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All of the members of the University of North Dakota hockey team wore uniforms with the name "Walsh," in honor of UMaine hockey coach Shawn Walsh, during a game at Alford Arena on Oct. 13. The uniform shirts were donated after the game to the Coaches' Foundation, an organization created to provide assistance to college coaches, in all levels and in all sports, who face extraordinary expenses associated with serious illness. The uniforms will be auctioned or raffled at some future date to raise funds for the foundation. Coach Dean Blais of the defending national champion Fighting Sioux, who is a long-time friend of Walsh's, came up with the idea for the uniform tribute. Walsh recently returned from California where he completed a second 20-day cycle of immunotherapy treatments for kidney cancer. Pictured in the pre-game introductions are North Dakota players Derrick Byfluglien (6), Kevin Spiewak (16) and Jason Notermann (26). Photo by Monty Rand

Diversity Across the Curriculum Program dedicated to enhancing the learning environment

Supporting faculty in their efforts to increase the diverse voices of under-represented groups in courses and curricula is the focus of a new initiative on campus called Diversity Across the Curriculum (DAC).

Modeled after the successful Women in the Curriculum Program, now in its 21st year, DAC seeks to raise faculty members' awareness and knowledge about racial and ethnic diversity. In turn, faculty can help their students better understand diversity in their areas of study and the world around them. Courses can be transformed by having more issues of diversity systematically introduced into the curriculum in the appropriate context.

Diversity across the curriculum can be likened to developing coursework using a library containing 50 books instead of just one.

"Students can hear about Rosa Parks 20 times, but her story is but a piece of the larger story," says Maureen Smith, director of Diversity Across the Curriculum and the Native American Studies Program. "So where do we go from there? The key is in serious systematic change that permeates the entire institution."

In 1998, a committee of the provost developed a Diversity Action Plan. The action plan, required of every campus in the University of Maine System, outlined seven goals as a means of increasing and measuring diversity on campus. Areas of focus in the UMaine plan: faculty, staff and student recruitment and retention; University climate; and curriculum development and transformation. DAC is integral to implementing the curriculum transformation called for in the plan.

In this, its first year, DAC will offer faculty grants to fund the development of new courses or

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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.



Breaking ground at Hitchner



Among those taking part in the groundbreaking were, left to right, Sen. Mary Cathcart, President Peter Hoff, and Carol Kim, assistant professor of biochemistry, microbiology and molecular

A ground-breaking ceremony for the Hitchner Hall addition and renovation project was held Oct. 19.

UMaine President Peter Hoff and State Sen. Mary Cathcart were among the speakers at the event.

The \$11.8 million project, made possible by state and federal funding, will create new space for teaching and research in biotechnology, and in food

science and human nutrition. Plans call for 46,000 square feet of new construction, 16,000 square feet of renovated space.

Site preparation is this fall, with building construction in the spring. The project should be completed in fall 2002.

UMaine International Week celebrates cultural diversity

Cultural diversity in the University community will be celebrated with educational exhibits, lectures, music, food, demonstrations and films during International Week on campus, Oct. 30-Nov. 4.

The week is organized by the Office of International Programs, one of the University's leading units specializing in international education. The observance coincides with Canada Week, organized by the Canadian-American Center. Also featured are events by the Hudson Museum, Maine Center for the Arts, School of Performing Arts and the Penobscot Branch of the American Association of University Women (AAUW).

A complete International Week schedule is on the Web (www.ume.maine.edu/~international/Internationalweek2000.htm).

Among the week's highlights are a Study Abroad Fair Wednesday, Nov. 1, and a Friday, Nov. 3 discussion, "Bringing the World to the Classroom," featuring five faculty members.

The week's largest event is Culturefest 2000, featuring cultural exhibits, international foods, and talent and style shows. It will be Nov. 4 in the Field House. The annual celebration, sponsored by the International Student Association and the Office of International Programs, is an opportunity for UMaine international students to share their cultures. This year, at least 200 international students from some 30 countries are expected to participate. ▲

In international, national forums

Honors students present research on genetically modified foods

A paper written by five UMaine undergraduates on genetically modified foods received praise at an international biotechnology meeting in Italy this summer. This month, one of the authors, Dana O'Day-Senior of Parsonsfield, presented the paper as a poster at the National Collegiate Honors Council Conference in Washington D.C.

The students co-wrote the paper to provide an objective perspective on the controversial topic. In addition to O'Day-Senior, they are Bernice Cross of Greenbush, Rachel McNamee of Fort Fairfield, Rebecca Samuels of Arundel, and Calah Tenney of Ellsworth. Tenney and Samuels graduated last spring.

They are the first undergraduates ever to give presentations at the International Conference on Agricultural Biotechnology in Ravello, Italy. The paper was prepared for an honors class, From Silent Spring to the 21st Century: Pesticide Uses and Abuses, taught last fall by Randy Alford, professor of entomology.

The paper reviews issues related to the uses of genetically modified organisms (GMOs) and foods. It recommends that consumers be given objective information about the technology to promote understanding and to offer an alternative to "the emotionally charged opinions of either GMO proponents or GMO opponents."

At the conference, Cross and Tenney gave the presentation, and two academic experts, one from the U.S. and one from Germany, presented brief reactions to the students' efforts.

In the open forum portion of the conference, some of the 150 participants discussed the need for additional public education, but they did not reach consensus. Another presenter who studied the same topic as the UMaine students came to a different conclusion.

"Her review concluded that it's better to keep things quiet, that

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MAINE PERSPECTIVE PUBLISHING SCHEDULE

Publication dates and deadlines for fall issues of *Maine Perspective* are
Nov. 13 (deadline Nov. 1); Nov. 27 (deadline Nov. 15);
Dec. 11 (deadline Nov. 29).

MAINE Perspective

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MAINE Calendar

<http://calendar.umaine.edu>

NOVEMBER 3 – 18

3 Friday

"Every Student a Historian: Involving Students in the Practice of History," the annual Teaching History in Maine conference, offered by the Department of History, 8:30 a.m.-3 p.m., Nov. 3, Wells Conference Center. Registration. x1908.

Worksite Flu Clinic, for employees, spouses and dependents (18 and older) enrolled in the University of Maine System Health Plans, offered by Employee Health and Benefits Office, 8:30 a.m.-4 p.m., Nov. 3, 220 Corbett Hall. Appointments required. x2366.

FrontPage II, a Fogler Library Web and Desktop Publishing Workshop, 10 a.m.-noon, Nov. 3, Computer Classroom, Fogler Library. Admission Fee. Registration required. x1696.

"Marine Science or Just Nice Pictures: Capturing and Delivering Marine Education and Science with Underwater Video," by Lawrence Taylor, president, Biodiverse Canada Inc., part of the SMS Seminar Series, 11:15 a.m.-12:30 p.m., Nov. 3, 100 Bryand Global Sciences Center. x4381.

"Bringing the World to the Classroom," with Doug Allen, Sandy Caron, Susan Groce, Jay Hanes and Stuart Marrs, offered by the Office of International Programs, part of International Week, noon-1:30 p.m., Nov. 3, 202 Shibles Hall. x2905.

TGIF Music, offered by the Center for Students and Community Life, noon-1 p.m., Nov. 3, Bangor Lounge, Union. x1793.

Interactive CD: Alcohol 101, offered by the Peer Education Program, 1-3 p.m., Nov. 3, FFA Room, Union. x1793.

"Haloperoxidase Mimicry with Water Soluble Iron (III) Porphyrins: Kinetics and Mechanisms," by James Bourassa, Department of Chemistry, Princeton University, part of the Department of Chemistry Colloquium Series, 2 p.m., Nov. 3, 316 Aubert Hall. x1169.

"Environmental Gradients and Biological Responses on Differing Spatial Scales in Maine Peatlands," by Ron Davis, a Department of Biological Sciences Seminar, 3:10 p.m., Nov. 3, 102 Murray Hall.

Opening Reception for the Exhibit *Au Claire de la Lune*, paintings by Quebec Artist Benoit Simard, part of International Week, 3:30 p.m., Nov. 3, Maine Center for the Arts lobby. x4220.

Third Annual Folk Traditions Festival

The Maine Folklife Center's third annual Folk Traditions Festival will be Saturday, Nov. 4 at Jeff's Catering in Brewer (due to Union project construction). The festival begins with afternoon workshops in songmaking, Maine fiddle tunes and Irish dancing. A harvest supper will include folk music, followed by a performance by the group January Men (and then some). The evening concludes with a contra dance led by Old Grey Goose. Festival tickets are available by calling 581-1891.

Opening Reception for the Leon Golub Exhibit *While the Crime is Blazing: Paintings, Drawings & Prints 1994-1999*, featuring a 6 p.m. discussion of Leon Golub's work by Stuart Horodner, exhibition curator and director of Bucknell University Art Gallery, 5-7 p.m., Nov. 3, Carnegie Hall. x3255.

"Our Place in Space," a Jordan Planetarium show, 7 p.m., Nov. 3, Wingate Hall. Admission Fee. x1341.

Men's Basketball: UMaine vs. G.T. Express (exhibition), 7:30 p.m., Nov. 3, Alford Arena. Admission Fee. xBEAR.

Comedy Performance by Tiny Glover, offered by the Center for Students and Community Life, 9-11 p.m., Nov. 3, Wells Conference Center. x1793.

4 Saturday

Eco Challenge Adventure Race, a Maine Bound program, Nov. 4. Preregistration required. Admission Fee. x1794.

Maine Bound Youth Adventure Klub (YAK), a Maine Bound program, Nov. 4-18. Preregistration required. Admission Fee. x1794.

Culturefest 2000: A Celebration of Cultural Diversity, 10 a.m.-1:30 p.m. country/culture exhibits; 11 a.m.-1:30 p.m. children's activities; 11 a.m.-1:30 p.m. food vendors; 1:30-3 p.m. talent show; 3:15-4 p.m. style show, part of International Week, Nov. 4, Field House. x2905.

Fall Clean Up, a Landscape Horticultural Society fund raiser, 10 a.m.-2 p.m., Nov. 4. Clean Up appointments on a first-come, first-serve basis by calling x2938. Donations.

Swimming and Diving: UMaine vs. Vermont, 11 a.m., Nov. 4, Wallace Pool. xBEAR.

Volleyball: UMaine vs. Vermont, 1 p.m., Nov. 4, Gym. xBEAR.

Opening Reception for the Exhibit *Bangor to Bangor Original Print Exchange*, 1-3 p.m., Nov. 4, Bangor Public Library Lecture Hall. 990-2774.

Folk Traditions Festival Workshops: Songmaking, led by musicians Gordon Bok and Jeff McKeen; Maine Fiddle Tunes, led by members of Old Grey Goose; Beginning Irish Dance, led by the Bangor Dancers, all offered by the Maine Folklife Center, 3-5 p.m., Nov. 4, Jeff's Catering, Brewer. x1891.

Maine Band Directors Association Marching Band Finals, with 1,000 students from 13 high schools, 4-10:30 p.m., Nov. 4, Alford Stadium. Admission Fee. Tickets at gate or in advance. x1232.

Folk Traditions Festival, featuring catered buffet at 6 p.m.; music and storytelling by Joe Bennett, Jeff McKeen and Bonnie Quinn at 6:30 p.m.; performance by Gordon Bok at 8 p.m.; performance by the January Men (and then some) at 9 p.m.; Contra Dance with Old Grey Goose at 10 p.m., offered by the Maine Folklife Center, Nov. 4, Jeff's Catering, Brewer. x1891.

Women's Ice Hockey: UMaine vs. Boston College, 7 p.m., Nov. 4, Alford Arena. xBEAR.

The 2nd Annual Evening of Bluegrass, featuring: Northstar, Union River Band, Chairback Gap, Sweet Grass and Unpaid Bills., 7:30-9 p.m., Nov. 4, Hauck Auditorium. Admission Fee. Tickets at the door.

Performance by the Verlovka Ukrainian National Song and Dance Ensemble, part of the Maine Center for the Arts performance season, 8 p.m., Nov. 4, Hutchins Concert Hall. Admission Fee. x1755.

5 Sunday

Fall Clean Up, a Landscape Horticultural Society fund raiser, 10 a.m.-2 p.m., Nov. 5. Clean Up appointments on a first-come, first-serve basis by calling x2938. Donations.

Volleyball: UMaine vs. New Hampshire, 1 p.m., Nov. 5, Gym. xBEAR.

Women's Ice Hockey: UMaine vs. Dartmouth, 3 p.m., Nov. 5, Alford Arena. xBEAR.

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
<http://calendar.umaine.edu>
or call 581-3745.

Orchestra Concert, directed by Anatole Wleck, part of the School of Performing Arts season, 7:30 p.m., Nov. 5, Minsky Recital Hall. Admission Fee. x1755.

6 Monday

"Conservation Endocrinology: Integration of Basic & Applied Research of Ecological & Physiological Constraints on Survivorship," by Rebecca Holberton, part of the Department of Wildlife Ecology Seminar Series, noon, Nov. 6, 204 Nutting Hall. x2862.

Women's Basketball: Exhibition Game, 7:30 p.m., Nov. 6, Alford Arena. Admission Fee. xBEAR.

7 Tuesday

Basic Search and Rescue, a Maine Bound program, Nov. 7-Dec. 10. Preregistration required. Admission Fee. x1794.

Registration for Spring 2001 Begins, continuing through Nov. 16.

"Incorporate the Diversity of Human Experience into Your Curriculum," a presentation by Learning Circles 2001 and the Hudson Museum, 9-11:30 a.m., Nov. 7, Hudson Museum. x3472.

VALIC Employee Group Meeting, with Jane Brann, VALIC retirement planning specialist, 11 a.m.-2 p.m., Nov. 7, 220 Corbett Hall.

"Girl Fighting: Betrayal, Teasing and Rejection Among Girls," by Sharon Barker and Visiting AAUW Scholar Lyn Mikel Brown, part of the Women in the Curriculum Lunch Series, 12:15-1:30 p.m., Nov. 7, Bangor Lounge, Union. x1228.

Video: From Here to Infinity, a Jordan Planetarium Even-Odd Tuesdays program, 1 p.m., Nov. 7, Wingate Hall. x1341/x1348.

Introduction to PageMaker, a Fogler Library Web and Desktop Publishing Workshop, 2-4 p.m., Nov. 7, Computer Classroom, Fogler Library. Admission Fee. Registration required. x1696.

Coffeehouse with Andy Hicks, offered by the Center for Students and Community Life, 8 p.m., Nov. 7, Hilltop Commons. x1793.

8 Wednesday

Soup Talk, offered by the ALANA Center, 11 a.m.-1 p.m., Nov. 8, Hannibal Hamlin Hall. x1793.

Introduction to Access, an Information Technologies workshop, 2:10-4 p.m., Nov. 8, 215 Little Hall. Admission Fee. Registration required. x1638.

An Afternoon of Stories and Conversation with Maine Author Sanford Phippen, offered by Fogler Library Friends, 3 p.m., Nov. 8, Special Collections, Fogler Library. x1666.

"Prosodic Resolution of Syntactic Ambiguities in Subjects with Left and Right Hemisphere Damage," by Judy Walker, a Department of Communication Sciences and Disorders Colloquium, 5:15-6:30 p.m., Nov. 8, 100 Neville Hall. x2006.

Powwow Highway, part of the Cinematique Independent Film Series, 7-9 p.m., Nov. 8, Devino Auditorium, Corbett Business Building. x1793.

9 Thursday

"Conflict Resolution for Supervisors," with Joan Marks of the Maine Dispute Resolution Center, Bangor, and Polly Karris, an EAP Workshop, 9 a.m.-noon, Nov. 9, Mahogany Room, Wells Conference Center. Registration required. x4014.

"Got Math for Wild Blueberries?" by David Yarborough, part of the Got Math? Seminar Series, 12:30 p.m., Nov. 9, 119 Barrows Hall. x3901.

Ongoing Events

Exhibits/Demonstrations/Tours

Au Claire de la Lune, exhibit of paintings by Quebec Artist Benoit Simard, Nov. 3-Dec. 15, Maine Center for the Arts lobby. x4220.

While the Crime is Blazing: Paintings, Drawings and Prints, 1994-1999, works by Leon Golub, a University of Maine Museum of Art exhibit, Nov. 3-Dec. 16, Carnegie Hall. x3255.

Bangor to Bangor Original Print Exchange, an exchange exhibition of 53 contemporary original prints by 53 artists from Bangor, Northern Ireland, and Bangor, Maine, including works by UMaine faculty and students, Nov. 4-30, Bangor Public Library Lecture Hall. 990-2774.

Ustamdan Orendim, "I Learned From My Master"; Traditional Turkish Occupations, a Hudson Museum exhibit of photographs and objects, through June 3, Maine Center for the Arts. x1901.

Meetings of Groups/Organizations

Food for Thought Series, the first Wednesday of each month, noon-1 p.m., FFA Room, Union. x1392.

Foreign Language Tables, Monday - French; Tuesday - Russian; Wednesday - German; Thursday - Spanish; Friday - Irish, 207 Little Hall. x2073.

Gay/Lesbian/Bisexual/Transgender/Questioning Discussion Group, meets every Monday, 6 p.m., Old Town Room, Union. x1793.

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

Maine Peace Action Committee (MPAC), meets every Monday, 3:30-5 p.m., Maples Building.

Muslim Prayer, noon-2 p.m., every Friday, Drummond Chapel, Union. 581-1793.

Orono Farmers' Market, 8 a.m.-1 p.m., every Saturday (through Nov. 18); 2-5:30 p.m., every Tuesday (through Oct. 31); Steam Plant Parking Lot. 827-2225.

Relaxation and Meditation Practice, for employees, 4:45 p.m., every Monday, two sessions (through Nov. 6 and Nov. 13-Dec. 18), offered by EAP, Employee Assistance Program Office, 126 College Ave. Register by calling x4014.

Relaxation and Meditation Series, for students, 4-5 p.m. every Tuesday, Drummond Chapel, Union. x1392.

Yoga, led by Barbara Lyons, Hatha Yoga instructor, noon-1 p.m., every Friday, Nov. 3-Dec. 15, offered by EAP, Dexter Lounge, Alford Arena. Register by calling x4014.

"NAFTA, Militarization and Human Rights: A Report from Chiapas, Mexico," by Manuel Hernandez Aguilar, Maya campesino and human rights promoter from Chiapas, part of the Socialist and Marxist Studies Luncheon Series, 12:30-1:45 p.m., Nov. 9, Bangor Lounge, Union. x3860.

Faculty Technology Fair, a showcase of the 2000 Faculty Stipend projects, 3:30-5 p.m., Nov. 9, Soderberg Center, Jenness Hall. Registration required. x1638 or <http://ume.maine.edu/tech/signup.html>

End of Second Third of Semester for Withdrawals, 4:30 p.m., Nov. 9.

Performance by the Jazz Ensemble, directed by Karel Lidral, part of the School of Performing Arts season, 7:30 p.m., Nov. 9, Minsky Recital Hall. Admission Fee. x1755.

10 Friday

"Coping with Stress: Lessons from the Caribbean," by Ian Davison, part of the SMS Seminar Series, 11:15 a.m.-12:30 p.m., Nov. 10, 100 Bryand Global Sciences Center. x4381.

TGIF Music, offered by the Center for Students and Community Life, noon-1 p.m., Nov. 10, Bangor Lounge, Union. x1793.

"Designing Metallomesogens and One-Dimensional Materials," by Lee Parks, Department of Chemistry, Williams College, part of the Department of Chemistry Colloquium Series, 2 p.m., Nov. 10, 316 Aubert Hall. x1169.

"Bred to the Sea: Maritime Society in Early America," by Daniel Vickers, professor of history, University of California-San Diego, a History Department Symposium, 3:15 p.m., Nov. 10, 110 Little Hall. x1908.

All Star Dyn-o-mite Disco Review: Flashback to the '70s, live dance music with interactive stage show, 7-11 p.m., Nov. 10, Wells Conference Center. Admission Fee. x1793.

Community Indoor Fun Night, a Fitness and Family Event of the Intramural/Recreational Sports Department, 7-9 p.m., Nov. 10, Field House and Wallace Pool. x1793.

Men's Hockey: UMaine vs. Merrimack, 7 p.m., Nov. 10, Alford Arena. Admission Fee. xBEAR.

"Our Place in Space," a Planetarium show, 7 p.m., Nov. 10, Wingate Hall. Admission Fee. x1341.

Godspell, part of the Maine Center for the Arts performance season, 8 p.m., Nov. 10, Hutchins Concert Hall. Admission Fee. x1755.

GIS Day

GIS Day, Nov. 15, is an annual global event – within Geography Awareness Week – that celebrates geographic information systems (GIS), the technology that helps users display human and natural data across space. It serves to make the community aware of mapping technology and the important contributions it is making in the natural and social sciences, the humanities, engineering, business and public administration. Several UMaine units are observing GIS Day with open houses, demonstrations and other public events. For the latest details, check the master calendar on the Web (<http://calendar.umaine.edu>).

11 Saturday

Wilderness First Responder Recertification Course, a Maine Bound program, Nov. 11-12, Lengyel Gym. Admission Fee. Preregistration required. x1794.

Football: UMaine vs. Northeastern, noon, Nov. 11, Alfond Stadium. Admission Fee. xBEAR.

Swimming and Diving: UMaine vs. Holy Cross, 2 p.m., Nov. 11, Wallace Pool. xBEAR.

ALANA Center Popcorn and Movie Night, 7-9 p.m., Nov. 11, Hannibal Hamlin Hall. x1405.

Men's Basketball: UMaine vs. BABC (exhibition), 7:30 p.m., Nov. 11, Alfond Arena. Admission Fee. xBEAR.

12 Sunday

Kayak Rolling Pool Clinic, a Maine Bound program, Nov. 12, Wallace Pool. Admission Fee. Preregistration required. x1794.

Performance by Athena Consort and Collegiate Chorale, directed by Francis Vogt and Kathy Jellison, part of the School of Performing Arts season, 2 p.m., Nov. 12, Minsky Recital Hall. Admission Fee. x1755.

Women's Ice Hockey: UMaine vs. New Hampshire, 3 p.m., Nov. 12, Alfond Arena. xBEAR.

13 Monday

The University of Maine Open House, offered by the Office of Admissions, 8 a.m.-12:15 p.m., Nov. 13, Maine Center for the Arts. x1561.

"Black Duck and Mallard Use of Wetlands," by Daniel McAuley, Patuxent Wildlife Research Center, part of the Department of Wildlife Ecology Seminar Series, noon, Nov. 13, 204 Nutting Hall. x2862.

"Reflection on Fighting Hunger in Maine," part of the Service Reflection Discussion Series offered by Student Employment and Volunteer Programs and the Center for Students and Community Life, noon-1 p.m., Nov. 13, FFA Room, Union. x4194.

"Classroom and Curricular Diversity," a Center for Teaching Excellence New Faculty Luncheon with Susan Pinette, Ann Schonberger and Maureen Smith, for faculty at UMaine fewer than three years, noon-1:30 p.m., Nov. 13, Wells Conference Center. Registration required. x3472.

"Family Transformations and the Demand for Elder Care in America," by Lenard Kaye, Graduate School of Social Work and Social Research at Bryn Mawr and a UMaine Visiting Libra Professor in the College of Business, Public Policy and Health; followed by panel discussion with Commissioner of the Maine Department of Human Services Kevin Concannon, Executive Director of the Eastern Agency on Aging Roberta Downey, and Christine Gianopoulos, director of the Bureau of Elder and Adult Services, Maine's State Unit on Aging, 4-5:30 p.m., Nov. 13, Devino Auditorium, Corbett Business Building. x1968.

14 Tuesday

"Internet and Global Competition: Business Unusual," by John Mahon, John M. Murphy chair of international business policy and strategy, University of Maine Business School, part of the Emerging Business Issues Monthly Breakfast Series, 7:30-9 a.m., Nov. 14, Bangor Motor Inn and Conference Center, Hogan Road. Reservations required. x1968.

VALIC Employee Group Meeting, with Jane Brann, VALIC retirement planning specialist, 11 a.m.-2 p.m., Nov. 14, 220 Corbett Hall.

"The Music and Letters of Fanny and Felix Mendelssohn: Sibling Revelry and Rivalry," by Laura Artesani and Francis Vogt, part of

the Women in the Curriculum Lunch Series, 12:15-1:30 p.m., Nov. 14, Minsky Recital Hall. x1228.

Identifying Heavenly Bodies, with Planetarium staff pointing out the planets and constellations of the night sky, a Jordan Planetarium Even-Odd Tuesdays program, 1-1:30 p.m., Nov. 14, Wingate Hall. x1341.

PageMaker II, a Fogler Library Web and Desktop Publishing Workshop, 2-4 p.m., Nov. 14, Computer Classroom, Fogler Library. Admission Fee. Registration required. x1696.

Performance by the Percussion Ensemble, directed by Stuart Marrs, part of the School of Performing Arts season, 7:30 p.m., Nov. 14, Minsky Recital Hall. Admission Fee. x1755.

Coffeehouse, offered by the Center for Students and Community Life, 8 p.m., Nov. 14, Hilltop Commons. x1793.

15 Wednesday

Basic Life Support CPR, a Maine Bound program, Nov. 15, Lengyel Gym. Admission Fee. Preregistration required. x1794.

Interactive CD: Alcohol 101, offered by the Peer Education Program, 10 a.m.-noon, Nov. 15, FFA Room, Union. x1793.

Queries in Access, an Information Technologies workshop, 2:10-4 p.m., Nov. 15, 215, Little Hall. Admission Fee. Registration required. x1638.

But I'm a Cheerleader, part of the Cinematique Independent Film Series, 7-9 p.m., Nov. 15, Devino Auditorium, Corbett Business Building. x1793.

16 Thursday

Registration for Spring 2001 Ends.

"Education and Economic Change in Cuba," by Jay Hanes, Michael Howard and Mark Hibben, Liberty High School teacher, part of the Socialist and Marxist Studies Luncheon Series, 12:30-1:45 p.m., Nov. 16, Bangor Lounge, Union. x3860.

"The Not So Golden Ratio," by George Markowsky, part of the Got Math? Seminar Series, 12:30 p.m., Nov. 16, 119 Barrows Hall. x3901.

Broadway Rocks! a concert of music from five Broadway musicals, performed by UMaine students, 8-9 p.m., Nov. 16, Hauck Auditorium. Admission Fee. x1793.

17 Friday

"Old and New Features of Fish Bone: Missing Cartilage, Lacking Osteocytes and Mononucleated Osteoclasts," by Erhart Witten, Zoologisches Institut und Zoologisches Museum der Universität Hamburg, Germany, part of the SMS and BMMB Seminar Series, 11:15-12:30 p.m., Nov. 17, 100 Bryand Global Sciences Center. x4381.

TGIF Music by UMaine Jazz Combo, offered by the Center for Students and Community Life, noon-1 p.m., Nov. 17, Bangor Lounge, Union.

Biophysics Colloquium, offered by the Department of Chemistry, 2 p.m., Nov. 17, 316 Aubert Hall. x1169.

"Our Place in Space," a Jordan Planetarium show, 7 p.m., Nov. 17, Wingate Hall. Admission Fee. x1341.

Women's Ice Hockey: UMaine vs. Cornell, 7 p.m., Nov. 17, Alfond Arena. xBEAR.

Broadway Rocks! a concert of music from five Broadway musicals, performed by UMaine students, 8-9 p.m., Nov. 17, Hauck Auditorium. Admission Fee. x1793.

18 Saturday

Introduction to Aid Climbing, a Maine Bound program, Nov. 18. Admission Fee. Preregistration required. x1794.

Shadow Puppets, a Hudson Museum Just for Kids program, 10 a.m.-noon, Nov. 18, Maine Center for the Arts. Admission Fee. Preregistration required. x1901.

Swimming and Diving: UMaine vs. Boston University, 11 a.m., Nov. 18, Wallace Pool. xBEAR.

15th Annual

Women's Studies Conference

"Women Around the World: Bringing the Global Home," the 15th Annual Maine Women's Studies Conference, highlighted by a keynote address by Amrita Basu, professor of political science, and women's and gender studies, Amherst College, and author of *Two Faces of Protest: Contrasting Modes of Women's Activism in India*, sponsored by the Women in the Curriculum and Women's Studies Program, and the Women's Resource Center, Nov. 18, Wells Conference Center. Admission Fee. Registration. x1228.

People in Perspective

The lost and found box at the Information Center in the Memorial Union is rarely empty. Any number of personal items belonging to members of the University community or campus visitors are left behind in the widely used facility. Most are eventually retrieved by their grateful owners.

A couple years ago, when a pack of wallet-size photographs remained unclaimed, Information Center manager Margaret Baker decided it was important to take extra steps to find its owner. The pack included old family photos, baby and wedding pictures, and snapshots of grandchildren, but no full names or addresses. All Baker had to go on was a last name and the name of a town on the back of a youth hockey photo.

"If those were my pictures, I would want them back," she says.

A co-worker helped Baker in the detective work. On the Internet, they searched to find a town somewhere in the country that was home to someone with the last name on the photo.

"It took a while but we did it," she says. "The photos belonged to a grandmother from Connecticut who was visiting campus. She was so thankful. She thought she'd never see them again.

"Some people might frown on going to that extreme, but to me it's a personal thing and it is good for the University. I take real ownership in what I do."

For the past three years, Baker has coordinated information dissemination in one of the busiest buildings on campus. The Information Center is itself a lost and found, linking people with the answers they seek.

"You get every kind of question and request here," says Baker, who this semester is assisted by eight Work Study students. "I had someone call and ask if there was going to be an eclipse that night. People come here to ask about lost car keys or how to find their advisor. Because I can read people pretty well, sometimes I know what they're going to ask before they ask."

The most-asked questions at the Information Center: directions to campus destinations, including the Bookstore and places to eat, and how to get a copy of the undergraduate catalog. Visitors often just want information about certain facilities and landmarks.

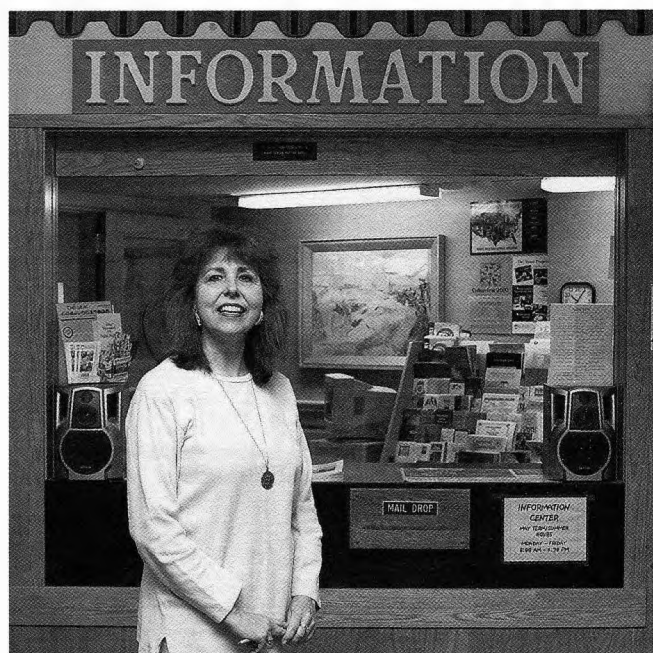
Need a schedule for The Bus? Want to buy a Concord bus pass? Looking for information on childcare in the area? You've come to the right place.

"I like it most when I have a couple minutes to ask people about themselves. If I find out their interests, I can refer them to some of our many resources and activities on campus.

"In this increasingly technological age, it would be easier to hand over a printout or tell someone to look up the information on the Web. The interaction gives a personal component to the University of Maine."

Baker has been working in higher education since 1971. She worked first for the Chancellor's Office. Five years later, she joined the University of Maine community and began her 24-year career in the Center for Students and Community Life area.

On campus, Baker worked first in the Judicial Affairs office. She was involved in the Commuter and Nontraditional Student Office, including the publication of the *Commuter Chronicle* for almost a decade. She helped with Family and Friends Weekend



Margaret Baker

Photo by Monty Rand

and New Student Orientation. For many years, Baker was the contact for the Emergency Locator Service on campus, as well as part of the support staff for National Student Exchange. For 15 years, she coordinated the off-campus housing program.

She was named the 1993 Employee of the Year for Outstanding Service to the Community, and through the years has been active in a number of committees on campus.

Baker's working knowledge of many facets of student affairs, coupled with her experience as a member of the Memorial Union administrative staff, made her a logical successor to long-time employee Betty Keene, who retired three years ago as manager of the Information Center.

"When people come into the Union, they've got a focal point of information," she says. "We are here to help as ombuds.

"People need accurate, dependable information. They respond to your willingness to help and to proactively see what needs to be done."

When the Union was in full operation, Baker did the room scheduling. Now in the midst of the renovation and addition project, she still juggles numerous requests for meeting places. Amid the constant sounds of construction, Baker reminds people to keep the faith and look ahead to the improvements.

"The new Union will be a more exciting place for students," she says. "The Union was built (in 1953) to accommodate 3,500 students. Today we have more than 10,000. The expansion was something promoted by longtime Union director Dave Rand.

"A student union should be a place for social gathering, relaxing and developing a sense of community. That's been hard to do in a small facility. Once completed, the Union will be a place with more entertainment, more student involvement and interaction, and more possibilities than ever before. It will be the center of campus, a source of new pride."

Gallery Glimpses



Leon Golub
Prometheus, 1997
Acrylic on linen, 118 x 124"

Works of Golub

Art of political activist, printmaker and painter Leon Golub will be on display in an exhibit Nov. 3-Dec. 16 at the Museum of Art.

While the Crime is Blazing: Paintings, Drawings & Prints 1994-1999 is an exhibition that includes large-scale paintings on unstretched linen and a selection of drawings. Also included are four prints from the Museum of Art's permanent collection.

An opening reception for the exhibition will be held from 5-7 p.m., Friday, Nov. 3, Carnegie Hall. Highlighting the reception will be a 6 p.m. discussion of Golub's work by Stuart Horodner, curator of the exhibition and director of the Bucknell University Art Gallery.

Golub, a leader of Chicago's figurative movement in the 1950s, challenged the dominant styles of the time. An existential and activist painter, he gained international recognition for his politically charged works addressing war, racism, sexism and power.

Bangor to Bangor art exchange

Bangor Public Library is the venue for a unique art show, *Bangor to Bangor Original Print Exchange*, Nov. 4-30.

The show is an exhibition of original prints by artists in Bangor, Maine, and in Bangor, Northern Ireland. It was organized by UMaine Professor of Art Susan Groce as a cultural exchange.

The works of 53 contemporary printmakers selected from an open competition represent a spectrum of styles, subjects, print media and experiences. The exhibit includes works by UMaine faculty and students.

An opening reception will be from 1-3 p.m., Saturday, Nov. 4.

Hunger Banquet

5:30-8:30p.m., Thursday, Nov. 2, Wells Conference Center

Join us for an educational night about hunger and food security in Maine. The Hunger Banquet is designed to help UMaine students, faculty and staff learn more about hunger in Maine communities.

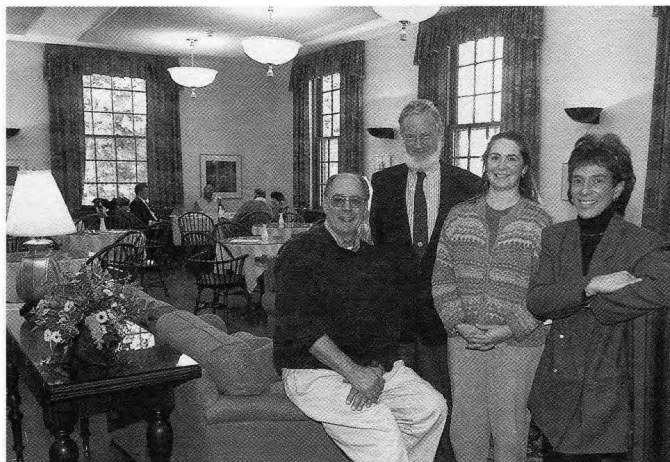
Those attending the banquet will be randomly assigned a meal. Some will receive a large meal, which will represent the percentage of Maine's population that has more than enough food. Another group of guests will receive a sufficient meal, such as macaroni cheese, hot dogs and vegetables. This group will represent the people who have just enough.

The remainder of the guests will receive a small portion of food, with a choice of Ramen noodles, rice or cereal. This group will represent the 40 percent of Maine's population that doesn't have enough to eat.

During the meal, there will be presentations from representatives of area food banks, Maine Coalition for Food Security and Partners in Ending Hunger. UMaine students from the Volunteers and Organizations in Community Efforts (VOICE) will present facts about hunger.

At the end of the evening, there will be snacks and desserts for all, along with discussion and door prizes.

The Hunger Banquet is co-sponsored by VOICE and Alpha Phi Omega.



The leadership of the University Club, now in the Lynch Room of Fogler Library, includes, left to right, Benedict Neubauer, Jay Johnson, Gretchen Ziemer Greenberg and Betsy Economy-Roberts.

Photo by Monty Rand

University Club open in its new home in Fogler Library

The University Club in the Lynch Room of Fogler Library is now accepting applications for membership.

Membership is for UMaine faculty, staff, administrators, retirees and alumni with MaineCards. Only individual memberships are available at this time, which allow a member to bring guests.

Membership fees are based on annual salaries: \$80 annually if your salary exceeds \$30,000, \$50 a year for those with incomes less than \$30,000 annually. Fees fund the facility's maintenance.

The University Club is open 9 a.m.-3 p.m., Monday-Friday. Complimentary hot beverages and baked goods are available throughout the morning. Lunch is served 11 a.m.-1:30 p.m.

The mid-day meal features a choice of homemade specialty soups and salads for \$4.95. In the winter months, the menu will include hot entrees.

Dining Services operates the restaurant portion of the Club, which seats 50. Menu planning is by Betsy Economy-Roberts, assistant dining service manager for retail operation, Stewart Commons.

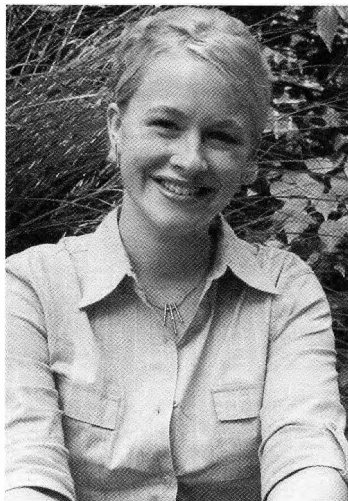
The Club soon will be hosting Friday afternoon wine and cheese receptions for members.

Managing the University Club is Gretchen Ziemer Greenberg. Associate Professor Emeritus of Mechanical Engineering Jay Johnson is president and Benedict Neubauer treasurer of the Club's nine-member advisory board.

The Lynch Room was established as a music resource and listening room by Thomas Lynch, an electrical engineering major in the Class of '38, as part of the 1978 Reunion. Last year, the Ohio resident donated \$80,000 to renovate the increasingly under-utilized resource center into a centrally located meeting place to facilitate collegiality and intellectual dialogue among faculty and staff across academic disciplines.

Much of the refurbishing in the Lynch room was completed this summer.

The facility can now be reserved for receptions and meetings after 3 p.m., Monday- Thursday. For reservations or membership information, call the Club, 581-4852, or write Gretchen_Ziemer_Greenberg@umit.maine.edu. ▲



Caileen Nutter

Cambridge and Columbia by way of UMaine

For the last few years, Caileen Nutter's goal has been to study abroad, go to law school and work for the government. The groundwork for her aspirations is being laid at UMaine.

"I want to (pursue a career that will) help people," says Nutter, a sophomore from North Berwick majoring in international affairs in political

science. "It will involve helping promote peace worldwide and maintaining justice in our own system."

Nutter discovered political science as a high school senior. She is fascinated by the ease with which our complex federal government works, and intrigued by the interaction between successful and failing governments around the world.

It was the Osher Scholarship, an award of \$6,000 a year, renewable for four years, that convinced Nutter to pursue her pre-law studies at UMaine in 1999. Next semester, her academic pursuits will take her to Britain, where she has been accepted to Cambridge as a study abroad student.

"Especially as an international relations student, you have to go and see what the world is like," says Nutter, who is minoring in French. "In a world that is rapidly shrinking, you have to know and understand cultures and languages."

Nutter says she is looking forward to months of intense political science tutoring and classes with educators from throughout the world. "I'm not concerned about getting an A but about learning," says the 4.0 student. "Learning about political science from different perspectives will augment my success in my major. The experience will make me more liberal-minded as an international lawyer."

Nutter downplays her academic success, which has put her a semester ahead of most students in the Class of 2003. "Anybody can get a 4.0 if he or she reads and goes to class," she says. "We are normal people. But we do prioritize and make it a point to meet professors. So much (of the success) has to do with self-initiative."

Success for Nutter is not limited to the classroom. As a first-year student, she was involved in numerous out-of-class activities, including volunteer work at an area soup kitchen. She has been an officer in the Maine Outing Club, where she pursues her love of the outdoors. Nutter is president of the Student Alumni Association and vice president of academic affairs for the General Student Senate.

As an honors student, Nutter also serves on the Student Advisory Board of the Honors Program and on the Honors Council. Her research interests focus on women's roles in government and in shaping international relations.

"Each time I join something new, I'm opening myself up to potential new friends and so many experiences," says Nutter, who admits that meeting new people is a passion. "That's why I spend time recruiting first-year students to get involved in out-of-class activities on campus, which are part of the education here."

"Being involved is a way of exploring other forms of learning. You'll not learn to manage an organization as well in a classroom as you will doing it with a group; you won't overcome a fear of rock climbing without being out on that cliff. They are all challenges to face. In my case, there were so many obstacles in going to law school but I knew that I could."

The Osher Scholarship, which is awarded based on academic achievement, community involvement and financial need, allowed Nutter to study abroad and to save money for law school.

Role models like her aunt, UMaine graduate Kathleen King, and UMaine Honors Program Director Charlie Slavin mirrored Nutter's thirst for knowledge and showed her that anything is possible.

"Charlie understands students and has an enthusiasm for learning," Nutter says.

"My aunt, a national park ranger, never let anything get in her way. She taught me lessons in facing challenges head on and carrying through until you succeed. She taught me to never be afraid to try anything, and to never think that you are less than somebody else — all lessons that carry over into international relations."

Nutter has her sights set on attending law school at Columbia University. ▲

Graduate Student Focus

Infrastructure of bridge design

Keith Wood of Manchester, Maine came to the University in 1994 to start his academic career in civil engineering. The next six years laid the foundation for what is now his professional career as a bridge designer for the Maine Department of Transportation.

During his years at UMaine, Wood participated in numerous activities related to his major. In his sophomore year, he joined the student chapter of the American Society of Civil Engineers (ASCE) and helped in the construction of a concrete canoe. In the following years, he also was involved in service projects and the steel bridge team.

During his senior year, Wood was the chairperson for the student chapter's steel bridge team at the region competition in Vermont. Even though the team's bridge failed, he learned a lot about the fabrication of steel structures and how structures actually behave.

Wood also was a member of two engineering honor societies and served as the editor/historian for the UMaine Chapter of Chi Epsilon.

Wood received a bachelor's degree in 1998. That fall, he returned to start his graduate research training focused on "Environmental Exposure Characterization of Fiber-Reinforced Polymer (FRP) Materials used in Bridge Deck Systems." He conducted his research under the supervision and guidance of Roberto Lopez-Anido, assistant professor of civil engineering and a member of the Advanced Engineered Wood Composites Center (AEWC).

Wood's research effort was funded by a grant from the Ohio

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The creative side of economics

As a mathematician and computer scientist, George Markowsky wasn't trained to worry about economic development. But he has long had the ability to look into the future and then set current events into motion to help achieve progressive ends.

He also has a statistical view of life.

"My philosophy is to go ahead and do things," Markowsky says. "You have to be willing to take risks and rely on the law of large numbers. You also have to be prepared to lose, and then learn from it."

Markowsky, the first non-acting chair and now current chair of the Department of Computer Science, has set a tone for technological advancement on campus in his 17 years at UMaine. Eight years ago, he also began setting a pace for economic development in the University community and the state.

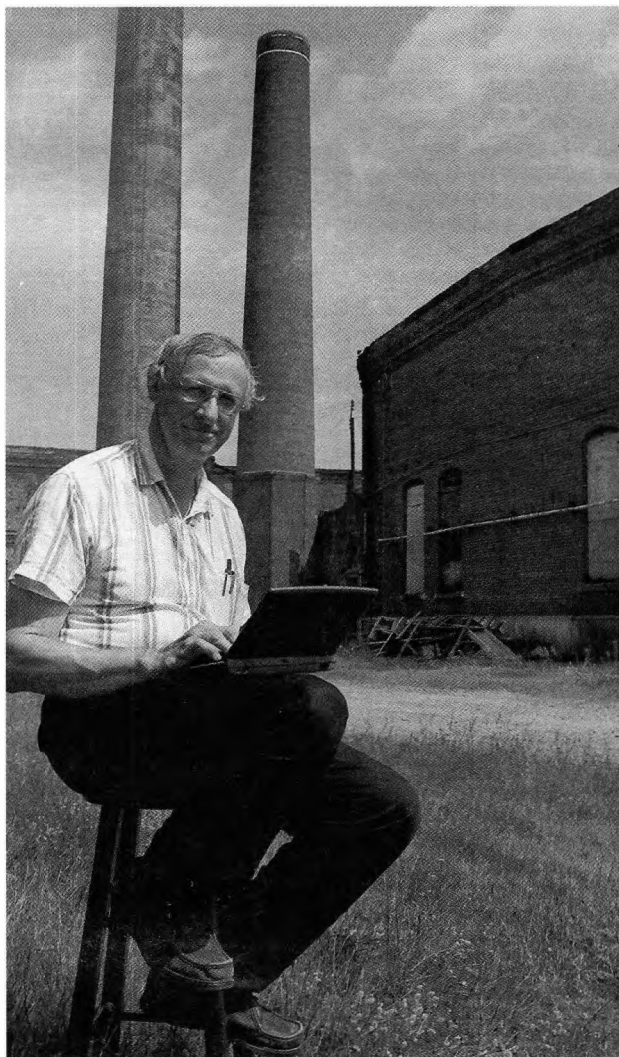
"I now have several lives," he says. "I'm too busy to count them; they kind of blend together anyway. The biggest lesson I've learned? If you have a sensible idea, stick with it, even if it amuses other people."

With a Ph.D. in mathematics from Harvard in 1973, Markowsky joined IBM's T.J. Watson Research Center. For nearly a decade, he was involved in computer science research and saw the dawn of the personal computer age. Then he helped it become a reality at UMaine.

"We had to design the classrooms," says Markowsky, who came to UMaine in 1983. "There were no PCs so we used punch cards and a couple terminals. We offered a bachelor's degree."

In cooperation with Fogler Library, Computer Science opened the first public computer cluster on campus with 10 PCs. In the mid-'80s, additional technology came to campus with the help of bond issue monies. "Within a year after the bond issue money was spent, we had three times the number of computers," Markowsky says. "They transformed the campus."

Five years from its start, the Department of Computer Science was offering a master's program and improving computing infrastructure. Last year, UMaine established the state's first Ph.D. program in computer science.



The biggest lesson I've learned? If you have a sensible idea, stick with it, even if it amuses other people.

— George Markowsky

"A real milestone was reached two years ago when various efforts paid off to improve state support of research. It enabled the Ph.D. program and creation of new space in East Annex for computer labs. As a result, we are going to see a lot more research and outreach," says Markowsky, who joined four of UMaine's leading faculty members in 1996 in a grassroots advocacy effort to heighten awareness statewide for the need for R&D funding for Maine's land-grant university. Together, they were known as the Faculty Five.

Now Markowsky is spearheading talks with colleagues at the University of Southern Maine to explore offering the doctoral program statewide.

"I'm trying to promote the idea that the battle is not UMaine against USM but Maine against the world," Markowsky says. "We need to take all the Ph.D.s (in computer science) in Maine and build a critical mass to get the whole state on track. Maine has a lot going for it, but the north-south stuff weakens us vis-a-vis the rest of the world."

"I emphasize the creative side of economics. Out of innovation and creativity come whole new industries. We need to tie ideas together."

Such a holistic, statewide perspective was illustrated eight years ago when Markowsky was the

founding president of the Maine Software Developers Association (MeSDA). The goal of the association, incorporated in 1993, is to develop a healthy financial and governmental climate for the software industry in Maine. What started with 17 members has since blossomed into one of the largest trade organizations in the state with more than 200 companies and organizations working in one of Maine's fastest growing sectors of the economy.

"As a result, software development in Maine is on the map and has really helped change people's image of the state's economy as solely natural resource-based," says Markowsky, who served as president for the association's first six years. "As the software industry grows in Maine, it offers jobs and a tax base, as well as ties with industrial sectors such as biotech, manufacturing and composites."

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New Faculty at the University of Maine

The University of Maine's 2000-01 academic year has begun with 40 new members of the faculty. As a means of introduction to the University community, *Maine Perspective* surveyed them concerning their academic, research and public service activities. This is the third in a series of features on the new faculty of the University of Maine.



Christine Valle, assistant professor of mechanical engineering, received a Ph.D. from the Georgia Institute of technology in the area of nondestructive evaluation of metallic pipes. Her research interests are in wave propagation in solids and fluids, nondestructive evaluation of advanced materials, and numerical methods (particularly the finite element method). Courses she teaches include undergraduate dynamics and a graduate-level introduction to the finite element method course.



Senthil Vel, assistant professor of mechanical engineering, received a Ph.D. in engineering mechanics from Virginia Tech. His research focuses on composite materials and smart structures. This academic year, he will be teaching courses in solid mechanics and mechanical design.



Habtom Ressim, assistant professor of electrical and computer engineering, received a Ph.D. in electrical engineering from the University of Kaiserslautern, Germany. He was a research and teaching assistant with the Institute of Process Automation at the University of Kaiserslautern. Ressim's research interests are in applications of computational intelligence, including artificial neural networks, fuzzy logic, and genetic algorithms for process modeling and control. He will be teaching courses on linear circuits and systems, and neural networks.



Eric Gallandt, assistant professor of weed ecology and management, received a Ph.D. in agronomy from the University of Wisconsin-Madison in 1994. That same year, he came to UMaine to work as a senior scientist, and later as an assistant research professor. Most recently, Gallandt was an assistant professor at Washington State University, where his research focused on manipulations of the soil surface environment to affect weed population dynamics. At UMaine, he is examining relationships among soil-improving management practices, resultant changes in soil quality and weed population dynamics. He will be teaching in the area of sustainable agriculture.



Karl Kreutz, assistant professor of geological sciences and Quaternary studies, received a Ph.D. in geochemistry from the University of New Hampshire. Most recently, he held a postdoctoral fellowship at the Woods Hole Oceanographic Institution. At UMaine, he is director of the Stable Isotope Laboratory and a member of the Climate Studies Center. His research and teaching interests include environmental geochemistry, climate variability, glaciology and hydrology.



Paul Mayewski is professor of geological science and Quaternary studies. He received a Ph.D. from the Institute of Polar Studies, Ohio State University, and holds an honorary Ph.D. from the University of Stockholm. At UMaine, he directs the newly formed Climate Studies Center. Before coming to UMaine, Mayewski was director of the Climate Change Research Center at the University of New Hampshire. He has led more than 30 scientific expeditions to the Antarctic, Arctic and the Himalayan/Tibetan Plateau. His research focuses on the recovery, analysis and interpretation of ice core records that reveal change in climate and chemistry of the atmosphere. Mayewski serves as chief scientist on several National Academy of Sciences committees.



Mary Rumpho is professor of biochemistry, microbiology and molecular biology. She received a Ph.D. in horticulture, specializing in plant biochemistry, from Washington State University. She has held faculty positions at the University of Maryland and Texas A&M prior to coming to the University of Maine. Her research interests include photosynthetic carbon metabolism and symbiosis in marine invertebrates, syntheses of anti-cancer compounds in plants, and physiological genomics of flooding stress tolerance in plants. Rumpho will be teaching courses in biochemistry.



Marianne Sarrantonio, assistant professor of sustainable agriculture, received a Ph.D. in soil biogeochemistry from Cornell University. Her research focus is soil quality and the use of organic soil amendments in cropping systems to improve soil characteristics. Previously, she headed the agroecology master's program at Slippery Rock University in Pennsylvania. She also worked for Rodale Institute as coordinator of its Soil Health Program. She will be coordinating the sustainable agriculture program in the Department of Plant, Soil and Environmental Science, and teaching courses in cropping systems and plant science.



Renae Moran is assistant professor of pomology in the Department of Biosystems Science and Engineering. She is stationed at Highmoor Farm, Monmouth, and also has a split appointment with Cooperative Extension and the Maine Agricultural and Forest Experiment Station. Moran received a Ph.D. in plant science from the University of Arkansas. Before coming to UMaine, she was a postgraduate researcher in the Department of Pomology at the University of California-Davis, and a postdoctoral research associate at the University of Tennessee. Moran's research focuses on apple tree research, rootstocks and nutrition. She will be working with Maine's apple industry.

Linne Mooney, professor of English: "Fragments of Middle English Verse: An Overview and Some Speculations about Their Survival," *Interpreting and Collecting Fragments of Medieval Books*, ed. Linda Brownrigg and Peggy Smith, Los Altos Hills, Calif.: Anderson-Lovelace/Red Gull Press, pp. 137-50 (2000). In addition, review of Juhani Norri,

Names of Body Parts in English, 1400-1550, Annales Academiae Scientiarum Fennicae, Humaniora, Vol. 291 (Helsinki: Academia Scientiarum Fennica, 1998), *Medium Aevum* 68, pp. 331-3 (1999). Also, "Memento mori Verses and other Wall Paintings on the Walls of the Guild Hall, Stratford upon Avon," *Journal of the Early Book Society* 3, pp. 182-90 (2000).

John Moring, professor of zoology, Department of Biological Sciences: "How the West Was Spun," *Roundup*, 8(1):13-14 (2000).

Associate Professors of Computer Science **Elise Turner** and **Roy Turner**: "Simulating an Autonomous Oceanographic Sampling Network: A Multi-Fidelity Approach to Simulating Systems of Systems," 2000 *Conference of the IEEE Oceanic Engineering Society* (OCEANS 2000). In addition, C.M. Chester, R.M. Turner, M.D. Carle, and L.G. Harris: "Life History of a Hydroid/Nudibranch Association: A Discrete-Event Simulation," *The Veliger*, the California Malacozoological Society, 42(3).

Professor of History **Alex Grab**: a book chapter, "From the French Revolution to Napoleon" in *Italy in the Nineteenth Century*, ed. John Davis, (Oxford University Press), pp. 25-50.

D. Kimbrough Oller, professor of communication sciences and disorders, with **Rebecca Eilers**, dean of the College of Liberal Arts and Sciences: "Interpretive and Methodological Difficulties in Evaluating Babbling Drift," *Parole*, 7/8: 147-64. In addition, Oller, with S.J. Sheinkopf, P. Mundy, and M. Steffans: "Vocal Atypicalities of Preverbal Autistic Children," *Journal of Autism and Developmental Disorders*, 30:345-53.

Peggy Agouris, assistant professor, **Kate Beard**, professor, **Georgios Mountrakis**, graduate student, all with the Department of Spatial Information Science and Engineering, and **Anthony Stefanidis**, research assistant professor with NCGIA: "Capturing and Modeling Geographic Object Change: A SpatioTemporal Gazetteer Framework," *Photogrammetric Engineering & Remote Sensing*, 66(10): 1241-50 (October 2000).

Michael Bank, instructor of wildlife ecology, along with D. William Franklin, professor of animal ecology, Iowa State University, and Ronald Sarno, research fellow, National Institute of Health - National Cancer Institute: "Assessing the Effect of Radiocollars on Juvenile Guanaco Survival," *Oecologia*, 124(2):232-34. In addition, Bank, along with **Allan O'Connell Jr.**, leader, Cooperative Park Studies Unit, United States Geologic Survey, University of Maine: "Stalking Salamanders in Acadia National Park," *Natural New England*, 1(4): 8-9 (2000).

William Krohn, leader, Maine Cooperative Fish and Wildlife Research Unit, and professor of wildlife; and **Randall Boone**, research associate: "Partitioning Sources of Variation in Vertebrate Species Richness," *Journal of Biogeography*, 27:457-70 (September 2000). In addition, Krohn and Boone: "Relationship Between Avian Range Limits and Plant Transition Zones in Maine," *Journal of Biogeography*, 27:471-782 (September 2000).

Robert Dudley, former grad student in Civil Engineering; **Vijay Panchang**, professor in the School of Marine Sciences; and Carter Newell, Great Eastern Mussel Inc., Tenants Harbor: "Application of a Comprehensive Modeling Strategy for the Management of Net-Pen Aquaculture Waste Transport," *Aquaculture*, 187(3-4): 319-49 (2000).

D.R. Steward, former postdoc, and **Vijay Panchang**, professor in the School of Marine Sciences: "Improved Coastal Boundary Conditions for Water Wave Simulation Models," *Ocean Engineering*, 28:139-57 (2000).

Kristin Sobolik, associate professor of anthropology and Quaternary studies, with **Richard Will**, faculty associate Quaternary Studies: "Calcined Turtle Bones from the Little Ossipee North Site in Southwestern Maine," *Archaeology of Eastern North America*, 28:15-28 (2000).

Book Ends

New & Noteworthy at the University Bookstore

An American Outrage: A Novel of Quillifarkeag, Maine by G.K. Wuori, **Algonquin Books of Chapel Hill (2000)**. This new book from the author of *Nude in the Tub* is once again set in the fictional town of Quillifarkeag, Maine – a town where no one says or does the expected.

The Bridegroom by Ha Jin, **Pantheon (2000)**. Ha Jin, author of *Waiting* and winner of the National Book Award, confirms his reputation as a master storyteller with this new collection of short fiction. Each of these 12 stories is set in contemporary China and all are full of surprises.

Nine and Counting: The Women of the Senate by Catherine Whitney, **Morrow (2000)**. The nine women of the U.S. Senate have changed the political landscape forever. Two of them, Olympia Snowe and Susan Collins, are from Maine. This new book is a window into the private and public lives of these nine extraordinary women.

Of Note: Nov. 16, University Bookstore will be open until 8 p.m. for its one-night-only pre-holiday sale. Take 30 percent off all clothing, UMaine gift items, and general books from 4:30-8 p.m. In addition, there will be a drawing, refreshments and a 6 p.m. fashion show.

Graduation announcements are now for sale. Place orders at the Textbook Information Desk.

Look Who's On Campus

STUART HORDNER, curator of the exhibition *Leon Golub: While the Crime is Blazing*, will conduct a gallery talk during the opening reception for the exhibition. The opening reception will be 5-7 p.m., Friday, Nov. 3, Carnegie Hall. Hordner's talk will begin at 6 p.m. Hordner is director of the Bucknell Art Gallery at Bucknell University. From 1992-96 he was partner/director of the Hordner Romley Gallery in New York City. He has curated such shows as *Jessica Stockholder: Photography, 2000; Animal Magnetism, 2000; VideoPhoto, 1999* and *Re: Rauschenberg, 1999*.

MANUEL HERNANDEZ AGUILAR of Chiapas, a Maya campesino (peasant farmer) and community activist, will speak at 12:15 p.m., Thursday, Nov. 9, Bangor Lounge, Union on "NAFTA, Militarization and Human Rights: A Report from Chiapas, Mexico." Aguilar is a religious leader in his community and a human rights promoter. He has twice spoken before the United Nations about the escalating militarization in Chiapas that causes human rights violations and problems with food supplies. Aguilar also speaks about the effects of economic globalization on the poor, including the consequences of the North American Free Trade Agreement. He is participating in the Witness for Peace program.

Visiting Libra Professor **LENARD KAYE**, professor of social work and social research at Bryn Mawr College, will give a keynote address, "Family Transformations and the Demand for Elder Care in America," at 4 p.m., Monday, Nov. 13, Devino Auditorium, Corbett Business Building. His speech will be followed by a panel discussion with Commissioner of the Maine Department of Human Services Kevin Concannon, Executive Director of the Eastern Agency on Aging Roberta Downey, and Christine Gianopoulos, director of the Bureau of Elder and Adult Services, Maine's State Unit on Aging. Kaye is an internationally known expert in social and health services for older adults, home healthcare, service-assisted housing for older adults, adult daycare, community-based services for elders, and men as caregivers. The specialist in gerontology has published nine books on aging-related topics.

The 15th Annual Maine Women's Studies Conference, "Women Around the World: Bringing the Global Home," will be highlighted by a keynote address by **AMRITA BASU** and a reading by **JUNE JORDAN**. The Saturday, Nov. 18 conference requires registration; Jordan's reading from her recent autobiography is free and open to the public. Basu is professor of political science, and women's and gender studies at Amherst College. She is the editor of *The Challenge of Local Feminisms: Women's Movements in Global Perspective*, and author of *Two Faces of Protest: Contrasting Modes of Women's Activism in India*. Jordan is a poet, essayist, activist and professor of African American studies at the University of California-Berkeley. *Affirmative Acts: Political Essays* (1998) is her 26th book.

Hsiang-tai Cheng, associate professor of resource economics and policy, received the 2000 President's Award for Emerging Leadership from the Food Distribution Research Society at its annual conference in Roanoke, Va. Oct. 16. The award recognizes service and commitment in a leadership capacity in the Food Distribution Research Society. Cheng has

served as the vice president for education of the Society in the past three years.

Robert Cobb, dean of the College of Education and Human Development, has been named the first recipient of the Friend of Middle Level Education Award by the Maine Association for Middle Level Education. The award, to be given periodically for exemplary commitment and work, acknowledges individuals who have helped promote quality middle level education in Maine in ways other than public school service. Cobb was recognized for his continued support of the statewide association, of middle level education and young adolescents. The award was presented at MAMLE's annual fall conference at Sugarloaf.

Sharon Gilbert, post doctoral research associate, and **Deborah Rainey**, early childhood project specialist, Center for Community Inclusion, chaired a panel discussion at the Child Care Symposium, sponsored by CCI and Penquis Community Action Program Resource Development Center, Sept. 30 at Eastern Maine Technical College. They focused on the Center's Rural Early Intervention Specialists/Low Incidence Disability program, and on other educational opportunities in the central Maine area for professionals in the field of childcare. Rainey also discussed the new infant/toddler curriculum, developed by the staff at CCI, which helps childcare providers obtain their Child Development Associate certificate.

Leonard Berry, education specialist, Center for Community Inclusion, presented a keynote speech, "Supporting Diversity in Our Communities: Maintaining High Expectations for Everyone," at the Vermont Statewide Paraeducator Conference in Fairlee, Oct. 19. He emphasized that paraeducators need to maintain high expectations for all students.

Dorothy Klimis-Zacas, associate professor of clinical nutrition, and colleagues Nikos Yiannakouris, Antonia Matalas and Mary Yiannakoulia at Harokopio University, presented "Association of ApolipoproteinE Genotype with Plasma Lipoproteins in Green High School Students" at the XII International Symposium on Atherosclerosis, Aarhus, Denmark, June 22-24.

Alfred Leick, professor in Spatial Information, attended the Institute of Navigation annual conference, Salt Lake City, Sept. 19-22, where he chaired a meeting of the Editorial Advisory Board of *GPS Solutions* (published by J. Wiley). Oct. 3-8, he visited the University of New South Wales, Sydney, Australia, where he gave a series of presentations on "Directions in GPS."

Howard Segal, Bird & Bird Professor of History, attended the Triennial Council meeting of Phi Beta Kappa in Philadelphia, Oct. 19-22.

Marybeth Allen, lecturer/staff speech-language pathologist, and **Nancy Hall**, assistant professor, Department of Communication Sciences and Disorders, recently received Specialty Recognition in Fluency Disorders awarded by the American Speech-Language-Hearing Association. Allen and Hall are among the first in Maine to receive this recognition as specialists in the area of stuttering.

Judy Walker, assistant professor of communication sciences and disorders, presented "Hemispheric Specialization in Processing Prosodic Structures: Re-Visited" at the Academy of Aphasia in Montreal, Oct. 24.

Professor **Alex Grab**, History, delivered a paper, "The Napoleonic Legacy in Italy," at the Tosca 2000 conference in Rome, June 18.

Bob Strong, professor of finance, was the keynote speaker at the annual meeting of the Northeast Business and Economics Association in Long Island, N.Y., Oct 5-8. His topic was "The Dot.com Phenomenon."

Vijay Panchang, School of Marine Sciences, gave an invited presentation, "Wave Modeling System for the Los Angeles/Long Beach Harbor Complex," to the National Ocean Service, Silver Spring, Md., Oct. 3.

Suneeti Nathani, assistant professor of communication sciences and disorders, attended the International Conference on Newborn Hearing Screening (2000) in Milan, Italy, Oct. 12-14.

Oct. 13, **Dan Sandweiss**, Anthropology, and Quaternary and Climate Studies) lectured on "Tucume: Pyramid Center of Ancient Peru" to the Pre-Columbian Society of Washington, D.C.

Several members of the Department of Communication Sciences and Disorders attended the fall conference of the Maine Speech-Language-Hearing Association, Ogunquit. Among the attendees were Lecturer/Staff Speech-Language Pathologists **Polly Camp**, **Joseph DiNapoli**, **Lorriann Orr** and **Susan Riley**; Assistant Professors **Mary Bellandese** and **Suneeti Nathani**; Professor **D. Kimbrough Oller**; and numerous undergraduate and graduate students.

Oct. 17, **Martin Stokes**, professor of biosystems science and engineering, chaired the planning meeting held in Londonderry, N.H. for the 2001 New England Dairy Feed Conference, which will be March 28, 2001 in West Lebanon, N.H.

Naomi Jacobs, English Department, is one of several scholars and experts who were asked to respond to a series of questions on "Utopian Visions of the Internet and the Metaphysics of Virtual Life" for the "Metaworlds" section of a Web site launched by the New York Public Library in relation to the current exhibit, *Utopia: The Search for the Ideal Society in the Western World*. The exhibit, a joint venture with the Bibliotheque Nationale in Paris, runs through Jan. 6. Jacobs is the current president of the Society for Utopian Studies. The "Metaworlds" site is www.nypl.org/utopia/O_meta.html

Jack Witham, associate scientist of wildlife, presented a paper, "Overview of Holt Research Forest," at the Maine Project Learning Tree/WILD Training, Winthrop, Oct. 14.

William Picard, education specialist at the Center for Community Inclusion, delivered a keynote address at a Maine Medical Center's conference, "Expectations and Challenges for Young People with Disabilities in the 21st Century," held at the University of Maine at Machias Sept. 22. The focus of the conference was on assistive technology and development of resources to support this technology in Washington County. Picard discussed the role assistive technology has played in his life.

CENTER FOR TEACHING EXCELLENCE

The Center for Teaching Excellence, 212 Crossland Hall, is a resource for faculty at the University of Maine. Our mission is to promote continuing improvement in the quality of teaching and learning at UMaine.
(www.umaine.edu/teaching)

TEACHING LINKS

Registration is right around the corner and your advisees will be by to see you. Below are a few sites you or your students may find useful.

www.psu.edu/dus/mentor/ This site from Pennsylvania State University offers a free electronic journal about higher ed advising. *The Mentor: An Academic Advising Journal* has many articles on the challenges and successes of advising.

www.ucc.vt.edu/stdysk/stdyhl.html From Virginia Tech, this site will be a real asset to your students. The advising section includes tips on time scheduling, stress management, writing papers, note taking, in-class skills, and much more.

www.nacada.ksu.edu/Profres/corevalu.htm This address will bring you directly to the National Academic Advising Association's "Statement of Core Values of Academic Advising." From here you can click to go back to the homepage and find professional resources, conferences and association information.

The CUTTING EDGE

University of Maine Research on the Frontiers of Science

On and off the track

The Maine harness racing industry contributed about \$50.7 million in 1999 in gross revenues to the state economy, according to a report from the UMaine Department of Resource Economics and Policy (REP). That figure includes the revenues received by racetracks, off-track betting operations and some tourism-oriented businesses in the state, as well as the spending by businesses and workers affiliated with the harness racing industry.

The study was conducted by Todd Gabe and Stewart Smith, faculty members in REP, with assistance from graduate research assistants and staff members at the University. They conducted surveys of racehorse owners as well as the owners and managers of racetracks and off-track betting facilities. Study findings are presented in a report, "The Contribution of the Harness Racing Industry to the Maine Economy," available from the department.

The Maine Harness Racing Promotion Board requested the study and donated \$8,957 to REP to support the work. Among the study results:

- ▼ Direct contributions by the harness racing industry amount to \$27.1 million and include revenue from racetracks and off-track betting facilities, as well as spending by tourists and horse owners above what they receive in prizes and purses. The remaining \$23.6 million of the industry's annual contribution, referred to as the industry's "multiplier effects," is generated by the spending of businesses and workers affiliated with the industry.

- ▼ Total wagering for in-state and out-of-state races at off-track betting and simulcast facilities was \$61.2 million in 1999. Total wagering at racetracks amounted to \$8 million.

- ▼ Total attendance at live racing events in Maine amounted to 614,611 in 1999. Out-of-state attendance was an estimated 20 percent or 122,922 people.

- ▼ Race horse owners earned an average of \$3,604 per horse and spent an average of \$5,441 per horse in 1999.

- ▼ The industry supports a total of 1,671 part-time, seasonal and full-time jobs. The total contribution in wages, salaries and distributed profits amounted to \$14.7 million.

Focusing on the harness racing industry's contribution to the Maine economy, the study does not address the impact of the industry in terms of how much revenue would be lost if the industry did not exist.

"Some of the money that people spend at races and off-track betting facilities would have likely been spent for things such as movies or other forms of recreation," says Gabe.

The size of the industry's contribution in 1999 reflects a decline in revenues generated by the harness racing industry in Maine in the past two decades. A 1975 study by the Social Science Research Institute at the University of Maine found that the industry contributed \$54.3 million. Inflation would make that figure considerably higher in today's dollars.

Rick Simonds, executive director of the Maine Harness Racing Promotion Board, acknowledges the findings of the study and while recognizing the decline in monies generated by the industry, feels that harness racing remains a vibrant sport and a constant tie with the agricultural heritage of Maine.

New technique to protect water quality

The University of Maine System has received a patent on a chemical process that could be used to clean up toxic waste sites, treat industrial wastewater or bleach wood pulp without generating toxic wastes.

The research was performed by a team led by Barry Goodell, wood scientist in the Department of Forest Management, and Jody Jellison, molecular plant pathologist in the Department of Biological Sciences. Two former graduate students, Jing Liu and Srinivasan Krishnamurthy, assisted with the work.

The process specifies a technique that results in the production of molecules known as free-radicals. These molecules are highly reactive and known for their ability to attack larger compounds. The technique can also be used in reverse to protect organic compounds from damage by free-radicals.

The patent, "Degradation and protection of organic compounds mediated by low molecular weight chelators," was issued by the U.S. Patent and Trademark Office April 4.

Funding was provided by the National Science Foundation and the U.S. Department of Agriculture.

The technique has been used to break down dyes in industrial wastewater, according to Goodell. "A lot of the dye used in paper and textile production ends up in the wastewater instead of the product. Dyes are meant to persist, and it's no surprise that they go through treatment and end up in rivers. We have found that this technology can produce a dramatic color reduction without the use of more expensive enzymes," he says.

What They're Talking About

If mathematics is the common language of science and engineering, then the Department of Mathematics and Statistics is a logical place for interdisciplinary studies. To promote such work, the department this semester launched a new weekly seminar series called Got Math? The series brings mathematicians together with computer scientists, wildlife ecologists, civil engineers, nurses, chemists, horticulturists and others.

"Our goal is to give faculty from other departments the chance to describe how they use mathematics in their work," says Bob Franzosa, professor and associate chair of the department. "We also hope to promote some collaborations between other departments and people in math, and to give students ideas about what kinds of careers they can consider with a math degree."

In mid-October, a team of students from the UMaine Tour de Sol team gave a presentation on mathematical techniques in the design and construction of their solar electric vehicles. Earlier speakers discussed mathematical approaches to optimizing manufacturing processes and applications to geographic information systems.

The seminar is held at 12:30 p.m. on Thursdays in 119 Barrows Hall. Upcoming speakers in November include David Yarborough of Cooperative Extension (Nov. 9), George Markowsky of Computer Science (Nov. 16), and Raymond O'Connor of Wildlife Ecology (Nov. 30). ▲

Diversity *continued from page 1*

transformation of existing classes. Reading grants also will be available for faculty interested in learning more about, and looking for alternatives in, diversity education. During May Term, DAC will offer a faculty institute on curriculum transformation through diversity. Issues to be addressed include the emotional dynamics of teaching diversity, the impact of such teaching on students of color and mainstream students, developmental perspectives, and understanding of racial identity theories.

A Diversity Across the Curriculum advisory board will be formed, drawing representatives from all the colleges.

"Our jobs as educators are to prepare our students for the future," Smith says. "The future most will face is a diverse society. If we have not trained them for that, we have failed in our duties.

"This is not a case of being politically correct. It is about the morally and ethically right way to think about reaching more students than ever before," says Smith. The intention is to improve the learning environment.

Throughout the years, an increasing number of UMaine classes have reflected greater diversity in coursework and pedagogy. In addition, courses in Franco-American, Native American and Black Studies are offered.

DAC will be built on the best of current courses incorporating diversity, Smith says. New ideas and different perspectives on diversity will be offered as resources so that, from the sciences and mathematics to the humanities, faculty can explore material and methods to bring a more diverse dialogue to their classes.

Implementing such a campuswide priority does not require a sacrifice of course content, but rather a more global view. Diversity across the curriculum can be likened to developing coursework using a library containing 50 books instead of just one, says Charles Marecic, an Individualized Ph.D. student and graduate assistant with Diversity Across the Curriculum.

"Diversity in the curriculum is an opportunity for creativity," says Marecic. Such an approach challenges educators to take a more comprehensive perspective and broaden the context of learning.

"Our office is trying to create visibility for diversity issues," says Marecic. "It is so easy for diversity to go off the radar screen when it is not integrated into people's lives. But with an active presence in our curricula, we are saying that we recognize diversity is a value."

Work to improve diversity awareness in academics can be difficult because both the facts and emotions involved must be understood, says Smith. In the University community, many people have their hearts in the right place but lack sufficient knowledge about diversity, she says. One of the biggest challenges is to understand the difference between commitment and comprehension.

It is a continual process of growth and development, Smith says, "and it moves you out of the comfort level."

"All of us, some more regularly than others, have experienced discrimination and stereotyping," she says. "We need to draw on those experiences to help people realize this is not an issue of them against us but an opportunity to think differently."

One person committed to diversity in the curriculum will not change the institution overnight, Smith says. However, one person can make a difference. ▲

The Diversity Across the Curriculum Office is on the fourth floor of Hannibal Hamlin Hall.

Economics *continued from page 9*

Markowsky's ability to see possibilities and potential at virtually every turn is fostered by his interdisciplinary interests and scholarship that take him around the world. This year alone he was in Korea as an invited speaker at the dedication of the Computation and Combinatorics Center of Pohang Technical University, one of Asia's leading technical universities; in Birmingham, Ala., participating in the Bioterrorism 2000 Conference, looking at the role of technology, including superconducting, in crisis management; and in France to meet with an international group of artists to organize cross-disciplinary art/science events that will explore the use of the Internet for global interactions.

Markowsky says he has learned most about the interaction between research and development, and about risk taking from an unconventional thinker, Richard Morley, the inventor of the programmable logic controller, which is now used in every modern factory in the world. Morley, a leading visionary in the field of advanced technological development, is the founder of high-tech R&D companies that have provided groundbreaking innovations.

Markowsky's own entrepreneurial inroads began with Trefoil Inc., a software development firm based in Orono. Today, the 6-year-old company has eight employees.

"We need more high-tech companies in Orono like SRD, Trefoil and, most recently, EnvisioNet so students who want experience and work don't have to go to Boston," he says. "Professional work experience is a valuable complement to academic work. I hope down the road that Orono will have a critical mass (of software companies) to provide job opportunities for students."

A spin-off from Trefoil is Ayers Island, LLC, which has an agreement with the town of Orono to lease and then purchase the 62-acre parcel of land that, up until five years ago, was the site of a large textile mill. The goal is to develop a commercial R&D facility on Ayers Island that will work closely with the University of Maine to commercialize new research.

According to Markowsky, it will be a tech park unlike any other. "My vision is that it will be a place that celebrates creativity and provides facilities to benefit this region," he says. "I also want a place where technologies that are commercially significant can then become commercially viable."

Markowsky admits that he is still learning a lot about business and economic development. "That's a good thing because the rule I violate all the time is to be focused on a specific goal," he says.

"I don't recommend anyone do business the way I've done it. This is neat but a little expensive. But that gets into why you're doing it. To me, business is an adventure, especially trying to figure out how to weave all the threads together into a consistent picture." ▲

Who likes raking leaves?

We do! UMaine's Landscape Horticultural Society is sponsoring a Fall Clean Up as a fund-raiser to benefit the student organization's many events, including the Bangor Garden Show, New England Grows and annual Seedling Sale.

Rather than applying a set cost to each job, donations are welcome. Appointments are available on a first-come, first-serve basis.

Fall Clean Up is 10 a.m.-2 p.m., Saturday-Sunday, Nov. 4-5, weather permitting.

Call Mary Fernandez, 581-2938, for a Fall Clean Up appointment.

