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UMaine to Institute a Winter Session

Beginning with the 1996-97 academic year, the University of Maine will offer classes year-round with the introduction of Winter Session in an effort to enhance accessibility, recruitment and retention.

"Winter Session will give students and faculty more options," according to Jim Toner, acting CED director. "Our vision is that Winter Session 1996 will be quite modest. Like May Term in which we now offer 100 courses, it could one day be a popular session."

Faculty across campus will have the option to offer existing or new courses during the three-week break that occurs between the fall and spring semesters. This coming academic year, Winter Session courses could begin as early as Dec. 23 and run through Jan. 10. Similar to May Term, courses of one to three credit hours can be offered over periods of a few days, a week or multiple weeks.

In past years during semester break, some academic departments have offered short courses, including those that take students for in-depth study at such sites as Baxter State Park and the Florida Everglades. However, this is the first time that the Continuing Education Division will coordinate the course offerings campuswide, as it does for May Term and Summer Session.

Winter Sessions are common throughout colleges and universities in the country, according to Alison Cox, director of Student Records. "They help students and provide another source of revenue for the institution," she says.

At the University of Delaware, 500 undergraduate and 50 graduate courses are offered during its five-week Winter Session. Like UMaine, the University of Miami only has a three-week semester break, and 35 courses are scheduled.

The initiative to offer a winter term at UMaine resulted from discussions last year by the Enrollment Advisory Committee. Winter Session has since received endorsement in the form of a University Retention Minigrant that will make small stipends available to faculty to underwrite planning costs of courses designed to enhance racial and cultural diversity.

"From the faculty perspective, Winter Session could be a time to test a course considered more experimental and (logistically difficult) to offer during a regular semester," Cox says. "Here they could offer one- or two-credit courses in some specialized topic. Winter Session is also an

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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.



Todd Greenquist as Eisenstein, Karen Pendleton, center, as Rosalinda, and Elena DiSiervo as Adele are among the cast of 29 in the upcoming performances of *Die Fledermaus*, a joint production of the School of Performing Arts and the Maine Center for the Arts. Performances are at 8 p.m., Friday-Saturday, Feb. 23-24 in the Hutchins Concert Hall. Tickets are available by calling the Maine Center for the Arts box office. In this, the first collaborative effort between the School and the MCA, Tom Mikotowicz is director of the comic operetta, and Lud Hallman is musical conductor.

Photo by Kathryn Rice

Maine Perspective

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Safe Zone Wing One of Many Residential Housing Options

Beginning this fall, the University of Maine will offer a residence hall section for gay, lesbian, bisexual and transgendered students, and their allies, known at UMaine as a Safe Zone – one of 10 such lifestyle housing options for on-campus students.

Campus Living has offered students the opportunity to create community sections for more than 15 years. In addition to co-ed residence halls, wings have been designated for students in engineering, science and graduate school; halls and floors have been specified for non-smokers; there are quiet sections and chem-free wings; a hall for women only; apartment-style complexes; and a dining cooperative in a hall. Such lifestyle options sections provide students with a forum of like-minded peers for educational and emotional support.

For the Safe Zone wing, 10 double rooms have been designated as singles on the second floor of Knox Hall. Students who proposed the Safe Zone hope it will become a positive location for these groups, as well as a receptive place for people who support them.

"On an individual level, once you are outed or become out in the dorms, a lot of social changes happen and the living environment can become very stressful. (The Safe Zone) is a very significant step being taken at the University of Maine to ensure that all students are allowed to pursue their education with minimal amount of interference," says Randy Bradley, a second-year biology major from Revere, Mass., who helped propose the section.

Enabling students to establish sections tailored to their academic interests and lifestyles is intended to transform what could be an uncomfortable situation into one in which students feel at home. Whether it be a cluster of engineering and science majors, a chemical-free corridor or the Safe Zone, the principle is the same: a comfortable and supportive living environment facilitates a more satisfying academic and collegiate experience.

"Residence halls are communities. There are common links among people who live in communities that reinforce and support those communities," says Barbara Smith, associate director of Campus Living, Residence Life. "The philosophy is that we are trying to build communities and connect students with other students who are looking for similar lifestyles — helping people find and feel part of a community."

"We want to ensure that gay, lesbian, bisexual and transgendered students know there is a place for them to live on campus and that they don't have to give up the convenience of living on campus just for their own peace of mind," Bradley says.

The Campus Living lifestyle options provide more formality to the process of clustering, which Smith says occurs naturally on college campuses. For example, six students requesting an apartment in York Village or a suite in Doris Twitchell Allen Village already have certain interests or values in common. Students in certain majors tend to group in residence halls near buildings

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AUBG PROVOST TO VISIT CAMPUS

Barry Chambers, provost of the American University in Bulgaria (AUBG) will visit the University of Maine Tuesday–Wednesday, Feb. 20–21. Chambers is available for a "drop-in" visit from faculty, staff and students from 2:30–4 p.m., Wednesday, at the Honors Center. Feel free to come by and meet him. For more information, contact the Academic Affairs Office, x1519.



Professor of Zoology Mary Tyler

Photo by Kathryn Rice

Studying Organisms in Their 'Experimental Playground'

Slime molds and fruit flies fall into that category of life forms most of us would probably prefer to do without. The flies invite a swat as they rise from an overripe banana to hang in midair three inches from your nose. As for the slime molds, who has seen them? Paradoxically, they are neither slime nor mold, but never mind. Don't hold your breath for the color poster announcing slime mold month.

However, for Mary Tyler, University of Maine Professor of Zoology, slime mold, fruit flies and even chicken embryos are stars in a micro-universe, shining in their ability to demonstrate the processes of growth and development at the cellular level. As a teacher, Tyler invites her students to explore the mysteries of life in what she calls the "experimental playground."

The residents of Tyler's microscopic world have colorful names: fruiting bodies, spermatocytes and gastrulating

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There is one issue of *Maine Perspective* remaining before March Break. *Maine Perspective* will be published Feb. 26. The next issue will be published March 18.

Maine Perspective

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University of
Maine

U Maine Calendar

FEB. 21 – MARCH 1

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

Both locations of the University Credit Union will be closed Monday, Feb. 19 to observe President's Day. The Rangeley Road location drive-up will reopen Tuesday, Feb. 20, at 7 a.m.; lobby at 9 a.m. The Memorial Union branch will open Wednesday, Feb. 21, 9 a.m.-1 p.m.

21 Wednesday

Marine Science on the Internet, an Internet Workshop offered by Fogler Library, 10 a.m.-noon, Feb. 21, Computer Instruction Room, Library. Pre-registration required. x1678.

"Russian Poetry Fest," a bilingual reading coordinated by Rex Pyles, part of the Poetry Free Zone series, noon, Feb. 21, Honors Center. x1441.

Ecumenical Service, noon, Feb. 21, Bangor Lounge, Union. x1734.

"Terrorism in the World and the United States: Oklahoma City and Beyond," by Kyriacos Markides, part of the Sociology Luncheon Series, noon-1:30 p.m., Feb. 21, FFA Room, Union. x2380.

Education's Leaders Assess the Future, a videotape of proceedings from the conference: "Assessing the Environment for Public Higher Education," featuring a presentation by Judi Bailey and David Brown, offered by the Division of Student Affairs, 3:15 p.m., Feb. 21, FFA Room, Union. x1820.

"Cross Cultural Issues In Teenage Women's Sexuality," by Sandra Caron, part of the Women in the Curriculum Program Lunch Series, 12:15-1:30 p.m., Feb. 21, Bangor Lounge, Union. x1228.

"Optimism: Is Your Cup Half Full or Half Empty?" part of the NTS Topics series, Feb. 21, Davis Room, Union. x1820.

Do-It-Yourself Database Searching Workshop, focusing on science and engineering databases, 2 p.m.-3:30 p.m., Feb. 21, Science and Engineering Center Office, Fogler Library. Free/preregistration required. x1679.

"UV Photobiology on the Great Barrier Reef: Adventures on the Dark Side of Sunlight," by Malcolm Shick, offered by Support for Science Students, 6:30 p.m., Feb. 21, Oxford Hall Lounge.

Movie: *El Mariachi*, offered by the Union Board, 7:30 p.m., Feb. 21, 101 Neville Hall. x1734.

22 Thursday

Uncover Journal Database, Internet Workshop offered by Fogler Library, 10-11:30 a.m., Feb. 22, Computer Instruction Room, Library. Pre-registration required. x1678.

"Impact of the Republican Contract with America," with Karen Keim, Maine Educational Opportunity Center: Impact on Education; Cliff Rosen, chief of medicine, St. Joseph Hospital: Impact on Healthcare; Charles O'Leary, president, Maine AFL-CIO: Impact on Labor; moderator - Ilze Petersons, coordinator, Peace & Justice Center of Eastern Maine, part of the Socialist and Marxist Studies Luncheon Series, 12:30-1:45 p.m., Feb. 22, Bangor Lounge, Union. x3860.

"Violence and Abusive Behaviors in the Workplace," part of the PEAC Brown Bag Seminar Series, noon-1:15 p.m., Feb. 22, Totman Lounge, Union. x3229.

"Pre-Image Entropy," by Marc Goulet, University of Wisconsin-Eau Claire, a Department of Mathematics Colloquium, 3:10 p.m., Feb. 22, 421 Neville Hall. x3900.

Noam Chomsky: Bringing the Third World Home - The Domestic Politics of the GOP Right, part of the Peace and Justice Film Series, 7 p.m., Feb. 22, 100 Corbett Business Building. x3860.

Million Man March: Video and Discussion, part of Black History Month, 7 p.m., Feb. 22, Union. x1405.

Women's Basketball: UMaine vs. Boston University, 7:30 p.m., Feb. 22, Alford Sports Arena. Admission fee. xBEAR.

Thursday Night at the Bear's Den with Big Bad Bollocks, offered by the Union Board, 9 p.m., Feb. 22, Union. x1734.

23 Friday

Performance by Song X Jazz Combo, part of the Union Board TGIF music series, 12:15 p.m., Feb. 23, Bangor Lounge, Union. x1820.

Intermediate Word, Tables & Columns, a CIT Windows workshop, 1-3 p.m., Feb. 23, 111 Corbett Business Building. Preregistration/fee. x1649.

"Entropy of Dynamical Systems," by Marc Goulet, University of Wisconsin, a joint colloquium of the Departments of Physics and Astronomy, and Mathematics, 3:10 p.m., Feb. 23, 140 Bennett Hall. x1039.

The annual Beta Sleep Out will be held Friday, Feb. 23. Now in its third year, the Sleep Out, sponsored by Beta Theta Pi, is a fund-raising event for the Bangor Homeless Shelter. Fraternity members will sleep outside in front of their house from 7 p.m.-7 a.m., with cardboard boxes for shelter. Beta members will be joined by other students, including Greeks, area residents and faculty. Last year, Beta raised more than \$3,000 for the Shelter; this year, the goal is \$4,000.

Comedy Café with Mike Bent and Steve Walker, offered by the Union Board, 9 p.m., Feb. 23, Damn Yankee. Admission fee. x1734.

24 Saturday

Women's Basketball: UMaine vs. Northeastern, 3:30 p.m., Feb. 24, Alford Sports Arena. Admission fee. xBEAR.

Movie: *Desperado*, offered by the Union Board, 6:30 p.m. and 9:15 p.m., Feb. 24, 100 Corbett Business Building. Admission fee. x1734.

Men's Basketball: UMaine vs. Northeastern, 7:30, Feb. 24, Alford Sports Arena. Admission fee. xBEAR.

ACTIVE COMMUNITY TRAINING FOR ECONOMIC JUSTICE

9:30 a.m.-5 p.m.,

Saturday, Feb. 24

Damn Yankee, Union

(snow date Feb. 25)

9:30 a.m. Opening Remarks

10 a.m. "The Growing Divide: Exploring the Roots of Economic Insecurity," a workshop facilitated by Felice Yeskel of Share the Wealth, Boston

1 p.m. Lunch, opportunity to share information and to network

2 p.m. Strategy Sessions

4 p.m. Music by Solstice

5 p.m. Closing

For more information, call the Peace & Justice Center, 942-9343. Sponsored by the Department of Social Work, and numerous campus and community groups.

Ongoing Events

Conferences/Seminars/Workshops

Microstation User Group Seminars, hands-on CAD seminars, offered by Facilities Management, 3:30-6 p.m., Feb. 27, March 12 and March 26, 111 Corbett Business Building. Preregistration required. x2683.

Navigating the Internet, Internet Workshops offered by Fogler Library, 10 a.m.-noon, Feb. 29; 10 a.m.-noon, March 6; 6-8 p.m., March 26; 2-4 p.m., April 8, Computer Instruction Room, Library. Pre-registration required. x1678.

Advanced Internet Searching, Internet Workshops offered by Fogler Library, 9:30-11:30 a.m., March 21; 3-5 p.m., April 11, Computer Instruction Room, Library. Pre-registration required. x1678.

Government Information on the Internet, Internet Workshops offered by Fogler Library, 9:30-11:30 a.m., Feb. 20; 1:30-3:30 p.m., March 25, Computer Instruction Room, Library. Pre-registration required. x1678.

Beginning Welding, a nine-week CID course offered by Ben Dresser of the Department of Bio-Resource Engineering, 7-9 p.m., Tuesdays, Feb. 20-April 16. Registration/fee. x3414.

Introduction to SAS, a two-part CAPS seminar with Wayne Persons, 3:30-5:30 p.m., Feb. 21 and Feb. 28, 107 Corbett Business Building. x3524.

Business Resources on the Internet, Internet Workshops offered by Fogler Library, 2:30-4:30 p.m., Feb. 28; 10 a.m.-noon, April 17, Computer Instruction Room, Library. Pre-registration required. x1678.

Entertainment

"Our Sky Family," a Planetarium show, 2 p.m., Feb. 21 and Feb. 23, Wingate Hall. Admission fee. x1341.

"Worlds of Wonder," a Planetarium show, 7 p.m. Friday, through Feb. 23 and March 22-26, Wingate Hall. Admission fee. x1341.

Die Fledermaus, an opera by Johann Strauss, directed by Tom Mikotowicz, with music conducted by Ludlow Hallman and vocal direction by Nancy Ogle, part of the Maine Masque Series of the School of Performing Arts, 8 p.m., Feb. 23-24, Hutchins Concert Hall. Admission fee. x1773.

"Follow the Drinking Gourd," a Planetarium children's show, 2 p.m. Sundays, through Feb. 25, Wingate Hall. Admission fee. x1341.

"Where Is Little Bear?" a Planetarium children's show, 1 p.m., Feb. 20 and Feb. 22; 2 p.m. Sunday, March 17-31, Wingate Hall. Admission fee. x1341.

Student-directed Touring Shows, part of the Maine Masque Series of the School of Performing Arts, 7 p.m., March 22-23; 3 p.m., March 24, Cyrus Pavilion. Admission fee. x1773.

Exhibits/Demonstrations/Tours

Between the Covers: Book as Artwork, Owen Smith and Company, a University of Maine Museum of Art exhibit, through March 3, Hole in the Wall Gallery, Union. x3255.

Art Faculty Annual, a University of Maine Museum of Art exhibit, through March 29, 1938 and Carnegie Gallery and the 1938 Gallery, Carnegie Hall. x3255.

Waldo Peirce: Places and People, a University of Maine Museum of Art exhibit, through April 26, Hauck Auditorium Gallery, Union. x3255.

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

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

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

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

Meetings of Groups/Organizations

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

Smoking Cessation Group, meets every Monday and Thursday, 4-5 p.m., offered by Health Impact Group. x6125.

Maine Peace Action Committee meets every Tuesday, 4 p.m., Virtue Room, Maples. x3860.

Earth Week Planning Committee meets every Wednesday, noon, Union. Most meetings in the 1912 Room. x3777.

Women's Center, open to all students interested in sharing opinions, responses and ideas concerning women's issues, meets every Wednesday, 3-4:30 p.m., Women's Resource Center, 101 Fernald Hall. x1508.

FAROG: Le Club Francophone, meets every Wednesday, 7 p.m., Franco-American Center. x3764.

PEAC - Professional Employees Advisory Council, meets the first Thursday of every month, FFA Room, Union.

Association of Graduate Students meets twice a month, noon, Lown Rooms, Union. x4548.

Nontraditional Student Coffee Hour, every Thursday, 3 p.m., Commuter Lounge, Union. x1820.

Prisoners of Gender, every Friday, 1:15 p.m., Davis Room, Union. 827-8118.

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

Religious Worship

Newman Center/Our Lady of Wisdom Parish Weekly Liturgy: Sunday, 9:30 a.m. and 6:15 p.m., Newman Center, 11:30 a.m., Bangor Lounge, Union; Monday-Thursday, 4:45 p.m., Newman Center. 866-2155.

Orono Friends Meeting (Quaker), every Sunday, 10 a.m., Orono Community Center, Bennoch Road. 942-7255.

Protestant Ecumenical Worship, 11 a.m. worship with gathered community; 5 p.m. meditation and community prayer; 5:45 p.m. home-made soup and bread served; 6:30 p.m. Sojourners - intentional community gathered for African Bible Study, all on Sunday, Wilson Center 866-4227.

Hindu Prayer Meeting, contact Arvind Sharma, 866-0304.

"Life Stories" Brown Bag Lunch with Rev. Deborah Adams, 11 a.m.-1 p.m., every Monday, Memorial Room, Union. x1734.

Taste of Home Potluck, bring a favorite dish to share, every Thursday, 5:30 p.m., Wilson Center, 67 College Ave. 866-4227.

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

Wilson Center, open as a place for solitude, study and gathering, 8 a.m.-9 p.m., daily. 866-4227.

Dances of Universal Peace, participative Meditations in Motion, offered by St. James' Church, the second Friday of every month, 7-9 p.m., Canterbury House, corner of College Avenue and Chapel Road. 866-7918.

Miscellaneous

Study Abroad Resource Room, open noon-4 p.m., Monday-Friday, third floor, the Maples. x2905.

Peace Corps Office open 1-4 p.m., Monday; 10 a.m.-2 p.m., Wednesday; 9-11 a.m., Friday, or by appointment, Career Center, Chadbourne Hall. x1366.

Income Tax Preparation Assistance, for students, senior citizens and persons with disabilities, offered by College of Business Administration students in the VITA program - Volunteer Income Tax Assistance, 3:30-5:30 p.m., every Tuesday and Thursday, 113 Corbett Business Building. x1982.



Monday, Feb. 19, 11 a.m.-3 p.m.
Tuesday, Feb. 20, noon-7 p.m.
Wednesday, Feb. 21, 11 a.m.-3 p.m.
 South Lown Room, Union

25 Sunday

CINDY BLODGETT ON CBS THIS MORNING

Cindy Blodgett of the women's basketball team will be featured on *CBS This Morning* on Sunday, Feb. 25. Maine humorist Tim Sample will profile Blodgett during his "Postcards from Maine" segment. *CBS This Morning* airs at 9 a.m., WABI-TV, Channel 5 in Bangor.

Ice Hockey: UMaine vs. Northeastern, 3 p.m., Feb. 25, Alford Sports Arena. Admission fee. xBEAR.

Amanda Garvey (oboe) Junior Recital, part of the School of Performing Arts schedule, 3 p.m., Feb. 25, Lord Recital Hall. x4700.

26 Monday

Hands-on Introduction to E-mail, a CAPS seminar with Eloise Kleban, 8-10 a.m., Feb. 26, 111 Corbett Business Building. Preregistration required. x3518.

Introductory PageMaker, a CIT Mac workshop, 10 a.m.-noon, Feb. 26, Fogler Library Classroom. Preregistration/ fee. x1649.

"Habitat Associations of High Priority Neotropical Migrants in the Southern Appalachians," by John Bartlett, part of the Wildlife Ecology Seminar Series, noon, Feb. 26, 204 Nutting Hall. x2862.

Basic HTML, Internet Workshops offered by Fogler Library, 1:30-3:30 p.m., Feb. 26, Computer Instruction Room, Library. Pre-registration required. x1678.

"Non-First Normal Form Databases," by Curtis Meadow, part of the Computer Science Department Seminar Series, 4:10 p.m., Feb. 26, 115 Corbett Business Building. x3940.

"A Story Program: Thoughts from the Great Irish Famine," by folklorists and musicians Eileen Moore Quinn and Shamus Pender, made possible by the Cultural Affairs/Distinguished Lecture Series, 7:30 p.m., Feb. 26, Damn Yankee, Union.

MEMORIAL UNION MARCH BREAK HOURS

Building:	Monday-Saturday: 7 a.m.-9 p.m. Sunday: Closed March 17: 7 a.m.-11 p.m.	Bear's Den & Coffee Shop: Closed Bear's Den: 3-9 p.m., March 17 Monday-Friday: 9 a.m.-4:30 p.m. Weekends: Closed
Bookstore:	Monday-Friday: 8 a.m.-4:30 p.m. Weekends: Closed	Maine Bound: Monday-Friday, 7:30 a.m.-4 p.m. Weekends: Closed
Computer Cluster:	Monday-Friday: 9 a.m.-7 p.m. Saturday: 10 a.m.-5 p.m. Sunday: Closed March 17: 10 a.m.-on	Newscounter: Weekdays: 8 a.m.-4:30 p.m. Weekends: Closed
Damn Yankee:	Monday-Friday: 7 a.m.-3 p.m. Weekends: Closed	University Credit Union Branch Office: Closed (Visit main office, Rangeley)

27 Tuesday

"Interactions of Molecular Hydrogen from Weak Binding to Chemical Bonding or from Physics to Chemistry," by Juergen Eckert, Los Alamos National Laboratory, New Mexico, a Department of Chemistry Colloquium, 11 a.m., Feb. 27, 316 Aubert hall. x1179.

"Review of Immunoaffinity Chromatography," by Donna Kubilius, a Food Science and Human Nutrition Seminar, 11 a.m., Feb. 27, 14 Merrill Hall. x1621.

"Cover Crops, Green Manures and Living Mulches," by Vern Grubinger, director of the University of Vermont Center for Sustainable Agriculture and Vermont Cooperative Extension vegetable and berry specialist, offered by the Sustainable Agriculture Program, 3:40-5 p.m., Feb. 27, 113 Deering Hall. x2926.

Phi Kappa Phi Spring Business Meeting, 4:10 p.m., Feb. 27, 218 Corbett Business Building.

"Investment Products and Strategies for the '90s," a University Credit Unions Winter Seminar offered by Financial Services of New England, 4:30 p.m., Feb. 27, Credit Union. Reserved seating. x1458.

Red, part of the Not at the Mall Film Series, 6:30 p.m. and 9:15 p.m., Feb. 27, 100 Corbett Business Building. Admission fee. x1734.

Coffee House featuring student artists, offered by the Union Board, 8 p.m., Feb. 27, Peabody Lounge, Union. x1734.

28 Wednesday

"The Extent of U.S. Poverty," by James Gallagher, part of the Sociology Luncheon Series, noon-1:30 p.m., Feb. 28, FFA Room, Union. x2380.

"Century of Challenge, Century of Change: African American Women and Their Organizations," by Cheryl

Townsend Gilkes, MacArthur Associate Professor and director, African American Studies, Colby College, part of the Women in the Curriculum Program Lunch Series and Black History Month, 12:15-1:30 p.m., Feb. 28, Bangor Lounge, Union. x1228.

"Successful Career Strategies," part of the NTS Topics series, 12:15 p.m., Feb. 28, Davis Room, Union. x1820.

"Sustainable Vegetable Production in Vermont," by Vern Grubinger, director of the University of Vermont Center for Sustainable Agriculture and Vermont Cooperative Extension vegetable and berry specialist, offered by the Sustainable Agriculture Program, 2-4 p.m., Feb. 28, 113 Deering Hall. x2926.

"Some Aspects of Jacobi Functions in Harmonic Analysis," by William Bray, a Department of Mathematics Colloquium, 3:10 p.m., Feb. 28, 421 Neville Hall. x3900.

Faculty Senate Meeting, 3:15 p.m., Feb. 28, Lown Rooms, Union. x1167.

"A Practical Guide to the Bhagavad-Gita," by Premananda dasa of the International Society for Krishna Consciousness, Boston, 5:30 p.m., Feb. 28, 370 Stevens. 947-9609.

"The Importance of Transcendental Position of Guru," by Premananda dasa of the International Society for Krishna Consciousness, Boston, 7 p.m., Feb. 28, Peabody Lounge, Union. 947-9609.

Oral Exams

"The Effect of Internal Stress on Paper Roughening," by Don Additon, candidate for master's degree in chemical engineering, 1:30 p.m., Feb. 19, 222 Jenness Hall.

"Aspects of Larval Development, Intershrub Movement, and Nut Infestation by the Hazelnut Weevil (*Curculio obtusus*) Utilizing Discrete Shrubs of Beaked Hazelnut (*Corylus Cornuta*)," by Lucinda Treadwell, candidate for master's degree in entomology, 1:30 p.m., Feb. 20, 311 Deering Hall.

"Sulfur Accumulation in Sediments of Three Seepage Lakes in Hancock County, Maine, USA," by Richard Bindler, candidate for master's degree, 1:30 p.m., Feb. 26, 310 Boardman Hall.

"Desire in the Printed Dream of Poliphilo," by Helena Szêpe, specialist on 15th and 16th century books, University of South Florida, part of the Art Department's "The Book as Artwork" series, 7 p.m., Feb. 28, 102 Nutting Hall. x3245.

Movie: Fast Times at Ridgemont High, offered by the Union Board, 7:30 p.m., Feb. 28, 101 Neville Hall.

29 Thursday

Intermediate Excel, Charting, a CIT Windows workshop, 10 a.m.-noon, Feb. 29, 111 Corbett Business Building. Preregistration/fee. x1649.

"Crop Rotation and Diversity in the Design of Sustainable Farming Systems," by Charles Francis, professor of agronomy and Extension Crops Specialist, University of Nebraska - Lincoln, offered by the Sustainable Agriculture Program, 3:40-5 p.m., Feb. 29, 113 Deering Hall. x2926.

1 Friday

"Farmers as Full Partners in the Design of Sustainable Farming Systems," by Charles Francis, director of the Center for Sustainable Agricultural Systems, University of Nebraska, offered by the Sustainable Agriculture Program, 10-11:30 a.m., March 1, 113 Deering Hall. x2926.

People in Perspective

Mazie Hough has long held an interest in history. As an undergraduate in college she minored in the subject, and almost a decade later, began writing a novel set in 1699 that featured a female protagonist taken from the pages of history. But it wasn't until she and her family became members of the University community that Hough's interests took on added dimension.

Hough's husband, Paul Schroeder, was the first to join the University community when he started his job at Fogler Library in 1986. (He is now pursuing his Ph.D. in the Department of Spatial Information Science and Engineering.) At his urging, Hough took a graduate history seminar and found that much had changed in the academic discipline since she had been in college 15 years earlier.

"When I was an undergraduate, history had little to do with women, and as a result, I didn't know how pertinent women's history was," she says. "Back then we studied primarily political history and it just wasn't relevant to me. But with that first UMaine history seminar, I was hooked. I had found the world of history had opened up, that the history of birth control was as important as the history of the Democratic Party.

"The rest," she says, "is history."

Hough received her master's degree in history in 1991, and began her Ph.D. coursework in American history with a concentration in women's history. In 1992, she was working as a teaching assistant in the History Department and had started her thesis when the staff associate position in the Women in the Curriculum Program was advertised.



Mazie Hough

Photo by Kathryn Rice

History is about understanding the past, whether the dynamics of a 17th century Massachusetts community or a university community. With that understanding, one can then be proactive

"It has to do with women and social activism and change," says Hough of the position she's held for almost four years. "It combines my academic, political and personal interests."

Transforming the curriculum is a continual priority for Hough and the WIC Program, directed by Ann Schonberger. "There is a constant need to keep people reminded that women should be included," she says. "The University keeps changing but you can never relax your vigilance. We still have a long way to go. Even though there are transformed programs throughout the country, some new faculty members still don't take advantage of the opportunities to train in women's issues. On the other hand, a lot of nontraditional students who did not have the opportunity to take women's studies courses as undergraduates are coming back."

Hough describes her role as that of a facilitator, working with members of the University community to initiate programs that reflect women. Her major responsibilities include the organization of the annual Mary Ann Hartman Awards in the fall and Women's History Month every spring – events that give the community an understanding of the achievements of women that have often gone unrecognized, she says.

"Women haven't been valued or considered subjects of history and agents of change," Hough says. "The Hartman Awards honor women. Women's History Month events help us consider the past in trying to understand the future, and get people to

understand the importance of history."

History and Hough's role in women's advocacy in academia often intertwine. Most recently she was one of the researchers on the Feminist Oral History Project that brought together women from across campus to write about the local history and activism of the feminist movement of the '60s and '70s. The oral histories were developed into a performance with the help of Maine Humanities Council grant.

Hough says the performance of the feminist oral history project and her dissertation have led her "to learn new things and to put historic research together to give it shape." Hough's dissertation, "Persistent Traditions: The Community's Response to Unwed Mothers in Maine and Tennessee, 1880-1950," could be completed as early as this summer. Her interest in this area stems from work she began a decade ago on her novel. It all started with an historic reference to the plight of a woman – a one-line mention in a comprehensive history account.

"The book I was writing before I joined the History Department was based on a sentence I ran across while reading the history of Amherst that referred to the first white woman who was hanged in Massachusetts for killing her illegitimate child," Hough says. "I wanted to find out her experience and how things have changed since then.

"In looking for the answers, I was doing historical research but didn't realize it," she says. "I looked at the politics of the time and it was clear that they needed a scapegoat. And I looked at what impact her death had on the community. I was trying to understand the community's response – the dynamics that created the situation.

"History is about understanding the past, whether the dynamics of a 17th century Massachusetts community or a university community. With that understanding," she says, "one can then be proactive."

Common Threads in *Die Fledermaus*



Janet Warner-Ashley, left, and Elena Bourakovsky in the School of Performing Arts Costume Shop.

Photo by Kathryn Rice

Mime Is First Love for Graduate Student

The actor who waits on tables while waiting for the big break is a cliché that Janet Warner-Ashley has, thankfully, escaped.

Since graduating from the University of Rhode Island 20 years ago, she has made a living through her art. And much of that was while she lived in Vermont.

She weighed the possibilities upon graduation, and ultimately followed a friend's suggestion: That she should do what she loved, no matter what it took. It has meant years of uneven schedules spent working with Head Start children one day, giving a nighttime performance the next, and something else again the next.

"What you have to do as an artist in the Northeast is everything," she says. "Everything."

Warner-Ashley now finds herself a graduate student in theatre in the UMaine School of Performing Arts. She commutes from Dover-Foxcroft, where her husband is headmaster of Foxcroft Academy.

"It's a great opportunity to keep learning," she says from the costume shop in the basement of Hannibal Hamlin Hall, where she is taking needle and thread to a dress to be worn by one of the women in the chorus of the upcoming School of Performing Arts/Maine Center for the Arts production of *Die Fledermaus*.

This is her third semester as a graduate student and her second working in the costume shop, where she coordinates rental of UMaine costumes to outside entities such as schools and outside theaters. She works as well in the Hannibal Hamlin basement with costume shop manager Lucia Williams-Young, doing "whatever she needs me to do."

With *Die Fledermaus*, she also takes the stage, portraying Prince Orlofsky — in operatic terms, a "pants role," a male character portrayed by a woman and written for a woman's voice.

In her graduate program she is trying some of everything

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Costuming a Large Cast a Challenge

The 35 or more costumes required for the upcoming School of Performing Arts/Maine Center for the Arts production of *Die Fledermaus* is large by UMaine standards — but not by Elena Bourakovsky's.

That's why, five years after she completed her end of a professional exchange program by working in the Maine Masque costume shop, the Russian native was brought in as a guest costume designer and coordinator.

Sitting in the basement of Hannibal Hamlin Hall, where four racks of costumes consume a large chunk of the costume shop, Bourakovsky refers to an upcoming production of *Oliver!* to be presented in Belfast. The cast of the play — which is being produced by young adults she works with through a Training and Development Corp. program that uses theater to teach life skills and competencies to at-risk youth — numbers 150.

"Volume is not an issue for me at all," says Bourakovsky, who sits and talks for several minutes before rising suddenly to consult on a fitting being conducted a few feet away.

She grew accustomed to large casts long before coming to the United States, while working at The Comedy Theatre in Leningrad.

It was there that she met the man who would become her husband. Bill Raiten, then-director of the New Surry Theatre, was in Leningrad to direct an American play with Russian actors at the theatre. As a costumer, Bourakovsky initially had little contact with him. But he needed an interpreter, and she knew some English. She and Raiten discovered that their fathers were from the same Ukrainian village, Makarovka, near Kiev.

After concluding her exchange program, Bourakovsky spent some time teaching makeup in what at that time was the Department of Theatre/Dance. She and Raiten now live in Blue

continued on page 15

Green Paint in the Ivory Tower

Sea Grant at the University of

Herb Hidu of Alna, former University of Maine shellfish biologist, remembers the moment well. It occurred in the early 1970s in Castine during a meeting between local fishermen, University researchers and state officials. "A man got up in the back of the room and started ripping his shirt off. Really tearing it off. He gets down to his undershirt which had spots of green paint and says to us, 'when was the last time you University people got green paint on your shirt? What gives you the right to come down here and tell us what we can do?'"

Robin Peters (now Robin Alden, Commissioner of the Maine Department of Marine Resources) was present in the audience, Hidu says. "She told me afterwards that she was going to start a newspaper to communicate better with the fishing community. And that was the start of the *Commercial Fisheries News*."

Operating behind the scenes during this incident was a new University of Maine program barely in its infancy. It was known as Sea Grant, the sibling of the well-established land-grant college system. With University and federal funds, UMaine's Sea Grant researchers had embarked on a program to apply the University's talents to the problems of the sea.

As shown in Castine, not everyone was thrilled. Nevertheless, Sea Grant heralded a new, closer relationship between UMaine and the state's coastal communities and marine businesses.

"It was an exciting time," remembers President Fred Hutchinson, who administered the program in the mid-1970s. "We viewed Sea Grant as the vehicle for building the marine dimension of the University. The Center for Marine Studies was established in 1977 to provide an internal focus, and Sea Grant directors around the country were just getting to know each other."

Sea Grant was not UMaine's first foray into these waters. In 1929, the University turned a former federal coaling station on the coast at Lamoine into a marine research laboratory. Through the Depression and the Second World War, it was the site of basic research documenting the rich marine communities of Frenchman's Bay and beyond. Students from throughout Maine and New England spent parts of their summers at Lamoine, just as they do now at UMaine's Darling Marine Center in Walpole.

Earlier marine activities left few marks on the course catalogs or reports. In a 1932 report, Le Director D.B. Young credited former UMaine biologist Gilman Drew, Alice Boring, Edith Wallace and Pearl with building the University's expertise in marine sciences. Drew's reports on giant scallops (1904) and algae (1901) are some of the earliest works on published by UMaine faculty.

Today, UMaine's marine dimension has a long and significant accomplishments and a core of researchers with Maine's diverse marine community. The University of Maine/University of New Hampshire Sea Grant College Program conducts research, outreach and communication activities. In conjunction with units such as Cooperative Extension, the Darling Marine Center, the Department of Oceanography and the Institute, Sea Grant has become a nursery for knowledge which have contributed to developing enormous economic benefits. These include:

- ▼ understanding of the reproductive behavior of sea urchins – new knowledge that led to the establishment of two management zones.

- ▼ an effective treatment for gaffkemia or red spot, which can devastate lobsters held in pounds and create marketing opportunities. Annual benefit: about \$1 million.

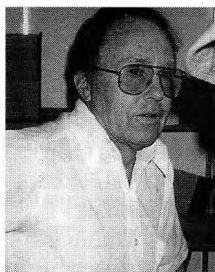
- ▼ techniques for raising oysters, mussels and clams. Combined with services to Maine's salmon aquaculture firms, these efforts supported an industry that generated \$43 million for Maine's economy in 1994. New knowledge on raising groundfish such as haddock and flounder.

- ▼ the annual Fisherman's Forum, a national gathering that brings together draggers, lobstermen, urchin divers, processors and retailers with state and federal government officials. Originated by Sea Grant, now organized and sponsored by fishing organizations, Sea Grant, and UMaine faculty and staff support.

- ▼ the Portland Fish Exchange, which has made the largest port for groundfish landings in New England.

- ▼ improved understanding of and techniques for managing beach erosion and harbor dredging.

"The real payoff," says Robert Wall, UMaine director, "is of a continuing nature. The people generating this new information are tied in with the industry."



Herb Hidu,
Shellfish Biologist

Robert Packie raised oysters along a gradient in the Damariscotta River and showed that you could get a market-sized oyster as fast as anywhere on the East Coast. It turned out that the European oyster couldn't stand the cold temperatures and there were severe losses. Now the companies which survived those disasters have learned and are doing well.



Graduate Student Deanna Prince (right)

You don't just write a grant. You have to present to the experts who have been brought to Maine from various locations. It's a bit intimidating. Here are all these experts lined up at a table, and you have to convince them that your work is important.



Robert Steneck,
Professor of Oceanography

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- ▼ understanding of the reproductive behavior of Maine's sea urchins – new knowledge that led to the establishment of two management zones.
 - ▼ an effective treatment for gaffkemia or red tail, a disease which can devastate lobsters held in pounds and reduce marketing opportunities. Annual benefit: about \$2 million.
 - ▼ techniques for raising oysters, mussels and clams. Combined with services to Maine's salmon aquaculture firms, these efforts supported an industry that generated \$43 million for Maine's economy in 1994. New work focuses on raising groundfish such as haddock and flounder.
 - ▼ the annual Fisherman's Forum, a nationally unique gathering that brings together draggers, lobster harvesters, urchin divers, processors and retailers with scientists and government officials. Originated by Sea Grant, the Forum is now organized and sponsored by fishing organizations with Sea Grant, and UMaine faculty and staff support.
 - ▼ the Portland Fish Exchange, which has made Portland the largest port for groundfish landings in New England.
 - ▼ improved understanding of and techniques for managing beach erosion and harbor dredging.
- "The real payoff," says Robert Wall, UMaine Sea Grant director, "is of a continuing nature. The people who are generating this new information are tied in with the people

who have to deal with marine issues on a day-to-day basis. They serve as a resource for the long haul."

The importance of that continuing relationship is underscored by the nature of problems in the marine environment, adds Wall. "There aren't too many issues I can think of that have been completely resolved over the past 15 years. There has certainly been progress, but the issues are still around. We tend to nibble at the edges. In that light, it's really important to have University faculty who are knowledgeable and willing to pass on that knowledge to people who deal on a day-to-day basis with problems that won't go away."

Lobster management presents just such a problem. While measures such as maximum size limits and the ban on harvesting females with eggs have been around for a while, the industry is entering a new phase which goes by the term "bottom-up management."

"The industry is in the early stages of self-governance," says Jim Wilson, professor of resource economics. "There are things the regional management councils won't address such as v-notching, dragging and size limitations, but they have real responsibilities over things like the number of traps in the water and the number of days fished. This is the first step in devolving responsibility to the fishermen. It's based on the presumption that fishermen have the predominant interest in preserving the resource. It's mutual constraints mutually agreed upon. Up to now, it's been restraints from people at the top."

Herb Hodgkins of Hancock, a former lobster pound owner who now sells feed based on Sea Grant lobster research, credits Sea Grant with improving communication within the industry, and between the industry and academic scientists. "I see quite a difference in the acceptance of new information," he says. "There is good cooperation in research between the industry and the University."

Dave Dow agrees. As former director of the Lobster Institute and now director of marine outreach for Sea Grant, Dow has seen an industry once divided come together. "Twenty years ago, there were the harvesters, the pound owners and the dealers, and they weren't talking to each other, let alone to the university types," he says. "The most important Sea Grant role has been to enhance the communication among people in the fishing industry and the resource managers and academics."



Robert Steneck,
Professor of Oceanography

The Lobster Institute did an awful lot to break down the barriers between apprehensive scientists like myself and the fishing industry. The institute demystified the industry to me, and we found out that we could work and talk together.



Susan White, Kathleen Lignell and MaJo Kelesian of the
Sea Grant Communications office

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Susan White, Kathleen Lignell and MaJo Keleshian of the Sea Grant Communications office

A network of Sea Grant cooperators (state and federal agencies, private labs, universities, industry associations) has spurred that change in attitude, says Tom Duym, director of the Marine Technology Center in Eastport and a UMaine graduate. "Everybody involved had an interest in seeing Maine's fishing community do well. Sea Grant helped organize the network and provided some money for specific projects such as gear development and marketing."

State budget cuts have reduced the ability of marine organizations to participate actively in the network, Duym says, and as a result, Sea Grant has taken on new importance. "Sea Grant is perched on the edge of a new realm," he adds. "Sea Grant people need to be out walking the wharves, going out on the boats, getting blood and gurry on them, and hearing what people are saying. An excellent example is Chris Bartlett (Sea Grant finfish aquaculture specialist based in Eastport). Ask the aquaculture people about Chris and you'll hear about how much he has helped their businesses in the last few years."

In addition to its extension role, Sea Grant is facing numerous scientific challenges, says Wall. These include the restoration of groundfisheries, understanding the function of large marine systems, developing new aquaculture techniques and understanding the cumulative effects of coastal development on the marine environment.

"Open ocean areas are important both for the resources they contain and because they are prime determinants for how coastal waters and estuaries function naturally," says Wall. "The primary source of nutrients to many Maine estuaries, such as the Damariscotta, the Sheepscot, the Kennebec, is probably the open ocean."

"We're headed for payoffs in science in the development of a capability of predicting what's going to happen if you do this or that. That's a long-term goal, and we want to develop the knowledge and tools to do it in effective ways and at appropriate times. Most scientists haven't spent much time thinking about this," he says.

Robin Alden, Maine's Commissioner of the Department of Marine Resources, says with fewer state dollars available

continued on page 15



Robert Wall, Director, Sea Grant

Most of the time, scientists tend to observe and explain. They're very reluctant to go out on a limb and predict what might happen in the future, and rightfully so. Particularly in an area as complex as coastal ecosystems, it is not a simple matter to take an isolated piece and say this is how it functions.

Publications, conferences and educational activities transfer research results to the fishing community, processors and others who use this information regularly.

The CUTTING EDGE

University of Maine Research on the Frontiers of Science

Catching More But Keeping Less

During the open water fishing season, more anglers are heading to their favorite Maine fishing holes and reeling in their catches than a decade ago. However, there has been a dramatic decline in the number of fish people keep, according to a report from the University of Maine and the Maine Department of Inland Fisheries and Wildlife (IF&W).

The report also concludes that most anglers are not deterred from fishing by the statewide mercury advisory but that they do cut back on the number of fish they eat.

The report is based on a survey conducted in 1994 and 1995 by Hugh MacDonald, an assistant scientist in the UMaine Department of Resource Economics and Policy. He worked with Kevin Boyle, associate professor, and Owen Fenderson, fisheries planner, IF&W. Their conclusions are based on responses to questionnaires sent to 5,000 anglers randomly chosen from the 316,494 individuals holding a Maine fishing license in 1994. They received 2,982 responses.

The study found:

- ▼ a 9 percent increase in the number of people who fished lakes, ponds and streams during the open water season compared to results from a similar survey in 1983.

- ▼ a 20 percent increase in the number of fish caught in the same period, with more bass taken than any other species, followed by brook trout, white perch, landlocked salmon and pickerel.

- ▼ a 58 percent reduction in the number of fish kept, with white perch, brook trout, landlocked salmon, bass and lake trout being taken home most frequently in descending order.

- ▼ because of warnings about mercury contamination, 23 percent of anglers did not eat all of the fish they caught. Moreover, only 11 percent of those who knew of the advisory say that it kept them from fishing more often.

"The survey gives us a good idea of what anglers are experiencing out there," says Fenderson. "We've seen similar results in our individual creel surveys, but this is the first time in 10 years that we've taken a statewide look at open water fishing. It allows us to monitor trends, the intensity of the effort and public opinion about fishing issues."

The report also describes the characteristics of people who fish Maine's open waters. They are overwhelmingly male (83 percent) with an average income of just over \$40,000. Of all anglers, 58 percent come from rural areas or small towns, and 23 percent are fully or semi-retired. Most (60 percent) have at least some college or technical school education.

Look Who's On Campus

Charles Francis, an internationally recognized authority on sustainable agriculture, crop breeding, cropping systems, and participatory research and extension methods, will present two seminars Thursday-Friday, Feb. 29-March 1: "Crop Rotation and Diversity in the Design of Sustainable Farming Systems," and "Farmers as Full Partners in the Design of Sustainable Farming Systems." Francis is a professor of agronomy and Extension crops specialist at the University of Nebraska. There he also directs the Center for Sustainable Agricultural Systems. His research includes work in developing countries.

Amphibians Rounded Up

University of Maine wildlife researcher Phillip deMaynadier has built more than a mile of fences in the last three years to corral creatures most of us never see. The objects of his unusual roundups are amphibians – the toads, frogs and salamanders that sleep by day and move by night. These animals hide in the dark, moist places under old logs and beneath thick layers of leaves. In many forests, they are the most abundant group of vertebrates, collectively outweighing all bird species even at the peak of the spring breeding season.

Ultimately, he says, amphibians may prove to be a good indicators of forest health.

"Any organism this abundant is likely to play an important role in ecosystem function," deMaynadier says, "and there's accumulating evidence that that's the case for amphibians. They are important predators of smaller organisms in the soil that, in turn, affect litter decomposition rates. In addition, most amphibians serve as prey for a diverse group of larger organisms in the food chain including birds, mammals and snakes."

Working with Malcolm Hunter, professor of wildlife ecology, deMaynadier has studied the effect of forest harvesting on amphibian populations in Maine. The fences he builds out of plastic window sheeting, called "drift fencing," collect amphibians by forcing them to crawl in a line parallel to the plastic sheet until they fall into harmless traps placed in the soil.

In clear-cut areas, he has found that the abundance of amphibians declines more than two-fold from that found in mature forests. However, he has also shown that amphibians can co-exist with tree harvesting practices, including clear-cutting, if efforts are made to conserve important aspects of their habitat.

"Harvesters can leave more coarse woody debris on the ground," he says. "The animals can seek refuge in these shady spots during dry periods. Debris can include large diameter material which doesn't have to be economically valuable. Defective, diseased or decayed logs and snags still have wildlife value."

Forest managers can also help amphibians by leaving some intact forest habitat as buffers around wet breeding areas. Contrary to popular belief, deMaynadier says, amphibians need more than just the shallow edge of a pond to complete their life cycles. Most species spend a considerable amount of time in the surrounding upland landscape.

Did You Know

- ▼ National Student Exchange is a consortium of more than 130 colleges and universities across the United States and its territories, designed to facilitate exchange opportunities for students among its members.

- ▼ NSE is a low-cost way to study outside one's home state, and to explore graduate or career objectives.

- ▼ NSE students have access to courses or program options not available at home, as well as honors programs and courses, all while experiencing the cultural diversity of the U.S.

- ▼ There is approved credit transferability and program compatibility, and guaranteed access to federal financial aid for eligible applicants. In addition, there is tuition reciprocity across the U.S. and its territories.

- ▼ Participating in NSE provides an opportunity to access multicultural options including historically black colleges and universities, as well as campuses with high percentages of African-American, Asian-American, Hispanic and Native-American enrollments.

Zoology *continued from page 2*

embryos. To guide forays into this strange land, she wrote *Developmental Biology: A Guide for Experimental Study*. This, her first book, was published as a lab manual in 1994 by Sinauer Associates of Sunderland, Massachusetts. Sinauer also publishes the most widely used text in developmental biology, and Tyler's manual has already sold more than 1,000 copies in colleges and universities coast-to-coast and overseas.

The author has illustrated the book with her own computer-drawn images of cell and tissue structures. She deliberately chose to do her own artwork as a means of maintaining accuracy and consistency with the text.

Taken by itself, Tyler's careful treatment of her subject makes the manual useful, but her spirit makes the book inspiring. "Development is a magnificent and mysterious journey that we all participate in until the cold ground claims us," she states in the preface. "The means of travel are well worth our attention."

For teachers and students alike, Tyler makes the journey a personal experience and an opportunity to gain scientific skills. "It is the teacher's role to awaken the curiosity in students. The data students generate are not the bottom line. It's the way they look at the data, the questions they ask," she says.

Tyler lectures and teaches laboratory courses for undergraduates as well as advanced studies in cell and tissue development. She occasionally strays into other topics and climes. She teaches a Zoology Writing Intensive and works occasional summers at the Eagle Hill Wildlife Research Station on the Maine coast at Steuben. Every other summer, she travels to the University of Innsbruck in Austria to teach some of the same material she covers in Orono.

Her manual leaves no doubt about her educational philosophy. "As you embark on your exploration of developmental biology, the most important thing to bring with you is your curiosity. Ask questions, for these will lead to hypotheses, and hypotheses open the mind to discoveries. Keep careful records of your questions and answers. Above all, enjoy exploring," she advises.

Tyler encourages her students to be scientists, "not recipe readers." New knowledge and personal growth don't result, she argues, from performing cookbook exercises. "I never, never say this is the result you should be getting, and I'm delighted when students come up with new experimental results I can't explain. As teachers, we need to allow science to expand in the classroom."

Much of her manual is a guide to science as a practical, even frugal, craft. For those of lighter means, she gives step-by-step instructions for making low-cost tools. Color microscope filters can cost \$100 or more, but students can make them from cellophane for about \$5. A light polarizing system can cost \$500 from a supply company but can be made for less than \$2.

"I don't spend a lot of money on the labs, and I limit the scope of projects to low tech, high intellect," she says. "We look at fertilization in sea urchins, for example, and study the biochemical events that occur in the process. We look at how those events can be altered by something as simple as the sodium concentration in the water. The students try fertilizing eggs in sodium-free sea water. It's a very simple experiment which leads to all sorts of questions."

"We also do experiments which involve everyday experiences. We study the effects of tea, coffee, cigarettes and even aspirin on an organism. It certainly gives the students a different perspective when they see what happens to cells that are exposed to things they themselves use."

While she is foremost a hands-on teacher, Tyler also shares her enthusiasm in other ways. Early last year, she and zoology colleagues John Ringo and Harold Dowse received a \$5,144 UMaine grant to produce an educational video, tentatively titled: *Fly Cycle: the Lives of a Fruit Fly*. The film will be the first to show the life-cycle of this standard classroom organism in detail. Sinauer Associates has indicated its interest in distributing the film.

Tyler, who is also writing a book, *Anatomy of a Fly*, says she is amazed at the lack of straightforward teaching materials about this topic. "Jamie Watler Schnetzer, a graduate student of mine and a lecturer at University College, is my collaborator on both projects. There are plenty of 10-pound tomes around, but we'd like to produce a nice half-pounder, beautifully illustrated."

When not teaching, writing or filming, Tyler collaborates with Ringo and Dowse in research on fruit fly genetics. The team is concentrating on the function of genes involved in circadian rhythms and mating behavior. Even at this advanced level, says Tyler, researchers need a fundamental understanding of the "experimental playground" to interpret research results. ▲

Mime is First Love *continued from page 7*

related to the theatre. But mention "mime" and she shifts into high gear with tales of summers spent in Ohio studying with Marcel Marceau, the master, at the Goldston and Johnson School for Mimes.

"Oh, he's incredible," she says, presenting a glimpse not seen by his audiences. "He talks all the time."

Mime seems to have fallen in the public estimation in recent years, but Warner-Ashley attributes that to the prevalence of street mime, a less-refined version the she distinguishes from classical mime, which descends from Marceau and his predecessors in "The French School."

"Marceau says it's poetry," she says. "It's not linear form — it's poetic form."

And as a practitioner of the classical style, her shows in Vermont always sold out.

In the course of working as an artist, she has brought her talent to mentally challenged youngsters — and on this topic Warner-Ashley, who may use her master's degree to bring theatre into schools, again shifts into high gear. The stories inspire: In an arts program for Head Start youngsters, a girl who would speak to no one but her mother became engaged in a pretend telephone conversation. During an International Very Special Arts Festival performance at Kennedy Center, one of her "normal" dance students forgot the steps and turned to a mentally challenged dancer as a guide.

Mime and movement resonate with such youngsters, says Warner-Ashley, because it exists on a "preverbal" level.

"The things you can do if you don't have the blinders on," Warner-Ashley muses. ▲

EMERGENCY SNOW REMOVAL

While the University consistently works toward expeditious snow removal, there may be situations that pose particular safety problems for students, staff, or visitors who have limited mobility. If you become aware of situations requiring emergency ice or snow removal beyond ongoing efforts, notify Facilities Management, x2671, 8 a.m.- 4:30 p.m., and Public Safety, x4040, evenings and weekends.

Safe Zone *continued from page 2*

where their classes are taught. Option sections do not preclude the diversity of interests and personalities that are part of a college residence hall living experience, according to Smith. Rather, the different options make links students already share more easily identifiable and provide a space for the students to express their commonalities.

"Some of the options are real living/learning centers such as the engineering and science wings. In that context, it is the academic connection that draws those students together. Some of the options are more reflective of how students want to live their lives. There is a certain common expectation among people that is clearly articulated, such as in the quiet and chem-free sections and no-smoking halls," Smith says.

Proposals for different lifestyle options in the residence halls are encouraged by Smith, who says she would like to see many more students come forth with ideas, and who keeps an open mind to consider all proposals. ▲

World Wide Web Watching

The University of Maine World Wide Web Task Force has listed some URLs from the University's official homepages that reflect the range of departments and services connected to the World Wide Web:

Bio-Resource Engineering: <http://www.ume.maine.edu/~bre/>

The Bio-Resource Engineering pages explain what a Bio-Resource engineer is and provide information on the department at the University, including faculty descriptions, and computer and laboratory resources. Also included are links to other BRE resources on the Net.

Maine Lobster Institute: <http://inferno.asap.um.maine.edu/lobster/>

The Maine Lobster Institute is a cooperative program of research and education with the lobster industry at the University of Maine. The pages provide a background on the Institute, lobster facts, and even a quiz about this Maine resource.

Office of Student Financial Aid:

<http://cardinal.umeais.maine.edu/~stuaid/main.html>

This page is designed to help students and their families locate and apply for financial assistance. You will find information on the entire aid process, from the initial application to receipt of funds, as well as pointers to additional sources of financial aid.

University of Maine History Department:

<http://www.ume.maine.edu/~history/>

The Department of History at the University of Maine offers both undergraduate and graduate programs. Its pages describe the Department and also provide links to other Web resources of interest to historians.

School of Performing Arts: <http://www.ume.maine.edu/~spa/>

This set of pages describes the departmental majors offered by the School, introduces the faculty, provides an events calendar and ticket office information, and offers a sneak peek inside the new Class of '44 Building.

Deadline for withdrawing from the University at the end of the second third of the semester is Monday, April 1 at 4:30 p.m. Students who are considering withdrawal from the University should report to Dwight Rideout, dean of Student Services, Memorial Union for information about the correct procedure. Before making a final decision, however, students are urged to explore all possible options which might help them to complete the semester.

Withdrawals from the University during the second third of a semester of classes will result in having courses listed for the current semester as "W."

Book Ends

New & Noteworthy at the University Bookstore

Start collecting that stack of fiction now—Spring Break is only a few weeks away! As that time draws nigh, we will have suggestions for vacation reading, as well as travel guide advice. Until then, here are a few titles to keep in mind.

Fiction:

Hearing Voices—A.N. Wilson. The author continues his saga of the literary Lampitt family, here seen through the eyes of actor and Lampitt biographer Julian Ramsay. The novel opens in the 1960s with the gruesome death of a primary collector of Lampitt manuscripts, then continues in the 1990s, when Ramsay uncovers this murder. Wilson combines mystery, literature and wit with his usual aplomb.

Atticus—Ron Hansen. Atticus Cody travels from the plains of Colorado to the coastal Mexican town of Resurreccion to recover the body of his murdered drifter son. The author of *Mariette in Ecstasy* brings us another lush and suspenseful tale.

Ship Fever and Other Stories—Andrea Barrett. Of this collection of short stories Barrett says, "I wanted to write about the love of science and the science of love—and the struggle to reconcile the two." Many of these are set in the 19th century, and involve both fictional and historical characters, mostly scientists, who are "driven by a devotion to, and an intimate acquaintance with, the natural world."

Nonfiction:

The Same River Twice: Honoring the Difficult—Alice Walker. In a second subtitle, Walker states: "A Meditation on Life, Spirit, Art, and the Making of the Film *The Color Purple* Ten Years Later." She shares with us journal entries, correspondence, essays and articles from that time of personal transition in her life. She asks, "How do the private and the public mesh during periods of intense creativity and stress? In what ways do they support or weaken each other?" During this time, she was awarded the Pulitzer Prize and collaborated with Steven Spielberg, yet was severely criticized and treated with hostility by her own community. This collection also contains the Walker's original screenplay for *The Color Purple*, which was not used in the film.

Fist Stick Knife Gun: A Personal History of Violence in America—Geoffrey Canada. Marian Wright Edelman says that Canada "has never lost touch with the child within himself or the fears of the children around him struggling to reach adulthood in the violent streets of America." He takes us through his childhood world of the South Bronx, and government changes implemented then that have disastrous results now. This is a gripping and shattering summation of youth violence from a premier child advocate with a personal vision for innovative change.

An Anthropologist on Mars—Oliver Sacks. Finally out in paperback for those of you who were waiting, this offers tales from the bizarre and occasionally wonderful world of neurological disorders. In one case, an autistic professor holds a Ph.D. in animal science but is so bewildered by the complexity of human emotion that he feels "like an anthropologist on Mars." This book differs from Sacks' *The Man Who Mistook His Wife for a Hat*; though equally as fascinating, here he focuses on creativity.

PRESIDENTIAL OUTSTANDING TEACHING AWARD

In recognition of the importance of outstanding teaching to the University of Maine, nominations are now being accepted for the 1996 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 to public service. The recipient will receive a medallion and a check for \$1,500.

For this year, deadline for receipt of nominations is March 1. Nomination forms can be obtained from Carole Gardner, Office of Academic Affairs, 209 Alumni Hall, x1617.



Kate Beard, associate professor in spatial information science and engineering, **Max Egenhofer**, associate director of the National Center for Geographic Information and Analysis, associate professor in spatial information science and engineering, and cooperating associate professor in computer science, and **Bheshem Ramlal**, graduate student in spatial information science and engineering, attended the Conference on Environmental Modeling in Santa Fe, Jan. 22-25. Beard presented a paper: "Automated Metadata Collection and Storage." Ramlal presented a paper: "An Alternate Paradigm for Representing Soils Data and Data Quality Information," co-authored by Beard. Beard and Egenhofer also participated in the NCGIA Specialist Meeting on Multiple Roles of GIS in U.S. Global Change Research, Jan. 25-26. Beard was a co-organizer of the meeting and Egenhofer gave an invited talk: "Spatial Data Models."

Bruce Barber, associate professor of animal, veterinary and aquatic sciences, presented: "Impacts of Shellfish Introduction on Local Communities," at the workshop: "Exotic Species: Issues Related to Aquaculture and Biodiversity," sponsored by MIT Sea Grant College Program, Feb. 8, MIT.

Feb. 7, **George Markowsky** addressed an audience of about 400 people at the Greater Portland Chamber of Commerce on: "The Internet Comes to Maine."

Alfred Leick, associate professor in spatial information, presented a two-day workshop on modern GPS satellite positioning at the New Jersey Surveyor's annual meeting, Atlantic City, Feb. 1-2. The focus was on techniques that utilize differential corrections transmitted from dedicated surveying stations, geostationary satellites, or that are part of FM radio signals.

William Whitaker, professor of social work and baccalaureate program coordinator, School of Social Work, participated in Odyssey Forum discussions of the future role of the federal government in social welfare, Washington, D.C., Jan. 26-27. He also participated in meetings of the boards of directors of the Association of Baccalaureate Social Work Program Directors and the Council on Social Work Education (CSWE) in Washington, D.C., Feb. 12-18. With Grace Braley he presented at the CSWE Annual Program Meeting Arts Festival an exhibit of photographs of Mexican street children taken during his fall 1994 sabbatical in Mexico City.

Max Burry, president of the General Alumni Association, was re-elected as treasurer of CASE District I in January. The Council for Advancement and Support of Education serves institutional advancement professionals in secondary and higher education. District I includes New England and the maritime provinces of Canada.

Professor **Dennis Cox**, Music, was the invited guest choral conductor of the District 10 Fairfax County Music Festival Concert Choir. The event was held Feb. 9-10, Hayfield High School, Fairfax County, Virginia.

UMaine Extramural Awards

Terry Haines and **John Moring** of the Department of Zoology have been awarded \$85,860 (year 1) by the National Biological Service for a project: "Factors Affecting Food Chain Transfer of Mercury in the Vicinity of the Nyanza Site, Sudbury River, Massachusetts." This study will collect information on total and methyl mercury concentrations in water, sediment, invertebrates, and fish in reference and contaminated sites in the Sudbury River. The project will help determine the importance of sediment reservoirs of mercury in the continuing contamination of fish and wildlife resources in the river.

Richard Jagels and **Jobie Carlisle** of the Department of Forest Ecosystem Science and Ellen Doering, Maine Department of Environmental Protection, have been awarded \$17,295 from the DEP and Northern Oxford County Coalition for a project: "Chemical Determination of Valley Fog in Northern Oxford County, Maine." The study will characterize the chemistry and dynamics of fog in the Androscoggin River Valley between Dixfield and Rumford, an area with significant industrial and mobile sources of air pollutants.

Stephen Norton of the Department of Geological Sciences has been awarded \$2,500 from the National Research Council for a project: "The Dynamics of the Biogeochemistry of Beryllium (Be)." Funds supported the travel and per diem of Joseph Vesely of the Czech Geological Survey for a two-week visit to Orono. During his stay, he visited field research sites in Maine and collaborated with the principal investigator in writing a grant proposal to the National Science Foundation on beryllium biogeochemistry. Field visits are planned for the Czech Republic in June.

Per Garder of the Department of Civil Engineering has been awarded \$16,000 by the Maine Department of Transportation for a project: "Roundabouts for Improved Safety and Environmental Quality." The primary objective of this project is to inform the Maine DOT of an efficient and safe intersection design which has rapidly spread from Britain to Norway, Germany, France, Sweden, and Australia but remains virtually unknown in the United States. Not to be confused with traffic circles currently used in Maine, roundabouts have greater traffic capacity and shorter delays at the same time as they give higher safety levels for all road-user categories.

Doug Maguire of the Department of Forest Ecosystem Science been awarded \$15,000 from the USDA - Forest Service for a project: "Characterization of Carbon and Decay in Coarse and Woody Debris in New England Forests." The carbon content of coarse woody debris on the forest floor will be measured and related to its stage of decay. Results will be incorporated into models by which forest scientists hope to improve their understanding of the global carbon cycle.

Raymond Fort, **François Amar**, **Alice Bruce** and **Bruce Jensen** of the Department of Chemistry have been awarded \$29,216 from the National Science Foundation for a project: "Molecular Modeling in Undergraduate Laboratories." The equipment will allow the Department to introduce undergraduate and graduate students to the computer estimation of molecular properties. Molecular modeling is a relatively new technique which allows expensive and potentially hazardous wet chemical experiments to be replaced by quick, clean computer processes.

Roy Turner of the Department of Computer Science has been awarded \$113,600 by the National Science Foundation for a project: "An Intelligent Reactive Controller for Ocean Science Autonomous Underwater Vehicles." This project was transferred from Northeastern University and seeks to develop intelligent control techniques for autonomous underwater vehicles (AUVs) so that they may perform missions for ocean scientists.

Edward Grew and **Charles Guidotti** of the Department of Geological Sciences have been awarded \$92,971 from the National Science Foundation for a project: "Collaborative Research: The Boron Budget in High-Grade Pelitic Metamorphic Rocks: How, When and Where Does the Boron Go?" Investigators will study the chemical transport of boron as a result of geologic processes in the mountains of western Maine and other locations worldwide. The results will improve understanding of mineral formation and processes occurring in rocks deep in the earth's crust.

Positions Available

The qualifications within the listings below are greatly abbreviated. In order to assess your background relative to the job and to submit the most effective application, contact the hiring department for more complete information.

To appear in the Maine Perspective, advertisements must be submitted to the Office of Equal Opportunity, 318 Alumni Hall, no later than noon on Wednesday. Guidelines for filling professional positions are available by contacting the Office of Equal Opportunity, x1226. A Request to Fill form must be approved before posting in Maine Perspective.

English as a Second Language: Lecturer, Intensive English Institute. Fiscal-year appointment, contingent on funding. Qualifications: M.A. in TESOL or related field. At least 3 years of full-time ESL/EFL teaching experience with adult students in academic or specific purposes; at least 1 year of experience in program development and administration; demonstrated excellence in teaching in content areas: native-like English proficiency; intercultural experience and sensitivity, preferably second language proficiency; and evidence of achievement in one or more of the following areas: curriculum and materials development, particularly in content areas and/or technical writing and transitioning to English composition; ITA training; advanced level EAP and ESP; and excellent organizational and writing skills, preferably successful grant-writing experience. Salary Range: \$28,000-\$31,000. Start Date: Early May, no later than May 6. Review of Applications: Will begin 2/26/96. Contact: Janis Williamson, Intensive English Institute, University of Maine, 5703 Hannibal Hamlin Hall, Orono, ME 04469-5732.

Research Assistant II, Margaret Chase Smith Center for Public Policy. Full-time, six-month position with continuation contingent on external funding. Qualifications: Minimum requirements of a master's degree in public administration or related field, and demonstrated skills in conducting applied social science research related to youth and youth mental health systems. Experience in collection, management and analysis of quantitative and qualitative data; program evaluation; interacting with a variety of individuals regarding sensitive information; use of a variety of Windows applications, as well as knowledge of community-based change initiatives, are preferred. Salary Range: \$26,000-\$34,000. Review of Applications: Will begin immediately and continue until a suitable applicant is found. Contact: Charles Morris, Chair, Search Committee, University of Maine, 5715 Coburn Hall, Orono, ME 04469-5715.

Director for University of Maine Cooperative Extension. Fiscal-year appointment reporting to the vice president for Research and Public Service. Qualifications: Earned doctorate; successful administrative experience, including fiscal management; demonstrated collaborative leadership abilities and communications skills; demonstrated ability to work with diverse groups; evidence of innovative, creative and collaborative accomplishments; thorough understanding and knowledge of the role of Cooperative Extension as it relates to counties, the university, the state, the land grant system, and the United States Department of Agriculture. Cooperative Extension experience is highly desirable, but not required. Review of Applications: Will begin 3/31/96. Contact: Timothy Griffin, Chair, Search Committee, Office of Research and Public Service, University of Maine, Room 201, 5703 Alumni Hall, Orono, ME 04469-5703.

THE UNIVERSITY OF MAINE - UNIVERSITY OF NEW BRUNSWICK EXCHANGE PROGRAM

We are now in year one of the fourth 3-year exchange program established between the University of Maine and the University of New Brunswick.

Funds are available to support UMaine faculty, professionals, and students in collaborative research, seminars, symposia, and cooperative instruction with their UNB counterparts.

Faculty and professional employees are invited to submit proposals for funding in academic year 1995-96. For an application form, contact Amy Morin, x4220.

For further information and submission of proposals, contact: Stephen Hornsby, Canadian-American Center, University of Maine.

Assistant Professor, Mathematics Education, College of Education. Tenure-track position. Qualifications: Earned doctorate (with at least one degree or equivalent coursework in mathematics) and pre-collegiate teaching experience is required. Preference will be given to applicants with successful teaching experience in preservice teacher preparation, integrating instructional technology, and an interest in and sensitivity to working with public school teachers in a rural setting. Successful experience in grant writing and collaborating with public school personnel and university faculty in other disciplines is desirable. Review of Applications: Will begin 3/1/96 and continue until position is filled. Contact: Brenda Power, Mathematics Education Search Committee, University of Maine, 5766 Shibles Hall, Orono, ME 04469-5766.

Assistant Director/Counselor, Upward Bound Regional Math-Science Center. Twelve-month, fiscal-year appointment, contingent on funding. Qualifications: Master's degree in educational administration, human services or a related field; demonstrated success in counseling adolescents, teaching or a related field; demonstrated managerial ability; and excellent verbal and interpersonal communication skills are required. Extensive travel is required throughout New England. A degree in science is highly desirable. Ability to develop excellent relationships with project staff, students, the University and target schools and communities. Salary Range: \$30,000-\$34,000. Deadline for Applications: 3/8/96. Contact: Alan Parks, Director, UBRMSC, University of Maine, Room 228, 5713 Chadbourne Hall, Orono, ME 04469-5713.

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.

Classified Ads



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

FOR SALE

FREEZER LAMB AND BEEF: Call for prices. Witter Center, University farm, x2793.

HOUSE: Orono/Old Town, gorgeous one acre on Stillwater River, one mile to campus. Three-bedroom cape with large rooms and wood floors. 11 Old Mill Road. Shown by appointment. 827-0083.

HOUSE: Old Town - 3-5 bedroom ranch; 1 1/2 baths, 2-car garage, perennial & herb gardens, large vegetable plot, quiet

neighborhood on dead-end street, close to schools. Asking \$89,000. Call 827-2136.

NORDIC TRACK WALK-FIT: Aerobic exerciser with computer, new condition, \$350. 827-1282, evenings.

STOVE: Hotpoint stove in good working condition. Black with stainless top, grill and griddle inserts. \$115. Call 884-8493.

WOOD STOVE: Alpine, 30"x26"x22", excellent quality and condition. Use as fireplace insert or stand-alone. Call 866-5548.

FOR RENT

APARTMENT: 11 Michael Street, 1 mile from campus on large picturesque lot by Stillwater River, very clean, 2 bedrooms, 2nd floor, unfurnished, washer/dryer, w/s paid, \$400/month. 989-3048.

APARTMENT: 15 Glenwood Drive, Bangor. Two-bedroom, very quiet, many closets, carpeted, mini-deck, coin-op washer/dryer in large basement with storage. Almost new building. \$535/month. Call Ben, 827-8539 evenings.

TOWNHOUSE: Attractive, tri-level condominium. Furnished, carpeting throughout, 3BR, 2 1/2 baths, fully appliances kitchen, washer-dryer, basement. 1,800 sq. ft. Five-minute walk to UMaine. Available Aug. 1, \$750/month. Call 866-0197.

Winter Session *continued from page 1*

advantageous time to offer education courses for in-service teachers, or to bring in guest lecturers – people who can avail themselves only for such short-term teaching commitments.”

For UMaine students staying on campus over the semester break, including international students, Winter Session is a real advantage, Cox says. In addition, other college students who return to the area while on break from their institutions could enroll in the University's Winter Session classes.

“We see this as a retention tool – helpful to first-year students, December grads who are short a couple credit hours, students with borderline GPAs, or those expecting a tough spring semester and hoping to get one course out of the way and lighten the course load,” says Toner. “Students can take winter term courses to accelerate their program. Full-time students taking additional classes during Winter Session and May Term could advance their standing by 24 credit hours over four years.”

It is expected that Winter Session will give academic departments more flexibility as to when and what courses to offer, Toner says. “Faculty can teach the winter term as overload or as part of their regular teaching load,” he says. “If a department chooses to have faculty teach Winter Session as part of their regular load, the salary dollars go to the department, and become a means of generating extra funding.”

At the same time, Toner says, there should be no pressure on faculty to offer or students to take Winter Session courses. “It will be here if they want to participate,” he says. “Some departments may feel that they can't format their courses in that timeframe or are unable to offer classes in winter term for pedagogical reasons. The way we're looking at it, anything faculty can offer through Winter Session is a plus because it increases students' options.”

CED is advertising Winter Session in its Summer Session course guide, and in regular course catalogs being published in April and November. Departments have already begun to submit course listings for the winter term to take advantage of two semesters of course catalog publishing, Toner says. However, courses can be added to the winter term up until the start of Winter Session. ▲

Costuming Challenge *continued from page 7*

Hill and she works with him in the TDC program, Theatre Arts Works, as well as at New Surry Theatre.

Over the years, she has had occasion to borrow costumes from Jane Snider, costume designer and associate professor of theatre/dance, with whom she had worked during her exchange. She and Snider have remained friends, so it was natural for Bourakovsky's name to come to mind for help with costuming *Die Fledermaus*.

What's different for this production is that the costumes were rented instead of “built” on-site.

“I was very scared,” she says. “I had nightmares for a couple of nights.”

That's because renting isn't always a pleasant experience, says Bourakovsky: Companies frequently provide costumes that are inaccurate for the period or otherwise inappropriate.

Luckily, that was not the case for *Die Fledermaus*. A handful of the costumes are incorrect — including one, of particular irritation to Bourakovsky, that is supposed to represent a Russian nobleman. But the problems this time have been relatively few, freeing Bourakovsky and her colleagues in the costume shop to conduct fittings, accessorize and coordinate wigs and makeup.

“People are great here,” she says. “It's so much fun to be back.” ▲

Take a Course Between Fall and Spring Semesters

Start planning now for

WINTER SESSION 1996-1997

Starting in December 1996, students can take courses in the new Winter Session, the weeks between the end of fall semester and the beginning of spring semester.

Are you interested in earning 3 credits to . . .

- improve your GPA?
- lighten your spring schedule?
- accelerate your program of study?

Would you like to . . .

- try something new?
- engage in an intensive experiential study of a major social problem?
- enjoy a two-week study abroad experience in Brazil?

The following courses meet Monday–Friday, Dec. 30–Jan. 10, 9:30 a.m.–noon, and 1:2:30 p.m. No class Jan. 1.

- ENG 456 The English Romantics
- FSN 101 Introduction to Food and Nutrition
- PSY 100 General Psychology
- PSY 330 Social Psychology
- PSY 323 Psychology of Childhood

Explore the social, economic, and political complexities of some major problems facing our world through dialogue with practitioners, guided discussions and fieldtrips, as well as regular classroom lecture. Seven days, noon–5 p.m., Jan. 2–3, and Jan. 6–10.

- SOC 202 Social Problems

Join the group traveling to Natal, Rio Grande Do Norte, Brazil. Leave Dec. 26. Return January 10. Participate in a short-term immersion in Brazilian culture, designed for all disciplines.

- MLC 293 Study Abroad: Brazilian Culture and Education

Also:

- EDU 580 Telecommunications in K-12 Schools (M-F, 4:30–8:30 p.m., Dec. 30–Jan. 10)
- HPR 222 Personal Fitness (2 credits, 8:30–11:30 a.m., Jan. 2–3 and Jan. 6–10)

Register now at the Continuing Education Division. Degree students will need an advisor's signature. If you receive financial aid, Winter Session will count towards your spring 1997 semester award. Call, fax, send, e-mail, or walk over to CED at 122 Chadbourne Hall, Orono, Maine 04469-5713. Tel. 581-3142. Fax 581-3141. E-Mail cedss@maine.maine.edu.

Sea Grant *continued from page 9*

for marine activities, Sea Grant has become more important than ever. “The strength of Sea Grant has been the research program, which is a little like fishing. Sometimes you catch them and sometimes you don't,” she says.

Research benefiting the lobster fishery and the aquaculture industry has expanded the state's marine economy, she adds. “That's money Maine wouldn't have had otherwise.”

Coastal communities depend on healthy marine resources, a fact of life painfully evident in communities from Rhode Island to Newfoundland. “The problems we are dealing with are the same all over the planet, the sustainability of the fish stocks and maintaining access to them so that we don't tear apart the social fabric of these communities. Then there are the technical questions about disease, wave dynamics and getting products to market,” says Dow.

Dow also recalls the green paint incident in Castine and emphasizes the need for scientists and the fishing community to recognize their common interests. “You also have the researcher with lobster blood on his or her lab coat. Today, people are talking more among themselves and with other organizations, the University and state agencies. If Sea Grant went away,” says Dow, “we'd have to reinvent it.” ▲



U.S. Department of Energy's FY96 and FY97 Global Change Assessment Program

Program supports research and analysis of the benefits and costs of potential actions to control greenhouse gases and possible climate change. Proposed work should have promise to improve or support the analytical basis for policy development. Preapplications are encouraged. Full applications are due March 20.

U.S. Geological Survey

awards cooperative agreements supporting the National Spatial Data Infrastructure Program. FY96 topics: creation of a Geospatial Data Clearinghouse, development and promulgation of standards, development of a National Digital Geospatial Data Framework, and development and implementation of educational outreach programs. Maximum award: \$35,000. Deadline: March 29.

March of Dimes Birth Defects Foundation

supports research in developmental biology, genetics, environmental toxicology, reproductive health, and the clinical, social and behavioral sciences pertinent to the prevention or treatment of birth defects. Letters of intent for 1996 funding due March 31.

American Heart Association's National Research Awards Program makes Grants-in-Aid of up to \$55,000, Scientist Development Grants of up to \$65,000, and Established Investigator Grants of up to \$75,000 for research broadly related to cardiovascular function and disease, to stroke, or to related basic science, clinical, and public health problems. Deadline: June 17.

Spencer Foundation

supports research on education, defining education broadly to include all the situations and institutions in which education proceeds, across the entire life span. Major grants and small grants programs fund projects in a broad range of academic and professional disciplines.

National Institute on Drug Abuse

invites research to develop and test drug abuse prevention intervention strategies for families. Themes of current interest include interventions with nuclear and extended families, interventions relevant to functional level of the family, comparisons of influences of peer social networks and family, comprehensive "systems" approaches, gender issues, and technologies of intervention.

FOR MORE INFORMATION, CALL RESEARCH & SPONSORED PROGRAMS, X1476.

VOICE

Volunteers In Community Efforts

The following is a list of recent community service and volunteer activities by UMaine students, many of them coordinated and facilitated by VOICE, a program of the Student Activities and Organizations Office, a Student Services Division. VOICE (Volunteers in Community Efforts) promotes volunteerism, acting as a clearinghouse for students, faculty, staff and community members interested in making a difference in the local community. The list includes organizations that are still looking for volunteers from the University community. Members of the University community who are interested in participating in any of the following volunteer opportunities, or want more information on local volunteer projects, should contact the VOICE office, 581-1796.

▼ Adopt-a-School is a fun opportunity to work with kids in the local school system. If interested, call Jen Moulton at the VOICE office.

▼ Crossroads Ministries needs your help. Crossroads is a local agency dedicated to helping those in need throughout the community. If you would like to organize a food drive or donate non-perishable food items and clothing, contact Jen or Chantel in the VOICE office.

▼ Friday, Feb. 23, Beta Theta Pi Fraternity is holding their annual sleep-out to benefit the Greater Bangor Area Shelter. To participate or to donate money, Contact Kurt Schickle, x4163

EMPLOYEE ASSISTANCE PROGRAM (EAP)

This time of year is especially difficult for many people, including our faculty and staff who are struggling with workplace and personal stresses.

▼ Workplace: Doing more with less; job insecurity; on-the-job stressors, etc.

▼ Personal: Financial worries, depression, burnout, anger outbursts, emotional distress, failing relationships, parenting difficulties, stress and anxiety, etc.

Due to the increased stress level experienced by our employees, for this semester the EAP will be providing:

▼ Free, short-term counseling for UMaine employees and their immediate family members

▼ Free, one-hour educational group on deep relaxation techniques

▼ Free, educational programs offered to departments on topics such as: Stress Management, Deep Relaxation, Balancing Work and Family, Alcohol and Drug Dependency, Improving Communication in the Workplace, Effective Parenting, and more.

To avail yourself of EAP services, call x4014 to arrange a strictly confidential appointment with Polly Moutevelis Karris (Monday - Friday) or James Werrbach (Tuesdays and Thursdays).

What's Ahead

SPRING BREAK
March 4-15

**ECONOMIC AND
COMMUNITY
DEVELOPMENT IN THE
STATE: UMAINE CREATING
PARTNERSHIPS**
March 5

Maine Perspective

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

