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# Maine Perspective

A PUBLICATION  
FOR THE  
UNIVERSITY OF  
MAINE

VOL. 9, NO. 2  
SEPTEMBER 8, 1997



University of Maine President Peter Hoff and his wife, Dianne, far right, were among 65 members of the University community on hand to meet, greet and assist students moving into the residence halls during Labor Day weekend. Those students included Kylee Mathieu, left, who was here with her mother, Linda Mathieu, and grandmother, Doris Theriault.

Photo by Monty Rand

## UMaine Welcomes New Students and Faculty

The 1,200 members of the University of Maine's Class of 2001 demonstrate leadership, academic talent and motivation – attributes that UMaine's new president says are essential for success.

*See related story on new faculty, pages 8-9.*

President Peter Hoff cited the students' performance on standardized admission tests, their good grades in high school and their record of community and extracurricular involvement at

UMaine's annual pre-Labor Day news conference, held this year in Jenness Hall.

"The University campus is alive and vibrant, in large part because of the talent, motivation, creativity, perspectives and curiosity our students provide," noted Hoff.

The average Scholastic Aptitude Test score for members of the new first-year class is 1,090 – the second-highest average for a UMaine class in this decade. That average is one point higher than that of last year's entering class and is

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## Hudson Artifacts Get Long-Awaited New Home

For years, hundreds of Mexican and Central American artifacts from 2000 BC to the Spanish Conquest lay on crowded plywood shelves in the attic of South Stevens Hall where they were vulnerable to humidity, temperature changes and vibrations.

Knowing the University of Maine's pre-Columbian Palmer Collection is one of the best in the country, members of the Hudson Museum staff tried to limit access to the storage area and treated the pieces with care. Beyond that, they could do little but hope nothing happened – until now.

This summer, a team of white-gloved staff members and students moved more than 1,000 delicate figures and pieces of pottery in the Palmer Collection from South Stevens to a new storage area in Class of 1944 Hall.

A grant of more than \$100,000 from the National Endowment for the Humanities allowed the Museum to buy modern, mobile shelving units, make custom containers and move most of the 1,900 pieces in the Palmer Collection to the new storage facility.

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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.*

## UMaine Extramural Funding Up 30 Percent Over FY96

University of Maine faculty and staff successfully competed for more than \$26.4 million in grants between July 1, 1996 and June 30, 1997, according to the Office of Research and Sponsored Programs. With the addition of University contributions, project totals amounted to \$33.1 million, most of which went for research.

"Faculty are writing more proposals, and their success is a good measure of the high standards they bring to the University. The students benefit tremendously from having chances to work with the faculty directly in their labs," says Dan Dwyer, vice provost for research and graduate studies.

The grant totals amount to a 30 percent increase over FY96.

For the first time, the amount of money sought by UMaine faculty for research and educational purposes exceeded \$100 million. Faculty submitted 502 proposals for a total of \$100,892,944.

Of the new funding received, 84 percent was from federal agencies, 9 percent from state and local governments, and 5 percent from business and industry. The remaining 2 percent was from other sources, including foundations.

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## Educators from Former Soviet Bloc Tapping Expertise of UMaine Business Faculty

As the newly-independent states of the former Soviet bloc adapt to life after communism, educators hoping to improve their countries' shifts to free-market economies are turning to the University of Maine for help.

Academics from Moldova, Ukraine and Kazakstan are spending three to six months in the Maine Business School to learn how to adapt American ideas to their countries.

The University has provided them with offices in Corbett Business Building and access to faculty and other resources such as Fogler Library.

Dennis McConnell, a retired UMaine finance professor and adviser to the visiting scholars, says they are making academic and professional contacts and learning how to find information they will need to make wise decisions when they return home. He says their independent study here is mutually beneficial.

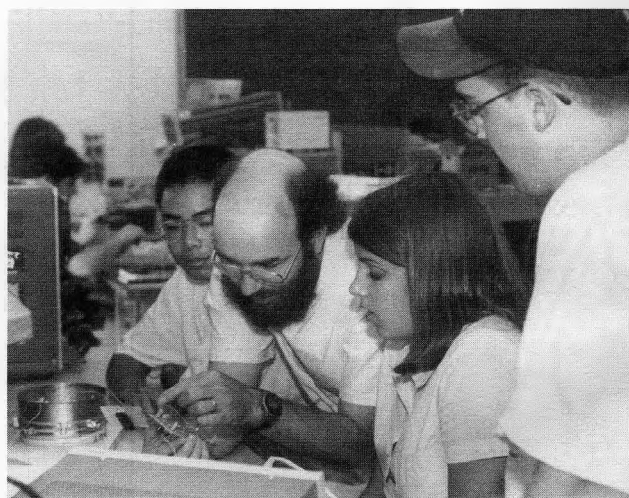
"The scholars are provided access to Maine faculty and information resources," McConnell says. "In turn, University of Maine faculty have immediate access to scholars who are personally familiar with economic transition problems in the former Soviet Union. Past visitors to Maine have provided a research network for Maine scholars throughout Central and Eastern Europe, Russia and Central Asia. Our current visitors will continue that tradition."

The Maine Business School will be host to these scholars during the fall semester:

▼ Boris Revchoun, a professor of economics and economic thought at the Agricultural Engineering Institute in Kirovograd, Ukraine, will gather information for a course on the promotion of foreign investments in his country. He arrived Aug. 25 and will be here for three months.

▼ Akmaral Altaliyeva, a management professor from Kazakstan, works for the Faculty of Economy and Sociology at Kazak State University in the capital of Almaty. She plans

*continued on page 17*



Twenty high school students from as far away as Biddeford and Jackman were on campus in July taking part in the College of Engineering's Young Scholars Program. This is the seventh year of the program, designed to encourage high school students to consider engineering as a career. Throughout the two weeks, the students attended lectures, sessions on career exploration and topics such as ethics, and programs devoted to the different engineering disciplines. One week the students had a fieldtrip to the Fairchild and National Semiconductor plants in South Portland; another week they traveled to Robbins Lumber in Searsmont. Each day on campus, the students worked in teams of two in the lab to build a computer-controlled motor. The student teams tested their projects in a motor "rodeo." Among those students working with Bruce Segee, second from the left, assistant professor of electrical and computer engineering, and UMaine computer engineering student Garrett Harris, right, were Quang Luong of Fairfield and Ellen Thompson of Brewer. In an exit questionnaire, participants were asked about the effect of the program on their perceptions of the University. Among their responses: "More research (is) going on, more than just teaching, which is good." "It's a much better school than I thought it was. It is so advanced in modern tech in engineering departments." "It has a very nice campus and atmosphere. The professors are world class professionals and people." "I now realize that it is a very competitive school (with other programs)." "I'd consider going here more now." "It's a good education value."

*Photo by Kathryn Rice*

### MAINE PERSPECTIVE PUBLISHING SCHEDULE

The fall publication schedule for *Maine Perspective* is Sept. 22 (deadline Sept. 12); Oct. 6 (deadline Sept. 26); Oct. 20 (deadline Oct. 10); Nov. 3 (deadline Oct. 24); Nov. 17 (deadline Nov. 7); Dec. 1 (deadline Nov. 21).

## Maine Perspective

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UNIVERSITY OF  
**MAINE**

# UMaine Calendar

SEPT. 10 - 26

All events are free and open to the public unless otherwise specified. Any speaker not otherwise identified is a member of the University of Maine faculty, staff or student body. Send notices of upcoming campus events to: *Maine Perspective* Calendar, Public Affairs. Calendar of events listings MUST be typewritten and should be sent well in advance of the publication date. For more information, call x3745.

## 10 Wednesday

**President's Annual Fall Breakfast,** 7-9 a.m., Wells Conference Center.

**"Feminist Science and Technology Studies in a Multicultural World,"** by Sandra Harding, director of the Center for the Study of Women and professor of education and women's studies, UCLA, part of the Women in the Curriculum Luncheon Series, 12:15 p.m., Sept. 10, Bangor Lounge, Union. x1228.

**"Can Men Make Feminist Theory?"** by Sandra Harding, director of the Center for the Study of Women and professor of education and women's studies, UCLA, part of the Women in the Curriculum Luncheon Series, 3:30 p.m., Sept. 10, 100 Neville Hall. x1228.

## 11 Thursday

**Performance by the Band Cobalt Blue,** offered by Off-Campus Board, 9 p.m., Sept. 11, Bear's Den.

**"Dealing with Change,"** by psychologist Beth Bohnet, part of the Employee Assistance Program Brown Bag Luncheon Series, noon, Sept. 11, Bangor Lounge, Union. x4014.

## 12 Friday

**Performance by the Karel Lidral Trio,** part of the Jazz TGIF series, 12:15 p.m., Sept. 12, Damn Yankee. x1734.

**"Evolution of Lethal Sex: Why Are Venereal Viruses So Nasty and Can They be Rehabilitated?"** by Paul Ewald, University of Massachusetts, author of *Evolution of Infectious Diseases*, a Department of Biological Sciences Seminar, 3:10 p.m., Sept. 12, 102 Murray Hall. x3236.

**Reception for Museum of Art Exhibits *Secular Light: Robert Beckmann and Circumstance and Intuition: German Works on Paper*,** 5-7 p.m., Sept. 12, Carnegie Hall. x3255.

**Baseball: UMaine vs. the Canadian National Team,** 7 p.m., Sept. 12. xBEAR.

**Maine Center for the Arts Gala featuring Tony Bennett and His Trio,** part of the performance season, 8:30 p.m., Sept. 12, Hutchins Concert Hall. Admission fee. x1755.

## 13 Saturday

**Women's Soccer: UMaine vs. Quinnipiac,** 10:30 a.m., Sept. 13. xBEAR.

**Football: UMaine vs. Massachusetts,** 1 p.m., Sept. 13. Admission fee. xBEAR.

**Field Hockey: UMaine vs. Yale,** 1 p.m., Sept. 13, Gorham. xBEAR.

**Baseball: UMaine vs. the Canadian National Team,** 7 p.m., Sept. 13. xBEAR.

**Concert by Five O'Clock Shadow,** an acappella group, offered by the Union Board, 7:30 p.m., Sept. 13, Hauck Auditorium. Admission fee. x1734.

## 14 Sunday

**Baseball: UMaine vs. the Canadian National Team,** 1 p.m., Sept. 14. xBEAR.

**Faculty Recital - Anatole Wieck,** featuring appearances by cellist Diane Roscetti, organist Kevin Birch and members of the String Ensemble, part of the School of Performing Arts season, 2 p.m., Sept. 14, Minsky Hall. Admission fee. x1755.

## 15 Monday

**Deadline for Dropping Courses for Refunds,** 4:30 p.m., Sept. 15.

**"Myoglobin as a Model of Protein Structure/Function,"** by Robert Cashion, University of Maine, a candidate for the protein biochemist position in BMMB, 4 p.m., Sept. 15, 113 Hitchner Hall. Updated information about the BMMB seminar schedule can be found at: <http://www.ume.maine.edu/~bmmb/>

## 16 Tuesday

**Last Day for Text Refunds,** Sept. 16.

**"Childbearing and Education in Urban Environments: Black Parents' Perspectives,"** by Josephine Bright, assistant professor of human development and education, Wheelock College, Boston, part of the Women in the Curriculum Luncheon Series, 12:15 p.m., Sept. 16, Bangor Lounge, Union. x1228.

**Women's Soccer: UMaine vs. Dartmouth,** 3 p.m., Sept. 16. xBEAR.

**Web Homepages on CMS,** a CAPS seminar by Wayne Persons, 3:30-5:30 p.m., Sept. 16, 117 Corbett Business Building. Preregister. x3517.

**Women's Soccer: UMaine vs. Dartmouth,** 3 p.m., Sept. 16. xBEAR.

## 17 Wednesday

**Installing Internet Clients on Windows 95,** a CAPS seminar by Betty Johnson, 3-5 p.m., Sept. 17, 117 Corbett Business Building. Preregistration. x3517.

**Annual Graduate School Picnic,** for all graduate faculty, graduate students and their families, 4-6 p.m., Sept. 17, behind York Complex. Rain date: Sept. 18.

## 18 Thursday

**Installing Macintosh Internet Clients,** a CAPS seminar by Eloise Kleban, 3:30-5:30 p.m., Sept. 18, 117 Corbett Business Building. Preregistration. x3517.

**Seminar by Karl Bishop,** Michigan State University, a candidate for the protein biochemist position in BMMB, 4 p.m., Sept. 18, 113 Hitchner Hall. Updated information about the BMMB seminar schedule can be found at: <http://www.ume.maine.edu/~bmmb/>

**Thursday Night at the Bear's Den,** featuring karaoke, offered by the Union Board, 9 p.m., Sept. 18, Union. x1734.

## 19 Friday

**Performance by Jazz Farm,** part of the Jazz TGIF series, 12:15 p.m., Sept. 19, Damn Yankee. x1734.

**"Environmental Controls on Forest-Atmosphere Carbon Exchange,"** by David Hollinger, U.S. Forest Service Northeast Forest Experiment Station, Durham, a Department of Biological Sciences Seminar, 3:10 p.m., Sept. 19, 102 Murray Hall. x3236.

**Field Hockey: UMaine vs. Towson State,** 3:30 p.m., Sept. 19. xBEAR.

**Faculty Recital - Louis Hall,** with accompaniment by pianists Michele Hall and Kevin Birch, flutist Elizabeth Downing, clarinetist Jim Higgins, Lynn Flagg on bassoon and Scott Burditt on French horn, part of the School of Performing Arts season, 7:30 p.m., Sept. 19, Minsky Hall. Admission fee. x1755.

**Comedy Café with Jim McCue and Bob Carney,** offered by the Union Board, 9 p.m., Sept. 19, Damn Yankee. x1734.



# 20 Saturday

**Face Ornaments from Ancient Peru**, a Hudson Museum "Just for Kids" program, 10 a.m., Sept. 20, Maine Center for the Arts. Registration fee. x1901.

**Women's Cross Country: UMaine vs. Northeastern**, 11 a.m., Sept. 20. xBEAR.

**Men's Soccer: UMaine vs. Quinnipiac**, 1 p.m., Sept. 20. xBEAR.

**Baseball: UMaine vs. USM**, 7 p.m., Sept. 20. xBEAR.

# 21 Sunday

**Field Hockey: UMaine vs. Delaware**, 1 p.m., Sept. 21. xBEAR.

**Baseball: UMaine vs. USM**, noon, Sept. 21. xBEAR

# 23 Tuesday

**"Gathering in the Herbal Garden,"** by Lydia Mussulman, secretary, Maine Herb Society, part of the Page Farm and Home Museum Brown Bag Lunch Series, noon-1 p.m., Sept. 23. x4100.

**"Their Wrongs and Claims': Sarah Winnemucca's Strategic Narrative of White Abuse of Piute Women and Children,"** by Margo Lukens, part of the Women in the Curriculum Luncheon Series, 12:15 p.m., Sept. 23, Bangor Lounge, Union. x1228.

**Introduction to SYSTAT**, a CAPS seminar by Wayne Persons, 3:30-5:30 p.m., Sept. 23, 117 Corbett Business Building. Preregistration. x3517.

**Coffee House with North Star Bluegrass**, offered by the Union Board, 8 p.m., Sept. 23, Peabody Lounge, Union. x1734.

# 24 Wednesday

**"Hungry Children in Maine: Breakfast - A Possible Solution,"** by Mary Moody, education specialist, Maine Department of Education, part of the Healthspeak Luncheon Series, 12:15 p.m., Sept. 24, Bangor Lounges. x4194.

**Faculty Senate Meeting**, 3 p.m., Sept. 24, Dexter Lounge. x1167.

**Field Hockey: UMaine vs. Boston University**, 3:30 p.m., Sept. 24. xBEAR.

**Using Eudora for E-mail**, a CAPS seminar by Eloise Kleban, 3:10-5 p.m., Sept. 24, 124 Barrows Hall. Preregistration. x3517.

# 26 Friday

**Open Classroom Day**, part of Family and Friends Weekend, Sept. 26. x4031.

**Performance by the John Cooper Trio**, part of the Jazz TGIF series, 12:15 p.m., Sept. 26, Damm Yankee. x1734.

**College of Education and Human Development Welcoming Reception**, for new students and their families, part of Family and Friends Weekend, 2-3:30 p.m., Sept. 26. x4031.

**"Aquaculture at UMaine,"** a presentation by Neil Greenberg, part of Family and Friends Weekend, 3 p.m., Sept. 26. x4031.

## Ongoing Events

### Academic Activities/Events

**Family and Friends Weekend**, Sept. 26-28.

**College Fair**, Oct. 6-7.

**Homecoming**, Oct. 17-19.

### Conferences/Seminars/Workshops

**Resume Writing: New Techniques**, a Career Center Workshop, 3:10 p.m., Sept. 12 and Sept. 17; 2:10 p.m., Sept. 18; 12:30 p.m., Sept. 25, 121 Lengyel Computer Cluster. x1359.

**Effective Interviewing Techniques**, a Career Center Workshop, 2:10 p.m., Sept. 17 and Sept. 23; 3:10 p.m., Sept. 22, Third Floor, Chadbourne Hall. x1359.

**Electronic Job Search**, a Career Center Workshop, 9 a.m., Sept. 17; 1:30 p.m., Sept. 25, 121 Lengyel Computer Cluster. x1359.

**High Impact Cover Letters**, a Career Center Workshop, 3:10 p.m., Sept. 18; noon, Sept. 19, 121 Lengyel Computer Cluster. x1359.

**Navigating the Net**, a Fogler Library Internet workshop, 10 a.m.-noon, Sept. 22; 3-5 p.m., Oct. 16; 6-8 p.m., Nov. 11, Fogler Computer Classroom. Preregistration. x1675.

**Introduction to URSUS**, a Fogler Library Internet workshop, 9-10:30 a.m., Sept. 24; 6-7:30 p.m., Oct. 15; and 1-2:30 p.m., Nov. 6, Fogler Computer Classroom. Preregistration. x1675.

### Entertainment

**"Our Place in Space,"** a Planetarium show, part of Family and Friends Weekend, 7 p.m., Sept. 26; 3:30 p.m. and 7 p.m., Sept. 27, Wingate Hall. Admission fee. x4031.

**Star Gazing** (pending clear skies), part of Family and Friends Weekend, 8-10 p.m., Sept. 26-Sept. 27, Jordan Observatory. x4031.

**Swimming**, offered as part of Family and Friends Weekend, 10:30 a.m.-noon, Sept. 27; 2:30-5 p.m., Sept. 27-28, Wallace Pool. Admission fee. x4031.

**Public Skating**, part of Family and Friends Weekend, 2-3:30 p.m., Sept. 27-28, Alford Sports Arena. Admission fee. x4031.

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

### Exhibits/Demonstrations/Tours

**Empires Emerging: Collecting the Peruvian Past**, a Hudson Museum exhibit, Sept. 20-April 26, Maine Center for the Arts. x1901.

**Secular Light: Robert Beckmann**, a Museum of Art exhibit, through Sept. 28, 1938 Gallery, Carnegie Hall. x3255.

**Egypt, Beyond Time**, a Hudson Museum photographic exhibit by Cy Lehrer, through Oct. 5, Maine Center for the Arts. x1901.

**Circumstance and Intuition: German Works on Paper**, a Museum of Art exhibit, through Nov. 22, Carnegie Gallery, Carnegie Hall. x3255.

**Maine Forest and Logging Museum - Leonard's Mills**, open daily 9 a.m.-4 p.m., with guided tours available, Bradley. x2871.

**University of Maine Museum of Art** open Monday-Saturday, 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.

### Meetings of Groups/Organizations

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

**International Folk Dancing**, every Sunday, 7-9 p.m., beginners welcome, no partner needed, FFA Room, Union. 827-2324.

**Maine Peace Action Committee Meeting**, every Wednesday, 4 p.m., Weisz Room, Maples. x3860.

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

### Miscellaneous

**Rose Bike Sales**, Sept. 8-9, Lown Rooms, Union.

**Acadia Bike Sales**, Sept. 15-16, Lown Rooms, Union.

**Blood Drive**, Sept. 22-23, Bangor Lounge and Lown Rooms.

**Antiques, Collectibles and Crafts Show and Sale**, part of Family and Friends Weekend, 10 a.m.-5 p.m., Sept. 27-28, Field House. Admission fee. x4031.

**Orono Farmers' Market**, Tuesdays 2-5:30 p.m.; Saturdays, 8 a.m.-1 p.m., Steam Plant Parking Lot.

# Center Stage

## School of Performing Arts

### Wieck Recital Opens Performance Season

Anatole Wieck launches the School of Performing Art's 1997-1998 season with a faculty recital dedicated to "Three Hundred Years of Virtuoso Music for the Violin" on Sunday, Sept. 14 at 7:30 p.m., Minsky Recital Hall. Among the composers featured on the program are Paganini, Sarasate, Kriesler and Biber. Diane Roscetti joins Wieck for the performance of the *Kodaly Duo*. Others joining Wieck are Kevin Birch and members of the string ensemble.

Wieck returns to the UMaine classroom after a summer of performances in New York City, Boston and Senj, Croatia on the Adriatic Coast. A former member of the New York Pro Arte Chamber Orchestra, Wieck was asked to return to the ensemble for a concert in Alice Tully Hall at Lincoln Center in May. Following New York, Wieck performed in Boston with the Artona Chamber Players.

After stints as concert master for the Arcady Chamber Orchestra and director of the string program for the Maine State Youth Music Camp on campus, Wieck turned his attention to the founding of a summer school and chamber music festival in Senj, Croatia. At the invitation of the Mayor of Senj, Wieck inaugurated the first summer program with 12 students. The school concluded with a chamber music festival, conducted by Wieck, featuring compositions by Mozart, Bach, Beethoven, Gershwin and Senj composer Fran Sojat. Performances were given in Senj and at Crikvenica at the Hotel Kastel, a former monastery and castle from the 14th century.

Wieck has been asked to return next summer for a second season as director of the summer program. He is investigating the possibility of bringing several University of Maine music students with him to study and perform with their Croatian counterparts.

### Recital to Highlight 20th Century Works

Works by 20th century composers will be featured at the faculty recital by Louis Hall on Friday, Sept. 19 at 7:30 p.m., Minsky Recital Hall. Paul Hindemith's *Quintet for Winds*; Marcel Bitsch's *Suite Francaise*; Benjamin Godard's *Légende Pastorale* and Gordon Jacob's *Sonatina for Oboe and Harpsichord* are performed by Louis Hall, accompanied by Michele Hall, piano, and Kevin Birch, piano and harpsichord. Performing Hindemith's *Woodwind Quintet* and *Pierre Pastoral* will be the Pastoral Wind Quintet: Elizabeth Downing, flute; Lynn Flagg, bassoon; Jim Higgins, clarinet; Scott Burditt, French horn.

Hall was a member of the ensemble from the Bangor Symphony Orchestra which joined Phish for the "Great Went" concert at Limestone this summer. He also played with the Acadia Summer Chorus and Chamber Orchestra with performances at Northeast Harbor and Bar Harbor.

### Marrs, Percussion Ensemble Perform in France

The Percussion Ensemble, directed by Stuart Marrs, toured southeastern France, July 12-30. The UMaine group performed two different programs as a percussion ensemble in five concerts. In addition, the ensemble members comprised the percussion section for the Orchestre Philharmonique Rhodanien, performing a significant repertoire which included *Carmina Burana* by Carl Orff, the *Firebird Suite* by Stravinsky, the *Sorcerer's Apprentice* by Dukas and the world premiere of a work by Japanese composer I. Tsukamoto.

Musically, culturally and socially, the tour was an enriching event for the UMaine students involved: Christopher Andrews, senior music performance major; Kirk Taylor, senior music education major; Christopher Fletcher, senior music education major; Bryan Cook, second-year music performance major. Participating in the ensemble with the UMaine students were: Ted Nokes, band director, Dexter High School, and Aaron Emery, a recent graduate of Bangor High School.

The first three concerts, during which the UMaine Percussion Ensemble performed *Eight Inventions* by Kabalac, along with *Carmina Burana*, had a combined attendance of over 4,000. The professional-quality philharmonic orchestra was made up of student and professional musicians from 13 countries of Europe, the Americas, and Japan. Maine students had the opportunity to travel and perform in some of the most beautiful areas of France, including the Rhône river valley and the French Alps.

Marrs directed the percussion ensemble concerts, coached the percussion section for the orchestra, and performed as soloist with the Orchestre Philharmonique Rhodanien in Costa Rican composer Luis Diego Herra's *Concerto for Marimba and Orchestra*.

### Oratorio Rehearsing for Fall, Spring Programs

The Oratorio Society, a community and University-based singing group, will begin rehearsals for its 1997-98 season on Monday, Sept. 8 at 7 p.m., Choral Room, Class of 1944 Hall.

New singers are invited to join those returning as part of the group, which is directed by Kevin Birch of the music faculty.

The fall program, which will be performed Dec. 8 at 7:30 p.m., Minsky Concert Hall, will include Bach's *Canata #140, Wachet auf, ruft uns die Stimme*; James Woodman's *The Midwife's Tale*, a recently commissioned work for chorus and strings based on a medieval text; and Daniel Pinkham's *Christmas Canata*, a seasonal favorite of audiences everywhere.

The spring program will be devoted to Brahms' *Ein deutsches Requiem*, which will be performed with the Bangor Symphony Orchestra April 25-26, Maine Center for the Arts.

## Gallery Glimpses

### Empires Emerging at the Hudson

Spectacular examples of ancient Peruvian art form the focus of *Empires Emerging: Collecting the Peruvian Past*, an exhibit opening Saturday, Sept. 20, at the Hudson Museum. *Empires Emerging* features art from private and public collections that provides glimpses into Peruvian prehistory. Inca, Huari, Chimú, Nasca and Moche are among the cultures represented.

James Richardson III, chair of the division of anthropology at the Carnegie Museum of Natural History in Pittsburgh, will give a lecture in conjunction with the exhibit on Friday, Oct. 3.

### "Just for Kids" Begins Its Ninth Season

The first "Just for Kids" program of the year is set for Saturday, Sept. 20 at the Hudson Museum. The program, "Face Ornaments from Ancient Peru," will introduce children to the ancient Peruvian tradition of using gold mouth masks, forehead ornaments and ear ornaments to mark special events. Preregistration required.

## People in Perspective

When Barbara Ouellette started as a part-time secretary at the Honors Center, she worked first with Honors Center namesake Bob Thomson, and then its first full-time director Sam Schuman.

That was 21 years and eight directors ago.

Today Ouellette continues to be a mainstay at the Honors Center, ever-vigilant of its sense of place in the University community and its sense of history as one of the oldest honors programs in the country, established in the 1930s. She now works in concert with the Associate Professor of Mathematics Charlie Slavin, the Center's newest director.

"This is a job that has grown with me," says Ouellette, who first joined the University community in 1973 and worked at the Career Center for two years before taking leave to raise a family. "As I needed more challenges and thought I'd have to move on to another job, this position evolved and I got more and more responsibilities. Like when Maine Scholars Days came to the Honors Center."

Maine Scholars Days, once a UMaine tradition that brought the top high school juniors from throughout the state to campus for three days of collegiate immersion programs, had been a function of the Honors Center for nine years up until 1993. The logistics of organizing academic activities for 500 teenagers each May were daunting, but well-worth the hours of planning and preparation, Ouellette says.

"The best part was reading the student

evaluations and comments afterward," she says. "We heard so many students say they never thought they would come to this university and, after three days on campus, were totally turned around. To hear that we helped change their outlook on the University made it all worthwhile."

Another tradition that has become part of the UMaine fabric is Convocation, coordinated by the Honors Center. Initiated in 1988, Convocation has come to showcase to the community the academic excellence of the University.

"What affects me the most is listening to deans talk about the outstanding students. It brings tears to your eyes to listen to what they've accomplished. That's why it feels good to be having an event like Convocation because it's a chance for these students to be recognized by the whole community, rather than solely in their departments and colleges."

Every year, those top graduating seniors include students from the honors program. Annually almost 200 UMaine students enroll in honors courses or participate in the program; this year that number will include 85 first-year students. To be eligible, students must have a combined SAT score of 1230 and be in the top 10 percent of their class. The rigors of the honors program involve five interdisciplinary honors courses, including third-year tutorials and fourth-year thesis classes.



Barbara Ouellette

Photo by Kathryn Rice

Ouellette is responsible for helping recruit students to the program, as well as assisting with the course registration. This fall the honors program includes eight sections of the first-year course, three 200-level and four 300-level courses, and the fourth-year honors thesis sections.

Interacting with some of the University's best students keeps the job interesting, Ouellette says. "They are students with vitality and always new challenges facing them. And they come together at the Honors Center. Sometimes people come in and are surprised at the quiet warmth and comfort – the different atmosphere – they find here."

## Anchors Named the New Assistant to President Hoff



Scott Anchors

W. Scott Anchors has been named executive assistant to UMaine President Peter Hoff.

Anchors, UMaine's director of Campus Living since 1986 and a member of the UMaine staff for a total of 20 years, was recommended by a search committee.

"The committee was very impressed with Scott's broad range of experiences," says Dana Humphrey, president of UMaine's Faculty Senate and chair of the search committee. "His

work as an administrator, as an adjunct faculty member and his very solid research record show that he understands the broad mission of the University."

Anchors holds a Ph.D. in higher education. He has held UMaine faculty positions in the College of Education and the Department of Agriculture and Resource Economics. He is the co-author of three books and has 22 other publications to his credit. In addition to student life subjects, Anchors has researched and written extensively about personality types and their impact on behavior.

As executive assistant, Anchors will be chief staff assistant to the president and will be responsible for providing coordination between the president's office and the offices directly reporting to the president, acting as the president's principal assistant in working with the president's cabinet, representing the president on selected committees, drafting correspondence and documents, problem solving and addressing issues brought to the office by constituent groups within or outside the University, and serving as the president's designee in rendering final appeal decisions regarding student residency.

"Scott's scholarly credentials, administrative experience and understanding of student life make him especially well qualified for this job," Hoff says. "I look forward to working with him."

A registered Maine Guide who specializes in sea kayaking, Anchors has also worked at Iowa State University, Mercer University and Auburn University. He succeeds Bob Whelan, who left the president's staff earlier this summer to return to the English faculty. ▲

## Facilities Management Implements Cost-effective Improvements Across Campus

This summer, the University of Maine completed three long-awaited capital improvement projects that took Facilities Management staff from the rooftops of the Stevens Hall complex to the underground steam lines bisecting campus. Yet the improvements most noticeable in the University community have been the multitude of smaller projects undertaken by Facilities crews that have enhanced the overall campus environment.

Eighteen academic buildings received improvements ranging from new paint on entrances and windows, in lobbies and stairwells to replacement of handicapped ramps, floor tiles and stair treads. As part of an ongoing effort to upgrade learning environments, five classrooms were rewired to incorporate technological improvements, including teaching stations with computer network connectivity.

Small landscaping projects like the one outside Alumni Hall improved building entrances. The two projects with the biggest impact on the University community involved the replacement of carpet on the first floor of Fogler Library at the Union entrance, and refurbishing of the Mall by replacing broken roadways with turf and sidewalks.

"The improvements across campus reflect a new commitment to addressing maintenance and classroom upgrades," says Anita Wihry, executive director of institutional and facilities planning.

*continued on page 18*



Photo top: Facilities Management crews roll out a green carpet of sod along the Mall. Photo right: Constructed by G.R. Roofing Co., of Bucksport, the contractors on the Stevens Hall roofing project, the four-foot finial of copper sheeting was installed in June. On hand were, left to right, G.R. Roofing Project Manager Jeff Pozzy, Facilities Management Executive Director Anita Wihry and James Williams, roofing and contract inspector for Facilities Management.



## Federal Grant Boosts Communications Lab Research

As computers get faster and communication networks expand, two electrical engineers at the University of Maine are helping to develop the next generation of radios, televisions and other communication devices. If they and their colleagues are successful, they may do for broadcasting, the military and other parts of American society what compact disc players have done for the audio entertainment industry.

Graduates of their program are working with companies in Maine, New Hampshire and across the U.S. to apply new techniques to other areas such as cellular telephones, radar and satellite communications. Former students are often sought by electronics companies and, in some cases, continue to collaborate with their UMaine professors.

"Within the communications industry, the goal is cheaper devices which use less power and are easier to mass produce. Our push is to take digital technology and apply it to radio receivers and get the same benefits that have already gone into audio equipment," says Don Hummels, associate professor in the Department of Electrical and Computer Engineering.

In April, Hummels and Fred Irons, a professor in the same department, received one of two awards out of 58 proposals submitted by U.S. researchers for a \$230,683 three-year contract with the federal Advanced Research Programs Administration (ARPA). The contract is administered by the U.S. Navy and calls for the development of design procedures to address one of the major hurdles for digital receivers.

The general problem is noise – the distortion and other undesirable features which are generated by typical analog-to-digital converters and other receiver components. Higher frequency signals generate more noise than those in lower frequencies. More

importantly, noise makes it difficult to translate the signals into a reliable digital form which computers can use.

Hummels and Irons work with a team of 10 UMaine students in the department's Communication Devices and Applications (CDA) Group. Over the years, graduates have gone on to work for a variety of firms: National Semiconductor, South Portland; Control Devices, Standish; First Light Technologies, Saco; Texas Instruments, Texas; Sanders Inc., Nashua, N.H.; DeLorme Inc., Freeport. Most of these students grew up in Maine.

One graduate founded and now runs a small and growing Portland company, ComNav, which makes filters for cellular telephones.

In their research, the UMaine team doesn't create the devices themselves. Instead, they take the latest products from industry and make them work better. Through their collaboration with companies such as TRW Inc., Sanders Inc. and Rockwell International Inc., they have pushed devices to levels of operation expected in the next 10 to 12 years through the evolution of hardware alone.

Hummels and Irons have concentrated their efforts on a component known as an analog-to-digital converter or ADC. In one sense, ADCs are like thermometers. They convert changes in the environment into numbers.

"We measure voltage instead of temperature," says Hummels. "And we're trying to round the measurements off to numerical values so we can put them into a computer. With temperature, you know all the degrees are the same size. If you need to know how warm or cold it will be tomorrow, you probably only need it to the nearest degree. You wouldn't care if it's a tenth or two tenths of a degree higher or lower."

*continued on page 16*

**The CUTTING EDGE**

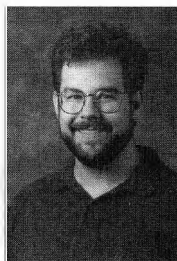


University of Maine Research on the Frontiers of Science



# New Faculty at the University of Maine

*The University of Maine's 1997-98 academic year has begun with 50 new members of the faculty – the largest number of new faculty hired at one time since the late 1960s. As a means of introduction to the University community, Maine Perspective surveyed them concerning their academic, research and public service activities. This is the first in a series of features on the new faculty of the University of Maine.*



Jeffrey Vipperman is assistant professor of mechanical engineering, and will be teaching applied mechanics, materials engineering science and other mechanics courses. Vipperman received his Ph.D. in mechanical engineering from Duke University in March, and worked as a research assistant and assistant research professor in Duke's Department of Mechanical Engineering and Materials Science. His areas of research interest include dynamics, controls, signal processing and acoustics. His primary focus has been in the active control of sound and vibration, and he

plans to establish a research lab at UMaine dedicated to the study of Smart Structures and Systems. Vipperman's honors include a patent last November for the adaptive piezoelectric sensor/actuator. He says that as a faculty member, he looks forward to the opportunity to work with a vast group of people, including undergraduates, graduate students, other faculty and staff, as well as members from corporate America and government. Of Maine and the University, Vipperman says he couldn't ask for a better setting with its natural beauty and high quality of life in which to live, work and raise a family. In addition, he notes that UMaine has an excellent engineering school with good students and was his first choice for employment.



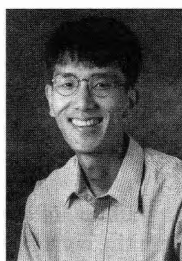
Anne Rhodes-Kline is assistant research professor in the College of Education and Human Development. She conducts research on Reading Recovery and related early literacy interventions in Maine, recently receiving external funding for her work from the Maine Department of Education. Rhodes-Kline, who received her Ph.D. in psychology from Temple University in 1994, specializes in social psychology and educational research. She joined the University community in 1995 as a research associate and adjunct assistant professor after being a researcher at the American Bar

Association Center on Children and the Law. In the past two years, she has presented papers and written articles in the areas of program evaluation and early literacy research. Rhodes-Kline notes that the aspect of her work she finds most gratifying is interacting with educators and practitioners who are able to put the results of her research to use in the classroom.



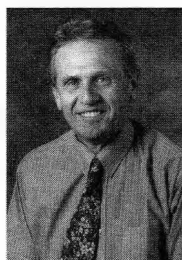
Jennifer Pixley is a lecturer in English who is teaching introduction to professional and technical writing, advanced professional writing and the field experience course in professional writing. Pixley received bachelor's degrees in sociology and English, and her master's degree in English with a concentration in creative writing from UMaine. She has taught English courses at the University since 1992, and has had poems published in numerous Maine literary journals. In 1996 she received a Women in the Curriculum Summer Grant to pursue research on Ruth Moore. Pixley's research interests

also include environmental literature and philosophy, and environmental rhetoric. Pixley notes that she is interested in language in written and spoken forms, and in all modes. "I like to read and to investigate new ideas, and being able to teach completes the whole circle for me," she says. "In the several years that I've been a part-time faculty member, I've met many talented students at UMaine. Being part of their learning is great fun, and it enhances my own learning." Throughout her years as a student and instructor, Pixley says she has been touched by the commitment of the University faculty to students.



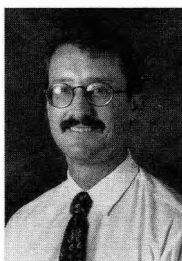
College of Education and Human Development Assistant Research Professor Jaekyung Lee received his Ph.D. from the University of Chicago this year. His academic areas of interest include educational policy, administration and evaluation. Lee's research goals focus on systemic school reform and improvement of student learning. His top honors include an American Educational Research Association Dissertation Grant Award and an American Educational Finance Association New Scholars Award. External funding for his work has come from the U.S. Department of

Education and the Korea Foundation for Advanced Studies. In joining the faculty, Lee says he looks forward to conducting high-quality policy research, as well as teaching policy-related courses. He was also attracted to the University as a result of his involvement in the Maine Education Policy Research Institute.



Professor and Chair of the Department of Communication Disorders is D. Kimbrough Oller, who also has a cooperating appointment in the Department of Psychology. Oller received his Ph.D. in psychology from the University of Texas at Austin in 1971. His research interests are in psycholinguistics, development and evolution of language, bilingualism, artificial hearing, deafness, pragmatics of communication, semantics and dream theory. Oller joins the University community from the University of Miami where he has been director of the Speech Development Research

Program, co-director of the Hearing and Language Program, senior founder and director of the Bilingualism Studies Program and professor in the Departments of Psychology and Pediatrics. Funding sources for his research have included the National Institutes of Child Health and Human Development, and the National Institutes of Deafness and Other Communication Disorders. Oller is a member and former chair of the International Sensory Aids Society, and serves on the editorial boards of the *Journal of Applied Psycholinguistics* and *Journal of Developmental Psychobiology*. Oller notes that university life offers the opportunity to nurture young minds, to explore new worlds and to provide service to the community. "No career affords greater possibilities for creativity," he says. Oller and his wife, College of Liberal Arts and Sciences Dean Rebecca Eilers, have owned a home in Rockport for three years.



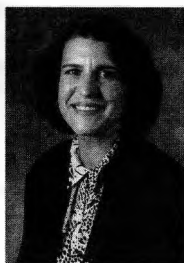
Mario Teisl, assistant professor of resource economics, is teaching environmental policy and the senior paper course in natural resources this academic year. Teisl's areas of research involve environmental and resource economics, and consumer behavior. External funding has supported his work on such projects as a benefit-cost analysis of Atlantic salmon restoration on the Penobscot River, and economic evaluation of Maine's fish and wildlife resources. Teisl received his Ph.D. in agricultural and resource economics from the University of Maryland this year and his master's degree from

UMaine in 1990. His wife, Laura, is a UMaine graduate in geology. Teisl's academic honors have included a Naumann Scholarship for Academic Excellence and an Irving Medal for Most Outstanding Student. He notes that joining the faculty provides the opportunity to lead research that helps the state and to give back to society through teaching. Teisl says he was attracted to the University by the caliber of the faculty and students, the number of relevant policy issues to be studied and the size of campus.



Assistant Professor of Education Kate Moirs is teaching educational psychology, assessment/measurement of learning, research methodology and human intelligence. Moirs, a graduate of the University of Maine at Farmington, received her Ph.D. in educational psychology, measurement and statistics from the University of Iowa in 1996. She was the recipient of the T. Anne Cleary Psychological Research Scholarship for outstanding University of Iowa doctoral student. Moirs' research interests include human learning and cognition, assessment of learning, arts

education and the transfer of arts-related skills to other domains of learning. She first joined the University community as a research associate in the Center for Research and Evaluation, College of Education and Human Development, from 1992-94, and was a research consultant with the Center prior to being appointed to the faculty. Moirs notes that she loves the academic environment for its intellectual stimulation, the colleagues and the students. "I see my appointment here as a great opportunity," she says. "Also, I like the balance at UMaine of teaching and research, and the small class sizes, which allow me to be a more creative and effective instructor." Moirs also is a watercolor artist and says she enjoys Maine's artistic culture.



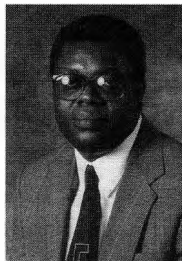
Assistant Professor of Economics Adrienne Kearney is teaching international trade and commercial policy, intermediate macroeconomics, principles of macroeconomics and graduate international finance this academic year. Kearney, who received her Ph.D. in economics from Penn State University in 1992, was an international economist with the Macroeconomic Analysis Division of the Congressional Budget Office prior to joining the University community. Her research interests include modeling short- and long-run fluctuations in stock prices, interest rates and exchange

rates, and understanding the influence of monetary policy on financial markets. Kearney's academic honors have included the Ervin P. Hexner Award for Excellence in Macroeconomics from Penn State in 1991. Reflecting on her appointment to the faculty, Kearney notes that a university is not a collection of buildings: it is people, including faculty who are the most important resource to students. "Professors who are active researchers, and especially those who have worked outside academe, can bring the state-of-the-art to the classroom on both the theoretical and applied levels," she says. As a new faculty member, Kearney says her aspiration is to help economics come to life for students by bringing the real world into the classroom via relevant macroeconomic/international events, current economic research and her experience as an international economist. She says she will do all she can "to help my students leave the University of Maine ready for the world beyond."



Karen Horton is assistant professor of mechanical engineering technology. This academic year she is teaching manufacturing technology and mechanical technology laboratory II. Horton received a bachelor's degree in mechanical engineering, and her master's degree in industrial mathematics at the University of Kaiserslautern, Germany, in 1993. She joins the University community from Bath Iron Works where she has been a mechanical engineer for the past five years. Her academic honors include receiving a Honeywell Award for Outstanding Achievement in

Engineering and being named Outstanding Graduate in Mechanical Engineering. Currently she serves as secretary of the Maine Section of the Society of Women Engineers. Her research areas of interest include mechanical system modeling and vibration analysis, as well as modal analysis. Horton notes that as a practicing mechanical engineer, she is excited to be working with students in a hands-on environment. "I'm also thrilled to have the opportunity to serve as a role model of a woman involved in technology," she says. Horton adds that she has many friends and colleagues who graduated from UMaine "who loved their studies here. Their recommendations were impossible to ignore."



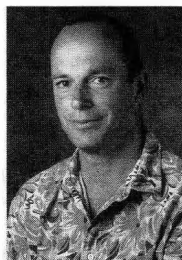
Leonard Gadzekpo is an assistant professor of art and interdisciplinary studies in the Departments of Art and History. This academic year, he is teaching art history/African art, African history and an interdisciplinary introductory course in black studies. Gadzekpo was the first to be named University of Maine Minority-Faculty-in-Residence in 1996-97. This year he completed his Ph.D. in American culture studies at Bowling Green State University. Gadzekpo is an artist who has exhibited in America, Europe and Africa. His academic areas of interest are art history, black studies, German,

African history, painting, and cultural studies. His honors include a St. Stephanus Travel Award, a Mobil Award of Excellence and a Best Thesis Award. Of his appointment to the faculty, Gadzekpo noted that students are the center of his work, and his research will be of use to students and society. He was attracted to UMaine because of its promotion of academic excellence and support of research. Gadzekpo adds that he has a special interest in traditional African music and hopes to form a group of drummers on campus.



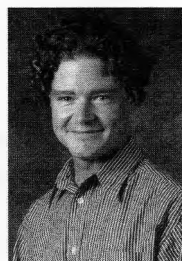
Assistant Professor of Journalism Lyombe Eko is teaching introduction to mass communication, and mass media law and regulation. He also coordinates the Department of Communication and Journalism's internships and independent study programs. This year he received his Ph.D. from Southern Illinois University at Carbondale. His academic areas of interest include comparative mass media law, international political communication and Internet telecommunication. In 1993, Eko received Honorable Mention in the Prix Futura film/television festival, Berlin, Germany, in the

Television Documentary Category, and honorable mentions in the Vues d'Afrique film festival in Montreal in both 1990 and 1991. Eko says the most exciting feature of a faculty career is being able to interact with young people. It is an opportunity to help them think through the issues that confront society, and ask the right questions, he says. Eko adds that UMaine is a unique institution with a distinguished history and a multicultural approach to education, and he looks forward to developing his interests in Franco-American studies.



Chris Mares is a lecturer in English as a second language with the Intensive English Institute. He teaches oral communication skills and writing, and his academic areas of interest involve curriculum development, syllabus design and materials development in English language teaching. He is the co-author of *OnLine*, a four-skills course for young adult learners of English. Mares was the lead faculty in the 1997 Summer Institute for English as a Foreign Language for educators from Francophone and Lusophone West Africa, funded by a grant from USIA. He received a

master's degree in applied linguistics from the University of Reading, England, in 1985 and an RSA Diploma in TEFL from International House, London. Prior to joining the University community, Mares was an academic supervisor/program development specialist and assistant professor of English at Obirin University, Tokyo. He notes that having moved to Maine from Japan, he was particularly impressed by the sensitivity of the Old Town School District to the language support needs of his children.



Christopher McCormick is a lecturer in English as a Second Language in the Intensive English Institute. In addition to teaching ESL, he is involved in the Royal Thai Graduate Scholarship Program. McCormick's academic areas of interest include second language writing, computer-assisted language learning and curriculum development. He was a researcher for *Parallels Interactive* and a contributing writer for *Elements of Literature*. McCormick received his Ph.D. in foreign language education, applied linguistics, this year from the University of Texas, where he was a University Fellow in 1995-96 and 1996-97. Of his appointment to the faculty, McCormick says he looks forward to opportunities for program development, collaboration and student interaction. He notes that he was attracted to UMaine by the creative nature of his position and the opportunity to work with language development in a university context.

# The Science of Food

## UMaine Researchers Internationally Recognized Experts

**A**s internationally recognized experts in food quality, chemical safety and dietary assessment, University of Maine food scientists and human nutritionists are important ingredients in the mix between industry, producers and consumers.

In ongoing research, UMaine faculty focus on areas ranging from post-harvest quality of fruits and vegetables and use of under-utilized food materials for new product development to analysis of pesticides, vitamins and natural toxicants in food, water and soil. Research in community nutrition has global implications, and studies of metabolism and dietary assessment contribute to ongoing work to find cures for heart disease, diabetes, atherosclerosis, osteoporosis and eating disorders.

Their work makes the Department of Food Science and Human Nutrition faculty no strangers to national policymakers or national headlines. Their expertise is tapped by agencies ranging from the Maine Department of Agriculture to the American Association of Cereal Chemists and the Institute of Food Technologists. Their research findings are regularly reported at national and international conferences.

In the laboratories of Holmes and Merrill Halls, food science and human nutrition researchers and students are involved in creating the foods of tomorrow, addressing food and nutrition issues affecting industry and individuals, and contributing to the ongoing process of safeguarding health and safety.

"We receive on average a dozen calls a week – requests for assistance, information and expertise from companies all over the world," says Mary Ellen Camire, chair of the Department of Food Science and Human Nutrition. "Food microbiology – food-borne illness – is the No. 1 issue in the country now. Then there are the more general calls for expertise.

"Just in the last couple days, Procter and Gamble called wanting to know where to buy dried blueberries. Smuckers has called wanting to

know how to increase blueberry bleeding to make its syrups darker (an interesting query since the faculty spent a lot of time through the years determining how not to make blueberries bleed in such things as cake and muffin mixes).

"One must also have a sense of humor and imagination. It's not unusual to be asked questions like how many prunes does it take to produce a laxative effect, or is the pumpkin in that rusty can on my shelf safe to eat?"

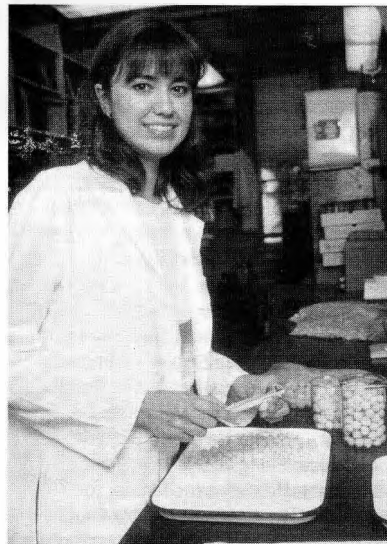
It is the science behind food and nutrition that impacts economic development in Maine and beyond. Whether in product development, problem-solving for the food industry or nutrition promotion to curb healthcare costs or address malnutrition, economic benefits derive from basic and applied research. Overarching all the research in food and nutrition is the ever-present concern about health. It is food science that has been instrumental in ensuring the safety of the food we eat through the years. Research of human nutritionists continues to address health issues such as cardiovascular disease, and is increasingly instrumental in preventive medicine and the promotion of wellness.

Food science has been taught at the University since the 1950s, with its research initially inextricably linked to agriculture. Food science entails the application of biology, chemistry and physics toward the production and evaluation of foods, and includes aspects of food selection and ingestion. Human nutrition completes the continuum, focusing on how foods are not only selected and consumed – what we eat and why we eat what we do – but how they are then used by the body. The

### Department of Human Nutrition

- ▼ Theresa Work, B.S. Ph.D. candidate
- ▼ Jessie Zhao, Ph.D.
- ▼ Susan Ismail, B.S. Kerry Food Inc.
- ▼ Huanli Zhang, Ph.D.
- ▼ Stephanie Baker, M.S.
- ▼ Susan Cheney, M.S. & Chocolate
- ▼ Michael Stickney, B.S. Signature Foods
- ▼ Donald Bergeron, B.S.
- ▼ Brian Beloin, M.S.
- ▼ Ernesto Thome, M.S.
- ▼ Daniel Nattress, B.S. U.S. Army Food & Engineering
- ▼ Michael Sirosi, M.S. Fisheries Products

## University of Maine Food and Human Nutrition Scientists



Elif Belbez

**T**hree years ago, Elif Belbez decided to apply her master's degree in chemical engineering to a field in which she could "produce something original and beneficial." She is now completing her Ph.D. in food science and human nutrition with a dissertation on naturally formed flavors during food processing.

Belbez and her husband, Bulent, both received their chemical engineering degrees in Istanbul before coming to UMaine to study food science. Following her graduation in December (Bulent received his master's in May), Belbez and her husband expect to return to their native Turkey to pursue careers in the food industry.

"I would like to work as a food engineer," says Belbez. "It is a way to combine engineering and food science. My research is based on extrusion processing. It involves the analysis of newly formed flavor compounds in the products."

Belbez is attempting to create natural flavoring alternatives for a potato snack food. The discovery of a

natural flavoring could mean a low-calorie snack that precludes the after-production frying, oil spraying, salting and spicing of such puff snacks that add fat and calories. Her research should also boost the sales of McCain's potato flakes in Maine.

The focus is on modifying the flavor content during processing using sulfur containing amino

acids, which also have the potential of enhancing

"Snack food development is a big area all over the world," says Belbez. "In addition, a natural flavoring can be applied to other foods like breakfast cereals."

"When trying to find something new, every

As part of her research, her analytical work involved training panelists in an attempt to understand

Belbez presented the initial findings of her research at the Institute of Food Technologists meeting in Orlando. Presenting and sharing with such corporations as Nabisco and the University and industrial relations."

**A**t the Institute of Food Technologists meeting, faculty members heard Michigan State University researchers found antioxidants in cherries to curb the lipids in a rancid odor.

This fall as Keith Moore of York, Penn., began the same process, this time using Maine-grown blueberries will use beef, but his findings also could have implications for chicken and fish.

Natural antioxidants could extend the shelf life of meat product and a new market for Maine blueberries like Moore's, it is possible that one day blueberries

# The Science of Food and Human Nutrition

## Internationally Recognized Experts in Food Quality, Chemical Safety and

know how to increase blueberry bleeding to make its syrups darker (an interesting query since the faculty spent a lot of time through the years determining how not to make blueberries bleed in such things as cake and muffin mixes).

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field of nutrition as a dimension of human development with its roots in home economics has been offered in the classroom since the '40s. The current Department of Food Science and Human Nutrition, a merging of two programs, was formed in 1994.

UMaine offers the only four-year nutrition degree in the state and has the only food science department in Maine – one of few in New England. Other academic food science programs are in Rhode Island and Massachusetts; food science research at the University of Vermont is split between dairy and nutrition.

The University's food scientists and nutritionists have long had a critical role as a resource to the state, which was once one of the largest food producers in the country, supplying canned foods to the Northeast for decades. In recent years, the department has focused on stimulating sustainability of small food companies. Some of the biggest demand is for process evaluation and product development, as well as food safety and quality assurance. Working with the potato, blueberry and fishing industries, faculty in the department address problems and proactively research new value-added uses for underutilized resources. As consultants, faculty have worked extensively with Maine food producers to help them get started, survive and prosper.

"The varieties of potatoes out there have been evaluated here," says Camire. "Frozen lobster developed here is now being processed by three Maine companies. Then there is work done in addition to faculty members' own research. For instance, when testing for toxic substances was needed on bioengineered tomatoes by a company,

**A Sample of  
Department of Food Science and  
Human Nutrition Graduates in Industry**

- ▼ Theresa Work, B.S. '77, M.S. '80,  
Ph.D. candidate – Kellogg
- ▼ Jessie Zhao, Ph.D. '94 – Campbell's
- ▼ Susan Ismail, B.S. '88, M.S. '95 –  
Kerry Food Ingredients
- ▼ Huanli Zhang, Ph.D. '97 – Dannon Yogurt
- ▼ Stephanie Baker, M.S. '95 – Kroger Foods
- ▼ Susan Cheney, M.S. '97 – National Confectioners  
& Chocolate Manufacturers Associations
- ▼ Michael Stickney, B.S. '83, M.S. '90 –  
Signature Foods Inc.
- ▼ Donald Bergeron, M.S. '88 – Griffith Labs
- ▼ Brian Beloin, M.S. '96 – National Sea Products
- ▼ Ernesto Thome, M.S. '98 – Boston Market
- ▼ Daniel Nattress, B.S. '79, M.S. '84 –  
U.S. Army Food Research, Development  
& Engineering Center
- ▼ Michael Sirolis, M.S. '83 –  
Fisheries Products International

## Maine Food and Human Nutrition Students Involved in Science Impacting

decided to apply her engineering to a produce something originating her Ph.D. in with a dissertation on d processing. both received their anbul before coming allowing her graduation master's in May), return to their native l industry.

gineer," says Belbez. and food science. My essage. It involves the pounds in the

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acids, which also have the potential of enhancing the snack's potato flavor.

"Snack food development is a big area all over the world and the usage of snacks increases everyday," says Belbez. "In addition, a natural flavor development process that works for snack foods can be applied to other foods like breakfast cereals.

"When trying to find something new, every step is really exciting."

As part of her research, her analytical work is being correlated with sensory evaluation by trained panelists in an attempt to understand the basic "flavor profile" of the product.

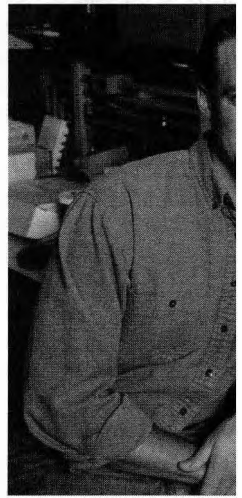
Belbez presented the initial findings of her research this year at the Institute of Food Technologists meeting in Orlando. Presenting on such a national level allowed for information sharing with such corporations as Nabisco and Erito-Lay – an opportunity that is "good for University and industrial relations."

**A**t the Institute of Food Technologists annual meeting last year, UMaine food science faculty members heard Michigan State University researchers talk about their use of antioxidants in cherries to curb the lipid oxidation in raw meat that is characterized by a rancid odor.

This fall as Keith Moore of York, Penn., begins graduate work on campus, he will explore the same process, this time using Maine-grown blueberries with their natural antioxidants. Moore will use beef, but his findings also could have implications for the processing and packaging of chicken and fish.

Natural antioxidants could extend the shelf-life and lower the prices of meats. A healthier meat product and a new market for Maine blueberries could be created. As a result of research like Moore's, it is possible that one day blueberry hamburgers will be in the grocer's meatcase.

Moore came to UMaine friend majoring in food science to serve him well" in food



Keith Moore



# id Human Nutrition

## Food Quality, Chemical Safety and Dietary Assessment

field of nutrition as a dimension of human development with its roots in home economics has been offered in the classroom since the '40s. The current Department of Food Science and Human Nutrition, a merging of two programs, was formed in 1994.

UMaine offers the only four-year nutrition degree in the state and has the only food science department in Maine – one of few in New England. Other academic food science programs are in Rhode Island and Massachusetts; food science research at the University of Vermont is split between dairy and nutrition.

The University's food scientists and nutritionists have long had a critical role as a resource to the state, which was once one of the largest food producers in the country, supplying canned foods to the Northeast for decades. In recent years, the department has focused on stimulating sustainability of small food companies. Some of the biggest demand is for process evaluation and product development, as well as food safety and quality assurance.

Working with the potato, blueberry and fishing industries, faculty in the department address problems and proactively research new value-added uses for underutilized resources. As consultants, faculty have worked extensively with Maine food producers to help them get started, survive and prosper.

"The varieties of potatoes out there have been evaluated here," says Camire. "Frozen lobster developed here is now being processed by three Maine companies. Then there is work done in addition to faculty members' own research. For instance, when testing for toxic substances was needed on bioengineered tomatoes by a company,

the FDA approved Rod Bushway. He also has stepped in when the state had no facilities to test and analyze the impact of Velpar on well-water."

Faculty and graduate students are widely recognized for expertise in fields such as seafood, fruit, vegetables, extrusion and food analysis. Department researchers have been responsible for such innovations as the development of dried blueberries with sugar infusion, the technique of adding calcium to canned blueberries to improve texture and quality, and the viability of sea cucumbers for export.

"We are the product development center for the state," says Camire. "We have done testing or provide expertise on ingredient selection or processing. Few things in the food industry come to bear in the state in which we are not involved, even though no FSN faculty have Extension appointments. And the food industry has not grown without UMaine students filling the slots. The difference between a food scientist and a chemist or engineer working in the food industry is that graduates like ours have the same science training, but also the knowledge to know the nuts and bolts behind why things happen – like the need to add acid to make jelly, or what reaction will occur if substitutions are made in the making of a food product. Our students also have problem-solving skills and the ability to apply that knowledge broadly if one day they're working with chicken, then working with potatoes and beverages the next."

Students entering these fields have rigorous educational backgrounds weighted in the sciences – biology, microbiology, organic chemistry, biochemistry, chemistry, animal physiology. Working in collaboration with a small faculty committed to the University's land-grant mission, students find themselves conducting research that benefits the state or that has global effects, and presenting their work at national and international conferences.

The reputation of the department has traditionally enrolled more

*continued on page 17*

### Science and Business in Industry

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## ents Involved in Science Impacting Maine's Economic Development

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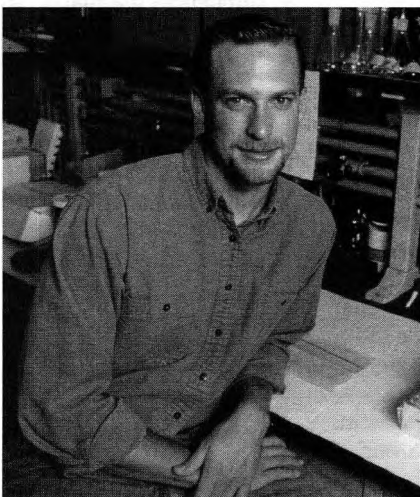
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uate work on campus, he will explore the es with their natural antioxidants. Moore ions for the processing and packaging of

l lower the prices of meats. A healthier s could be created. As a result of research burgers will be in the grocer's meatcase.

Moore came to UMaine on a chemical engineering scholarship in 1992 and changed majors. A friend majoring in food science told Moore how his chemical engineering background "would serve him well" in food science – "chemical engineering with edible chemicals."



Keith Moore

"It is such a new and expanding field with every opportunity for growth," says Moore. "There is a never-ending need for food. With the advances in technology in the last two decades, many new opportunities for exploration have opened."

When told Moore had changed his major, many friends said, "so you'll be cooking." Instead, the research in which Moore is involved has to do with the science behind food processing, safety, preservation and packaging. His focus is on the chemistry and microbiology of food and the changes that affect organism growth.

"There are a lot of different aspects to food science, including the fact that we now have a safe, abundant food supply thanks to food science. The goals are to continue to maintain a good food supply and to develop products consumers want. This is an opportunity to affect the lives of people. What is important is making sure the product is safe and healthy, and

*continued on page 12*

## Food and Nutrition Students *continued from page 11*

in the larger picture, making sure that there is enough for everybody.”

Moore admits it is nice to think of a meat processor using his research to one day patent such a method. He also has his career aspirations set on working for a major food corporation such as Hershey, near his hometown. But Moore also has taken some cues from the faculty mentors around him, who share their enthusiasm for the science and a public service commitment to apply their research for the benefit of Maine.

“Food science programs elsewhere have bigger budgets and equipment costs, offering specialized programs in dairy, meat and other fields. But here we get a chance to work directly with Maine’s food industry to try and help them. They benefit from the research we do. We have a small department and budget but that just means in a state like this, we can affect the big picture even more.”

**A** nutrition project being conducted by Pauline Samuda, a University of Maine graduate student, has global implications, particularly for developing countries struggling with malnutrition and hunger. Samuda, who grew up in Manchester, Jamaica, is on leave from her job as a public health nutritionist in the Jamaican Ministry of Health.

The result of her efforts will be the most accurate picture to date of the nutrients in the foods Jamaicans eat. The bottom line, Samuda says, is improved food and nutrition information to guide school lunch programs, food import policies, nutrition education and special diets for people with diabetes, heart disease and other health problems.

Samuda will receive her Ph.D. this December in food science and human nutrition. With partial financial support from the Caribbean Food and Nutrition Institute (CFNI) in Kingston, Jamaica, she has been working with UMaine associate professor Richard Cook to collect information on foods commonly eaten in Jamaican households.

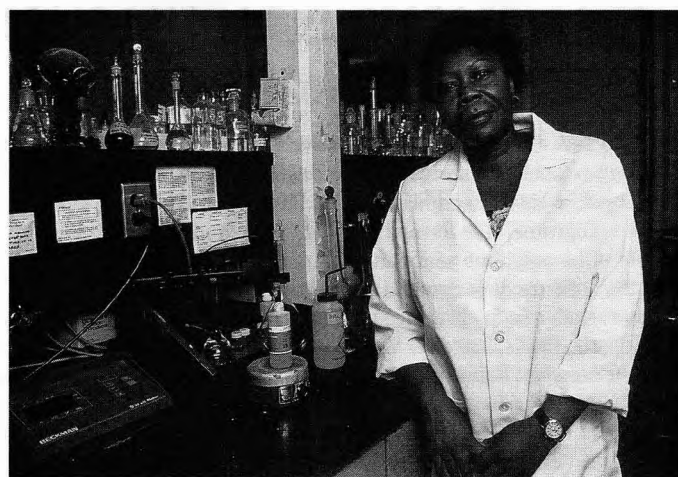
She has also brought food samples back to UMaine for chemical analysis. She and Cook presented the results of their work at the 16th International Congress of Nutrition in Montreal this summer.

Like most other countries, Jamaica has a food composition database, but prior to Samuda’s work, it was out of date and based largely on information from other countries. By analyzing foods as they are prepared and consumed, and combining that information with data about foods common throughout the West Indies and Latin American countries, Samuda has established a model which can be used to benefit millions of people in the developing world.

“This project could stimulate research in other underdeveloped countries. I’m hoping that in the short-term we can provide information not just for Jamaica but for other West Indian islands. With such data, nutrition intervention is possible,” says Samuda. “That’s what makes it particularly interesting and what makes you ask a lot of other questions.”

Samuda is the first college-educated member of her family. She studied home economics education at the University of Sussex in England and has a master’s degree in community nutrition from the University of Queensland, Australia. Research for her thesis included fieldwork in Malaysia where she studied the nutritional status of children under age 3 in a poor fishing village. The health issues ranged from lack of sanitation and contaminated water to worm infestation.

With her interest in nutrition education, particularly impacting the elderly and children within poor populations, Samuda worked for the Jamaican government developing community programs addressing issues such as malnutrition. She worked first in a parish (or county), and in 1988, she headed efforts in one of the



Pauline Samuda

three health regions of the island nation. In her most recent work, Samuda has been training public health nurses and doctors on the use of nutrition in health care. She also was voluntary coordinator for the promotion of breastfeeding.

Samuda first learned about UMaine’s Department of Food Science and Human Nutrition when Cook was in Jamaica on sabbatical preparing to launch a collaborative research project. Among his research interests are community nutrition, including nutritional status assessment, monitoring and surveillance. Since 1991, Cook has worked with CFNI, an arm of the United Nations Pan-American Health Organization, to coordinate nutrient analyses of traditional foods and food mixtures that could help establish an updated nutrition database for the island nations.

“In order to analyze consumption, one must know what nutrients are in the foods people are eating,” says Samuda. “In our country, we have a lot of over- and under-nutrition but without nutrition data for use by public health professionals, nothing could be analyzed. There is no population consumption data for Jamaica even today because none of our cooked dishes have been analyzed.”

To determine foods and cooked dishes common to Jamaican households, Samuda conducted 20 focus groups with people from geographically and socioeconomically diverse parts of the island. The 130 people in the focus groups were those responsible for feeding a total of 623 members in their respective households.

From the interviews, Samuda identified 70 commonly consumed foods. “I didn’t know some of the dishes were so common throughout the island,” she says. “That includes the Sunday menu. If you go anywhere in Jamaica on a Sunday, you’re bound to get rice and peas, chicken, vegetable and a drink. The weekend food consumption is different than it is during the week. And on Friday afternoons, the food consumption is more Americanized, with urban people eating more commercially prepared food.”

Samuda chose to do chemical analyses on four of the foods for which no analytical data had been compiled – cooked rice and peas (kidney beans), cooked with coconut and spices; brown stewed chicken (the most common meat), cooked with vegetables and spices; calaloo (a spinach-like vegetable); and bread fruit (a potato-like starch fruit), both roasted and boiled. The foods are being analyzed for moisture content, protein, dietary fiber, fats, cholesterol, fatty acids, ash, minerals and oils, and carbohydrates.

“Within food science, all this work needs to be done so that people in nutrition can then implement the results for the good of the public. I was fortunate to have had training in nutrition and food science,” says Samuda. “Only when exposed to both can you better understand and can put forth interrelated issues.” ▲

**Jayendran Rasaiah**, professor of chemistry, two papers: "Phase Transitions of Quadrupolar Fluids," *Journal of Chemical Physics*, 17:237-42 (1997). Co-authors are Seamus O'Shea of the University of Lethbridge, Canada and Girja Dubey of Hunter College, City College of New York; "From Hydrophobic to Hydrophilic Behavior: A Simulation Study of

Solvation Entropy and Free Energy of Simple Solutes," *Journal of Chemical Physics*, 107:1981-91 (1997). Co-author is Ruth Lynden-Beth of the Queens University, Belfast, United Kingdom.

**S. Amirhaeri**, research assistant in the Department of Biochemistry, Microbiology and Molecular Biology, a paper: "Flexible DNA: Genetically Unstable CTG.CAG and CGG.CCG from Human Hereditary Neuromuscular Disease Genes," *Journal of Biological Chemistry*, 272:16783-92 (1997).

**Stephen Hornsby**, director of the Canadian-American Center and associate professor of anthropology: "Discovering the Mercantile City in South Asia: The Example of Early Nineteenth Century Calcutta," *Journal of Historical Geography* 23(2):135-50 (1997); and review of *Upstate Arcadia* by Peter J. Hugill, *Geographical Review* 86(3):295-96.

**Richard Ryckman**, professor of psychology, **J. Corey Butler**, former graduate student in psychology, Bill Thornton, associate professor at the University of Southern Maine, and **Marc Linder**, former graduate student in psychology: "Assessment of Physique Subtype Stereotypes," *Genetic, Social, and General Psychology Monographs*, 123:101-28.

**Alex Parker**, former graduate research assistant in zoology, and **Irv Kornfield**, professor of marine sciences: "Evolution of the Mitochondrial DNA Control Region in the mbuna (Cichlidae) Species Flock of Lake Malawi, East Africa," *Journal of Molecular Evolution*, 45:70-83 (1997).

**Anne Rhodes-Kline**, assistant research professor: "First and Second Round Reading Recovery: What Difference Does It Make for Discontinuation and Program Length?" *Literacy, Teaching, and Learning*, 2:2 (1996).

Distinguished Professor Emeritus of Microbiology **Melvin Gershman**, Departments of Biochemistry, Microbiology, and Molecular Biology, and Animal, Veterinary and Aquatic Sciences: "Taxonomic Changes in Tailed Phages of Enterobacteria," by H.W. Ackermann, M. S. DuBow, M. Gershman, B. Karska-Wysocki, S. S. Kasatiya, M.J. Loessner, M.D. Mamet-Bratley, and M. Regue, *Archives of Virology*, 142: 1381-1390.

**Chris Mares**, lecturer, Intensive English Institute: "Making More of Spoken Tasks," *English Teaching Professional*, 4:39 (1997).

**Marisue Pickering**, professor of communication disorders, and Lindy McAllister of the University of Sydney, Australia: "Clinical Education and the Future: An Emerging Mosaic of Change, Challenge and Creativity," chapter in *Facilitating Learning in Clinical Settings*, edited by L. McAllister, M. Lincoln, S. McLeod, D. Maloney; published by Stanley Thornes Ltd. in the U.K. (1997).

**Cinzia Spencer-Cervato**, assistant professor of geological sciences and quaternary studies, and Hans R. Thierstein, ETH Zurich: "First Appearance of Globorotalia Truncatulinoides: Cladogenesis and Immigration," *Marine Micropaleontology*, 30:267-291 (1997).

**Jay Bregman**, professor of history: "The Christian Platonism of Hilary Armstrong and Synesius of Cyrene," *The Perennial Tradition of Neoplatonism: Proceedings of the International Conference on Rationalism, Empiricism and Mysticism in Neoplatonism*, sponsored by the Eriugena Society, held in Maynooth, Ireland, July 19-24, 1995, pp. 534-47. In addition: "Charlie Parker and the American Soundscape," in the series, Garland Studies in American Popular History and Culture, ed. **Jerome Nadelhaft**, in the volume, *America Under Construction: Boundaries and Identities in Popular Culture*, ed. Kristi Long and Matthew Nadelhaft, N.Y. & London (1997) pp. 41-68. Bregman also wrote the Epilogue, "Memories of Birdland," pp. 40-49, that accompanies the four-CD set, *Charlie Parker at Birdland*, 1950-51, Vol. I.

## STUDENT PAPER ATTRACTS THE ATTENTION OF THE MAB

The Maine Association of Broadcasters is using excerpts from a University of Maine student history paper in its commemorative 50th anniversary program, which is being printed for the annual MAB convention. This year the convention is being held Sept. 26 at Sebasco Estates.

The student paper was written last spring by Judy Round, who is a senior taking classes part-time toward a Bachelor of University Studies degree, focusing on political science and history. Round is a full-time University employee who works as assistant to the dean/director of the College of Natural Sciences, Forestry, and Agriculture, and the Maine Agricultural and Forest Experiment Station. The paper was required as part of a Maine History course taught by Professor of History Richard Judd.

The paper, "Television Comes to Greater Bangor: A Conversation with Industry Pioneers," features conversations with George Gonyar, former general manager of WABI TV (Channel 5) and Margo Cobb, former general manager of WLBS (Channel 2). The two television pioneers provided insight into what television was like in the early days.

## Book Ends

### New & Noteworthy at the University Bookstore

Welcome back! Hopefully summer was enjoyable for all and you had time for plenty of great summer reading. At this time the new fall titles are starting to arrive fast and furious. Here are just a sampling of what you will find. Don't forget to check out the "new titles" pole in the front of the store.

**Re thinking College education**, George Allan, University Press of Kansas, 1997. Has a college education become nothing more than a marketable product for students to buy with their tuition dollars? In this era of improvement measured in terms of cost reduction, have the essential values of higher education, the broadening and deepening of minds been overlooked? George Allan, philosopher and educator, gives us an insightful, thought-provoking book on the current state of today's colleges. Don't miss this one, it's sure to be talked about in our community.

**Sacred**, Dennis Lehane, Morrow, 1997. This compelling and fast-paced thriller from the author of *Darkness*, *Take My Hand*, and *A Drink Before the War*, will be hard to put down. We begin this tale of intrigue and danger when a dying billionaire hires two Boston private detectives to find his missing daughter. From the streets of Boston to the Florida coast, Patrick and Angie search, finding that one wrong move could easily be their last. With *Sacred*, Lehane confirms his status as one of today's hottest young authors of first-rate mysteries.

**The Farewell Symphony**, Edmund White, Knopf, 1997. This is the eagerly awaited final volume of Edmund White's autobiographical trilogy. Named for the work of Haydn, in which the instrumentalists leave the stage one after another until only a single violin remains playing, this is the story of a man who has outlived most of his friends. Having reached the anniversary of his lover's death he embarks on a journey of remembrance that will recount his struggle to become a writer and his discovery of what it means to be a gay man. A stunning and wholly original panorama of gay life over the past 30 years.

**The Flamingo Rising**, Larry Baker, Knopf, 1997. This touching and funny debut novel takes us to Jacksonville, Fla., in the 1960s (where the '60s are still the '50s), introducing us to the extraordinary Lee family whose home just happens to be the largest drive-in theater in the world, the Flamingo Drive-In. Reminiscent of John Irving, this is a wild and spirited novel not to be missed.

## International Notes

The Office of International Programs is looking for people in the community to welcome an international student into their homes for a dinner, an outing, a weekend, or a holiday. This could be a one-time commitment, or an on-going relationship. There are some 500 international students from 70 countries at UMaine, most of whom are far from home. Having someone in the community to socialize with can make a big difference for an international student.

Your participation offers the possibility of a mutually rewarding relationship by providing the opportunity to learn from one another. Better understanding among nations begins with better understanding among people.

If you are interested in participating, or have any questions, please call Marion Harris, x3440.

**S. Amirhaeri**, research assistant in the Department of Biochemistry, Microbiology and Molecular Biology, attended a summer course and workshop on Human Genetic Diseases at the Jackson Laboratory, July 13-25.

**Dorothy Breen**, associate professor of counselor education, presented a paper:

"School Counselors, Teachers, and Parents: Using Play Techniques to Support Children's Development," at the International Counseling Conference, Beijing, May 26-June 2.

**Paula Moore**, assistant professor of education and director of the Center for Early Literacy, attended the conference of the National Teacher Leader Institute, a conference for Reading Recovery teacher educators, held June 4-7 in Raleigh. Moore gave a keynote address: "Developing Teacher Learning: Guiding the Construction of Knowledge." She also coordinated the institute strand dealing with teacher education and continuing support for inservice educators.

**Jay Bregman**, professor of history, has had numerous musical appearances in the past year. They include being a guest last fall on Maine Public Radio's "Riffs and Rhythms," hosted by Rich Tozier. Playing the music of Charlie Parker and others was Bregman on sax with many area musicians including UMaine's **Karel Lidral**, College of the Atlantic's **John Cooper**, UMaine grad and Stevens Academy music teacher **Steve Orlofsky**, UMaine grad **Mike Bennett**, *Maine Alumnus* editor **Jim Frick** and guitarist **Hugh Bowden**. In addition, Bregman has performed locally with the Nathan George quartet, and played as part of Poetry and Jazz sessions in the area with UMaine writers and musicians **Kathleen Ellis**, **Sylvester Pollet**, **Terry Hunter**, **Welch Everman**, **Lidral** and **Frick**. Bregman also has given lecture demonstrations on jazz for area students, including those at Maine Job Corps and Bradley and Veazie schools.

**Sue Estler**, associate professor of higher education, has been elected president of the board of directors of the Audubon Expedition Institute, a postsecondary program in environmental studies with administrative offices in Belfast.

The faculty of the Department of Food Science and Human Nutrition presented their research findings at the 16th International Congress of Nutrition, Montreal, July 27-Aug. 1. The theme of the Congress, which is held every four years: "From Nutrition Science to Nutrition Practice for Better Global Health." Professor **Alfred Bushway** presented: "An indigenous Dry Cocoyam-based Weaning Food with Two Protein Complements," co-authored by **Joseph Fombin**, a 1994 doctoral graduate now employed by the Cameroon government. FSN faculty **Mary Ellen Camire** gave a poster: "Can Sulfur Compounds Reduce Natural Toxins in Extruded Potato Flakes?" based on the research of food and nutrition science doctoral candidate **Iwan Surjawan**, **Rodney Bushway**, A. Bushway, and scientific technician **Michael Dougherty**. **Andrea Gatcomb**, M.S. candidate in food science and human nutrition, and **Adrienne White**, associate professor, presented: "Development of a Food Attitude Scale to Assess Risk for Disordered Eating." **Pauline Samuda**, FSN doctoral candidate, gave a poster: "Determination of Foods Commonly Consumed by the Jamaican Population: The Focus Group Approach," co-authored by Associate Professor **Richard Cook** and **Cristanna Cook**, Husson College.

**Randal Harrington**, assistant professor, Department of Physics and Astronomy and the College of Education, and director of the Laboratory for Research in Physics Education, along with physics graduate students **Edward Prather** and **Christie Laroche**, attended the National Meeting of the American Association of Physics Teachers held in Denver, Aug. 10-16. Prather presented a paper: "Identifying Student Difficulties Related to Radiation and Radioactivity." Harrington presented an invited paper: "Physics Education Research as a Guide Toward Improving Instruction in an Introductory Physics Course for Non-Science Majors," and chaired a session: "Research in Physics Education: Tools and Methodology."

**James McConnon**, Extension business and economics specialist and associate professor of resource economics & policy, was recently appointed to the editorial board of the *International Food and Agribusiness Review*. The *Review* is an international journal sponsored by the International Food and Agribusiness Management Association and published by JAI Press.

**Beth Wiemann**, new assistant professor, music, had a composition premiered by the New York New Music Ensemble at the CalState Summer Arts Festival this past July. The piece, *Hornpipe Dreams*, is composed for violinist and computer-generated tape, with the tape using modulated violin sounds. The piece will also be performed in 1998 by the UC Davis Contemporary Players in California.

College of Education faculty participating in the New England Educational Research Organization annual conference, April 29-May 2, in Portsmouth included NEERO board members **Constance Perry**, professor of education; **David Brown**, associate professor of educational leadership; **Anne Rhodes-Kline**, assistant research professor; and **Sydney Carroll Thomas**, assistant professor of counseling education. Rhodes-Kline presented a paper: "Estimating Stanine Scores from a Non-Random Sample: A Methodology Discussion," chaired a session on Experiences of New Teachers, and was a discussant for a session on Parent-Child Relationships. Thomas presented a paper: "The Rhetoric of Developmental Theory in School Improvement Efforts," and was a discussant for a session on Perspectives and Findings from Diverse Settings.

College of Education faculty attending the National Council of Teachers of English spring conference in Charlotte, N.C., April 10-12, and their presentations included: **Brenda Power**, associate professor, **Jeffrey Wilhelm**, assistant professor, **Kelly Chandler**, graduate student, "Reading Stephen King: The Dialogue between Teachers, Students, and Literary Scholars"; **Abigail Garthwait**, graduate student, "Developing a Censorship Policy in the Internet Age"; **Rose Casement**, graduate student, "Danny's Voice: The Dangers of Traditional Assessments for Complex Children"; **Rosemary Bamford** and **Janice Kristo**, professors, "Selecting the Best of Nonfiction"; Power, "Ownership and Fear of Teaching: Finding a New Language," and participation in a seminar on "Teacher Action Research in Progress: Kindergarten-College"; **Jeffrey Wilhelm**, "Struggling to Get It Right: Drama, Reading, and the Ethical Imagination" and "Tapping the Sap of Story: Strategies for Working with Reluctant Readers." Wilhelm was also part of the first National Literature Project planning meeting which took place at the NCTE conference.

**Constance Perry**, professor of education, addressed the Children's Literature and Reading Special Interest Group at the International Reading Association annual conference in Atlanta, May 4-9. Her topic: "How Do We Teach What Is Right: Research and Issues of Moral Development and Its Connection to Children's Literature." The session on Ethical Living Through Children's Literature: Caring, Compassion and Community was organized and co-chaired by **Janice Kristo** and **Rosemary Bamford**, professors of literacy.

**Melanie Spencer**, publications editor for Cooperative Extension, presented a session: "Creating Super Newsletters," at the 1997 International Agricultural Communicators in Extension and National Technology Conference in Cleveland, July 15.

Among College of Education faculty participating or represented in various presentations at the 1997 annual meeting of the American Educational Research Association, March 24-28, Chicago, were: **Charles Hausman**, "The Principal as Builder of Civic Capacity: A Comparison of Leadership in Magnet and Nonmagnet Schools," and "Organizational Capacity for School Improvement: Teacher Reports in Magnet and Nonmagnet Schools," with Ellen Goldring, Vanderbilt; **Anne-Marie Read**, "The Effects of Ambiguity and Uncertainty on Aspiring School Administrators in a Restructured Preparation Program: A Composite Portrait of Experience; and "The Effects of a Multifaceted Leadership Development Program on the Aspirations and Prospects of Female School Leaders in Maine: A Preliminary Report"; **Herman Weller**, "What Have We Learned from 8 Years of Research on Computer-based Science Learning? An Analysis of 60 Research Papers." And, as discussants and representatives of special interests groups: **Walter McIntire**, Rural Education; **John Maddaus**, Families as Educators; and **Jonathan Plucker**, Research on Giftedness and Talent.

**Richard Ryckman**, professor of psychology, presented colloquia: "Individual Differences in Competitive Attitude and Their Implications for Mental Health," in the Department of Psychology of the University of Kent at Canterbury, England, Jan. 18, and in the Department of Policy and Organization Sciences at Tilburg University, Netherlands, March 25.





## New Students *continued from page 1*

74 points higher than the national average. It also exceeds the state average by 79 points. Twenty-one percent of the members of the class finished in the top 10 percent of their high school class; 42 percent of them finished in the upper 20 percent. Virtually all of the students reported participation in student government, community service, performing arts or athletics as high school students.

A survey of the class revealed that nearly 70 percent of the students regarded UMaine as their first-choice college. The survey also documented a high level of ambition — getting good grades was the most frequently listed concern among members of the class. UMaine's new Top Scholars program, a scholarship initiative aimed at the valedictorians and salutatorians of Maine's high schools, caused a sharp increase in the number of new students who fit that category. Sixty-five such students are enrolled at UMaine, compared to about 35 in an average year.

"These are among the very best students in Maine,"

## Communications Lab *continued from page 7*

"But if some of the temperature marks are set too far apart or too close together, you're going to get a distorted measurement. The same thing happens on converters. It becomes more and more of a problem the faster we have to make the measurement.

"If we have to make a new measurement every second, it's pretty easy. If we have to make a new measurement every 44,000 times a second (which happens in a CD player), that's pretty easy. We're trying to make 3 billion measurements a second. That's pretty hard. That means we get three measurements every nanosecond. Light goes about a foot in a nanosecond. It's difficult to keep those measurement marks equally spaced."

The UMaine effort was begun in 1990 by Irons and Hummels with support from the National Science Foundation and UMaine research funds. Irons began investigating the problem during a stint at Lincoln Labs at the Massachusetts Institute of Technology in 1985 and has since developed UMaine's ADC test facility into one of the few in the United States capable of this type of research.

"The puzzling thing is there aren't more universities working on the same problem. We seem to be about the only one working on the theoretical aspects of compensation of ADC converters," Irons says.

As a result, UMaine graduates have an advantage in this area. For example, a nationwide search by Texas Instruments Inc., for an ADC expert brought them to Orono after unsuccessful recruiting attempts at other major universities. "He told us that the Maine student had superior experience by far in this area," says Irons.

The most recent grant will enable Hummels, Irons and their students to help in the development of what Hummels calls "a radar receiver on a chip." The ultimate goal is a lighter, cheaper receiver that uses less power to operate and is easier to manufacture in large quantities. The military is interested in its use in aircraft, but the technology could also prove useful in civilian aviation, cellular telephone systems and satellite communications.

Since he started his work, Irons has seen manufacturers adopt concepts developed in the Barrows Hall lab. "We publish design reviews annually, and the companies are picking up our procedures and building them into component design," says Irons.

"It's been a good area for students to get into, and we've been fortunate in getting the top students out of our classes for several years. When they graduate, they're going out to different companies and doing very well." ▲

Hoff said. "They had their pick of just about any college or university in the United States. We are delighted that they chose the University of Maine."

Hoff also pointed to the addition of 50 new faculty members, the completion of significant maintenance and construction projects, and a structural reorganization intended to reduce administrative costs as reasons for enthusiasm about the academic year.

"I am confident that UMaine is positioned to make a significant impact on the future of this state," he said. "We are, after all, Maine's state university, with a unique state and federal mandate to provide a broad array of academic programs, to conduct meaningful research and to serve Maine citizens in every corner of the state. The success of our students, faculty and staff has had, and will continue to have, a direct and positive impact on Maine's economy and quality of life. The new class of students entering the University is part of the next generation of leaders, entrepreneurs, innovators and public servants. They, along with their teachers, will undoubtedly contribute great things, here in Maine and beyond."

Maine natives comprise 77 percent of the incoming UMaine class, which also has members from 22 other states. Also enrolled in the class are 172 foreign students representing 52 countries. UMaine expects to enroll 9,500 students this fall, including residents of 41 states. A total of 450 international students from 70 countries are expected to be part of the student body. ▲

## Extramural Funding *continued from page 2*

Among the projects which garnered support were:

- ▼ Construction of a composite wood engineering research center involving faculty in engineering and forestry.

- ▼ Training by staff in the Center for Community Inclusion for educators who work with children with special needs.

- ▼ Studies by School of Marine Science faculty of the Gulf of Maine and Georges Bank to determine how ocean currents and plankton affect fish populations.

- ▼ Training through the School of Nursing via Internet and ITV for nurse practitioners and other health professionals.

- ▼ Research in the Laboratory for Surface Science and Technology on friction and wear of materials in manufacturing.

- ▼ Investigation of archeological sites in Maine by faculty and students in the Department of Anthropology.

- ▼ Research by faculty and staff in the Department of Geological Sciences and the Institute for Quaternary Studies on glacial geology and climate in Maine and other parts of the world.

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

In addition to research, special projects such as conferences, workshops and evaluations of government programs receive grant support. Among activities conducted last year was an evaluation of the AIDS prevention program in the Maine Department of Education by staff in the Margaret Chase Smith Center for Public Policy.

Among federal agencies, the most grant funds came from the National Science Foundation, the Department of Agriculture and the Department of Education.

At the state level, the Department of Education, Department of Environmental Protection and Department of Transportation were the three largest sources of support for UMaine activities. ▲

## **Food Science and Human Nutrition** *continued from page 11*

graduates than undergraduates. They include Turkish, Indonesian and Saudi students who are sponsored by their governments, and this semester, two students researching food product development under the sponsorship of the government of Thailand. However in recent years, the department's growing notoriety also has attracted the attention of more undergraduates. They include Hannah Osborn of Wyoming, who in her first and second years at UMaine as an undergraduate received a prestigious scholarship from the Institute of Food Technologists, and Allison Steigert of Bangor, a junior studying to be a dietitian and who was the top first- and second-year student in the College of Natural Sciences, Forestry and Agriculture.

Courses have changed with the times. A class in family food management has evolved into the science of food preparation – an introduction to food chemistry that ranges from defining a starch or fat to knowing the differences between fat and oil, how amino acids react with sugars, and the chemical reactions responsible for the flavor differences between microwaved and oven-baked foods.

The field of nutrition also is changing. Dietitians who once worked primarily in healthcare facilities like hospitals are ever-increasingly in roles of prevention and wellness. They take business courses in order to be consultants, and have a working knowledge of economics, personnel management and spread sheets.

Employment opportunities for nutrition majors can found in areas ranging from food science businesses to consumer education arms of grocery chains. Their focus is often on educating the public and creating nutrition labels. In addition, UMaine is helping fill the constant need for dietitians in the state with the establishment four years ago of an internship for up to six students annually. In

the past, such professional training opportunities were available primarily out of state for students.

"Today graduates may start jobs as clinical dietitians but soon finding themselves moving on to roles in national agencies, as two of our students have – one of whom is at the Centers for Disease Control and another at the Center for Science in the Public Interest. Others are in some of the top dietetic programs in the country, which today are almost as competitive as medical schools. We have students going into medicine who are studying nutrition in addition to fulfilling medical school requirements in order to begin to look at the preventative end."

Food science undergraduates leave UMaine prepared to take positions as analysts or product developers in labs of food companies. More than half of all UMaine's food science undergrads go on to graduate school, qualifying them for positions in medium to large food companies ranging from such employers as Pepsi, National Seafood and Campbells. A third of them pursue Ph.D.s.

Many of the Department's international students return to their homelands to work in the national policy areas of their countries. Often they are influential in agriculture, nutrition or fisheries programs, or they become faculty at universities. As professionals in the global field, these students remain in touch with their UMaine faculty mentors via Internet.

"When students ask why the curriculum must be so rigorous, I tell them that a physician sees 1,000 patients a year, but in food science or human nutrition, these students have the potential to affect a million people a year," says Camire. "That's why it is critical to have the correct knowledge. Students in food science have the prospect of touching so many people's lives." ▲

## **Soviet Bloc** *continued from page 2*

to study the problems of private property development in countries making the transition from communism to a free market. She, too, arrived Aug. 25 for a three-month stay.

▼Alexandra Guboglo, an economist from Moldova, works for a company that monitors the Moldovan stock exchange. She is studying the American securities market. She arrived in May and will remain through October.

In addition, a second scholar from Moldova recently spent three months at UMaine. Iurii Cuza, a lawyer with Moldova's national bank, is helping to oversee the liquidation of failed banks in his country. He studied the American banking and legal systems before returning home at the end of July.

The four scholars applied for study in this country through the U.S. Information Agency's Regional Scholar Exchange program with the Newly Independent States of the former Soviet Union. They were among 100 scholars accepted from 1,200 applicants.

Once accepted, they were assigned to UMaine, which often provides a host site for members of the program. The program, managed by the International Research and Exchanges Board in Washington, D.C., provides full funding for the visitors. UMaine's link with the program is McConnell.

Four years ago, he launched an Internet discussion list for academics in Central and Eastern Europe, Russia and Central Asia. The list, known as CEEMAN-L, now has 661 members in 45 countries, primarily those of the former Soviet bloc.

The Internet link is sponsored by the Central and East European Development Association, based in Slovenia. It relies on listserver capabilities provided by CAPS at UMaine.

McConnell, who travels frequently to the former Soviet Union, has maintained the link almost daily from his office on the third floor of the Corbett Business Building.

The link, established to overcome what McConnell calls "information deprivation" in the member countries, provides information and funding opportunities for faculty research and exchanges, conferences and publishing. It also provides links with Western business schools.

"In the academic communities of Central Asia and Eastern Europe, Russia and Central Asia, the University of Maine may be the best known U.S. university," McConnell says.

"They have certainly heard of Harvard or Stanford, but they've heard from the University of Maine. This awareness may ultimately provide an unanticipated economic opportunity for UMaine. Given the increasing importance of distance education, the extensive network may ultimately provide direct benefits to the University of Maine in the 'export' of educational services."

The scholars visiting UMaine say they face problems common to the former Soviet bloc countries after communism: Their financial systems are working, but there are bugs to be worked out. Trial-and-error prevails.

But they also call this a time of opportunity. For instance, Guboglo is studying the structure and workings of the American securities market. She hopes to draft recommendations for new laws and regulations suitable for Moldova, a country of 4.5 million people that split from the USSR in August 1991.

"The U.S. market is the most progressive and dynamic of all the securities markets in the world," says Guboglo, who works for a management company that analyzes the activities of the Moldovan stock exchange – from brokers and dealers to investment funds and trust companies.

"This time of transformation in our country gives the possibility for everybody to be involved in this creative work," she says. "We're taking theory and making it practical." ▲

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

#### FOR SALE

**AUTOMOBILE:** 1986 Audi 5000S. Runs great, super car. Clean, no rust. \$2,100. Call 884-8493.

**AUTOMOBILE:** 1987 Mazda 626, 170K, runs great. \$800 or BO. Call 234-2736.

**AUTOMOBILE:** 1986 Plymouth Voyager, new engine, radiator, alternator, rebuilt transmission, body good. New sticker. \$1,250. 581-4387.

**AUTOMOBILE:** 1990 Mercury Sable, one owner. Nicely kept, inside and out. Regularly maintained. \$1,850. 581-4387

**CONDO UNITS:** Beautiful 2- and 3-BR condo units. Whispering Pines is perfect for the University professional who wants to be conveniently located within walking distance of the campus, yet in a quiet location. Affordable prices. Contact Ron, 942-5199, for more information.

**GUITAR:** Classical guitar. Yamaha G235II. Great condition. Pitch pipes, pics, strings, learning books, guitar case included. BO takes all. Call Kathy, 581-3179.

**HOUSE:** New to market. Charming, sunny 3-BR Cape-style home in quiet, well-established Orono neighborhood. Hardwood floors throughout. Large backyard borders the Orono Land Trust. 2-car garage. This house is in move-in condition and is priced to sell at \$98,000. No brokers. Call 866-2131.

**HOUSE:** Grand old Main Street 4BR, extensively remodeled. Den, tile-floor kitchen opening into family room, formal living & dining rooms, sunroom, deck, full basement and attic, garage. About 3,600 sq. ft. Lot approx. 130' front, 100' deep. Walk to campus, Orono schools. \$149,000. Renting an option, \$950/mo. Call 866-2886 or 601-234-3299.

**HOUSE:** Well-maintained and completely updated New Englander in Winterport. This home has many lovely features, such as: 3 BRs, 2 baths, wood floors throughout, brand new kitchen with island, 3 woodstove hook-ups, and much more. The outside has perennial gardens, raised beds for flowers and vegetables, and mature trees and fruit bushes. \$89,900. Call Loren, 223-5458.

**HOUSE:** The back entry brings you into the kitchen with a tile floor and a built-in hutch. Four BRs. Hardwood floors in every room, built-in china cabinet in DR, big sun porch, double French doors between rooms with original woodwork. A central vac-system to make things easy and plenty of closet space. For more information or a floor plan call 827-0035.

**SEA-DOO:** 1994 GTS, 3-person, excellent condition. Includes caravan trailer and cover. Asking \$3,700. 827-2308.

**SLATE SINK:** Monson. 44 x 24 single basin w/24 x 24 attached slate drain board on left side and a 32 x 24 slate counter on right side. Total length: 100" MFG plate and brass drain ring. Slant front. \$700 or BO. Call 827-6354

#### FOR RENT

**HOUSE:** Two BRs, kitchen, LR, bath and garage. All rooms newly renovated. Garage and large yard. \$425/month plus utilities and deposit. 827-2308.

#### SERVICES

**CHILDCARE:** The Child Study Center Preschool has openings in our MWF after-noon class. Call x3080 for information.



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**CHILD CARE:** Waldorf inspired. Creative play, beautiful space (inside and out), music, art, nature, circle games, seasonal activities/festivals, simple toys, and healthful snacks. A small group of children ages 3-5. Fields Pond Road in Orrington (3 miles from Brewer, 10 minutes from downtown Bangor). Call Jane, M.A.T., 825-3417.

The Conley Speech and Hearing Center, L-5 North Stevens Hall, is now accepting new therapy clients for the fall semester – preschool through adult – with speech/language/hearing disorders. Complete speech/language/hearing evaluations are scheduled in our Friday diagnostic clinic, beginning Sept. 12 and ending Dec. 5, for the fall semester. For more information, call x2006.

#### Facilities Management *continued from page 7*

"One-time allocations of money have allowed us to make good progress on infrastructure improvements and to undertake summer projects that were cost-effective yet produced a large, visual impact and improvement of the overall campus environment."

An allocation from the University of Maine System last December allowed Facilities to target three of the highest repair priorities on campus: the roofs of three buildings in the Stevens Hall complex, repair of a main steam tunnel and steam pit, and replacement of an underground fuel tank. In addition, one-time monies earmarked by former President Fred Hutchinson allowed Facilities to undertake those smaller campus projects that would have the most impact on the community.

"We put down a lot of sod and sidewalks, trying to make this an even more pedestrian-friendly campus in keeping with the master plan," says Wihry. That includes the Mall, where now only emergency vehicles are allowed on the paved areas.

Improvements on the Mall have been particularly well-received, says Wihry. "For 20 years we talked about needing improvements on the Mall, but they were all costly. This summer we looked for a straight-forward solution and our crews made it work."

Many of this summer's improvement projects form the spring-board for future renovations on campus. Among them are the building interiors in the Stevens complex, where formerly leaking roofs precluded renovations. The first major renovation has been the office areas now occupied by the new College of Liberal Arts and Sciences.

The replacement of roofs on North, South and Stevens halls also allowed for the replacement of an historical feature on the UMaine skyline – the Stevens finial. For the first time in two decades, the Stevens cupola, the architectural landmark that has become a UMaine symbol, was painted during the reroofing process. The WMEB radio antenna the cupola has sported since 1962-63 was removed and a new finial added.

WMEB's antenna, attached to a new transmitter that allows the station to reach a much wider listening audience in central Maine, will be located atop a light pole at Mahaney Diamond. Facilities Management staff turned to archival photos for ideas of how to reconstruct the copper finial that had topped the Stevens cupola since its construction in 1923. ▲

#### FULL-SERVICE AUDIOLOGY CLINIC AVAILABLE

The Department of Communication Disorders is pleased to announce the arrival of Amy Engler Booth, M.A. CCC-A, Clinical Audiologist. The Conley Speech and Hearing Center will now be offering a full-service Audiology Clinic with audiological services for children and adults in the University community and the general public. Inquiries regarding appointments for hearing testing, hearing aid evaluations and fittings can be made by calling Margo Boyd, x2006.

#### DARLING CENTER SHUTTLE RESUMES SERVICE

The shuttle service between the Orono Campus and the Darling Marine Center campus in Walpole will be shifting up to a five-day schedule during the academic year.

The shuttle service is available to anyone involved in the marine sciences and other related business. Shuttle riders should call either the School of Marine Sciences office (x4385) or the Darling Marine Center (x3321, ext. 201 on campus; 563-3146, ext. 201 off campus) and make reservations.

Reservations are accepted until 2 p.m. the day before the shuttle departs. The shuttle can also be used for shipping packages, samples and supplies between campuses. The shuttle departs Orono from the Libby Hall parking lot at 6:45 a.m. and 4:15 p.m. The shuttle departs the Darling Marine Center at 7 a.m. and 4 p.m. The shuttle leaves promptly at the departure times.



# Positions Available

The qualifications within the listings below are greatly abbreviated. In order to assess your background relative to the job and to submit the most effective application, contact the hiring department for more complete information. To appear in the Maine Perspective, advertisements must be submitted to the Office of Equal Opportunity, 318 Alumni Hall, no later than noon on Wednesday. Guidelines for filling professional positions are available by contacting the Office of Equal Opportunity, x1226. A Request to Fill form must be approved before posting in Maine Perspective.

**Assistant Men's Basketball Coach/Lecturer in Physical Education, Department of Athletics.** Ten-month/50% time position. Qualifications: Required: B.A. degree, college coaching experience. Preferred: Excellent computer skills and written and oral communication skills. Salary: \$10,000. Review of Applications: Will begin immediately and continue until a qualified candidate is identified. Contact: Send letter and resume to John Giannini, Head Basketball Coach, 5747 Memorial Gymnasium, Orono, ME 04469-5747.

**Assistant Strength & Conditioning Coach/Lecturer, Department of Athletics.** Part-time/50% time position. Qualifications: B.S. in exercise science or related field, current first aid and CPR certification, current and active member of the N.S.C.A. and must have a C.S.C.S. or preparing to sit for exam, strong computer skills, a working knowledge of NCAA and conference rules and regulations, demonstrated effective verbal and written communication skills. Salary: \$10,000. Review of Applications: Will begin immediately and continue until a qualified candidate has been identified. Contact: Send letter of application and resume to: Jim St. Pierre, Head Strength & Conditioning Coach, 5747 Memorial Gymnasium, Orono, ME 04469-5747.

**Assistant/Associate Professor, Quantitative Geneticist, School of Marine Sciences.** Academic-year, tenure-track position. Qualifications: Required: Doctorate in genetics or a related discipline. Desired: Postdoctorate research and teaching experience. Review of Applications: Will begin 10/15/97 and continue until position is filled. Contact: Send cover letter, vitae, research plans, and names and addresses of three references to: Irv Kornfield, Chair, Geneticist Search Committee, School of Marine Sciences, University of Maine, 5741 Libby Hall, Orono, ME 04469-5741.

**Fisheries Resource Economist, School of Marine Sciences.** Faculty position currently funded through September 1999; continuation beyond that date is contingent upon additional funding. Qualifications: Ph.D. in economics or resource economics, experience in fisheries management and an ability to work easily with the industry. Review of Applications: Will begin 10/1/97 and continue until the position is filled. Contact: Send letter of application, statement of teaching, research and work experience, curriculum vitae and the names, addresses, telephone numbers and e-mail addresses of three references to: James Wilson, Chair, Economics Search Committee, School of Marine Sciences, University of Maine, 5741 Libby Hall, Orono, ME 04469-5741.

**Biological or Chemical Oceanographer, School of Marine Sciences.** Academic-year, tenure-track faculty position; rank is open and dependent upon qualifications. Qualifications: Required: Ph.D. in oceanography or a closely related field. Highly Desirable: Postdoctoral experience. Review of Applications: Will begin 10/1/97 and continue until the position is filled. Start Date: Jan. 1 or Sept. 1, 1998. Contact: Send letter of application, statement of research interests, curriculum vitae, and names, addresses, telephone numbers and e-mail addresses of three references to: David Townsend, Chair, Oceanography Search Committee, School of Marine Sciences, University of Maine, 5741 Libby Hall, Orono, ME 04469-5741.

**Archivist, Northeast Archives of Folklore and Oral History. Maine Folklife Center.** Full-time, fiscal-year appointment. Qualifications: Required: ALA accredited; MLS or graduate-level training and experience in sound archives management; excellent oral and written communication skills; supervisory experience; and experience with library computer applications. Preferred: Graduate degree in folklore, American history, English, anthropology or related area. Salary Range: \$30,000-\$33,000. Review of Applications: Will begin 9/30/97. Contact: Send cover letter, resume and names of three references to: Pauleena MacDougall, Associate Director, Maine Folklife Center, University of Maine, 5733 So. Stevens Hall, Orono, ME 04469-5773. Review of applications will begin on Sept. 30, 1997.

**Fisheries Population Dynamicist, School of Marine Sciences.** Fixed-length, two-year faculty position. The position is jointly funded by the Maine Department of Marine Resources and the University. Qualifications: Strong background in fisheries science, marine ecology, or population biology. Review of Applications: Will begin 10/97. Contact: Send letter of application and curriculum vitae, accompanied by the names, addresses and phone numbers of three references, to: Chair, Population Dynamicist Search Committee, School of Marine Sciences, University of Maine, 5741 Libby Hall, Orono, ME 04469-5741.

**Assistant/Associate Professor, Pathogenic Microbiologist in Fish/Shellfish Diseases, Department of Biochemistry, Microbiology and Molecular Biology.** Academic-year, tenure-track position. Qualifications: Ph.D., D.V.M. in Microbiology or related discipline, grant writing experience, and post-doctoral research experience in diseases of fish/shellfish. Review of Applications: Will begin Nov. 1 and continue until a suitable candidate has been located. Contact: Send cover letter, vitae, research plans, and names and addresses of three references to: John Singer, Microbiology Search Committee, Department of Biochemistry, Microbiology and Molecular Biology, University of Maine, 5735 Hitchner Hall, Orono, ME 04469-5735.

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

September 8, 1997

Dear UMaine Faculty and Staff,

Last May there was a discussion on FirstClass bulletin board (Provost/Academic Staff) about the possibility of starting a University of Maine service organization. Several people indicated their interest, and four of us met June 9 to begin talking about this further. The minutes of that meeting are available from Muffy Eastman, 581-4194. We are writing now to encourage more feedback, particularly from those who may not be connected to FirstClass.

A University of Maine service organization would provide a mechanism for members of the campus community to represent the University when they do community service. Many faculty and staff already volunteer in the community, but they are doing this service as individuals. Many larger organizations and employers support community service.

At the June meeting we talked about the Volunteers in Community Efforts program and the newly emerging LETS Volunteer Alternative Spring Break Program, both of which are within the Center for Students and Community Life. VOICE, located on the second floor of the Memorial Union, maintains a listing of volunteer opportunities, which is available to faculty and staff as well as to students. VOICE also coordinates some campus volunteer projects each year and recognizes volunteerism with an annual Appreciation Night. Although VOICE is available to faculty and staff, mostly students utilize its office. To date, Appreciation Night has recognized students' volunteer work rather than that of faculty or staff. Having a University of Maine service organization might be very helpful in encouraging faculty and staff to utilize the VOICE office and in recognizing faculty and staff who volunteer. Perhaps you have other thoughts about the pros and cons of starting a UMaine service organization.

There will be a meeting to continue this discussion on Tuesday, Sept. 23, 9-10:30 a.m., 220 Corbett Hall. We'd like to choose leaders for our committee and move ahead with the development of a UMaine service organization.

Sincerely,  
Kathleen March, Department of Modern Languages & Classics  
Nancy Kelly, School of Social Work  
Bonita Parent Grindle, Office of Human Resources  
Muffy Eastman, Center for Students and Community Life

## Sponsored Programs

are due Oct. 24.

**Government of Canada's Canadian Studies Faculty Enrichment Program** provides support for course development in the social and human sciences, journalism, business, trade, environment, and law with a unique relevance to Canada, or in the context of the bilateral or North American relationship. Maximum award: \$1,500 per month for up to three months. Deadline: Oct. 31.

**U.S. Department of Energy's** new PAIR (Partnerships for Academic-Industrial Research) Program invites applications for research in any of the basic energy sciences. Projects must propose interactions between a university investigator and a counterpart in industry with significant involvement of students. Preliminary applications are due Nov. 5; full applications, Jan. 14.

**German-American Academic Council Foundation** makes grants for short-term distinguished guest lectureships, hosted in the US for German scholars or in Germany for American scholars. Deadline: Nov. 15. GAAC's TransCoop Grants provide up to \$50,000 in matching funds to support research collaboration between German and US scholars in the humanities and social sciences. Deadline: Dec. 15.

**Environmental Protection Agency** makes Environmental Education Grants for design, demonstration, or dissemination of environmental education practices, methods, or techniques. Although the maximum award is \$250,000, most grants are for \$5,000 or less. Deadline: Nov. 15.

**Maine-New Hampshire-Vermont Affiliate of American Heart Association** awards fellowships and grants in aid of research broadly related to cardiovascular function and disease, to stroke, or to associated problems in clinical, basic science, and public health disciplines. Deadline: Nov. 17.

**National Science Foundation and National Institutes of Health** have revised criteria and procedures for evaluating unsolicited proposals. NSF has also issued new application guidelines. All revisions become effective as of Oct. 1.

**For more information, call Research & Sponsored Programs, x1476.**

## UMaine Cooperative Extension

### Potatoes for the Health of It

Cooking contests are long-standing traditions at country fairs, and the Northern Maine Fair in Aroostook County is no exception. But four years ago, fair organizers decided they needed to find a new twist to their cooking contest. That's when they turned to University of Maine Cooperative Extension for help.

Aroostook County Extension Educators Pat Snell and Nancy Bradford-Sisson collaborated to develop a heart-healthy potato recipe contest called "Potatoes for the Health of It." The Northern Maine Fair Board and the Maine Potato Board now co-sponsor the contest, with the latter offering substantial premiums for the winners.

Snell and Bradford-Sisson developed the contest rules and the judging form on which potato recipes for breads, casseroles, desserts, salads, soups and other dishes are judged based on low fat/sodium, appearance, ease of preparation, flavor and texture. Judges for the contest include dietitians from local hospitals and school districts, as well as high school home economics teachers.

Contestants receive feedback from the judges regarding the health aspects of their recipes. The contest provides an opportunity to promote the Maine potato, its myriad of culinary uses, and food safety. Just as importantly, the contest at the fair and subsequent publicity demonstrate how easy it is to alter traditional recipes for health.

In this, the fourth annual contest, there were 24 entries. The Best of Show winner was Carolyn Kelley of Caribou, who walked away with top honors for her recipe for Potato Raspberry Delight, a fruity cake that uses mashed potatoes. Kelley also has had contest-winning recipes in past years for Maine Potato Party Squares and Tangey Lemon Pepper Maine Potato Salad.

Recipes from previous contests have been used in developing an informational heart-healthy potato cookbook, *Mainely Potatoes*, compiled and edited by Bradford-Sisson and Snell, and published by the Maine Potato Board. The cookbook has been widely distributed outside Maine at events such as food and trade shows.

The healthy recipe contest is a teaching package that provides hands-on experiences while reaching beyond the contest participants and their families, says Bradford-Sisson. The fair provides a forum for education, and the results of the contest have provided additional opportunities for education and behavior change.

## What's Ahead

**PRESIDENT'S ANNUAL FALL  
BREAKFAST  
September 10**

**"HUNGRY CHILDREN IN  
MAINE"  
September 24**

**OPEN CLASSROOM DAY  
September 26**

**ORGANIZATIONAL FAIR  
September 27**

**"LION WOMAN'S LEGACY"  
October 1**

**COLLEGE FAIR  
October 6-7**

## Maine Perspective

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