Professional Offices: Weekdays, 8 a.m.-4:30 p.m.; Closed weekends.



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

FOR SALE

AUTOMOBILE: 1984 Ford Escort diesel. 45 mpg. Runs great. \$700. Call 825-4779.

GOLF CLUBS: Affordable, custom-made golf clubs. Many styles available. Full sets or individual clubs. Experienced club-maker. Also, regripping and some used sets in good condition. Call 732-5112.

HOUSE: Four BRs, 2 baths with large living, recreation and family rooms, kitchen with built-ins and all conveniences, finished laundry and office/computer rooms. Fireplace, hardwood floors, attached garage and porch. Baseboard hot water heat. Municipal water and sewer. New paint inside and out. Custom-built for current owner with many attractive features. Superb location within easy walking distance to schools, downtown, Stillwater River and Orono Land Trust. No brokers or buying agents. Call 827-4385, eves for more info.

HOUSE: Bangor Cape, 5 years old, in quiet location. Two-car garage, 4 BRs, 2 full baths, LR, Kitchen/DR area, cherry cabinets, carpeting and vinyl floors throughout, PT deck, full dry basement, cedar siding, 12" attic and 6" wall insulation, Anderson Lo-E windows, extensive landscaping, fenced-in backyard, wonderful family neighborhood, Bangor water and sewer. Appraised at \$119K. Asking: \$109,900. Call 945-0823 after 6 p.m.

HOUSE: Well-built house for sale 1.5 miles from campus and just steps from the Stillwater River, schools, and the Orono Land Trust. Three BR, corner wood-burning fireplace in LR, 1.5 baths, large family room/study, hardwood floors, double garage, and PT deck overlooking private back yard. \$109,500. Contact: Paula, 947-3363.; evenings: 866-2297.

LOG CABIN: Cabin with solid log construction on scenic 1-acre lot on Sebec Lake. 160' sand beach frontage. 3 BRs, 2 kitchens, 2 baths, fully furnished, including washer and dryer. Offered at \$148,000. Call 866-2246.

MISCELLANEOUS: Macintosh Powerbook 140 + software (Word, Excel, etc.), \$500; RCA color TV, \$175; GE microwave, \$50. Call 866-0197.

MISCELLANEOUS: Large side by side refrigerator, \$75; small clothes dryer, \$100. Call Mike, 947-0607, evenings, leave message.

MOBILE HOME: 1983 Oxford 14x56, quality constructed with vinyl siding, shingled roof and T-111 skirting. In excellent condition. Includes attached mudroom, all appliances, shed, axles & tires. Can be moved or stay in quiet, low-rent park 10 minutes from campus. Moving in September. Must sell! Asking \$12,900. 827-2243. Please leave message.

PRINTER: Epson Apex T-1000 dot matrix printer. Near-letter quality, built-in fonts, graphics capability. Good condition. \$40. 732-5112.

PUPPIES: AKC golden retriever pups. Strong, healthy. Family-raised. Females, \$250, males \$225. Ready to go mid-month. Call 884-8493.

SNOWMOBILE: 1987 Ski Doo citation 250E. No dents, rips. New belt, runners, tune-up, hitch. Excellent condition. \$800 or BO. Call 990-3509.

FOR RENT

APARTMENT: Charming Cape Cod, 2BRs, study, LR, kitchen with appliances and full bath. Carpeted throughout except for kitchen and bathroom. Convenient, off Stillwater Ave. Clean, quiet, bright and sunny rooms with large closets. Large backyard and off-street parking. Heated, W/S, parking, plowing and mowing included. \$495/month, references and security. No pets. Non-smoker preferred. Mature professional student or couple. Call after 6 p.m., 941-6442.

APARTMENT: Old Town, 2 BRs, washer & dryer, 5 minutes from campus, close to bike path, plenty of storage space, quiet house, ideal for graduate student. \$375/month + utilities. 941-0054.

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

HOUSE: Available Aug. 1 in Old Town. Cozy 2-BR cape-style home in quiet neighborhood. Ample lot is tree lined and within walking distance of shopping center, schools, bus, and the UMaine bike trail. Nice, quiet neighborhood. Kitchen, living room and dining area have wall-to-wall carpeting. Yearly renewable lease for \$500/month, plus utilities. References, non-smokers, please. Call 827-2743 evenings after 9:15.

HOUSE: Lovely 3 BR ranch with 1-car garage in quiet family neighborhood in Milford. Partly furnished an option. Prefer responsible adults. Must be non-smokers. Oil heat, city water and sewer. \$700/month plus utilities. Pets negotiable. References required. Call 827-8631.

HOUSE: For lease. Located on College Avenue, this beautiful, clean, modern home is available Aug. 3. 4 BRs, 2 BRs, library/office, formal DR, LR, deck, appliances, W/D, and 2 refrigerators. Located 500 feet from campus. Perfect for faculty or five quiet, responsible students. Call Scott, 866-3677.

HOUSE: Seven rooms, 3-4 BRs, 1 bath. 1 mile to UMaine, 37 Pond St. \$700/month, negotiable. Utilities not included. References. Lease/security deposit. Perfect for family/faculty. Call 610-995-2670 or 410-398-4590.

SERVICES

LAWNMOWING AND CHAIN SAW WORK: Lawns mowed and trimmed. Tree trimming and removal, pruning, brush cutting, firewood cutting. Very fair rates. Old Town/Orono area. Call Mike, 827-7087, and leave message.

WANTED

TEXTBOOKS SALES REP: Educational publishers John Wiley & Sons Inc., is seeking a college sales representative to be based in the Orono/Bangor area, calling on local colleges and universities on a part-time basis in our Maine

territory. This part-time sales rep will work a day or two per week on campus fostering relationships with faculty and will be responsible for increasing market share of print and electronically based educational resources and the acquisition of manuscripts/new media projects for future publication. Idea candidate should have a four-year degree or equivalent education, intellectual curiosity, an enthusiastic interest in publishing, strong sales aptitude, self-motivation, and exceptional communication and organizational skills. Good starting salary, car allowance, expenses, and incentive bonus plan. Send (or fax) letter of introduction and resume in strictest confidence to: Neil Cronin, 7 Hunter Place, Exeter, NH, 03833. FAX: 603-778-1530. Only those we plan to interview will be contacted. Equal Opportunity Employer.

HOUSING: Retired couple looking to rent furnished house or condominium in Bangor/Orono area for October-November. At least 2 BRs. Call 947-0265 or (203) 661-8069.

PARKING OFFICE HOURS

The summer hours for the Parking Office in the Department of Public Safety will be 7:30 a.m.- 3:30 p.m., Monday-Friday, through Aug. 23.

CAREER CENTER SUMMER SERVICE

From now until Aug. 16, telephone, fax and correspondence service will be available, and job listings and referral sources will be available in the Career Center lobby, Chadbourne Hall. Full service will resume on Monday, Aug. 19. For more information, call x1359.

Directory Changes

Virginia Gibson, Interim Dean, College of Business Administration, 211B Donald P. Corbett Business Building, 581-1968.

Jeffrey Sosnaud, Interim Associate Dean, College of Business Administration, 213 Donald P. Corbett Business Building, 581-1932.

Fran Daly-Griffin, change of email address: fran_daly-griffin@voyager.umeres.maine.edu

New on Campus

Among the newest members of the University community are:
Stephanie Arnold, Research Assistant in Forest Resources, CFRU.

Ann Bunker, Extension Aide, Piscataquis County CES.

Bonny Holman, Bookstore Clerk, Bookstore.

Alexander Huryn, Assistant Professor of Aquatic Entomology, Applied Ecology and Environmental Science.

Bret Overturf, Scientific Technician II, Quaternary.

Deborah Smith, Extension Aide, Piscataquis County CES.

April Thomas, Extension Aide, Piscataquis County CES.

Cod Aquaculture *continued from page 1*

two-thirds had died, but the rest of the cod larvae, an unprecedented number, were alive and growing.

That was the first of three experiments in which the percentage of cod raised has exceeded results from any other published study to date, including her own previous attempts. "It's very exciting," she says. "Last year we had no success. This year, we've gone from less than half a percent survival to 35-40 percent survival."

Kling is an associate professor of animal and veterinary science at the University of Maine and works with researchers at the University of New Hampshire (UNH) and the University of Rhode Island (URI) on a study to develop techniques for raising cod, the backbone of New England's traditional ground fishery. The project is supported by the University of Maine/University of New Hampshire Sea Grant College Program.

"Other countries, especially Norway, have mastered many aspects of this challenge," says Ann Bucklin, UNH Sea Grant Program director. "We can learn from them, but we must develop or modify the techniques so they are appropriate for our conditions, including local economies and the intended scale of production. Linda is the U.S. leader in addressing survivorship of cod larvae (the earliest life stages), which is an essential – and very problematical – aspect of the successful culture of fish."

Kling's success should be most gratifying for her, says Bob Wall, Sea Grant Director at UMaine. "Most important in the long term, however, is that the kind of experience and expertise she is acquiring will be essential to the future development of aquaculture in the region."

Under the eerie glow of fluorescent lamps in the UMaine Fisheries and Aquaculture Research Facility, Kling has designed a small-scale cod hatchery. The heart of the system is an array of circular fiberglass tanks, each of which holds three five-gallon buckets. Air hoses and water distribution lines run between the tanks, and Kling's voice punctuates the hum of pumps and fans.

"Other researchers have been able to raise small numbers of cod, but this is the first time we've been able to raise enough to make an aquaculture operation possible," adds Kling.

Although Kling suspected that she had crossed a major hurdle last winter, she was cautious about her initial findings. She wanted to repeat her work and receive confirmation from her peers. At a June meeting of the Canadian Aquaculture Association in Ottawa, Kling reported her results and received the reaction she hoped for.

"People were coming up to me after the meeting and asking if I knew how really important this is," she says. "They were very impressed."

Kling is a nutritionist who got her research start working with chickens in the early 1980s. The decline of Maine's poultry industry and the rising importance of aquaculture convinced her to switch to fish. In the early 1990s, she developed recipes for feeds for the salmon aquaculture industry.

There are several possible reasons for recent success with cod, including the density of fish in the tanks, the use of full spectrum light bulbs and an increase in water motion in the tanks. All three possibilities defy conventional wisdom as passed down from Norwegian experiments and practiced by other scientists.

"Conventional wisdom is to maintain very still conditions for the larvae when they first hatch. Maybe it's true for some larvae, but not for cod. In our tanks, they're being moved constantly by the motion of the air going up the center of the tank and down the sides. You can see the larvae constantly moving in the water.

"We also are using a light bulb that is more like natural light. It has more of the lower wavelengths. We're finding that they like

lots of light. They don't require darkness."

The high density of fish in her tanks occurred almost by accident. Kling was stocking eggs into the tanks just as her student helpers were leaving for Christmas break. Since feeding and monitoring the larvae are laborious chores, she wanted to save time for herself and technician, Jacquelyn Hunter. "I decided to just load up the tanks," she says. She reasoned that most of them would probably die, anyway.

"Conventional stocking densities range from 3 to 50 larvae per liter. We were starting out with densities at 150 and 300 larvae per liter." There were so many, in fact, that a fish expert interviewing for a job in Kling's department saw the tanks and thought they must be some other type of fish. She had never seen cod raised under such conditions.

Nevertheless, Kling emphasizes that she has not pinpointed the exact causes of success. "We don't know yet exactly why this worked. It's all new, and there's a lot we don't know," she says.

Kling has shipped all of her fish to URI, Maine Aquafarms in Franklin and Island Aquaculture on Swans Island. Researchers there are studying other factors leading to the production of cod. Techniques must be perfected to ensure predictable production of juvenile fish for grow-out pens and for possible release to enhance wild cod stocks, says Bucklin.

Other members of the team include W. Huntting Howell of UNH and Terence Bradley and Lawrence Buckley of URI. UMaine students involved in Kling's work include undergraduates Trevor Davis of Orono and Wendy Esformer of Lancaster, Massachusetts and graduate students Heather Hamlin of Stillwater and Bradd Baskerville-Bridges of Santa Cruz. ▲

Summer Youth Music *continued from page 1*

Farnham's sabbatical influences other aspects of this year's camp as well. The conductor-in-residence at Junior Camp, July 14-20, was Linda Gammon, a Dover-Foxcroft native who now is director of bands at Robinson Middle School in Fairfax County, Va., while pursuing a master's degree in conducting at GMU.

Gammon's counterpart at Senior Camp, July 21-Aug. 2, is Anthony Maiello, director of instrumental ensembles at GMU. He conducted the 1994 All-State Band in Houlton and in May led the Music Educators Band at the Maine Music Educators conference in Hampden.

Maiello commissioned the second piece that will debut at Senior Camp — *Paradiso*, the final movement of a four-movement symphony for winds and percussion, based on Dante's *Divine Comedy*. It is one of the two movements that Maiello commissioned from composer Robert W. Smith, and uses mallet percussion to portray beams of light, beginning with a single tone and growing in intensity and complexity.

The camps include concerts that are free and open to the public. The remaining Senior Camp concert schedule follows:

- 2 p.m. Sunday, July 28, Hauck Auditorium, Memorial Union, Senior Camp Mid-Camp Concert featuring Concert Band, Chorus and Symphonic Band
- 7:30 p.m. Tuesday, July 30, Hauck Auditorium, Memorial Union, Senior Camp Jazz Concert
- 8 p.m. Wednesday, July 31, Room 120 Lord Hall, Senior Camp Student Solo Recital Night
- 7:30 p.m. Thursday, Aug. 1, Hauck Auditorium, Memorial Union, Senior Camp Student Ensemble Recital Night
- 3 p.m. Friday, Aug. 2, Hauck Auditorium, Memorial Union, Senior Camp Musical Theater Presentation
- 7 p.m. Friday, Aug. 2, Maine Center for the Arts, Senior Camp 25th Anniversary Final Concert featuring Concert Band, Chorus and Symphonic Band ▲



National Science Foundation invites proposals to develop materials and strategies that will engage large numbers of parents and other caregivers in PreK-12 science, mathematics, and technology education and education reform. Planning grants are also available. Deadlines: preproposals, Aug. 15; proposals, Nov. 15.

U.S. Department of Labor solicits proposals for policy relevant research, analysis, or evaluation studies concerning private pensions and employer-provided health benefits. Maximum award: \$25,000. Deadline: Sept. 1.

National Endowment for the Humanities makes Humanities Focus Grants to small groups of educators working together to develop their understanding of important topics in the humanities and to plan subsequent action for their institutions. Range of awards: \$10,000-\$25,000. Deadlines: Sept. 16, Jan. 16.

Government of Canada makes grants for research and writing (Sept. 30 deadline) and for course development (Oct. 31) pertaining to Canada or to the Canada/U.S. or Canada/North America relationships. Priority areas: agriculture, business, communica-

tions, culture, energy, environment, security, and trade policy.

National Institutes of Health's Science Education Partnership Awards enable biomedical and behavioral scientists to work with educators, media experts, community leaders, and interested organizations to improve K-12 and public understanding of the health sciences. Both development and dissemination projects are eligible. Deadline: Oct. 1.

Office of Naval Research Young Investigator awards provide \$100,000 per year for three years to scientists and engineers of exceptional promise for creative research in areas of interest to ONR. Eligible candidates are U.S. citizens, nationals, or permanent residents, hold tenure-track positions, and received the Ph.D or equivalent on or after Dec. 1. Deadline: Oct. 1.

Economic Development Administration supports projects to alleviate conditions of substantial and persistent unemployment and underemployment in economically distressed areas. Current priorities include export promotion, commercialization and deployment of information and telecommunication technology, entrepreneurial development, and other sustainable development activities.

American Council of Learned Societies supports research in the humanities and social sciences. Information about 1996-97 grant and fellowship competitions is now available. For a copy, or for more information, call Research & Sponsored Programs, x1476.

FOREIGN SERVICE OFFICER EXAMINATIONS

Applications for the 1996 Foreign Service Officer Examinations are available in the Office of International Programs.

Applications and registrations must be received by Oct. 18. The test is given in Maine in Bangor, Portland and Augusta on Nov. 16.

To be eligible for foreign service, an applicant must be a U.S. citizen; be between the ages of 20 and 59; and be available for worldwide assignment, including Washington, D.C. No specific education level is required.

Further information about the U.S. Foreign Service is available in the Office of International Programs, 100 Winslow Hall.

Cultural Affairs Committee Deadline for Proposals

The deadlines to submit proposals to the Cultural Affairs/ Distinguished Lectures Series Committee are the last Fridays in September, November and March. Proposal guidelines and applications are available by contacting Gail Cormier, President's Office, x1516.

FULBRIGHT AWARDS

Information for 1997-98 for faculty and professionals is now available from the Council for International Exchange of Scholars (CIES), telephone 202-686-7866, or e-mail lia2@ciesnet.cies.org. Deadlines are Aug. 1 for lecturing and research awards; or Nov. 1 for special programs in Germany, Japan, and Korea. Call the Office of International Programs for further information.

UNIVERSITY OF MAINE PORTLAND CENTRE

533 Congress St., Portland, Maine 04101
Tel. (207) 828-2327 Fax 207-874-9540

University Shoppe: 874-9535
Center for Community Inclusion: 874-9527

Hours: 9AM - 5PM

What's Ahead



**MAINE SUMMER YOUTH
MUSIC SENIOR CAMP
25TH ANNIVERSARY
FINAL CONCERT**
August 2

SUMMER SESSION ENDS
August 23

FALL CLASSES BEGIN
September 3

Maine Perspective



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Department of Public Affairs
5761 Public Affairs
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