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Photo by Monty Rand

Third Memorandum of Understanding Signed Between UMaine and AUBG

When President Clinton visited Bulgaria last November to thank Eastern Europeans for their support during the Kosovo crisis, he was introduced to a crowd of thousands in a Sophia square by a student from the American University in Bulgaria.

Clinton also had a roundtable discussion over lunch with 12 AUBG students, and was presented an honorary degree by AUBG President and former longtime UMaine faculty member Julia Watkins, who is in the fifth year of her administration.

We should take pride in having helped create such an outstanding institution in a challenging part of the world, under challenging circumstances.

The involvement of AUBG in such a historic event is in keeping with its stature and success, and is indicative of how far it has come in nine years, according to Karen Boucias, director of UMaine's Office of International Programs.

"It was the first time a sitting U.S. president has visited Bulgaria," says Boucias. "Clinton spent two hours talking with the students – the future leaders of Bulgaria. These students are serious and know they were tapped for this because they attend the institution with the best reputation in Bulgaria."

In 1991, AUBG in Blagoevgrad opened as the first American-style university in Eastern Europe

with primary funding from USAID, the George Soros Foundation and the Republic of Bulgaria. The four-year, liberal arts institution was developed with planning assistance from UMaine. In a Memorandum of Understanding, drawn up between UMaine and AUBG, the University of Maine had oversight in the hiring of the AUBG president and faculty, and the development of curriculum. UMaine extended its accreditation to AUBG academic degrees.

In March 1998, AUBG was "approved for candidacy" as the first step in accreditation by the New England Association of Schools and Colleges (NEASC). AUBG is expected to achieve full accreditation in five years.

Last month, a new five-year Memorandum of Understanding with AUBG was approved,

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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.



THE UNIVERSITY OF
MAINE

Maine Writing Project Seeks Outstanding Educators in State for Fourth Annual Institute

The Maine Writing Project at the University of Maine is taking its summer professional development program on the road to reach and accommodate educators in different areas of the state. This summer's institute in Aroostook County represents the first time the intensive program for exemplary Maine teachers has been offered off campus.

Each year, the Maine Writing Project invites outstanding educators to participate in the rigorous summer institute, June 26-July 14 at the University of Maine at Presque Isle. Nominations of exemplary teachers, kindergarten through post-secondary in all curriculum areas, are sought for the fourth annual institute. Participants are selected on the basis of their success as teachers and for their promise as instructional leaders.

The competitive program is providing a force of highly trained writing instructors for Maine students and for other teachers. After successfully completing the program, the educators are distinguished as fellows of both the Maine Writing Project and the National Writing Project.

The national project and its state affiliates comprise a grass-roots teaching initiative dedicated to the improvement of student writing and the teaching of writing across the curriculum in all grade levels. Educators from the primary grades through the university level work as colleagues and are part of a national network of teacher consultants qualified to provide professional development workshops in schools in the state and nation.

The Maine Writing Project was established in 1997 by the College of Education and Human Development and was designated the state's official National Writing Project site the following year. Jeff Wilhelm, associate professor of literacy, is founder and director of the Maine Writing Project. Approximately 70 Maine teachers have completed the program.

The Maine Writing Project is expected to take place in southern Maine in summer 2001. ▲

UMaine Research on Capitol Hill

The latest University of Maine research initiatives in engineering, environmental sciences and human health were profiled for Maine's Congressional delegation and federal agency staff members Feb. 9 in Washington D.C., as part of Capitol Hill Day.

UMaine President Peter Hoff welcomed participants, and Daniel Dwyer, vice president for research, introduced members of the Maine delegation. A luncheon address was given by Frank Fernandez, director of the Defense Advanced Research Projects Agency (DARPA). DARPA is the principal agency in the Department of Defense for research, development and demonstration of concepts, devices and systems for advanced military capabilities.

UMaine faculty members described projects in high-speed ship design, finfish aquaculture, wood composite engineering, chemical and biological sensors, ocean monitoring, aquaculture, geographic information systems, math and science education, and infant health.

Their work is made possible by funding from the state of Maine and private organizations working with federal agencies, including the Department of Defense, the National Science Foundation, the Department of Commerce, the National Aeronautics and Space Administration, the U.S. Department of Agriculture and the National Institutes of Health. ▲



Members of "The Faculty Five," a group of UMaine faculty members who have worked to raise statewide public awareness of the value of University research, were honored Feb. 2 at the Blaine House in Augusta. Gov. Angus King, left, and the Maine Science and Technology Foundation hosted a celebration recognizing the progress that has been made in science and technology in Maine, and honoring some of those who have contributed. Members of the Faculty Five attending the event were, left to right, George Markowsky, David Smith and George Jacobson. Not pictured are Steve Norton and Malcolm Hunter. Photo courtesy Maine Science & Technology Foundation

Students Headed to Four States for Alternative Break

Almost 40 UMaine students and staff will be involved in community service projects at four sites in Michigan, Ohio, West Virginia and Tennessee as part of the University's third annual LET'S Volunteer Alternative Spring Break, March 10-19.

The students will travel in vans to four Break Away sites to volunteer with:

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MAINE PERSPECTIVE PUBLISHING SCHEDULE

The spring publication schedule of *Maine Perspective* is:
March 6 (copy deadline Feb. 23); March 27 (copy deadline March 8);
April 10 (copy deadline March 29); April 24 (copy deadline April 12);
May 8 (copy deadline April 26).

MAINE Perspective

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MAINE Calendar

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

FEBRUARY 23 – MARCH 12

23 Wednesday

End of First Third of Semester for Withdrawals, see your dean's office for details, Feb. 23.

Winter Shelter Building Seminar, part of the Maine Bound Program Winter/Summer 2000 course offerings, Feb. 23. Registration required by calling x1794.

"The Future of the Art Museum: In Bangor and On Campus," by Wally Mason, part of the PEAC Brown Bag Luncheon Series, noon, Feb. 23, Bodwell Lounge, Maine Center for the Arts.

"Gender and Genre in Caribbean Women's Literature: Marlene Nourbese Phillips' *Discourse on the Logic of Language*," by Patricia Saunders, assistant professor of English, Bowdoin College, part of the Women in the Curriculum Luncheon Series, 12:15-1:30 p.m., Feb. 23, Bangor Lounge, Union. x1228.

24 Thursday

"Protests at the World Trade Organization (WTO) Meeting in Seattle," by Bangor peace and justice advocates Jim Harney and Georgia Kosciusko, part of the Socialist and Marxist Studies Series, 12:30-1:45 p.m., Feb. 24, Bangor Lounge, Union. x3860.

Global Village or Global Pillage and Sweating for a T-Shirt, part of the Peace and Justice Film Series, 7 p.m., Feb. 24, Devino Auditorium, Corbett Business Building. x3860.

The Magic Flute, performed by the London City Opera Company, part of the Maine Center for the Arts performance season, 7 p.m., Feb. 24, Hutchins Concert Hall. Admission Fee. x1755.

Men's Basketball: UMaine vs. Northeastern, 7:30 p.m., Feb. 24, Alfond Arena. Admission Fee. xBEAR.

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

25 Friday

Cross-Country Ski Touring: Classic Style, part of the Maine Bound Program Winter/Summer 2000 course offerings, Feb. 25. Admission Fee. Registration required by calling x1794.

"Neural Crest and Placodal Cells: Their Role in the Development of Fish Morphology," by Tom Miyaki, Dalhousie University, part of the School of Marine Sciences Seminar Series, 11:15 a.m., Feb. 25, 100 Bryand Global Sciences Center. x4381.

TGIF Music Series: The Lidral Trio, 12:15-1 p.m., Feb. 25, Damn Yankee, Union. x1406.

"Rapid Changes in North American Vegetation During the Past 1,000 Years," by George Jacobson, part of the Biological Sciences Seminar Series, 3:10 p.m., Feb. 25, 102 Murray Hall. x2970.

Men's Ice Hockey: UMaine vs. Merrimack, 7 p.m., Feb. 25, Alfond Arena. Admission Fee. xBEAR.

Men's Volleyball Club: UMaine vs. USM, 7-8 p.m., Feb. 25, Lengyel Gym. x1406.

26 Saturday

Snowshoe Day Hike, part of the Maine Bound Program Winter/Summer 2000 course offerings, Feb. 26. Admission Fee. Registration required by calling x1794.

Men's Basketball: UMaine vs. Boston University, noon, Feb. 26, Alfond Arena. Admission Fee. xBEAR.

TAX ASSISTANCE AVAILABLE

Accounting and Tax students from the Maine Business School are available to provide free assistance for people filing state and federal income tax returns. This program, VITA, is sponsored by the IRS.

Assistance is provided 3:10-4:30 p.m., every Wednesday through April 12, except during Spring Break, 113 Corbett Business Building. To receive assistance, bring your W-2s, 1099s, other tax information, and any tax forms you may have.

Call Steve Colburn, 581-1982, for more information.

Men's Ice Hockey: UMaine vs. Merrimack, 7 p.m., Feb. 26, Alfond Arena. Admission Fee. xBEAR.

27 Sunday

Kayak Rolling Pool Clinic, part of the Maine Bound Program Winter/Summer 2000 course offerings, Feb. 27. Registration required by calling x1794.

28 Monday

"Cooperative Deer Yard Management: A New Method of Wildlife Habitat Management," by Rich Hoppe, Department of Inland Fisheries and Wildlife, part of the Wildlife Ecology Seminar Series, noon, Feb. 28, 204 Nutting Hall. x2862.

29 Tuesday

"Rotation Crop Root Density and Effects on Subsequent Potato Crop," by Angsana Tokitkita, candidate for master's degree in plant, soil and environmental sciences, 9 a.m., Feb. 29, Deering Hall.

Video: Wet Ones, part of the Maine Bound Lunchtime Adventure Series, noon, Feb. 29, FFA Room, Union.

1 Wednesday

Coastal Sea Kayak Navigation, part of the Maine Bound Program Winter/Summer 2000 course offerings, March 1. Admission Fee. Registration required by calling x1794.

"Service Learning," a new faculty luncheon, with guests Lynn Gittlew, Jennifer Pixley and Victoria Ryan, offered by the Center for Teaching Excellence and the Office of Academic Affairs, noon-1:30 p.m., March 1, Wells Conference Center. Reservations required by calling x3472.

"Women and Politics in Turkey," by Günseli Donmez Isci, professor of English, Ege University, Izmir, Turkey, and Fulbright Scholar at Temple University, part of the Women in the Curriculum Luncheon Series, 12:15-1:30 p.m., March 1, Bangor Lounge, Union. x1228.

"Amiri Baraka on Issues of Race and Class in the United States," with Amiri Baraka, poet, playwright and activist, part of the Socialist and Marxist Studies Series, 12:30-1:45 p.m., March 1, Minsky Recital Hall. x3860.

Ongoing Events

Exhibits/Demonstrations/Tours

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

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

William Irvine: Recent Paintings, a Museum of Art exhibit, March 3-April 8, Carnegie Hall. x3255.

Komar & Melamid: Catalogue of Superobjects: Supercomfort for Superpeople, a Museum of Art exhibit, March 3-April 8, Carnegie Hall. x3255.

Bangor Art Society Exhibit, featuring works by Lindsay May Farris, Gaye Grant, Glennis Mockler, Darlene Sweezey and Helen Wolfhagen, through April 20, Chadbourne Hall. x3072.

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

Meetings of Groups/Organizations

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

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

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

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

Level II Avalanche Course - Mount Washington, part of the Maine Bound Program Winter/Summer 2000 course offerings, March 4-6. Admission Fee. Registration required by calling x1794.

Level III Avalanche Course, part of the Maine Bound Program Winter/Summer 2000 course offerings, March 8-11. Admission Fee. Registration required by calling x1794.

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

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

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

Spring Break Joshua Tree Rock Climbing Trip, part of the Maine Bound Program Winter/Summer 2000 course offerings, March 14-21. Admission Fee. Registration required by calling x1794.

Spring Break Mount Washington Winter Mountaineering Intensive, part of the Maine Bound Program Winter/Summer 2000 course offerings, March 14-17. Registration required by calling x1794.

Spring Break Southern Whitewater Tour, part of the Maine Bound Program Winter/Summer 2000 course offerings, March 18-26. Admission Fee. Registration required by calling x1794.

Spring Break Southwest Mountain Biking Trip, part of the Maine Bound Program Winter/Summer 2000 course offerings, March 11-25. Admission Fee. Registration required by calling x1794.

The Classic Katahdin Winter Trip, part of the Maine Bound Program Winter/Summer 2000 course offerings, Feb. 23-27. Admission fee. Registration required by calling x1794.

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

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

Glengarry Glen Ross, a Maine Masque production, directed by Marcia Douglas, part of the School of Performing Arts Season, 7:30 p.m., March 1, Hauck Auditorium. Admission Fee. x1755.

2 Thursday

Women in the Curriculum and Women's Studies Program Open House and Book Fair, part of the Women's History Celebration, 11:30 a.m.-4 p.m., March 2, 101 Fernald Hall. x1228.

Glengarry Glen Ross, a Maine Masque production, directed by Marcia Douglas, part of the School of Performing Arts Season, 7:30 p.m., March 2, Hauck Auditorium. Admission Fee. x1755.

Women's Basketball: UMaine vs. Vermont, 7:30 p.m., March 2, Alford Arena. Admission Fee. xBEAR.

3 Friday

Cross-Country Ski Touring: Classic Style, part of the Maine Bound Program Winter/Summer 2000 course offerings, March 3. Admission Fee. Registration required by calling x1794.

Women in the Curriculum and Women's Studies Program Book Fair, part of the Women's History Celebration, 9 a.m.-4:30 p.m., March 3, 101 Fernald Hall. x1228.

"Why Are Northwest Atlantic Cod Populations Not Recovering? A Reproductive Perspective," by Ed Trippel, St. Andrews Biological Station, Department of Fisheries and Oceans, New Brunswick, part of the School of Marine Sciences Seminar Series, 11:15 a.m., March 3, 100 Bryand Global Sciences Center.

Career Action Network, brown bag lunch discussion for non-traditional women students interested in sharing information about success in college and careers, offered by the Career Center, Center for Students and Community Life, and the Women's Resource Center, noon-1 p.m., March 3, Fernald Hall. x1406.

TGIF Music Series: Steve Grover, 12:15-1 p.m., March 3, Damn Yankee. x1406.

"Ecology and Evolution in Vaccinium - Taxonomic Implications," by Sam Vander Kloet, Acadia University, part of the Biological Sciences Seminar Series, 3:10 p.m., March 3, 102 Murray Hall. x2970.

Opening Reception for Museum of Art Exhibits William Irvine: Recent Paintings and Komar and Melamid: Catalogue of Superobjects: Supercomfort for Superpeople, 5-7 p.m., with gallery talks at 6 p.m., March 3, Carnegie Hall. x3255.

Glengarry Glen Ross, a Maine Masque Production, directed by Marcia Douglas, part of the School of Performing Arts Season, 7:30 p.m., March 3, Hauck Auditorium, Union. Admission Fee. x1755.

4 Saturday

Glengarry Glen Ross, a Maine Masque Production, directed by Marcia Douglas, part of the School of Performing Arts Season, 2 p.m., March 4, Hauck Auditorium. Admission Fee. x1755.

Women's Ice Hockey: UMaine vs. St. Lawrence, 3 p.m., March 4, Alford Arena. Admission Fee. xBEAR.

Glengarry Glen Ross, a Maine Masque Production, directed by Marcia Douglas, part of the School of Performing Arts Season, 7:30 p.m., March 4, Hauck Auditorium, Union. Admission Fee. x1755.

Guest Artist Sima Kustanovich in Concert, part of the School of Performing Arts Season and Women's History Celebration, 7:30 p.m., March 4, Minsky Recital Hall. Admission Fee. x1755.

5 Sunday

Kayak Rolling Pool Clinic, part of the Maine Bound Program Winter/Summer 2000 course offerings, March 5. Admission Fee. Registration required by calling x1794.

Glengarry Glen Ross, a Maine Masque Production, directed by Marcia Douglas, part of the School of Performing Arts Season, 2 p.m., March 5, Hauck Auditorium. Admission Fee. x1755.

Performance by the Buswell/Ou Piano Trio, with pianist Meng-Chieh Liu, part of the Maine Center for the Arts performance season, 3 p.m., March 5, Minsky Recital Hall. Admission Fee. Pre-concert preview by David Klocko, 2 p.m., Bodwell Lounge. x1755.

Women's Ice Hockey: UMaine vs. Cornell, 3 p.m., March 5, Alford Arena. Admission Fee. xBEAR.

6 Monday

Flute/Piano/Cello Trio in Concert, featuring Liz Downing, Phillip Silver and Noreen Silver, part of the School of Performing Arts Season, 7:30 p.m., March 6, Minsky Recital Hall. Admission Fee. x1755.

7 Tuesday

"Backcountry Medicine," part of the Maine Bound Lunchtime Adventure Series, noon, March 7, FFA Room, Union. x1794.

Mardi Gras, Franco dinner and music by singer/songwriter Josée Vachon, 4:30-6:45 p.m., March 7, York Commons. Advance ticket sales only by calling x4959.

8 Wednesday

Outdoor Leadership Training, part of the Maine Bound Program Winter/Summer 2000 course offerings, March 8. Admission Fee. Registration required by calling x1794.

"The Untold Story of Title IX: How We Got It When No One Was Looking," by Bernice Sandler, senior scholar in residence, National Association for Women in Education, part of the Women in the Curriculum Luncheon Series, 12:15-1:30 p.m., March 8, Lown Room, Union. x1228.

9 Thursday

"Living with Chronic Illness," by Isabelle Boisclair, part of the EAP Lunch and Learn Series, noon-1 p.m., March 9, Bodwell Lounge, Maine Center for the Arts. x4014.

"Moving Images: Recent Preservation Histories," by Karan Sheldon, co-founder of Northeast Historic Film, offered by Fogler Library Friends, 2 p.m., March 9, Special Collections, Fogler Library.

10 Friday

"The Sustainable Fisheries Act - Three Years Later," by Pat Kurkul, regional director, National Marine Fisheries Service, part of the School of Marine Sciences Seminar Series, 11:15 a.m., March 10, 100 Bryard Global Sciences Center. x4381.

"Nutrient Limitation and Consumer Control in Tropical Stream Food Webs," by Amy Rosemond, University of Georgia, part of the Biological Sciences Seminar Series, 3:10 p.m., March 10, 102 Murray Hall. x2970.

Spring Break Begins, 5 p.m., March 10.

12 Sunday

Bangor Symphony Orchestra Concert, featuring works by Copland, Bartok, Barber and Stravinsky, 3 p.m., March 12, Hutchins Concert Hall. Admission Fee. Pre-concert preview by David Klocko, 2 p.m., Minsky Recital Hall. 942-5555.

SECOND GRADUATE RESEARCH EXPOSITION April 4-5 Wells Conference Center

All graduate students in all disciplines are encouraged to develop and present posters displaying their work, and all members of the campus and local communities are invited to come and learn about the exciting and important contributions our graduate students are making in their fields. Several presentation prizes will be awarded. Watch for more details in the Association of Graduate Students folder on FirstClass.

COUNSELING CENTER SPRING GROUPS

Women's Group - An opportunity to meet with other women to explore issues of concern to women, including exploration of personal growth and identity.

Coping with Food Group - For students concerned about their eating habits and who want to change their relationship with food and emotions.

Interpersonal Relationship(s) Group - For men and women who want to learn more about themselves and their relationships.

Systems-Oriented Training Group - To learn to reduce anxiety and depression, to understand the relationship between thoughts and feelings, and to learn to work with others toward greater self-awareness.

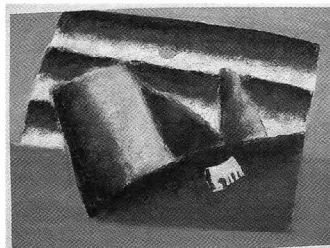
For more information, call 581-1392.



Courtney Martin, a member of Alpha Omicron Pi, was among the many UMaine students busy creating snow sculptures Feb. 9 as part of the first annual Winterfest. More than 330 people participated in winter recreation activities on the Mall and a raffle during the day-long event. Maine Bound instructors led cross-country skiing and snowshoeing demonstrations. They also built a large quinzee (snow cave) and talked to people about winter camping. Maine Bound also hosted dogsled musher Dan Pelletier and his dogs for demonstrations throughout the day and rides in the afternoon. Recreational Sports had a snow volleyball court and built an ice rink that students can enjoy for the rest of the cold season. WMEB broadcast from the heated wall tent and Pi Kappa Alpha served hot chocolate. Snack tables were sponsored by Alpha Omicron Pi and Lambda Chi Alpha. Volunteers from Sigma Nu handed out raffle tickets. Winning the snow sculpture contest was the Pagan Campus Organization (PaCO) for its frog on a lily pad. Plans are already under way for Winterfest 2001, which is expected to last for a weekend, with activities throughout campus.

Photo by Monty Rand

Gallery Glimpses



William Irvine
Evening Cove, 1999
Oil on Board

Maine Landscapes

For the past 30 years, William Irvine has recorded the landscape of Maine, utilizing his surroundings as a means of personal dialogue to create oil paintings on canvas and paper that are at once humble, unique and yet universal. In the artist's recent works, landscape, abstraction and the process of painting

coalesce to the degree that at times the works seem rescued from nature itself. In addition, the similarities of Scottish and Maine landscapes have not been lost on Irvine, a native of Scotland who has lived in Blue Hill since 1969. The exhibit, *William Irvine: Recent Paintings*, is on exhibit in Carnegie Hall, March 3-April 8.

Russian Pop

Russian artists Vitaly Komar and Alexander Melamid initiated the SOTS Art movement (the Soviet version of Western Pop Art) in 1967. Notorious dissidents before they left the Soviet Union for New York City, the artists have been called "exasperating expatriates" for their travesties of Socialist Realism. Most of their work has a hard political edge, while created out of various styles taken from throughout art history.

Catalogue of Superobjects: Supercomfort for Superpeople was created in 1977 as a mockery of the Western marketplace. The 36 color photographs document devices the artists invented - devices allowing consumers to purchase qualities seen as desirable. *Catalogue* will be on display March 3-April 8, Carnegie Hall.

People in Perspective

Betty Fadrigon still remembers the night she got a phone call telling her there were two groups at Alford Sports Arena, each contending it was their turn on the ice.

Fadrigon, who had just started her new job as Alford scheduler, didn't bother to change out of her slippers. She drove to campus, stopping by Public Safety to get a key to her new office, where the schedule confirmation slips were filed. But before someone in Public Safety could unlock her office, they had to respond to a disturbance at Alford. The two groups had decided to settle the dispute.

Fadrigon's records showed that one of the groups got mixed up on its reservation for ice time.

"For the next 10 years, every time the phone rang, I thought it was the rink," says Fadrigon, who has been coordinating activities at the Arena now for 15 years. "It has always served as an example of the importance of scheduling and how it must be done right. One scheduling error can affect 50-100 people, or athletes and all their fans who are here for a game."

Fadrigon joined the University community in 1979, working in the Honors Program for five years before joining the Department of Athletics staff.

Headquartered in Mahaney Clubhouse for the past four years, Fadrigon also provides staff support for the varsity Baseball Program.

"I'm one of those people on campus who can say I truly love what I do and I look forward to coming to work every day," says Fadrigon. "The job holds new challenges on a daily basis, especially in the interaction with people, most of whom are off campus."

From September to April, there are approximately 3,400 hours of ice time available – 19 hours a day, 5 a.m.-midnight.

Fadrigon's job is to determine who is on the ice when, virtually accounting for every hour.

"When I begin putting the schedule together in the summer, I look at it as a puzzle," says Fadrigon. "The varsity hockey and basketball programs and their needs form the outside of the puzzle. Then there are the schedules of a number of community organizations that use Alford as their home ice. Then there are activities we organize, such as hockey clinics for adults and children, and the largest Learn to Skate program in the state."

"Once the puzzle is in place, it is a matter of keeping things running smoothly. I have to be careful to schedule one group at a time. In my 15 years of scheduling, I can count on one hand the number of scheduling problems, with two groups showing up at the same time."

While it's Fadrigon's job to compile the Alford schedule, it is the Arena staff who make it work, she says. "It is a group effort. We always have high standards, and pride in helping everyone, while taking their special needs into consideration."



Betty Fadrigon

Photo by Monty Rand

"People in this area often take this fabulous skating facility for granted," says Fadrigon. "That's particularly noticeable when youth hockey teams from the other end of the state or Canada come here to play and are awestruck."

Fadrigon knows the importance skating plays in the lives of people in this area. Her husband has been involved in youth hockey and high school hockey for more than two decades. Her son played hockey and her daughter is a figure skater.

"I grew up down the street from the outdoor skating rink in Old Town," she says. "I skated every day. For years, I thought I was a good skater until I took a lesson in the Learn to Skate program at Alford seven years ago. I was amazed at how much there is to learn and know about skating."

Alford Arena has long been a community resource as a place for Learn to Skate programs that have drawn 500 participants, and for private lessons. Hours are offered daily for public skating and Stick and Puck. This is the 22nd year for the Old Timers Tournament, which draws adult community hockey teams from throughout Maine, New England and Canada.

Three high schools call Alford home ice. More than 700 youth and almost 200 adult hockey players skate at UMaine.

"It is exciting dealing with people on and off campus," says Fadrigon. "There are some people I've talked to on the phone for years and never met face to face. When we finally do, we feel like family. So many people count on Alford. They look to me and trust that I'm going to do the best I can for them. And that's a good feeling."

THE EMPLOYEE ASSISTANCE PROGRAM ASKS – WHAT IS A PROBLEM?

A problem is a problem if –

- ▼ It takes up considerable time in your thoughts, i.e. worry.
- ▼ It takes a lot of emotional energy to pretend that "it's not that bad" or it will get better with time (and it hasn't).
- ▼ It causes you to be physically ill or overly tired – "you lost your zip."

You know it is a problem but –

- ▼ You don't know where to go for help.
- ▼ You don't want to "rock the boat" and make things worse.

Seek the assistance you need today before your problem becomes more serious. Call the University of Maine's Employee Assistance Program, 581-4014, for a confidential appointment.

EAP provides free, short-term counseling (up to six free sessions), referral, and consultation on a wide variety of work issues and personal problems for faculty, staff, their family members and retirees.

Center Stage

School of Performing Arts

Works of 19th-Century Female Composers

A chamber music concert dedicated to the works of 19th-century female composers is a highlight of UMaine's Women's History observance.

Guest artist Sima Kustanovich will join UMaine faculty Diane Roscetti on cello and Anatole Wieck on violin for the concert Saturday, March 4 at 7:30 p.m., Minsky Recital Hall.

Kustanovich is on the faculties of Clark University and the Walnut Hill School for the Performing Arts, and is the co-founder of the Commonwealth Competition for Young Pianists. Kustanovich is a recipient of the Vision 2000 Cultural Enrichment Award from the *Worcester Telegram & Gazette*.

Kustanovich specializes in the music of female composers, whose work was often ignored during their lifetimes.

"Their music was neglected," says Wieck. "It was accepted that women could be performers, but the work women did as composers was not recognized. Through performance and research, we're realizing that the music these women wrote is beautiful and technically strong."

Kustanovich will perform three pieces by Clara Schumann: *Three Romances for Violin and Piano, Trio, Op. 17* and *Caprice No. 1, Op. 1*, written with Paganini. She will also perform *D'Un Matin de Printemps* and *Cortege* by Lili Boulanger.

Glengarry Glen Ross

It's a sales person's nightmare. The boss has just announced an office contest. First prize is a Cadillac and the second prize is a set of steak knives. Everyone else? Unemployment.

That's the situation faced by the characters in David Mamet's *Glengarry Glen Ross*, a play about greed and desperation in the real estate market. The comic drama will be performed at 7:30 p.m., March 1-4; 2 p.m., March 4-5, Hauck Auditorium.

"The play is sort of like a *Death of a Salesman* for the 1990s. It's about a group of salesmen who sell land basically for investment purposes," says Marcia Joy Douglas, assistant professor of theatre who directs the production. "It chronicles the underbelly and the pressures of that lifestyle, and explores what people do when they feel that their survival is at stake."

In many ways, says Douglas, the characters in this play are



Andrew Hicks, left, as Dave Moss and J.P. Guimont as Richard Roma are two of the cast members in the Maine Masque production of *Glengarry Glen Ross*.

Photo by Monty Rand

raw and often acerbic, but they ultimately elicit a measure of sympathy from the audience because of their situation and their will to prevail.

"The play really captures that sense of things passing you by, that feeling of losing a way of life," says Douglas. "I just find the people in this play fascinating. I think Mamet is a playwright who needs to be seen and heard, and who our actors needed to experience." ▲



A new trio takes the Minsky Recital Hall stage in March to perform works by Weber, Czerny, Kuhlau and Martinu. Left to right, cellist Noreen Silver, pianist Phillip Silver, and flutist Liz Downing will present a concert at 7:30 p.m., Monday, March 6.

Photo by Monty Rand

Women Throughout Generations Celebrated in UMaine Observance

The achievements of generations of women linking the past to the future will be celebrated in March and April during UMaine's 16th Women's History Celebration.

This year's campus-based schedule of lectures, concerts and a teleconference reflects the historical, international and multicultural influences that continue to shape and inform the agenda for women in the 21st century.

Highlights of the UMaine observance include:

▼ A Wednesday, March 8 lecture by Bernice Sandler of the National Association for Women in Education, speaking on "The Untold Story of Title IX." The week of March 8 has been nationally designated as Myra Sadker Days, in honor of the American University scholar who pioneered research on how boys and girls are treated differently by teachers in the classroom.

▼ A teleconference Monday, March 27 and Wednesday, March 29 will focus on "Women's Lives, Voices, Solutions" in shaping a national agenda for women in higher education and in the 21st century.

▼ Noted historian Darlene Clark Hine, who will be a keynote speaker for the April 6-7 Diversity Conference, will present "Black Women's History at the Intersection of Culture and Power."

▼ Lectures by Laurel Thatcher Ulrich, author of this year's UMaine class book, Tuesday-Wednesday, April 11-12, will focus on her writing of the life and times of 19th-century midwife Martha Ballard, and her scholarship on the "Age of Homespun."

▼ Legendary folk singer Joan Baez will take the Hutchins Concert Hall stage Wednesday, March 29. As part of the concert, Baez will introduce a new young singer, Eliza Carthy.

A full schedule of UMaine Women History events is available from Women in the Curriculum, 581-1228. Events are listed in the University's master calendar. ▲

Seeing the Forest Using an Advanced Visible/InfraRed Imaging Spectrometer

Being on the ground floor of a new technology can be exciting but also frustrating. In Stephanie Vermillion's case, the experience opened doors to two major federal research labs and led to a job with one of the nation's major photographic imaging companies. Her master's degree project, which concluded this winter, was one of the first attempts to apply a powerful remote sensing technique to forestry.

Vermillion worked with Steve Sader, UMaine professor of forest management who specializes in analysis of land use change. She now is headed to the Eastman Kodak Co., in Rochester, N.Y., as a specialist in hyperspectral imaging.

In the past two years, Vermillion has become versed in the use of a technology known as AVIRIS – Advanced Visible/InfraRed Imaging Spectrometer. She worked at the Goddard Space Center in Maryland during a summer internship and presented a poster on her work to experts in AVIRIS technology at a conference at the Jet Propulsion Lab in Pasadena.

"I didn't know anything about this technology when I came to the University in 1997," she says. "I didn't even know basic concepts of remote sensing, but I did some reading and found that with the hyperspectral data, I could do a project in two years and maybe break some new ground."

AVIRIS technology has been used on aircraft since the mid-1980s to take pictures of the Earth's surface. While it has proven benefits in fields such as geology (it can distinguish one mineral from another), it had not been used much for vegetation analysis. Sader and other researchers who apply remote sensing techniques to forests have depended on other imaging technologies such as Landsat satellites.

While Landsat gathers information in six optical channels and one thermal channel, AVIRIS spans 224 optical channels. Although they cover roughly the same part of the electromagnetic spectrum, AVIRIS channels are much narrower than those on Landsat. Thus, the data sets that Vermillion used are known as "hyperspectral," a term that refers to many individual spectra of light. AVIRIS data can also reveal smaller details by focusing on smaller patches of ground.

When she began her undergraduate work at The Ohio State University, such a career path wasn't on her horizon. "I come from a long line of electrical engineers," she says. "My mother sold computers. We are a very computer-savvy family. But I like to be outdoors, and I was determined not to be a workaholic and a computer geek."

Vermillion started in pre-vet and eventually graduated with a bachelor's degree in wildlife. Her subsequent job with the Ohio Division of Wildlife involved too much mundane work, she says, such as mowing the grass.

Still wanting to work in a natural resources field, she decided to take advantage of her computer skills and apply to graduate schools with programs in remote sensing and geographic information systems. UMaine was high on her list, and she aggressively

pursued entry into Sader's laboratory in Nutting Hall. She eventually came to UMaine with support from the National Aeronautics and Space Administration (NASA) Space Grant program.

Vermillion's challenge was to demonstrate that one or a combination of the AVIRIS channels could be used to indicate changes in tree species composition or forest structure across the landscape. NASA had accumulated AVIRIS data sets for mid-Maine as part of a multi-year project in the mid-'90s and made them available to Vermillion at no charge. The "scenes," as they are called, stretch north from Bangor to Howland and pass over Marsh Island and the northern part of the Penobscot Experimental Forest (PEF) in Bradley.

In order to apply the technology, Vermillion trekked through the PEF to find and catalog stands composed of specific species such as white pine, red oak and hemlock. If she could correctly identify these so-called "training sites" in the AVIRIS images, she might be able to correlate each species with a narrow region of the electromagnetic spectrum. The goal would be to plot the distribution of species across the AVIRIS image.

If she succeeded, raw material for a forest inventory could be developed from the huge archive of AVIRIS data. The

beneficiaries would include forest products companies, government agencies and non-profit organizations interested in the fate of the nation's forests.

However, that result eluded Vermillion. Her initial attempt to identify species on the ground with selected spectra in the AVIRIS data achieved only a 30 percent correlation. The U.S. Geological Survey has established a minimum threshold of at least 85 percent correlation for mapping purposes. When she applied different criteria to the data, the correlation doubled to 70 percent.

Part of the challenge in applying remote sensing technology to forests, she says, is the large amount of variation within most forest stands. Other types of variation also affect the analysis, Vermillion points out. "The smallest patch of ground that AVIRIS covers is 20 meters square. That whole area is not necessarily going to be trees. It could be stumps, rocks, trees, understory, whatever. It's really hard to know what's going in the image, and that's probably why AVIRIS hasn't been used for vegetation yet."

Vermillion also tried to correlate AVIRIS data with the structural characteristics of tree stands, such as basal area, average stand height and percent canopy cover. She was able to get significant correlations between two channels of AVIRIS spectra and the basal area in softwood sites. However, the predictive power of those correlations is still low, she adds.

Since her work is some of the first to have focused on such relationships, Vermillion lacks a record in the literature that would indicate whether or not she is on the right track. At this point, she says, her results need to be confirmed and developed through additional research.

Vermillion plans to finish her thesis this spring in addition to starting work for Kodak. ▲



Stephanie Vermillion

Photo by Monty Rand

The CUTTING EDGE

University of Maine Research on the Frontiers of Science

Cooperatively Managed Fisheries

Fish stocks may be in trouble from Asia to New England, but Maine's lobster fishery continues to deliver record high harvests. Jim Acheson, an anthropologist and a Sea Grant researcher at UMaine, knows that the state's success with lobster is not just an accident of nature.

Acheson is the author of a landmark study of the industry, *The Lobster Gangs of Maine*, published in 1988. Today, he conducts research on fisheries management with UMaine economists Jim Wilson and Ralph Townsend. All three are affiliated with UMaine's School of Marine Sciences.

Acheson and Wilson helped set up Maine's lobster management zones and, with Sea Grant funding, the three are now gathering lessons learned worldwide about fisheries managed cooperatively by government and fishermen.

"It's an exciting time," says Acheson. "Maine has one of the first co-management laws in the world." In 1995, the Maine legislature passed a law to establish locally elected lobster management councils with authority over three aspects of fishing: trap limits, number of traps on a single line and when fishing is allowed.

The term "co-management" refers to arrangements in which government agencies and resource users jointly establish and enforce the operating rules. In Maine, its roots extend back to the early part of the century.

In 1917, the Maine legislature passed the v-notch law at the request of fishermen. That law calls on Department of Marine Resources wardens and fishermen to v-notch tails of large egg-bearing lobsters, which are then considered brood stock. When fishermen catch such lobsters, they are required to release them.

For many years, the v-notch program was unique to Maine. Today, it extends to U.S. waters in the Gulf of Maine as far south as Cape Cod. Its expansion demonstrates the importance the lobster industry has placed on conservation. That commitment has also led to the new lobster management structure.

In an effort to consider how co-management might be applied to other natural resources, Acheson, Wilson and Townsend are studying successful co-management systems in Canada, Japan, Australia. Their goal is to identify the conditions under which people change their behavior to benefit the common good.

"All too often that is not the case," says Acheson. "One of the critical questions we have to ask in resource management is when, where, how and under what conditions you can get user groups to pass rules to constrain themselves for communal benefit. And when do you get the tragedy of the commons, when if you don't get the resource now, someone else is going to come along and take it in a couple of hours? It is not at all clear in the social science literature when, where and under what conditions people will pass effective rules."

The idea of co-management has been criticized by opponents who feel it gives too much authority to special interest groups, Acheson says.

In a paper accepted for publication, Acheson and graduate student Laura Taylor note that all seven Maine lobster councils have imposed trap limits on lobster fishers within their zones. Acheson and Taylor also cite Monhegan Island fishermen who have imposed severe limitations on themselves to protect the lobster population.

"They have long recognized that the island's waters contained a limited resource and that they would have to generate rules to conserve the resource if they wanted to continue to make a living," they write.

Despite these and other successes, the new lobster management councils must steer their way through rough water caused by serious conflicts. Some are deep seated, such as the different interests of full-time fishermen and part timers. Others stem from new policies, such as boundary lines adopted to separate one zone from another and the inherent difficulties in managing political activities in the zones.

Nevertheless, the industry as a whole adopted a strong conservation ethic after the end of the Second World War, Acheson notes, and has maintained it. Before the war, annual harvests lagged around 5 million to 6 million pounds. After the war, they grew steadily to more than 40 million pounds in the last decade.

Several factors contribute to this success and make co-management for lobsters effective. They include:

- ▼ The local nature of the industry, in which families cooperate harbor by harbor and defend their territories. A mixture of tradition and government regulation has created a management system supported by local people.

- ▼ Rules that are in accord with the industry's view of how the ocean works.

- ▼ Rules that can be effectively enforced.

Industry Makes New Microelectronics Lab Possible

In electronics and computer manufacturing, engineers must translate circuit designs into clear instructions for each step in the production process. Recent large donations of state-of-the-art equipment from several Maine businesses will enable students in the Department of Electrical and Computer Engineering to develop those skills, which are in high demand by industry.

The industry-supported effort to equip the new Barrows Hall microelectronics laboratory is part of a broader initiative to improve the skills of graduate engineers for the state's growing electronics sector.

David Kotecki, associate professor in ECE, is coordinating the laboratory effort in cooperation with Quadric Systems of South Portland and Sun Microsystems of Palo Alto, Calif. Quadric has donated five Sun Microsystem monitors and five Sun II workstations. Sun is providing workstation upgrades through a matching grant program.

"Industry has told us that our graduates are very strong in theory and circuit design," says Kotecki, who did research in microelectronics at IBM for 11 years prior to coming to UMaine last year. "This new lab will give our students access to the design software that is used by industry and allow them to lay out their work directly on silicon, further enhancing the microelectronics program at UMaine."

The facility also will be used to initiate new research efforts in semiconductor process and device modeling, especially in the area of solid-state gas sensors.

The new lab on the second floor of Barrows Hall, could be in operation as early as March. Andrew Sheaff, the Department's network specialist, and two undergraduate technicians, Marcus Soule and Mike Lewark, will assemble the components.

The lab will enable the Department to offer a new course in "very large systems integration" next fall. In this course, students will learn techniques for designing systems containing large numbers (hundreds of thousands to millions) of components.

The lab will also be used to enhance existing courses in electronic circuit design and solid-state devices.



Jane Smith

Photo by Monty Rand

New Curriculum, Pedagogy in French Bring Life to Language Learning

Parlez-vous français?

At the University of Maine, that question is taking on new meaning for the more than 160 students annually studying French to fulfill a language requirement or earn a minor.

Beginning next fall, the first two years of the French curriculum will be divided into 16 two-and-a-half-week modules of intensive instruction rather than four semesters of coursework. The new model is designed to improve student placement according to French proficiency, engage students in daily language immersion to improve comprehension and appreciation, and make the learning environment more dynamic for students and faculty.

"The traditional program is too oriented to preparing language majors, and the bulk of our students are majors in other colleges," says Ray Pelletier, associate professor of French, who developed the new curriculum and is team-teaching with Assistant Professor of French Jane Smith. "Revising the French program better reflects the current needs of students fulfilling course requirements or minors.

"Pedagogically speaking, this model is more effective," he says. "In traditional language classes, the student is trying to learn all four skills – speaking, reading, writing and listening – all at the same time. In the modules, we can focus on a certain skill, not to the exclusion of others but in order to make substantial progress."

Under the new model, students meet in 50-minute classes Monday-Friday, and have homework every night. There is a week break between modules.

"Meeting daily, students are more engaged in the learning process, Pelletier says. "Language learning on a day-to-day basis is more natural. A part of language learning is habit formation. We also know language improvement comes from quality time on task. This is why we insist that we have a momentum of quality experiences on a sustained basis."

In addition to classroom instruction, one class each week is spent in the Department's new computer classroom, where students can access the Internet, and custom audio and video exercises to reinforce vocabulary and comprehension skills. The exercises were developed by Smith and Pelletier, and graduate teaching assistants Jenifer Branton-Desris and Véronique Martin.

Tapping into the technology, students have exchanged e-mail with a family in France, and tapped French search engines for

information. Closer to home, an amateur video of a UMaine student's dorm room, or a trip to the local post office or movie theater becomes a French lesson to which students relate. There is no textbook.

The modules are geared to comprehension – speaking, listening, reading and writing the language. While traditional French curriculum focuses on oral skills, driven by grammar, with "a dose of reading and writing," UMaine's new two-year French program takes a comprehensive approach to understanding, interaction and use, says Smith. Modules in the second year also can focus on topic areas, such as French in business and journalism.

"Students learn what language is and what it means to know a language," says Smith, coordinator of the first- and second-year programs. "We're trying to bring the information to life. For instance, in the first module, instead of a standard list of vocabulary words that may or may not be of interest to students, we ask them to make a list in English of 10 activities they like to do and pull from them those words they could say in French with the 'er' verb. While there are some basics we incorporate, the words students are learning are relevant and largely coming from them. It is part of personalizing the coursework."

The modules also will help meet requests from people in the community, including business people, who want to brush up on certain language skills. In addition, the short modules allow more faculty with expertise in French-related areas to teach. While a full-time faculty member in another discipline may not be able to teach a full-semester French topics course, he or she may consider a 14-day module.

Students will leave the two-year program with demonstrated intermediate-level proficiency in oral and written skills in French. The hope is that students with positive experiences learning French in this two-year program will go beyond intermediate proficiency, Smith says. With more non-majors joining majors in 300- and 400-level courses, more classes can be offered in such areas as French film, literature and linguistics.

UMaine has an average of 200 students annually studying French. Of them, 13 are French majors and 16 minors.

"French enrollments have been diving nationally," says Smith. "The misperception continues that Spanish is easier than French. There are four Spanish speakers for every French speaker, yet there are 43 countries where French is spoken as the first or second language."

continued on page 13

Dorothy Klimis-Zacas, associate professor of clinical nutrition, Department of Food Science and Human Nutrition; and colleagues Babis Gnardelis, biostatistician at the National School of Public Health, and Antonia Trichopoulou, associate professor of preventive medicine and director of the WHO Centre in Greece: "Gender Differences in Blood

Lipids in a Greek Island Population: The EPIK Study," *Nutrition Research*, 20(1):35-45 (2000).

John Moring, professor of zoology, Department of Biological Sciences: a book review of *Buffalo Bill: Myth and Royalty* (Eric Sorg, Ancient City Press 1998) in *Journal of the West*, 39(1):109.

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

Marc Baranowski, associate professor of human development, and **Gary Schilmoeller**, associate professor of child development and family relations: "Grandparents in the Lives of Grandchildren with Disabilities: Mothers' Perceptions," *Education and Treatment of Children*, 22(4):427-46 (1999).

Book Ends

New & Noteworthy at the University Bookstore

Uncle Petros & Goldbach's Conjecture (a novel of mathematical obsession), **Apostolos Doxiadis**, **Bloomsbury (2000)**. Petros Papachristos devotes his life to proving one of the greatest mathematical challenges of all time, Goldbach's Conjecture. Petros works furiously to prove the notoriously difficult conjecture, travelling through a host of countries, encountering a host of famous historical figures. Then suddenly, for no apparent reason, he disappears into the Greek countryside. To his nephew, he is known as the solitary, eccentric Uncle Petros. But when the young man finds out that his uncle is an esteemed professor of mathematics, he searches out his uncle's hidden past. Through an adversarial friendship based on chess and mathematics, he drives the retired mathematician back into the hunt to prove Goldbach's Conjecture. *Uncle Petros & Goldbach's Conjecture* is an intellectual adventure, a story of proud genius and the exhilaration of pure mathematics. It is about the search for truth at all costs – and the heavy price of finding it.

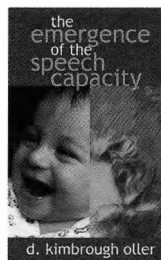
Word Court: Wherein verbal virtue is rewarded, crimes against the language are punished, and poetic justice is done, **Barbara Wallraff**, **Harcourt Brace Javanovich (2000)**. One of the most popular features in *The Atlantic Monthly* is "Word Court," the delightful, and occasionally contentious column in which Barbara Wallraff settles disputes about words and the ways in which we use them. Now Wallraff moves beyond that forum to tackle common and uncommon problems relating to newly coined vocabulary, grammar, slang, jargon, misused words, clarity of phrasing, tone, punctuation, pronunciation, showing respect to others without surrendering to political correctness, and a good deal else besides. *Word Court* is a warmly humorous, reassuring, and brilliantly perceptive tour of the issues that fascinate and perplex lovers of the language today.

Scandal monger, **William Safire**, **Simon & Schuster (2000)**. The setting of this novel is the 18th century. The political figures whose intimate lives are about to be revealed by a young, ambitious journalist are Alexander Hamilton and Thomas Jefferson. The women he makes famous are the mysterious Maria Reynolds and the slave Sally Hemings. Author William Safire brings these real characters in our history to life as he recounts the dramatic clash of the Founders and the first journalists. For those who think that Washington sex scandals and lurid journalism are recent developments, this novel will be a revelation. In *Scandal monger*, Safire shows vividly how media intrusiveness into private lives, and politicians' cool manipulation of the press are as old as the Constitution.

Leap Year Specials: Feb. 29 only, 29 percent off all coffee mugs. In addition, buy one General Book and get 29 percent off the price of a second book (of equal or lesser value).

V O L U M E S

Recent Works by University of Maine Authors



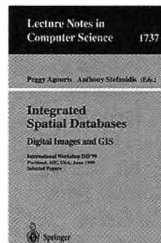
The Emergence of the Speech Capacity
by **D. Kimbrough Oller**
(Lawrence Erlbaum Associates Inc. 2000)

Recent studies of vocal development in infants have shed new light on old questions of how the speech capacity is founded and how it may have evolved in humans. Vocalizations in the first months of life appear to provide previously unrecognized clues to the earliest steps in the process by which language came to exist and the

processes by which communicative disorders arise.

Perhaps the most interesting sounds made by infants are the uniquely human "protophones" (loosely, "babbling") – the precursors to speech. Kim Oller, chair of the Department of Communication Sciences and Disorders, argues that these are most profitably interpreted in the context of a new infrastructural model of speech. The model details the manner in which well-formed speech units are constructed, and it reveals how infant vocalizations mature through the first months of life by increasingly adhering to the rules of well-formed speech.

In his book, *The Emergence of the Speech Capacity*, Oller challenges psychologists, linguists, speech pathologists and primatologists to rethink the ways they categorize and describe communication. The infraphonological model permits reconceptualizations of the ways infant vocalizations progress systematically toward speech, comparisons between speech and the vocal systems of other species, and speculations about the origins of language.



Integrated Spatial Databases: Digital Images and GIS
Edited by **Peggy Agouris** and **Anthony Stefanidis**
(Springer-Verlag 1999)

Integrated Spatial Databases contains selected papers from those presented at the international workshop by the same name, held in Portland last June. The workshop focused on the integration of digital images and GIS, and the many research issues related to this challenge.

The need for this integration is dictated by modern decision-making processes, which are becoming increasingly aware of the spatial nature of data, and by the expanding demand for up-to-date, easily accessible spatial information for everyone. Among the issues that need to be addressed: the necessity of ensuring the spatial and temporal validity of spatial databases, of improving and expanding geospatial analysis capabilities, and of addressing the integration of huge volumes of multiple versions and types of spatial information.

Eighteen papers are included in this volume, edited by Peggy Agouris, assistant professor of spatial information science and engineering, and Anthony Stefanidis, research assistant professor with the National Center for Geographic Information and Analysis. One of the papers, "Automated Extraction of Linear Features from Aerial Imagery Using Kohonen Learning and GIS Data" was written by Pete Doucette, Agouris, Mohamad Musavi and Stefanidis.

The volume is part of Springer-Verlag's Lecture Notes in Computer Science series, which reports new developments in computer science research and teaching.

Steve Sader, professor of forest resources, presented two invited papers at the Nuevas Perspectivas De Desarrollo Sostenible en Peten: Encuentro Internacional De Investigadores, sponsored by the Facultad Latinoamericana De Ciencias Sociales (FLACSO). The first paper (with co-authors Daniel Irwin of NASA-Marshall Space Flight Center; Edgar Bernaldes, Conservation International-ProPeten, Guatemala; and Hector Tuy, CONAP, Guatemala), "Estimados de cambios del bosque en la Reserva Biosfera Maya Desde 1997-1999," was presented in Spanish. The second paper (with Carlos Soza, CI-ProPeten, and **Dan Hayes**, research associate, UMaine Department of Forest Management), "The Utility of Landsat-TM Satellite Imagery for Level 1 Forest Monitoring of the Maya Biosphere Reserve," was simultaneously translated to Spanish. The conference was held in Flores, Guatemala, Dec. 24.

Kate Beard, associate professor and chair in Spatial Information Science and Engineering and researcher with the National Center for Geographic Information and Analysis, **Harlan Onsrud**, professor in Spatial Information Science and Engineering and researcher with the National Center for Geographic Information and Analysis, and **Max Egenhofer**, director of the National Center for Geographic Information and Analysis, College of Engineering's Libra Professor, professor in Spatial Information Science and Engineering, and cooperating professor in Computer Science, attended the Winter Meeting of the University Consortium for Geographic Information Science (UCGIS), Washington, D.C., Feb. 6-8. Onsrud was the co-organizer of the consortium's Congressional activities, and Egenhofer presented the paper, "Spatial Similarity Retrieval," at the UCGIS's Showcase of Geographic Information Science Research Projects.

Professor **Dennis Cox**, Music, was the guest choral conductor for the West Virginia AllState High School Chamber Choir. The music festival was held in Charleston, Jan. 27-29. In addition, Cox was the guest choral conductor for the Kennebec Valley High School Festival Music Festival at Mountain Valley High School in Rumford, Feb. 4-5.

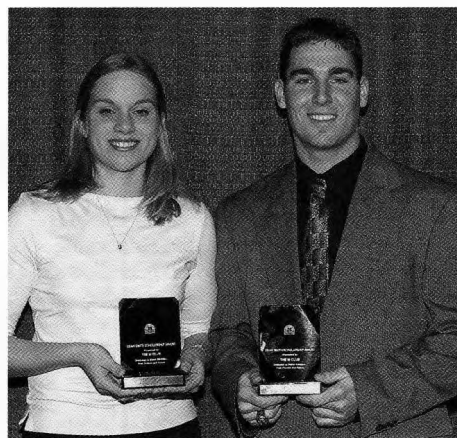
Lyombe Eko, assistant professor of journalism and mass communication, won a First Place Award in the International Division of the Broadcast Education Association (BEA) 2000 Paper Competition. Eko's paper, "Many Spiders, One World Wide Web: Towards a More Democratic, Culture-Friendly, Internet Regulation Regime," examines Internet governance from an international perspective. Eko says that in order to create an enabling environment that will make the Internet a truly global information, cultural and commercial platform, it should be regulated at the international, regional, national and local community levels. BEA is the largest scholarly/professional broadcast organization in the world. Eko's award, which comes with a cash prize, will be presented during the 45th Annual Convention of the Broadcast Association, Las Vegas, April 7-10.

Literacy Professors **Rosemary Bamford** and **Janice Kristo**; Anna Lyon, Literacy Collaborative university trainer, gave a presentation, "Choosing Quality Nonfiction," at the National Reading Recovery Conference, Columbus, Ohio, Feb. 6.

Dorothy Breen, associate professor of counselor education, and doctorate students **Tamara Hunt** and **Maureen Anderson** presented at the Maine School Counselor Association annual conference, Feb. 3-4 in Rockport. Breen's presentation was, "Rural Counselors, You Are Community Leaders: Tell Your Stories." Hunt presented "Etiology of Eating Disorders"; and Anderson's topic was "From Risk to Resiliency: Fostering an Environment of Resiliency in Our School."

At the Annual Meeting of the Northeast Region of the American Society for Horticultural Science in Baltimore, Jan. 4-6, **John Smagula**, professor of horticulture, presented a paper, "Correcting Lowbush Blueberry Boron Deficiency with Soil or Foliar Application." The paper was co-authored by **W. Litten**, faculty associate, Horticulture Program, and **S. Dunham**, former crop technician. "Performance Evaluation of Fine Fescue Turfgrass Cultivars in Maine" was presented by **Alan Langille**, professor of agronomy, and co-authored by **A. Pennucci**, faculty associate, Horticulture Program, Department of Biosystems Science and Engineering. Langille, who served as president-elect in 1999, will serve as president of this regional organization in 2000.

SCHOLAR-ATHLETES HONORED



Feb. 12, 132 UMaine student-athletes were honored at UMaine's 11th annual Scholar-Athlete Recognition Awards ceremony. Awards are given to student-athletes who have earned a 3.0 or better grade point average for the last two semesters and/or have maintained a 3.0 cumulative grade point

average. This year had the largest number of honorees in the history of the program. Also that day, Dean Smith Awards were presented to UMaine's top male and female scholar-athletes for this season – Danielle Burke of Canaan, a mass communication senior and member of the Field Hockey team, and a four-time member of the America East Academic Honor Roll who compiled a 1.62 GAA and a .857 save percentage, both tops in America East last fall; and Jim Leger of Saugus, Mass., a senior in business and an assistant captain of the Men's Ice Hockey team who was recently named one of five finalists for the Humanitarian Award presented to the top citizen in college hockey. In addition, team awards for highest grade point average were given to Women's Basketball and Men's Golf. The scholar-athletes also were recognized for their achievements at half-time of the Women's Basketball game that day.

Photo by Monty Rand

Media Spotlight

Milardo in USA Today

For the second time in less than a week, Robert Milardo, professor of human development and editor of the *Journal of Marriage and the Family*, has been featured in a *USA Today* story reporting research from the national journal. The Feb. 7 edition of the newspaper features research from Iowa State on the impact of divorce on children, which appeared in the November 1999 journal. The story includes a sidebar focusing on Milardo's suggestions of ways parents can ease the long-term effects of divorce on children. A *USA Today* story Feb. 3 focused on research concerning late-night work hours and marital instability. The research from the University of Maryland, published in the most recent edition of the *Journal of Marriage and the Family*, links the growing 24-hour economy and increased number of "split-shift" parents with increased risk of divorce. The newspaper story contained comments from Milardo. Also interviewing Milardo about the two research articles was *Time* magazine. The story about the connection between nonstandard work schedules and marital instability also earned a spot on NBC Evening News.

Wells in Chronicle of Higher Education

Research by Mark Wells of the oceanography faculty is featured in a Feb. 11 story in the *Chronicle of Higher Education*. Wells studies colloids, tiny particles that drift deep in the ocean. Scientists believe that a better understanding of colloids can add to what is known about global warming.

Vayda Tapped by National Public Radio

Michael Vayda of the biochemistry faculty was interviewed earlier this month by National Public Radio for a story about genetically modified crops.

Hale in Business Week

Richard Hale, associate professor emeritus of wood technology, had a letter to the editor published in the Jan. 31 issue of *Business Week*. Hale wrote in response to a Dec. 27 Viewpoint piece, "How the Web is revolutionizing learning." Hale argued that "a good college education is obtained by being physically part of a college community, interacting face to face with instructors and fellow students in and out of class, working in study groups, doing hands-on laboratory exercises, and being exposed to many fields outside of your own major."

Language Learning *continued from page 10*

The key to enhancing the learning experience for students begins with advising, says Pelletier. "Advising is important not only in seeing students get the classes they need most but in personalizing the language study process. I see it as making language learning more relevant. Through intensive advising, we want to maximize the relevancy of language to a person's experience. As a result, we will lose fewer students in French."

Language placement exams are not always reflective of students' abilities, says Pelletier.

"If a student doesn't get credit for any previous studies in French and has to start over, chances are he or she will start over in another language," he says.

By dividing the first two years into modules, there is greater accuracy in placing students according to their abilities. Students save money with more accurate placements and progress faster in their learning.

"We are giving the students the keys for more independent learning," says Pelletier. "This is learning that is student-centered, not book-centered." ▲

Emeriti Activities

Richard Campana of Orono, professor emeritus of botany and plant pathology, and forest resources, joined the faculty in 1958. The year he retired, 1985, Campana was elected a fellow in the American Phytopathology Society. In 1992, he received a Distinguished Achievement Award for research at the International Conference on Dutch Elm Disease, Michigan State University. The American Society of Consulting Arborists presented him the 1993 Teaching and Mentor Award in Plant Pathology. Campana was elected into the University of Idaho Alumni Hall of Fame in 1998. Campana's research focuses on forest and urban tree pathology, particularly on Dutch elm disease and air pollution damage to trees. In addition to consulting, Campana has written a history of arboriculture in North America and is writing a history of botany at the University of Maine.

Jerry Nadelhaft, professor emeritus of history, taught at UMaine from 1967-97. He divides his time between homes in Bangor and Manhattan. Nadelhaft's academic areas of interest continue to be the American Revolution and 19th-century women's history. He edits a series for Garland Publishing on American Popular History and Culture. Nadelhaft also is researching and writing a book on wife abuse in 19th-Century America. His review of the popular PBS series on the American Revolution, and a refereed manuscript, were published in *The William and Mary Quarterly*. In addition, a review of a book on South Carolina was published in *The American Historical Review*.

MARK YOUR CALENDAR!

Diversity Education: Race and Ethnicity

A statewide conference for the public and private sectors

Thursday and Friday, April 6-7, 2000 • Orono, Maine

Presented by The University of Maine

Watch for more information about this important opportunity exploring the status, issues and transitional challenges of diversity in Maine.

Workshop strands:

K-12 Education

Post-Secondary Education

Community/Workplace

Continuing Education Units available

For more information

(207) 581-4092

www.ume.maine.edu/ced-conf/diversity.html

DIVERSITY
EDUCATION

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MAINE

Alternative Break *continued from page 2*

▼ Save Our Sons and Daughters (SOSAD) of Detroit, dedicated to creating positive alternatives to violence through training in violence prevention, crisis intervention, peace education, and peer and bereavement support.

▼ Rosemont Center in Columbus, Ohio, providing mental health, social and educational services to young people and their families experiencing difficulty.

▼ The New River Safe Housing in Beards Fork, W. Va., working to improve housing conditions for low-income families in coal camp communities.

▼ Victory Over Crime, a program in Nashville designed to offer support for seniors who have been victimized by crime.

The four sites were selected by the student leadership of UMaine's LETS (Learning and Exploration Through Service) Volunteer program for their potential to provide as much community interaction and direct service as possible. The sites selected for UMaine volunteers this year are four of many sites listed by Break Away, a national non-profit organization based in Washington, D.C. Break Away's mission is to promote service on the local, regional, national and international levels through break-oriented programs that immerse students in often vastly different cultures, heighten social awareness and advocate life-long social action.

LETS Volunteer became a Break Away chapter in 1998 under the direction of Martha Eastman, director for Community Development and Outreach Programs. For the past two years, UMaine students participating in Alternative Spring Break have worked in South Carolina, repairing and renovating deteriorated or damaged houses in underprivileged rural neighborhoods. Last year, a second group of students went to Detroit to be volunteers with inner city youngsters through SOSAD, the organization formed by parents who lost children to violence.

"We learned a lot from the previous two years," says Eastman, who will be the staff member traveling to Columbus with 10 students. "We are building the leadership of UMaine's chapter and students are assuming more of the responsibility for the trip planning and for the peer training needed."

Student interest in Alternative Spring Break continues to grow. The first year, 18 students participated; last year, 27 students spent their spring break as volunteers. This year, of the 35 students taking part, at least five are returning volunteers. Participation by UMaine faculty and staff is welcome.

Student site leaders this year are Stephanie Zehler of Wiscasset, a sophomore double-majoring in civil engineering and German, who will be in West Virginia; Marie Douglass, a second-year student who will lead the volunteers in Nashville; co-leaders in Columbus will be Sheila Sweeney, a fourth-year pre-vet student from Scotia, N.Y., and Jennifer Nelson of South Portland, a senior public management major; and Brandon Lemire of Eliot, a first-year student majoring in spatial information science and engineering, who will be in Detroit.

Fund raising for the Alternative Break trips continues. To date, the students have raised \$4,700 of their \$8,000 goal. The students have several upcoming fund-raising events planned, including a bottle drive. They continue to sell handmade pottery mugs and are asking for donations for their "Adopt-A-Spring Breaker" program. They will send postcards from the sites to those who give them donations. ▲

Directory Changes

C. Wayne Honeycutt, Research Leader, New England Plant, Soil and Water Lab, 581-3363. honeycutt@maine.edu

Positions Available

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

Network Specialist I, Department of Information Technologies (IT). Full-time, fiscal-year position. Qualifications: Bachelor's degree in related field preferred; strong understanding of DOS, Windows and Macintosh operating systems; strong understanding of UNIX preferred; solid knowledge of network operating systems including Novell, Appleshare and NT; solid knowledge of TCP/IP and LAN technology, with ATM experience preferred; excellent troubleshooting, communications, and problem solving skills; able to lift 30 pounds frequently and 50 pounds occasionally. Will be required to undergo a pre-employment physical. Position requires individual to be on-call by pager, per IT's on-call policy and frequent on-campus travel which normally requires a driver's license. Salary Range: \$26,000-\$30,000. Review of Applications: Will begin 2/28/00 and continue until the position is filled. Contact: Send cover letter, resume and three letters of reference to: Leslie Shaw, University of Maine, Information Technologies, 5752 Neville Hall, Orono, ME 04469-5752.

Assistant Professor (Piano Accompanying/Music History), School of Performing Arts. Tenure-track position. Qualifications: Master's degree required; Doctorate preferred. College-level teaching experience and demonstrated ability as a teacher/performer. Review of Applications: Will begin 2/21/00. Contact: Send letter of application, vita, three current letters of recommendation, and a current audio cassette tape (no videos or CD's) to Professor Dennis Cox, Chairperson, Piano Accompanying/Music History Search Committee, University of Maine, 5788 Class of 1944 Hall, Orono, ME 04469-5788.

Assistant Professor (Trumpet/Theory), School of Performing Arts. Tenure-track position. Qualifications: Master's degree required; Doctorate preferred. College level teaching experience and demonstrated ability as a teacher/performer. Review of Applications: Will begin 2/21/00. Contact: Send letter of application, vita, three current letters of recommendation, and a current audio cassette tape (no videos or CD's) to Professor Curvin Farnham, Chairperson, Trumpet/Theory Search Committee, University of Maine, 5788 Class of 1944 Hall, Orono, ME 04469-5788.

Director of the Hutchinson Center, The University of Maine. Position based in Belfast, Maine, which is located one hour south of the University of Maine campus in Orono. Qualifications: Master's degree required; doctorate preferred. Significant experience in higher education with demonstrated successes in the following areas – program development, program marketing, budgeting and financial management, public relations, faculty relations, staff management, and organizational leadership. Candidate must be creative, innovative, and collaborative; comfortable working in an organizational characterized by change and rapid response to changing client needs and academic priorities; able to handle many demands with speed and insight; able to communicate organizational goals and motivate the highest levels of performance within the unit; maintain the highest standards of professional ethics throughout the unit; work openly and honestly with colleagues at all levels for the Division's and University's enhancement; enjoy working with people and must build relationships easily. Good sense of humor and up-beat worldview are crucial. Review of Applications: Will begin 3/15/00 and continue until position is filled. Contact: Send completed application, including (1) current curriculum vitae, (2) letter of application addressing professional experience and characteristics applicable to the position and (3) names and telephone numbers of four references, and nominations to: Hutchinson Director Search Chair, Rebecca Eilers, Dean, College of Liberal Arts and Sciences, University of Maine, 5774 Stevens Hall, Orono, ME 04469-5774.

Psychologist, The University of Maine Counseling Center. Ten and one-half month, full-time, ongoing position. Qualifications: Doctorate in counseling or clinical psychology or be within one year of completing the doctorate, preferably from an APA accredited program; completed a one-year internship or equivalent experience in a college counseling center; licensed or license eligible in the state of Maine as a psychologist (licensure is expected within two years of start of employment or within two years of completion of doctorate); demonstrated ethical professional functioning; substantial experience and demonstrated skills in group psychotherapy, individual and couples therapy, crisis intervention, supervision, and consultation; demonstrated skills and sensitivity to women and cultural diversity. Particularly interested in candidates who have expertise and

energy to enhance Counseling Center's services in two or more of the following areas: group psychotherapy, prevention and educational programming, consultation, community development; college student development, computer usage and Web page design, or grant writing. Salary Range: \$31,000-\$34,000, depending on experience. Review of Applications: Will begin 3/15/00. Contact: Send letter of application, vita and three current letters of recommendation to: Wanda Cunningham, Administrative Assistant, University of Maine Counseling Center, 5721 Cutler Health Center, Orono, ME 04469-5721. For full job description call or email Wanda Cunningham at (207) 581-1392 or Wanda_Cunningham@umit.maine.edu. For more information about the Center, see Website: www.umaine.edu/counseling/

Associate Dean (INTERNAL SEARCH), College of Liberal Arts and Sciences. Fiscal-year position beginning July 1. Qualifications: Tenured faculty member of the College of Liberal Arts and Sciences, with an outstanding record of commitment to students and their concerns, and to the advancement of excellence in the academic programs of the College and the University. Review of Applications: Will begin 2/29/00. Contact: Send written statement of interest, current curriculum vitae, and other pertinent materials to: Rebecca Eilers, Dean, College of Arts and Sciences, 100 Stevens Hall. Send names of people you wish to nominate for the position with a brief rationale for your nomination.

Director of Human Resources, The University of Maine. Administrative position reporting to the Vice President for Finance and Administration and frequently advising the President and other senior administrators on a wide variety of personnel-related matters. Qualifications: Bachelor's degree required and a graduate degree strongly preferred. Substantial management experience in human resources, with experience in higher education strongly preferred; demonstrated experience within collective bargaining environment, including experience in mediation, grievance investigation and resolution and service on collective bargaining teams; knowledge of and experience with complex human resources information systems; demonstrated outstanding verbal and written communication skills; flexible problem-solving approach to leadership; and sensitivity and diplomacy to balance competing campus interests. Review of Applications: Will begin 4/1/00. Contact: Send cover letter summarizing interest in position, current resume, and names and contact information for five professional references to: Jean Piper, Chair, Human Resources Search Committee, The University of Maine, 5765 Service Building, Orono, ME 04469-5765.

Assistant to the Director of Purchasing Department, Purchasing Department. Part-time (24 hours per week) position. Qualifications: Ability to exercise independent judgement with sensitive and confidential matters and demands; effective communication skills (written and oral) with wide range of individuals; competence with word processing and spreadsheet software, WWW and University purchasing and accounting systems; ability to analyze complex information, situations, problems, policies and procedures to arrive at appropriate conclusions and solutions; strong organizational skills. Salary Range: \$18,000-\$21,000. Review of Applications: Will begin 3/6/00. Contact: Send cover letter, resume and references to: Jean Piper, Chair, Purchasing Search Committee, The University of Maine, 5765 Service Building, Orono, ME 04469-5765.

Technology Manager, Department of Industrial Cooperation. Full-time, fiscal-year position. Qualifications: Bachelor's degree and prior business or management experience, advanced degree in science, engineering, business or law preferred. Substantial experience in intellectual property management and marketing and business development, including work with start-up and spin-off companies; excellent verbal and written communication skills; effective organizational and interpersonal skills; experience with technical and proposal writing; frequent travel throughout the state and throughout the United States (normally requiring a driver's license). Direct experience with land-grant institutions preferred and knowledge of Maine-based or regional public and private, business and economic development agencies highly desirable. Salary Range: \$55,000-\$65,000, depending on education and experience. Review of Applications: Will begin 3/17/00. Contact: Send resume and names, telephone numbers, and addresses of three references to: Department of Industrial Cooperation, Room 430, 5717 Corbett Hall, Orono, ME 04469-5717.

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.

AUBG *continued from page 1*

stipulating that UMaine's active role in AUBG will be on the board of trustees as an ex-officio, voting member.

The board meets three times a year – twice in Bulgaria and once in the U.S. Boucias, UMaine President Peter Hoff's designee to the board, serves on two standing committees. Robert Woodbury, former chancellor of the University of Maine System, also serves on the board.

"We continue our affiliation with AUBG because we were so involved in the creation and success of the institution," says Boucias. "AUBG wants to be its own institution. That has always been the plan, and it has achieved that goal."

Classes began at AUBG nine years ago with 225 students, mostly from Bulgaria, and 16 faculty members – 13 from the U.S. and three from Bulgaria. This academic year, AUBG enrollment is 620 with students from 16 countries, taught by 60 faculty.

English is the language of instruction in the nine majors – economics, business administration, computer science, English, history, journalism/mass communication, political science/international relations, Southeast European studies and American studies. At least 140 students are double majors.

In May 1999, AUBG held its fifth graduation. It now has an alumni base of 700 graduates.

"Over the years, UMaine has been repeatedly recognized by many people outside the University community for its efforts in Bulgaria," says Boucias. "We should take pride in having helped create such an outstanding institution in a challenging part of the world, under challenging circumstances."

Initially, those challenging circumstances included less-than-ideal living conditions, with irregular electricity and water, problems with securing enough American textbooks for students, and hyperinflation in post-communist Bulgaria. Most recently, fighting in Kosovo, 80 miles from Bulgaria, has affected some AUBG students from the region.

"Bulgaria has come a long way," says Boucias of the past five years. "It is becoming more European."

Today, AUBG has the best computer facilities in the country, and the largest English-language library in the region with 90,000 volumes. Its student radio station was the first privately licensed FM facility in Bulgaria. Classrooms have Internet access.

Last May, AUBG was approved as a study abroad site by the College Consortium for International Studies, providing access to study there to students from 170 U.S.-member institutions.

"We created an American university based on a model – the University of Maine," says Boucias. "From the bookstore to student records and health services, from faculty and administration to curriculum, we lent our expertise to create an institution."

Through the years, UMaine provided AUBG with administra-

tive, professional and technical expertise to establish its infrastructure. Few faculty exchanges have occurred.

AUBG actively recruits visiting faculty for a semester or a full year. Its Balkan Scholars Program provides funds for travel and stipends. (Interested faculty should contact Karen Boucias, Office of International Programs, 581-2509.)

At UMaine this semester are 10 undergraduate and graduate students from Bulgaria, four of whom are from AUBG.

"In international education, there are almost no other examples of partnerships like this – close collaboration to create a new institution in another country," says Boucias. "We still get a number of calls from faculty and administrators in other parts of the U.S. asking about this experience because they are considering helping establish institutions in other countries."

The biggest hurdle facing AUBG today is ongoing funding, says Boucias.

"Bulgaria is a country without legislation for higher education as we know it. Grants helped construct a new residence hall in fall 1998, and now a new wing is being added. The institution has a blueprint for a full campus, and the rate of progress will depend on funding." ▲

The University of Maine System offers a low-cost dental hygiene clinic to the public, September-May. All dental hygiene services are provided, including oral exams, dental cleanings, fluoride treatments, sealants, athletic mouth guards and X-rays. Services are provided by dental hygiene students under the supervision of faculty. For more information, call University College of Bangor Dental Health Programs, 262-7872.

SURPLUS SALE: The University of Maine offers for sale, on an as-is, where-is basis, the following: (100) MICRO FRIDGES, small dorm units, with refrigerator, freezer and microwave, 10 years old (price undetermined at press time, probably \$25-\$75); (1) METAL CABINET, 11-drawer, will hold 3"x 5" cards or other items for storage, cabinet measures 50"W x 13"W x 28"D, \$20 (FREE to Depts); (1) FAX MACHINE, H.P. 900, plain paper, 6 years old, \$75; (1) SECRETARIAL WORKSTATION, corner unit, 3 work surfaces, two 2-drawer files, two 4-drawer files, 2 overhanging shelf units, \$750; (1) MAC COLOR LASERWRITER 12660PS, PC compatible, \$2,000; (1) TEKTRONICS PHASER 440 LASER PRINTER, 3 years old, excellent condition, \$7,500 new, \$2,000; (10) HEAVY DUTY FLUORESCENT LIGHTS, 277 volt, each light is two 4' sections, \$50 each, \$450 for all; (2) WELDED ALUMINUM FRAMES, 1/4" C-channel, 82"x 36"x 6.5", \$20, and 82"x 59"x 6.5", \$30. Off-campus inquiries are welcome. Items generally sell for the prices specified; however, lower offers are sometimes considered. For further information contact Ron Logan, Purchasing Department, 581-2692 or e-mail: Logan@Maine

GRADUATE STUDENT NEEDED AS COORDINATOR FOR THE SUPPORT FOR SCIENCE STUDENTS PROGRAM

Graduate Work Study student needed to oversee and conduct the activities of the S³ Program. Duties include: arranging tutoring/study groups, organizing seminars with faculty and students, arranging and publicizing program events, recruiting students to the program, recruiting student assistants and tutors, working with the S³ Faculty Advisory Board, and handling some administrative tasks for the program.

Computer and communication skills highly desirable. This is a 20-hour per week, academic-year position to begin Aug. 14. This Work Study position will pay a stipend of not less than \$7,236 for the academic year and will include a tuition waiver for up to nine credit hours per semester. Resumes should be submitted to David Batuski, Department of Physics and Astronomy, 313 Bennett Hall, by March 3.

PRESIDENTIAL PUBLIC SERVICE ACHIEVEMENT AWARD

Since 1982, in recognition of the mission of public service at the University of Maine, the President has annually presented the Presidential Public Service Achievement Award to an individual University of Maine faculty or professional staff member in a teaching, research and/or public service unit who has demonstrated distinguished achievement in public service.

Nominations are now being accepted for this award, and are to be submitted to the Office of the Provost no later than 4:40 p.m., Friday, March 17.

Nomination guidelines are available in all deans' offices or by contacting the Office of the Provost.

The award will be announced and presented at the Honors Convocation in May.

Questions or assistance in the preparation of the necessary documents required for nomination may be directed to Barbara Hikel, Office of the Provost, x1507.

National Defense University's National Security Education Program supports establishment or improvement of higher education programs in less commonly studied foreign languages, in area studies, and in other fields critical to understanding foreign cultures, strengthening U.S. economic competitiveness, and enhancing international cooperation and security. Preproposals are due April 10.

National Endowment for the Humanities makes Focus Grants of up to \$25,000 to support study groups, workshops or other projects in which a group of educators explores an important topic in the humanities and considers plans of action for their institution. Application process is simplified and review cycle expedited for these "next semester" grants. Deadline: April 15.

Centers of Disease Control and Prevention invite research on childhood agricultural safety and health. FY00 priorities focus on development of new or enhancement of existing control technologies to reduce injury, and on evaluation of the effectiveness of commonly used educational materials or training to increase safety and health behaviors. Deadline: April 19.

U.S. Department of Defense's Dual Use Science and Technology Program supports the creation and/or development of new products or process technologies that

have relevance and potential benefit to both military and commercial (non-defense) interests. Proposing teams must have at least one for-profit member and offer a 50:50 costshare. Preliminary white papers are encouraged; full proposals are due April 28.

U.S. Department of Agriculture's new Initiative for Future Agriculture and Food Systems will support integrated research, extension, and education in six areas: agricultural genomics; agricultural biotechnology; food safety, food technologies, and human nutrition; new uses for agricultural products; natural resource management; and farm efficiency and profitability. Funding preference is for large grants to multi-state, multi-institutional, multi-disciplinary projects. An RFP is expected by early March, with application deadlines near the end of April.

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

Campuswide Calendar

Send event schedules to the Master Calendar, Department of Public Affairs. The Web-based Master Calendar is located at www.calendar.ume.maine.edu

SNOW LINE AVAILABLE

Information about the University's class schedule during inclement weather is available by calling 581-SNOW or toll-free, 1-800-581-SNOW.

PRESIDENTIAL OUTSTANDING TEACHING AWARD

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

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

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

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

PRESIDENTIAL RESEARCH AND CREATIVE ACHIEVEMENT AWARD

2000 Presidential Research and Creative Achievement Award nominations are due Friday, March 10 in the Office of Research and Sponsored Programs, 424 Corbett Hall.

The award, in the amount of \$1,500, is made to a faculty member who has attained distinction in research or creative achievement. Each year, the Faculty Research Funds Committee makes nominations for the President's consideration, and the award is made at the Honors Convocation.

Nomination forms are available from Gayle Anderson in the Office of Research and Sponsored Programs, 424 Corbett Hall, x1498, and in the Offices of Deans, as well as on the Office of Research and Sponsored Programs Website: www.ume.maine.edu/~spd/index.html

19TH PROFESSIONAL EMPLOYEE ACHIEVEMENT AWARDS

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

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

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

Deadline for receipt of nominations is March 1.

What's Ahead



WOMEN IN THE CURRICULUM AND WOMEN'S STUDIES OPEN HOUSE & BOOK FAIR
March 2

MARDI GRAS WITH JOSÉE VACHON
March 7

"MOVING IMAGES: RECENT PRESERVATION HISTORIES"
March 9

SPRING BREAK BEGINS
March 10

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

