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Maine Perspective

A PUBLICATION
FOR THE
UNIVERSITY OF
MAINE

VOL. 7, NO. 21
FEBRUARY 26, 1996

Federal Grant Brings Renewed Commitment to Public Child Welfare in the School of Social Work

This April, six public child welfare workers – three from the Department of Human Services and three from the Tribal Child Welfare Services – will be selected to participate in the University of Maine's Master of Social Work Program as the result of a federal grant earmarked for MSW education for state public child welfare workers.

Last October, the University's School of Social Work received \$75,000 from the U.S. Department of Health and Human Services to provide financial support in the form of tuition waivers and stipends for six child welfare workers to spend the next two years at UMaine earning MSW degrees. With their degrees, those students are then required to return to their social service agencies – the Department of Human Services' Bureau of Child and Family Services or Tribal Child Welfare Services – to apply their MSW training to enhance child welfare services in Maine.

In addition, the federal grant provides for enhancement of the MSW curriculum, including an assessment of educational content regarding public child welfare. And in keeping with the federal emphasis on encouraging public child welfare social workers to pursue advanced professional education opportunities, the School of Social Work is developing a graduate-level ITV course.

"This is a collaborative effort between the University, DHS and Tribal Child Welfare," according to Gail Werrbach, associate professor of

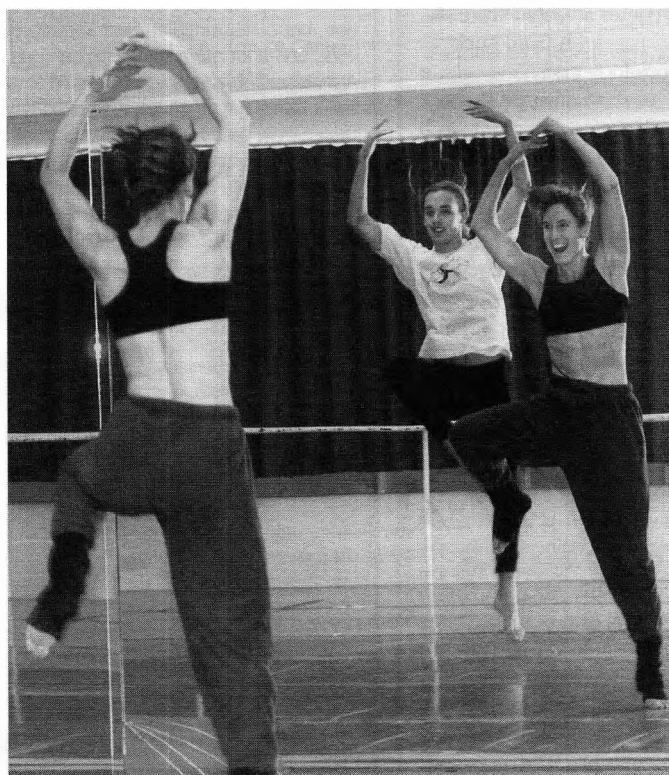
social work who co-authored the grant proposal with Assistant Professor Diane Haslett, and Associate Professor Elizabeth DePoy. "This newest grant has as much to do with building relationships between the three as it does about supporting students. The University has a

continued on page 13

Maine Perspective Moves to Bi-weekly

Maine Perspective, a campus-based publication designed to provide internal communication of news, commentary, events and notices about the University of Maine and its role as the state's flagship campus, will become a bi-weekly during the academic year, effective March 18.

Since 1990, the 16-page *Maine Perspective* has been published weekly during the academic year and monthly in the summer with a circulation reaching 5,000 on- and off-campus readers. The Department of Public Affairs, which publishes *Maine Perspective* on behalf of the University, absorbs the cost of copywriting, editing, layout, photography, and off-campus distribution. University of Maine Printing Services, an auxiliary enterprise within Public Affairs, underwrites cost of paper, design, and production as a public service to the University community. *continued on page 7*



In Perspective

- 2 International Journal
- 5 The Third Word
- 6 People in Perspective
- 8 In Focus: DNA Research
- 10 VolUMes
- 11 Media Spotlight
- 11 Book Ends

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

Alex Zendzian and Jean Caron go through their steps in the Lengyel Dance Studio.

Photo by Kathryn Rice

International Journal Has New Editorial Home at UMaine



Journal of Marriage and the Family editorial staff at UMaine are, left to right, Jill Arsenault, Robert Milardo, Mary Lou Dietrich and Marc Baranowski.

Publication of the latest issue of the quarterly *Journal of Marriage and the Family* will be cause for celebration this week at the University of Maine. The University is the new home of the editorial offices of this, the largest family science journal in the world, and the March 1 issue is the first produced by the UMaine editorial staff headed by Robert Milardo.

"It's enormously significant to have such a major journal with such a long history at the University of Maine," says Milardo, associate

professor of children development/family relations, and editor of the *Journal*. "It is the most competitive of the family science journals. Each issue includes articles by scientists examining contemporary topics having to do with families that are also making headlines in the popular media."

Milardo was appointed editor of the *Journal* last April, and will serve a four-year term. Associate Professor of Human Development Marc Baranowski serves as book review editor; Mary Lou Dietrich, who received her master's degree in English in August from UMaine, is managing editor; and Jill Arsenault, a graduate student in human development and family studies, is assistant editor. They are backed by an editorial board of 70 scholars and 950 ad hoc reviewers worldwide.

Founded in 1939, the *Journal of Marriage and the Family* is sponsored by the National Council on Family Relations. Each quarterly issue includes an average of 80 articles selected from over 300 manuscripts of original theory and research from such interdisciplinary fields as family studies, sociology and psychology. The *Journal's* international circulation of more than 7,000 reaches family practitioners and scientists, government and census officials, and academicians at colleges and universities.

In this, the first issue by the UMaine editorial office, articles are arranged by topics ranging from early marriage and cohabitation, and work and family, to conflict and marital distress, intergenerational relations and divorce.

University of Maine researchers have been contributors to the *Journal*, including Stephen Marks, whose article on the friendships among co-workers appeared in the 51st issue of the *Journal*. His next article: "A Theory of Role Balance: Work and Family Relations," is slated for the *Journal's* May issue.

Almost 20 percent of the *Journal* articles are by scholars from throughout the world; the March issue contains articles on family issues from researchers from Sweden, Jerusalem, Hong Kong and the Netherlands.

"The *Journal* brings a lot of attention to the University from scholars throughout the world," says Milardo. "This work on the *Journal* informs my teaching and that of others, and is inspiring to students. They become involved in the process, learning how science and knowledge are constructed and then communicated."

Each journal has articles that have the potential to affect public policies across the country, Milardo and Dietrich note.

continued on page 7



University of Maine electrical engineering undergraduate students Stephanie Archer and Gift Mngqibisa are conducting a power system study of the campus, under the direction of Jim Patton, assistant professor of electrical and computer engineering, and in cooperation with Facilities Management. In the study that has been

ongoing since last June, Archer and Mngqibisa are attempting to determine how much power each building on campus uses, including all the people and their equipment dependent on the electric utility. Such information benefits the University and Bangor-Hydro Electric Co., especially during power outages when there is a need to know how much energy the campus requires to recover from a "cold" start after a prolonged outage. Such an inventory will give a clearer indication of the primary and secondary voltage levels and power flows on campus. Their survey of the campus has included determining how much power is being consumed by a sampling of representative offices and classrooms, as well as inventories of electrical equipment and exterior/interior lighting being utilized. The goal is to create a database on which power system improvements in efficiency and reliability can be planned and implemented. "It will tell us information we need to know about power quality on campus," according to Facilities Management Director Tom Cole. "What is changing a lot on campus is demand. Among other things, we're trying to determine building loads as part of the data collection; knowing demand can influence building power setups." Cole estimates there are more than 5,000 motors on campus, and it's important to know where they are, their sizes and ages. "Hopefully by understanding what the problems are in delivering electricity on campus, we can begin to use what power we're buying more efficiently. Electricity has been our most expensive utility for some time. We have made some impact by instituting waste reduction, but consumption grows steadily every year because of new buildings, and a lot more things on campus require power," Cole says. For Archer and Mngqibisa, both slated to graduate in May, the power study has been a hands-on learning experience that will have applications in their career fields. Archer, who is from Stetson, is headed for an engineering job with a paper company or utility. Mngqibisa, who is from South Africa, is expected to return home for a job in the power industry which supplies 96 percent of the country's electricity.

Maine Perspective

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University of
Maine

U Maine Calendar

FEB. 28 – MARCH 21

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.

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 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.

"Social History and U.S. Foreign Relations: A Chicago Case Study, 1914-1924," by Seth McKillen, with commentary by Julian Madison, part of the History Symposia Series, 3:15 p.m., Feb. 28, Honors Center.

"Prescribing the Life of the Mind," a panel discussion on the aims of liberal education and its future at UMaine, with Gerard NeCastro, Tina Passman and Jeff White, a Philosophy Department Colloquium co-sponsored by the College of Arts and Humanities, 4 p.m., Feb. 28, Bangor Lounge, Union. x3865.

"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 Hall. 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.

"Desire in the Printed Dream of Poliphilo," by Helena Szépe, 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.

Professional Employees' Development Day ECONOMIC AND COMMUNITY DEVELOPMENT IN THE STATE: UMAINE CREATING PARTNERSHIPS

Tuesday, March 5, Hilltop Conference Center

- | | |
|------------|---|
| 8:30 a.m. | Registration and coffee |
| 9 a.m. | Welcome |
| 9:15 a.m. | Keynote address by Tom McBrierty, Maine Commissioner for Maine Department of Economic and Community Development |
| 10:30 a.m. | Panel discussion with Judith Bailey, Bruce Wiersma, Brenda Cook and Janet Waldron, Commissioner for the Maine Department of Administrative/Financial Services |
| noon | Lunch |

Registration fee is \$7.50; \$5 for professional employees. For more information, contact Sherry Treworgy, x1359.

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 director of the Center for Sustainable Agricultural Systems, 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.

Performance by the UMaine Jazz Combo, part of the Union Board TGIF music series, 12:15 p.m., March 1, Bangor Lounge, Union. x1820.

Opening Reception for the Editorial Office of the Journal of Marriage and the Family, 1-3 p.m., March 1, 19 Merrill Hall.

"Ectomycorrhizae: Ameliorators of Metal Stress in Trees?" by Douglas Godbold, Biological Laboratories, Harvard University, a Plant Biology and Pathology Department Seminar, 1:30 p.m., March 1, 101C Deering Hall. x2970.

"Alkali Metal Adsorption on Metal Surfaces," by Renee Diehl, Penn State University, a Department of Physics and Astronomy Colloquium, 3:10 p.m., March 1, 140 Bennett Hall. x1039.

Application for May 1996 Graduation, due in Office of Student Records, 100 Wingate Hall, 4:30 p.m., March 1.

Spring Break begins 5 p.m., March 1.

Ice Hockey: UMaine vs. Providence College, 7 p.m., March 1, Alford Sports Arena. Admission fee. xBEAR.

Prague Chamber Orchestra in Concert, part of the Maine Center for the Arts performance season, 8 p.m., March 1, Hutchins Concert Hall. Admission fee. x1755. Pre-concert lecture by David Klocko one hour before performance, Bodwell Area.

2 Saturday

Ice Hockey: UMaine vs. UMass-Lowell 7 p.m., March 2, Alford Sports Arena. Admission fee. xBEAR.

3 Sunday

Horse-drawn Sled Rides, 10 a.m.-3 p.m., March 3, Leonard's Mills, Rt. 178, Bradley. Admission fee. x2871.

5 Tuesday

"Economic and Community Development in the State: UMaine Creating Partnerships," Professional Employees' Development Day sponsored by PEAC, featuring a keynote address by Tom McBrierty, commissioner for the Maine Department of Economic and Community Development, 8:30 a.m.-1 p.m., March 5, Hilltop Conference Center. Registration fee. x1359.

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

"Where Is Little Bear?" a Planetarium children's show, 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.

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

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.

Pop as Mannerism, a University of Maine Museum of Art exhibit, March 18-May 24, 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 Wednesday, 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.

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. No previous experience required. 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.

INTERNATIONAL EDUCATION HEARINGS

Organized by the Faculty Senate
Ad Hoc Committee on International Education

8-9:15 a.m., Tuesday, Feb. 27

The Committee is charged with focusing on past efforts, goals and priorities of the Office of International Programs. Opportunities for ongoing partnerships, links with state government, and the role of foreign language on campus will be explored. Committee recommendations for international education will be presented to the President.

Committee members: Karen Boucias, Leslie Flemming, Diana Lawson, Marisue Pickering, Raymond Pelletier, Frank Roberts, Ralph Townsend, Janis Williamson, and Kathleen March (chair).

7 Thursday

Do-It-Yourself Database Searching Workshop, focusing on science and engineering databases, 10 a.m. - 11:30 a.m., March 7, Science and Engineering Center Office, Fogler Library. Free/preregistration required. x1679.

10 Sunday

Bangor Symphony Orchestra in Concert, 3 p.m., March 10, Hutchins Concert Hall. Admission fee. 942-5555. Free pre-concert lecture by David Klocko one hour before performance, Bodwell Area.

12 Tuesday

Advanced HTML, an Internet Workshop offered by Fogler Library, 10 a.m.-noon, March 12, Computer Instruction Room, Library. Pre-registration required. x1678.

15 Friday

Maine Center for Student Journalism statewide conference, March 15.

"Health Care in the '90s," Maine Press Association Spring Conference, March 15. Registration fee.

18 Monday

Classes resume, 8 a.m., March 18.

"Invertebrates: The Backbone of Management at Waterboro Barrens," by Nancy Sferra, Southern Maine Preserve manager, part of the Wildlife Ecology Seminar Series, noon, March 18, 204 Nutting Hall. x2862.

Scholarly Communication on the Internet, Internet Workshop offered by Fogler Library, 1:30-3:30 p.m., March 18, Computer Instruction Room, Library. Pre-registration required. x1678.

19 Tuesday

"L-Tryptophan: Should It be Kept Off the Shelves?" by Shelley Belanger, a Food Science and Human Nutrition Seminar, 11 a.m., March 19, 14 Merrill Hall. x1621.

"Melatonin: Should It be Available as a Supplement?" by Denise Fickett, a Food Science and Human Nutrition Seminar, 11:45 a.m., March 19, 14 Merrill Hall. x1621.

Intermediate Word, Tables & Columns, a CIT Mac workshop, 10 a.m.-noon, March 19, Fogler Library Classroom. Preregistration/ fee. x1649.

"An Ecofeminist Analysis of Violence in the Home," by feminist and activist Carol Adams, author of *The Sexual Politics of Meat*, part of the Women in the Curriculum Program Lunch Series, 12:15-1:30 p.m., March 19, Bangor Lounge, Union. x1228.

20 Wednesday

Introduction to URSUS, Internet Workshop offered by Fogler Library, 9:30-11 a.m., March 20, Computer Instruction Room, Library. Pre-registration required. x1678.

"The Role of Japanese Buddhist Ideas in Transforming Ecological Thinking," by Graham Parkes, Philosophy Department, University of Hawaii, a Philosophy Department Colloquium, 4 p.m., March 20, Levinson Room, the Maples. x3865.

21 Thursday

"The Mondragon Cooperatives: An Alternative to Capitalism and State Socialism," by Mark Lutz and Michael Howard, part of the Socialist and Marxist Studies Luncheon Series, 12:30-1:45 p.m., March 21, Bangor Lounge, Union. x3860.

Women's Studies on the Internet, a hands-on Internet Workshop by Nancy Lewis, offered by the Women in the Curriculum Program and Fogler Library, 2-4 p.m., March 21, Fogler Library. Registration required. x1675.

'THE THIRD WORD' BRINGS STUDENT JOURNALISTS TO UMAINE

Workshops on a range of topics of interest to student journalists — from starting a school newspaper to addressing legal and ethical issues facing the media — are being planned for the third statewide journalism conference Friday, March 15, at the University of Maine.

The focus of this year's conference, which gets under way at 9 a.m. at the Corbett Business Building, is the search for excellence in student publications. The all-day session is sponsored by the Maine Center for Student Journalism, based in the Department of Communication and Journalism.

Students, advisers and professional journalists from daily and weekly newspapers around the state will lead sessions on subjects such as interviewing, feature writing, political cartooning, news writing and computer design and layout. Special sessions are scheduled on managing legal and ethical issues, designing with PageMaker and publishing on the World Wide Web.

The day will begin with a panel discussion, "The Search for Excellence: What is Quality Content?" with a panel of student and professional editors. It will conclude with the announcement of the winners in the 1995-96 student newspaper contest. First-place winner will receive the James Russell Wiggins trophy, given by *The Ellsworth American*.

Maine Press Association Spring Conference

HEALTH CARE IN THE '90s

Friday, March 15, Corbett Business Building

Concurrent panels at 3 p.m.:

"Getting the News," featuring Nancy Ballard, director of media relations, Eastern Maine Medical Center; Mary Plumer, director of media relations, Kennebec Valley Medical Center; Andrew Kekacs, *Bangor Daily News* reporter; moderated by Mark Woodward, *Bangor Daily News* editorial page editor

"Emergency Medical Services in Maine," with Kevin McGinniss, director, Maine Emergency Medical Services; Eric Steele, emergency room physician; Norman Dinerman, chief of Emergency Services, Eastern Maine Medical Center; moderated by Earl Brechlin, MPA president and *Bar Harbor Times* editor

Panel at 3:30 p.m.:

Recent Efforts to Reform Health Care Nationally and How They Relate to Maine, featuring Francis Finnegan with the state Medicaid Program; Norman Ledwin, Eastern Maine Medical Center CEO; Daniel Onion, director, Family Medicine Institute, Augusta; a Blue Cross-Blue Shield of Maine representative.

Dinner that evening will feature an address by Tom Andrews, former congressional representative and now director of People for the American Way. Tickets for the dinner are \$25.

For more information on the conference, contact Stuart Bullion, x1279.

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
Bookstore:	Monday-Friday: 8 a.m.-4:30 p.m. Weekends: Closed	Maine Bound: Monday-Friday: 9 a.m.-4:30 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: Monday-Friday, 7:30 a.m.-4 p.m. Weekends: Closed March 17: 9 a.m.-5 p.m.
Damn Yankee:	Monday-Friday: 7 a.m.-3 p.m. Weekends: Closed	Professional Offices: Weekdays: 8 a.m.-4:30 p.m. Weekends: Closed University Credit Union Branch Office: Closed (Visit main office)

People in Perspective

Two decades ago, Amy Morin applied for two jobs – one at the University of Maine, and the other at a local paper mill. She got job offers from both, and ironically was told to start work at both locations on the same Monday. But because the call from UMaine came first, Morin took the position in the then School of Forestry. It was a twist of fate, she says, that changed her life.

"I love working here and love the work I'm doing," says Morin, an administrative assistant II in the Canadian-American Center. "Many of the things that have happened in my life in the past two years would never have happened if I had not been at the University."

Morin first joined the University community in 1974. She worked part-time for the first two years in the School of Forestry, and started working full time when the Cooperative Forestry Research Unit was established in 1976. Morin worked for the CFRU for seven years before taking a position with the Canadian American Center in 1983.

As a point-person in the Center, designated a national resource center for Canada by the U.S. Department of Education, Morin fields a myriad of calls from throughout the United States and Canada – from members of the public, scholars and academicians, and embassy and consular officials. She never knows when she picks up the phone whether the conversation will be in English or French.

But while Morin is bilingual, she spent the first few years using her French language skills only in emergencies. "I've always been hesitant to use my French," she says. "When I was in high school, I was told my French was not correct – not Parisian. That made me ashamed of my French, so I'd use it only in a bind."

Two years ago, the Canadian-American Center co-sponsored with a group from Montreal a fall colloquium involving many participants who spoke primarily French. Morin found herself thrown into situations that required her to use her first language. As Morin began to find her voice, Canadian-American Center director Stephen Hornsby recognized a yet-untapped resource. He urged and supported Morin's enrollment in a language immersion course during May Term at Laval University in Quebec.

"That was a real turning point in my life two years ago," says Morin. "I found out my French was just fine. Since then I

don't hesitate to speak French."

Morin has now taken the benefits of being bilingual far beyond the Canadian-American Center. She is actively involved in her culture and heritage. Shortly after returning from Quebec, Morin formed a French Club that is open to all ages in the community. At the first meeting, there were 25 people in attendance.

"I was amazed," says Morin. "I formed the club because I was afraid I was going to lose the language. We get together and speak French for an hour and a half each month. We have people of all ages participating – from students to French Island natives up to 87 years old. I remember one woman who, when she first came, hadn't spoken French in 40 years but wanted to get her language back. She says it did her soul good."

Morin also became involved with the University of Maine Franco-American Center, and participated in the French Island oral history project, *Nos Histoires de l'Île*. It was an eye-opening experience not only for Morin but for the Franco-American elders she and others interviewed as part of the project.

"It made people think about what they really had – and what wasn't around any more," says Morin, who now serves as secretary of the oral history group. "Like with my French, people didn't value their histories and heritage until they really had to stop and think. It had to do with preserving memories of a way of life."

In addition, Morin has been chosen to be the first UMaine representative in the newly established exchange agreement between the University and the University of Angers in France. Yvonne Buchmann, who is involved in international programs at the University of Angers, will be on campus for two weeks in May. Morin hopes to return to France with her and begin an exciting two weeks of networking and researching.

"I don't think too many exchange agreements between universities have included staff and the community," says Morin. "As a staff-community member, the fact that I am going as a Franco woman really sends a message that support staff are valued for the things we know."

While in France, Morin will be researching the history of women's handwork – in particular, the fine crochet work that has been passed on from generation to generation in France and in the Franco-American community. Such



Amy Morin

Photo by Kathryn Rice

interest is not just a fleeting fancy for Morin. When the vice president of the University of Angers was on campus last April, he noticed a piece of crocheted work that was used as a centerpiece – a family heirloom that had been made by the grandmother of Morin's husband. The man quickly recognized the handiwork as an art he had seen on his grandmother's table when he was growing up.

"I'm hoping to meet with women's groups to talk about how they learned their art and to begin to find the connections that go way back," she says. "I have several agendas while I'm there, including going to schools and talking about the Old Town oral history project."

Morin says her experiences in France will only add to her new-found freedom of expression and advocacy of the Franco-American heritage. It is all part of spreading the word, whether in the University community or in international conferences like the one she attended last October in Ottawa where she gave a paper on the oral history project. After her presentation, members of the audience came up to learn more about it.

Morin says of the past two years that "something has been freed in me – something that had been tied in a knot for so long. It's like the woman who had not spoken French for 40 years. This is an awakening. It validates things. This never would have happened if I had not had the support and encouragement of the Center's administrators. Now I spend my time spreading it around, hoping to wake other people up."

Maine Perspective continued from page 2

John Diamond, director of Public Affairs, said the reasons for the cutback to bi-weekly are related to budget issues.

"We hate to reduce the frequency of *Maine Perspective's* publication," Diamond said. "*Maine Perspective* is, and will continue to be, a quality vehicle for keeping the campus community informed about the people, programs, and accomplishments of the University. However, financial realities keep us from continuing *Maine Perspective* as a weekly publication."

"Throughout campus, departments have had to cope with a series of cuts in operating budgets and personnel. Public Affairs and Printing Services have also felt the impact of budget cuts. With many departments on campus cutting back on their printing, design, video production, and photography expenditures, it affects the revenues generated that are used to help pay for *Maine Perspective*. We simply don't have the ability to absorb the cost of producing *Maine Perspective* on a weekly basis."

Diamond said that printing and paper expenses alone for *Maine Perspective* will cost Printing Services \$43,000 this fiscal year.

Diamond said that his department is looking to use technology to compensate for the loss of *Maine Perspective* as a weekly source of news and information.

"We'll continue to publish the news, features, administrative developments, and calendar information the campus community has become accustomed to," Diamond explained. "But we'll also compensate for the reduction in publication schedule by using the Internet to get 'breaking' news out to those on campus who have Internet access."

"We are currently setting up an e-mail distribution service we've named UMTODAY, which will regularly inform all subscribers of information about UMaine that's in the news or that is expected to be in the news. Examples would be references to UMaine in out-of-town newspapers, administrative announce-

Journal continued from page 2

Topics in recent journals have addressed such issues as whether children from two-parent families fared better than those from single-parent families; dead-beat dads and compliance with court-ordered child support; and breastfeeding and the workplace — how employers can make improvements that could impact maternal-child health.

"The interesting thing about this science is that we're trying to understand basic human processes, and how relationships are created and endure over time," Milardo says. "Such research could direct us in terms of how to make improvements so our workplaces, communities and policies on the state and federal levels that promote family well-being." ▲

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.

ments that are expected to make the papers the next day, or perhaps the reason why fire trucks were spotted outside a particular building earlier in the day. By using technology to communicate information, we can make up — in a limited way — for the loss of *Maine Perspective* as a weekly publication, and expand our ability to share information in a timely manner. This is one of many creative and cost-effective changes we're looking at to keep the campus community informed."

The March 18 edition of *Maine Perspective* will explain how one can subscribe (at no cost) to UMTODAY. Diamond said that he wishes everyone on campus could subscribe, but realizes that not everyone has a workplace computer or is connected to the Internet. "We're hopeful that at least one person in every unit on campus will sign up for UMTODAY so that those who are not connected to the Internet will know to whom to turn to get that information."

Diamond also said that *Maine Perspective* stories and copies of Public Affairs' news releases will continue to be accessible through the University's home page on the World Wide Web. Those interested in accessing or downloading that information should access <http://www.ume.maine.edu/newsevents.html>.

"The budget issues facing the University and our departments have prompted us to make these changes. However, though they'll take some adjustment, we think the changes will provide new and creative ways for us to serve the campus community." ▲

CALL FOR PROPOSALS

Faculty Planning Stipends to Develop Winter

Session Courses Designed to Improve Student Retention

The Continuing Education Division has received funds from the Retention Minigrant Program for faculty planning stipends of \$200-500 each to develop innovative Winter Session courses designed specifically to improve student retention. The Continuing Education Division will allocate the stipends following review of proposals and recommendations by a committee consisting of Shari Clarke, associate dean for Minority Services and Multicultural Programs; Welch Everman, associate dean of Arts and Humanities; Jerry Herlihy, interim coordinator of Academic and Career Exploration Program; Ruth Nadelhaft, director of Honors Program; and Chuck Russ, associate dean for Instruction, College of Sciences. Because of the limited nature of the funds, this is a competitive process.

Proposals for the planning stipends should be submitted to the Continuing Education Division, 122 Chadbourne Hall, Fax 581-3141, or E-Mail cedss@maine.maine.edu by March 25, 1996. The stipend awards will be announced around April 1.

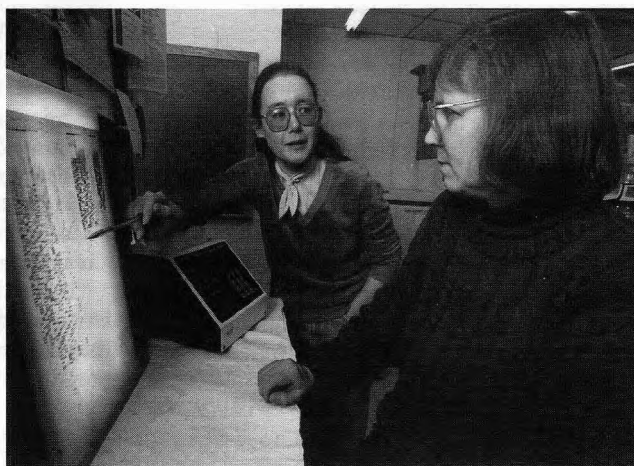
The committee will use the following criteria in making its recommendations:

1. Faculty will develop a new course or redo an existing course that is aimed at:
 - ▼ high-risk students;
 - ▼ students who qualify for suspension or dismissal and need to improve their GPA;
 - ▼ students who wish to accelerate their programs;
 - ▼ those who wish to lighten their spring or fall schedules;
 - ▼ those who wish to try something new;
 - ▼ international students who find themselves on campus anyway;
 - ▼ athletes who may need another course for eligibility;
 - ▼ students who wish an abbreviated study abroad experience;
 - ▼ the extremely bright and motivated student looking for a new interdisciplinary opportunity.
2. The course must somehow enhance the University's racial, ethnic, and cultural diversity efforts.
3. Course dates and times are flexible, but the course must start and finish sometime between the end of fall 1996 semester and the beginning of spring 1997 semester.

DNA Research at the Unive:



Alex Parker, graduate student in zoology



Linda Rhodes, left, and Rebecca Van Beneden, zoology



Diane Caporale in the DN

Several times a week, University of Maine molecular biologist Diane Caporale takes delivery of a small box of plastic vials. Each one holds a thimble-full of a solution containing DNA, a thick, clear liquid which, one researcher says, has the consistency of mucus and the aura of Voodoo.

This gooey substance doesn't look much like a star of biological research or even the culprit at the root of obesity and cancer. When it is being extracted from once living tissue, it may first appear as a white smudge at the bottom of a lab worker's test tube, and in pure form, it can be pulled up in long thin strings like pizza cheese.

Nevertheless, appearances can deceive, and Caporale's samples are no exception. If they have been prepared correctly, she can analyze their genetic code, a string of A's, T's, G's and C's, symbols for DNA's building blocks. The code provides UMaine scientists with clues to a wide range of problems from the regulation of the heart to the health of forests and fisheries.

Genetics work has been part of UMaine research for more than a century. Prior to 1920, these efforts had yielded benefits such as more productive laying hens and crops tailored for Maine's climate. Such early studies were precursors to modern molecular biology projects. Today, Caporale is one of more than two dozen UMaine faculty members, research assistants and students who work directly with DNA and related compounds. UMaine researchers use DNA to:

- ▼ detect diseases in farm-raised fish
- ▼ improve disease resistance and marketability of potatoes
- ▼ track the spread of Lyme Disease along the Maine coast
- ▼ study the impact of environmental stress on tree growth
- ▼ investigate the causes of tumors in softshell clams
- ▼ understand the regulation of heart rhythms and
- ▼ trace the evolutionary history of fish and plant species.

Metaphors come easily in describing this hair-like molecule. Richard Blake, professor of biochemistry, calls DNA an old book

containing the 3.5 billion-year-old story of life. Blake studies the molecular forces which keep DNA together, and he notes that scientists are still learning how to read the text. Linda Rhodes, a post-doctoral researcher in zoology, likens the learning process to discovering how a motor works with all the parts scattered on the floor.

"Patience is important," says Rhodes. "We use the term Voodoo a lot here. You can run a technique three times and not get the result you need, and then on the fourth try, for no apparent reason, it works. There's a lot about DNA we just don't understand."

Surprisingly, most tools of the DNA trade are relatively straightforward. Scientists can buy the magical molecule itself, Rhodes explains, from biological suppliers or carefully extract it from the cells of research organisms. Purifying DNA has become standard in undergraduate lab courses and usually takes a day or two. It requires mixing cells with chemicals to separate the DNA from other cellular stuff. That stuff includes proteins and RNA, the DNA cousin which is responsible for taking DNA blueprints to the factory floor of the cell.

Unraveled DNA from a cell nucleus can be several feet long (together, the strands of nuclear DNA from a human sperm cell average about six-feet long) and include billions of building blocks called bases. As a result, researchers often cut the molecule into workable, identifiable fragments. Rhodes, Caporale and others use chemical scissors, customized compounds called "restriction enzymes" to do the job.

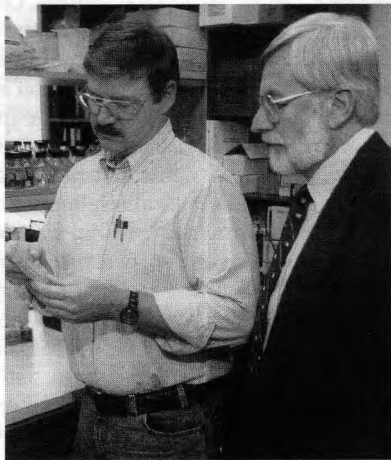
"These are the real tools of molecular biology," says Alex Parker, a Ph.D. student in zoology. "Most of them are based on enzymes from *E coli* bacteria. Some of them have been highly engineered and are copyrighted."

Once the DNA has been cut, scientists separate the pieces from each other by size. To do this, they use a process which takes advan-

ty of Maine



facility



John Singer, left, and Bruce Nicholson,
molecular biology

tage of DNA molecule's negative electrical charge.

Like race horses at the track, DNA fragments are lined up on one side of a tray which has been filled with an agarose gel, a clear, fibrous material and looks like Jello. The tray's two ends are hooked up to the positive and negative sides of an electric circuit, and when the power is turned on, the DNA is drawn through the fibers in the gel. Since short fragments travel faster than long ones, the DNA spreads out like horses down the stretch. Lab workers who spend hours performing this technique have even been honored with the title "gel jocks."

Whether from people, clams, trees or bacteria, DNA treated in this manner produces a unique pattern – a signature in the gel. For researchers, the pattern can be used to unearth new clues about fish, trees and other organisms. Beyond their research value, pictures of the DNA fingerprint have become the focus of high legal drama, as demonstrated during the Simpson trial.

UMaine's DNA labs have adopted another deceptively simple tool, one that consists of a heater and a refrigeration unit attached to a computer. Packed into a box about the size of a small microwave oven, the device is called a thermocycler and acts like a high-speed copier by quickly reproducing millions of copies of a single DNA fragment. It relies on a heat-resistant enzyme only recently discovered in bacteria living in hot springs.

This cloning process is called PCR, or polymerase chain reaction, and it has greatly expanded studies involving specific genes or other DNA fragments.

Once the genetic sequence has been determined, researchers may go to computerized resources such as the GenBank, an on-line database which contains information about thousands of known genes. Then the fun begins. Armed with their blueprints, UMaine scientists start their search for meaning among the sentences of genetic code.

Clams and Voodoo

Before she came to UMaine, Linda Rhodes worked in the state of Washington on problems with Puget Sound fish. Many of the fish, particularly those in polluted areas, had lesions on their skin and tumors in internal organs. As a histologist, Rhodes looked for clues in fish tissues. While chemical contaminants seemed to be involved, she was unable to track these problems back to a clear cause.

Today, working in a Murray Hall lab directed by Rebecca Van Beneden, associate professor of zoology, Rhodes is on a similar trail. She works with soft shell clams to understand how they respond at a molecular level to exposure to toxic chemicals such as dioxins and pesticides.

"Our lab prepares DNA from both animal tissue and cell culture," she explains. "We quick-freeze the tissue in liquid nitrogen and then grind it with a mortar and pestle or a Waring blender. For cell cultures, we rinse them to remove the culture medium and then add the solution containing enzymes that digest the proteins." Rhodes stores her DNA samples in a refrigerator or freezer for future use.

The genetic clues will help Rhodes and her colleagues determine how toxins affect the reproduction and development of clam cells. "In the normal animal, proteins created from DNA need to be present in the proper amounts at the correct time and location. Things can go wrong for a variety of reasons, resulting in a diseased state. Identifying genes that produce proteins at a certain stage of a disease gives you a snapshot of the disease at that moment in time. You can compare snapshots of normal and abnormal tissues, and the differences you find may be the genetic basis of the disease."

Fast Detection of Fish Diseases

Ask Bruce Nicholson about fish diseases, and he will tell you a story about government regulation, aquaculture and virus detection. Chair of the Biochemistry, Microbiology and Molecular Biology Department, Nicholson works with John Singer, associate professor of microbiology, Sharon Blake, research associate, and undergraduate and graduate students on a project to speed up the detection of viruses in fish. Their techniques reduce the detection time from weeks to days.

Federal regulations require that farm-raised fish be certified by a lab as disease-free before they are moved or marketed. The conventional two-step process requires four to six weeks. While both the industry and regulators would like to have more efficient tests, new ones must be sensitive enough to detect the proverbial needle in the haystack. They must also zero in on the size, shape and color of needle, that is to say, the strain of a particular type of virus.

Nicholson and his colleagues have developed a two-day technique using PCR to detect a virus by finding its genetic signature, in this case RNA instead of DNA. If a virus is present in the fish tissue, it will have inserted its genetic material into the cells where it multiplies.

The team's success stems from the identification of the primers – short sections of DNA which recognize and lock on to viral genetic fragments. "Because our virus is an RNA virus, we extract the RNA from the fish tissue, and put it through a two-step process called RT-PCR," says Blake. "In the first step we convert the RNA to a DNA copy of the RNA. Then using the specific primers designed for our virus, we increase the number of copies of a virus gene fragment using PCR and run the product on a gel."

Haddock Scales and Lobster Tails

Graduate students working with Irv Kornfield, professor of zoology, are using DNA studies to improve knowledge of freshwater and marine fish. Their work may lead to better management of heavily depleted stocks.

Maureen Purcell, a master's student from Michigan, extracts DNA from haddock scales to determine how fishing has affected populations of the once abundant groundfish on Georges Bank. Before coming to UMaine, Purcell had also studied the genetics of wheat and salmon.

"There isn't much DNA in fish scales," Purcell says. "I put them in a solution to dissolve the outside material and then extract the DNA from what's left."

Purcell is less interested in the exact sequence of the genetic code than she is in DNA patterns from specific groups of haddock. Those details include repeated sequences – a kind of stutter in the code. Since fish populations vary in the average length of these stutters, their presence in harvested fish can provide clues about population movement or reproduction. Thus, they may help Purcell describe the health of Georges Bank haddock or the movement of haddock from other areas of the Atlantic onto the Bank. *continued on page 15*

V O L U M E S

Recent Works by University of Maine Authors

Politicized Ethnicity in the Russian Federation: Dilemmas of State Formation

By James Warhola

(Edwin Mellen Press, Lewiston, N.Y. 1996)

The demise of the Soviet Union has given rise to a number of independent countries, the largest and most powerful of which is the Russian Federation. But the federation is beset with an array of political problems, including several of the core political difficulties of the Soviet Union involving national identity, distribution of power between a central governing authority and regional/local powers, and the socio-political identity of ethnic minority groups.

In *Political Ethnicity in the Russian Federation*, Associate Professor of Political Science James Warhola provides an informative look at how ethnic identity has become politicized within the Russian Federation, and the problems this creates for the preservation of Russian territorial and political integrity. In addition, the monograph focuses on possible solutions to the dilemmas of politicized ethnicity.

Unlike the view of most contemporary Russian specialists who see little hope for Russian democracy, Warhola suggests that by tapping into its rich and distinctive history as a multi-national state, Russia could still emerge with new solutions. Warhola explores the Russian national-state formation, the federation's politico-geographical issues as well as the subjective dimension of ethnicity in the federation and in the Russian political identity. He also addresses political relations between Moscow and ethnic minority areas, and looks at the issues involved in governing post-Soviet Russia.

Politicized Ethnicity in the Russian Federation is Warhola's second book. Warhola was a visiting scholar at Moscow State University last summer.

ANIMALS & WOMEN



Carol J. Adams & Josephine Donovan, editors

Animals and Women: Feminist Theoretical Explorations

Co-edited by Carol J. Adams and Josephine Donovan

(Duke University Press, 1995)

Animals and Women is a collection of pioneering essays that explores the theoretical connections between feminism and animal defense. Offering a feminist perspective on the status of animals, the volume argues that both the social

construction and oppressions of women are inextricably connected to the ways in which we comprehend and abuse other species. Such a focus, it is argued, does not distract from the struggle for women's rights, but rather contributes to it.

As a wide-ranging multidisciplinary anthology, *Animals and Women* presents original material from scholars in a variety of fields, as well as a rare, early article by Virginia Woolf, "The Plumage Bill." Exploring the leading edge of the species/gender boundary, it addresses such issues as the relationship between abortion rights and animal rights, the connection between woman-battering and animal abuse, and the speciesist basis for much sexist language. Also considered are the ways animals have been regarded by science, literature and the environmentalist movement.

The book, according to one reviewer, "makes an important contribution to the cause of animal and human liberation."

Co-editors of the volume are Carol J. Adams, a writer and professional consultant on issues of sexual harassment and sexual violence, and UMaine Professor of English Josephine Donovan. *Animals and Women* is Donovan's sixth book.

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:

College of Business Administration:

<http://www.ume.maine.edu/~gibson/umocba.html>

The College of Business Administration has online information about its undergraduate and MBA programs. The College has business world links as well as information on the student activities organized to involve students in the world of business (programs such as SPIFFY and the American Marketing Association).

Laboratory for Research in Physics Education (LRPE):

<http://130.111.68.40/PhysicsEducation>

A joint project funded by the Colleges of Education and Sciences, the LRPE sponsors a 1996 Summer Institute for teachers of elementary and middle schools. A broad listing of Physics Education web links is also provided.

Academic and Career Exploration (ACE) Program:

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

Designed for students with a wide range of academic interests, the ACE program works with students to find a niche in one of the seven colleges.

ASAP Media Services: <http://inferno.asap.um.maine.edu/>

ASAP works on special projects for the University community. Ranging from Powerbook Presentations to CD-ROMs for DeLorme Mapping and the Shaker Project, ASAP develops media products and has a preview of its current projects.

Hudson Museum: <http://www.ume.maine.edu/~hudsonm/>

The Hudson Museum has links to its exhibits, a tour of the gallery program, outreach services and volunteer programs. Special events for the spring semester are sure to attract your attention.

Department of Mathematics and Statistics:

<http://www.umemat.maine.edu/>

Undergraduate and graduate programs, course listings and a Math/Stat FTP site can all be found on this departmental page.

Institute for Quaternary Studies: <http://iceage.umeqs.maine.edu>

What do you want to know about the cause and effects of the ice-age cycle for the past 1.8 million years? Research in glacial geology, marine paleoenvironments and environmental archaeology (as well as numerous other topics) is conducted through this Institute.

Classic Upward Bound: <http://trio.ume.maine.edu/~classub/classub.html>

A Trio program in the College of Education, Upward Bound is a year-round program committed to the success of Maine students in higher education.

Office of Research and Public Service (RAPS):

<http://www.ume.maine.edu/researchpublic.html>

RAPS organizes the research and outreach programs at the University of Maine. Links to many of the supported programs are included at this site.

Department of Public Administration:

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

Along with a statement of philosophy, there is information on the undergraduate and graduate programs offered through the Department of Public Administration.



Segal in *Esquire*

Esquire's February issue included an article, "Life in Cyurbia," in which Professor of History Howard Segal was cited. The article notes that, contrary to the "democratizing, empowering force of cyberspace," it appears that the choice for most would be to live "in the electronic equivalent of gated communities – restricted to those who can pay and are willing to follow the rules – or to self-censor our world of offense." Segal says we have a tendency in this country to embrace "technological utopianism." We not only grasp new technology as the "nation's savior but conform ourselves socially and politically around its presumed power."

Criner in *Warmer Bulletin*

The January issue of *Warmer Bulletin*, an international solid waste management newsletter, features research by George Criner, associate professor of resource economics and policy, and Stephanie Seguino, formerly of the Margaret Chase Smith Center. The story focuses on their study of pay-per-bag waste systems used in more than 50 Maine towns. The story and photo were provided by Public Affairs. *Warmer Bulletin* is published by The World Resource Foundation located in Kent, England.

Klose in *Catholic Digest*, *Christian Science Monitor*

Robert Klose, assistant professor of biological sciences, University College, had an article: "No Fiddle For Alyosha," published in the June issue of *Catholic Digest*, June 1995. In the *Christian*

Science Monitor, "A Money-Shy Son Makes a Savvy Allowance," was published Dec. 7, and "A Final Schuss For an Avid Sledder," appeared Jan. 22.

Quaglia Interviewed by *New York Times*

Russell Quaglia, director of the National Center for Student Aspirations and associate professor of education, interviewed with the *New York Times* for a story about the issue of educational standards, a focus of the upcoming National Governors' Education Summit. The role of student aspirations is vital in the national pursuit of higher academic performance, according to Quaglia. Academics and aspirations are not mutually exclusive, he says, but high expectations must be based in the reality of the student experience. In addition, the National Center for Student Aspirations and Quaglia were featured in the February edition of *Recruitment & Retention in Higher Education*. The article, "Measuring Student Aspirations," examines the Center's expanding work with K-12 schools across the country and its implications for higher education.

College of Education in *Education Week*

The UMaine College of Education/Maine Principals' Association Research Partnership was featured in the Partnerships column of the Jan. 24 edition of *Education Week*. In the article, Dean Robert Cobb outlines the Partnership's mutually beneficial goals: closer University connection with the true issues and realities of public schools; research-based decisions; and resulting policy driven by systematic inquiry.

Book Ends

New & Noteworthy at the University Bookstore

Most of the 1996 travel guides are currently available for your perusal, and included in this week's reading suggestions are some off-the-beaten-path books of advice and adventure. We do have, as well as these types of guides, more mainstream and practical handbooks to popular Spring Break spots like Florida and Disney World, the Caribbean (*sigh*), and Mexico. We particularly recommend the *Lonely Planet* series of guides, which focuses on some less-regularly traveled areas of the world, or the ever-popular budget series *Let's Go*. Don't forget to pack some books, whether you're going to be on a beach or on top of a mountain, and read about home in the following:

Fiction:

Long River—Joseph Bruchac. In the sequel to his novel, *Dawn Land*, Bruchac continues the story of Young Hunter, and draws on his own Abenaki heritage to combine Native mythology with historical fact. Travel back in time 10,000 years to what is now called the Connecticut River.

Archangel—Paul Watkins. Set in fictional Abenaki County, Maine, this tale of environmental terrorism pits a powerful logging company owner against an activist determined to save a tract of forest by any means. Watkins is just 31 years old and has already been compared to Jack London and, according to Benjamin Cheever, even to Ernest Hemingway.

Nonfiction:

If You Can't Remember Your Last Vacation, You Need This Book!—Laura and Jonathan Greenburg. This incredible reference book lists hundreds of ideas and concrete information about all types of vacations around the world, with chapters compiled by experts in each field, on such topics as ballooning, hang gliding, rock climbing, trekking, kayaking, and cultural or natural history. They include a classification system to rate each company, with minimum experience and fitness levels needed, group size, prices, and services provided (rugged to pampered). The authors wrote this book and then formed their own group, Questing Travel Society, in order to provide reliable, unbiased information about such adventures.

Europe on 84 Cents a Day—Gil White. No, the author does not mean \$84! When he says low budget, he means very low, and includes in this creative guide "more than 75 ways to find free or almost-free accommodations, food, and rides. Included is information on 3,000 youth hostels, maps, currency, festivals, and "the specific word and phrases in 20 languages you need to save money." If *Let's Go* is still too pricey, try this guide for creative nomads.

Preventing Traveler's Diarrhea: A Nuts & Bolts Guide—Donald Sullivan. This may be the best \$5 you ever spend! One third of all American travelers to Mexico experience some form, for example. Sullivan offers no-nonsense ways to steer clear of this affliction, and also remedies if it strikes. He covers most areas of the world in this humorous but potentially vacation-saving book.

In Their Footsteps—Henry Chase. If you consider a vacation as a change to keep on learning or chasing your interests without the pressures of structure, consider this guide to African-American heritage sites. Compiled by the travel editor of *American Visions* magazine, it includes nearly 1,000 landmarks in North America, such as museums, cemeteries, battlefields, and famous homes. Chapters on each region open with essays from African-American writers with special connections to that area—Gloria Naylor, Ishmael Reed, and Amiri Baraka, to name a few.

Travelers' Tales: A Woman's World—Marybeth Bond. This is just one volume in a fantastic literary travel series. Some books in the series give historical and literary background information on the particular country discussed, but do so using the stories and essays of different writers and travelers. This particular volume deals with how women experience travel throughout the world. Essays about Cameroon, Borneo, Australia, Bulgaria, Bhutan, the Antarctic, and many others will inspire even, or most of all, armchair travelers.

ELIZABETH A. MORRIS PEACEMAKER AWARD

This award recognizes undergraduate students at the University of Maine who have contributed their active efforts and leadership, however quietly, to the promotion of peace in the community. Activism might include advancing the goals of social justice and non-violence, promoting conflict resolution through dialogue or negotiation, contributing to programs assisting the poor or homeless, involvement in efforts to protect the environment, or like efforts that exemplify the things that make for peace. Nomination deadline: March 29. Award: \$500.

For a nomination form, contact the Wilson Center, 67 College Ave., Orono, 866-4227.



Russell Quaglia, director of the National Center for Student Aspirations and associate professor of education, conducted a workshop with educational, community and student leaders from eight New Hampshire school districts Jan. 12 in Laconia. He presented research and interventions, including the student aspirations survey developed at UMaine, to help schools assess and respond to student perceptions and needs in school reform efforts.

William Baker, professor of history, interviewed with The History Channel in New York City on Jan. 25-16, for commentary on the film, *The Jesse Owens Story*, for which Baker served as historical consultant.

Jay Bregman attended the American Academy of Religion/Society of Biblical Literature annual meeting in Philadelphia, Nov. 18-21, where he presided over a panel on Neoplatonism and the Non-Christian Religions of Late Antiquity. He also attended the business meeting as co-chair of the group on Platonism and Neoplatonism in the third year of a five-year term. At the annual meeting of the APA, San Diego, unable to attend, his paper: "Julian The Byzantine and Synesius the Hellene," was read by the president.

Daniel Sandweiss, assistant professor of anthropology and Quaternary Studies, was recently appointed to the Scientific Committee of FERCO (Foundation of Exploration and Research into Cultural Origins). FERCO is a new Foundation based in the Canary Islands; beginning in 1997, FERCO expects to make annual grants for archaeological research throughout the world. The Scientific Committee will evaluate proposals and make recommendations for funding to the Executive Board.

Several members of the Department of Applied Ecology and Environmental Sciences participated in the annual meeting of the Weed Science Society of America, Feb. 5-8 in Norfolk. **Eric Gallandt**, research assistant professor, presented a research paper: "Weed Population Dynamics in Potatoes: Effects of Soil Management and Pest Management Systems," based on results of the University's long-term potato ecosystem project. **Matt Liebman**, associate professor, and Dennis King, a farmer from North Penobscot, presented an invited paper: "Effective Weed Management Without Herbicides on a Maine Crop and Livestock Farm," at a symposium focused on sustain-

able agriculture. Liebman and **Charles Benbrook**, faculty associate, organized a workshop on measurement of pesticide use in integrated pest management systems; both presented papers in the session. Also attending the meeting was **David Yarborough**, assistant professor and blueberry specialist.

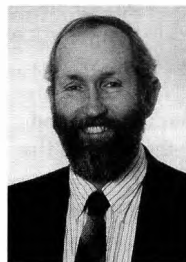
Henry Munson, professor of anthropology, has been awarded a grant by the Woodrow Wilson Center in Washington to spend the '96-'97 year at the Center completing a book about the political role of fundamentalism in the Islamic world, Israel, and the United States.

New on Campus

Among the newest members of the University of Maine community are:

William Ahlback, library clerk, Fogler
Jacqueline Baltunis, scientific technician I, Zoology
Marsella Banks, staff assistant, Equal Opportunity
Michael Book, post-doctoral fellow, Oceanography
Mark Bolduc, research associate, Bio-Resource Engineering
Jennifer Boucher, secretary, Museum of Art
Avis Cote, clerk, Cutler Health Center
Rosemarie Cutchens, secretary, Cooperative Extension-Knox/Lincoln
Phillip deMaynadler, research associate, Wildlife
David Dzurec, project coordinator, New England Food Safety, Coop. Extension
Lori Freid Davis, Extension Educator, Cumberland County
Cynthia Harris, secretary, Cooperative Extension-Knox/Lincoln
Marion Harris, coordinator of co-curricular services for international students, Intensive English
Ronald Heller, instructor, Public Administration
Colin Howlett, Learning Center coordinator, Athletics
Steven Kimball, instructor of mathematics, School of Engineering Technology
Bradly Libby, crop technician, Applied Ecology and Environmental Sciences
Dominick Mattessich, senior associate director, Athletics
Dawn Roy, records technician I, Student Records
Darin Stillman, assistant technical director, Maine Center for the Arts
Andrew Thomas, associate research professor, Oceanography
Craig Turnbull, assistant athletic director/development, Athletics
Lenly Weathers, assistant professor, Civil and Environmental Engineering
Wenhao Zhuang, post-doctoral research associate, Chemical Engineering

CAMPUS LIVING DIRECTOR GOES TO BRAZIL OVER MARCH BREAK



Scott Anchors, director of Campus Living, will be spending most of the upcoming March break in Sao Paulo, Brazil, training the staff at the human resources firm, Saad Fellipelli, in the use of the educational/psychological instrument, the Myers Briggs Type Indicator.

At the request of the instrument's publisher, Consulting Psychologist Press, Palo Alto, Calif., Anchors will assist in training members of the company to use Myers Briggs in outplacement, professional guidance, organizational consulting, and diagnosis and professional development.

Saad Fellipelli is a leading company in outplacement in Brazil, occupying an outstanding position among the four top-rated human resources companies in the Brazilian market. Saad Fellipelli's immediate goal is to translate the instrument into Portuguese, and to use this instrument as a guide for helping people to understand themselves and others in the complex and changing business climate of Brazil.

Anchors is not new to training professionals in the use of the Myers Briggs Type Indicator. Since the early 1980s when he became widely recognized as a knowledgeable expert in this area, he has trained more than 1,500 professionals in how to use the instrument with various client groups.

He uses his vacation time working for a non-profit firm in travels that take him all over North America and occasionally the United Kingdom teaching a wide range of professionals in the business world. Studying the Myers Briggs Type Indicator for almost two decades, he has published a book and numerous articles that have given him wide creditability.

According to Anchors, consulting experiences such as this "enrich my life at the University because of the new perspectives they offer me, opportunities to develop new skills, and of course, to see new and different places."

On his return in late March break, Anchors will be stopping off in the Southern Appalachians of the U.S., and joining a group of staff and students from the University's Maine Bound program to paddle several Southeastern Rivers.

Social Work *continued from page 1*

presence in DHS, and as more of our students go back into the child welfare system, that presence is building and growing."

While cooperation with Tribal Child Welfare Services is relatively new, collaboration with DHS and its child welfare system has been ever-increasing since the social work program evolved into a School in 1988 – one of three undergraduate social work programs and the only MSW program at a public institution in Maine. Efforts include tapping experts in the child welfare field as instructors, including Shawn Yardley, a DHS regional program manager, and Pat Phillips, head of Family Support Services at Eastern Maine Medical Center. For the past two summers, the School of Social Work has offered a supervisors' course for DHS social workers, and annually sponsors a child welfare conference for all DHS employees in the region.

In competing nationally for this latest federal grant, it was UMaine's history of establishing field instruction units in DHS that proved to be a decisive factor in its selection along with Boston University and the University of Chicago, Werrbach says. Federal Title IV-E funds, aimed at reducing the number of children in foster care, were made available to UMaine and the University of Southern Maine four years ago for the training and education of students at the undergraduate level in an effort to increase the number of professionally educated social workers in public child welfare. As a result, field instruction units were established within DHS regional offices in Bangor and Portland in which senior social work students receive on-site mentoring and education. The expectation is that field instruction units will also be initiated in the Presque Isle and Augusta regional offices.

"Each of the last three years, we've placed five UMaine students in field instruction units," says Werrbach. "It is such critical training that DHS program managers and supervisors say our students can then go right to work because they spent a year getting to know Child and Family Services. From the School's vantage, these students help their peers understand the day-to-day life of a public child welfare worker."

CALL FOR PROPOSALS

The Reading Stephen King Conference: Issues of Student Choice, Censorship and the Place of Popular Literature in the Canon **OCTOBER 11-12, 1996**

Submission Deadline: March 15

Sponsored by the University of Maine College of Education, this conference will have three themes - considering the place of Stephen King's work in the canon of books that are required reading in colleges and high schools, exploring issues of censorship in public schools, and promoting the need for adolescent readers to be able to choose books in school reading programs.

Literary scholars, education theorists, high school teachers, parents and students are invited to submit proposals for presentations at the conference. Presentations may be either 45 or 75 minutes long, depending on content and format. Traditional paper presentation formats will be accepted. Non-traditional formats, including workshops, role plays for discussion, multimedia interactive forums, and panel discussions are encouraged. Any presentations which explore the themes of the conference through Stephen King's work will be given special consideration.

Notification of acceptance for presenters will be made by April 15.

Funds are not available to support travel and housing costs of presenters, but a partial waiver of conference fees will be provided.

Proposals (no more than 500 words), including potential audience and rationale, postmarked by March 15, should be sent in quadruplicate to: Reading Stephen King, 5766 Shibbes Hall. For information, call Susan Russell, 581-2438.

Springboarding off the success of the field instruction units at the undergraduate level, the new federally funded graduate initiative in child welfare will attempt to establish similar placements in DHS regional offices, Werrbach says. Such field internships could provide the critical experience to turn the tide and encourage more MSW students to go into child welfare services.

"Traditionally social workers work with the most vulnerable children and families in need of services," says Werrbach. "Thirty to 40 years ago, you would have found more professionally educated social workers in public child welfare. Gradually, however, MSWs gravitated toward mental health services and private practice, leaving public child welfare. That's why in 1980, when the federal government began looking at the rising rates of children in foster care, the emphasis turned to improving education, recruitment and retention."

"Part of this project has to do with establishing field internships at graduate level. It's time for the social work profession to renew its commitment to public child welfare."

At the MSW level, social workers have advanced skills, especially in clinical and administrative areas, Werrbach says. As a result, most social workers with MSWs in Maine are working for DHS out of its headquarters in Augusta. There are 23 social workers with MSWs in DHS, only four of whom are located in rural areas. Of the 350 social work positions in the Bureau of Child and Family Services in Maine, only 30 – 8.5 percent – are held by MSW graduates, says Werrbach.

Of the 148 MSW students graduated from the University since 1990, all but four are now working in Maine. Most are in the mental health and healthcare fields; three currently are employed by DHS.

"The assumption is by recruiting and retaining professionally educated social workers, services will improve to children and families. There is up to a 75 percent personnel turnover nationally in public child welfare. That's the whole purpose of Title IV-E and the new federal MSW grant – to recruit, educate and retain child welfare social workers."

"Most people think about child welfare in terms of abuse, but families who come to the attention of public child welfare systems come with issues due primarily to poverty. Most children are in foster care because of substandard living conditions and lack of resources," says Werrbach.

"From the School's perspective, we believe that social workers have the critical skills to work with families in poverty, to develop resources, and influence legislation for families and kids." ▲

FRATERNITY/SORORITY LIVE-IN ADVISOR CANDIDATES NEEDED

All UMaine fraternities and sororities with houses now employ live-in advisors. They have proven to be very helpful resources for the young men and women residing in our Greek community. If you know of someone who might wish to serve as a live-in advisor, please share this correspondence with them.

Specific qualifications for the position would be: a sincere interest in advising young men and women in a cooperative living environment, a mature presence that reflects insight and wisdom gained from life experiences, the ability to establish a good working relationship with people, an appreciation for the importance of putting forth a maximum effort in the area of scholastic achievement, and an ability to be firm and decisive when appropriate.

Complementary room and board would be available to all live-in advisors, along with the possibility of a stipend. Traditional house mother candidates also welcome.



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

FOR SALE

AUTOMOBILE: 1988 Mazda MX6-DL in excellent condition. Moon roof, dynamic sound system, all power windows, cruise control. Distinguished grey. It's a fast and fun car, and runs nicely - \$3,500. Call 866-5509 in the evenings.

COCKATOO: Large salmon-colored eight-year-old cockatoo for sale with large cage. Rosie does not talk but is desperate for attention, present owner no longer has time for her, she is very affectionate and would make a great, loving, loyal pet. She is very friendly and loves to go with you inside and out. Asking \$850 with cage. Call 827-5184 after 5 p.m.

EXERCISE BIKE: Heavy duty construction, large padded seat, tension control, timer, speedometer, excellent condition. \$45. Call 827-5184 after 5 p.m.

ATTENTION FACULTY AND STAFF

Free, individualized exercise programs are available at the Latti Fitness Center, 11 a.m.-1 p.m., Monday, Wednesday, and Friday. For more information, contact Carl Taylor, strength and conditioning student intern with the Fitness Center, 862-4751.

SURPLUS SALE: The University of Maine offers for sale, on an as-is where-is basis, the following: (8) DISPLAY CASES, 4'W x 7'H x 18"D, oak and 1/4" plate glass, 5- glass on 3 sides, 3- glass on all sides, used for the University Stein Collection, \$500 each; (25) SINGLE LOCKERS, metal, approx. 6'H x 15"W x 18"D, \$10 each; (1) 386DX 40 COMPUTER, Raven Hill, \$350; (1) FAX MACHINE, Brother 980M, plain paper, will ONLY RECEIVE, \$50; (1) COMPUTER DESK, pressboard, sturdy, open shelves and riser, \$30; (4 boxes) 5.25" DISKS, high density, \$1.50 each; (7 boxes) 5.25" DISKS, double density, \$1.50 each; (1) AB SWITCH BOX, \$10; (1) DAYNA DRIVE, translates old IBM files into Macintosh, \$50; (6) TIRES: (2) 600x16 tube type 4 ply, (1) G78x14 Horseman snow, (1) 650x16 retread regular, (1) L78x15 retread regular, (1) 650x16LT regular, \$10 each OBO; (1) FOUR PERSON COMPUTER TABLE, \$100; (2) TYPING STANDS, \$20 each.

Off campus inquiries are welcome. Items usually sell for the prices specified, however, lower offers are sometimes considered. For further information contact Ron Logan, Purchasing Dept., 581-2692. E-mail Logan@Maine.

FREEZER LAMB AND BEEF: Call for prices. Witter Center, 581- 2793.

HOUSE: Five-year-old Orono house 6 miles from UMaine, 1 mile from Bangor. Four wooded acres landscaped with apple trees, nut trees, organic garden and a stream. Tri-level with red cedar siding. Seven ample-sized rooms and 2 full baths, oak cabinet kitchen, living room with raised heart granite fireplace, dining room to a pressure-treated deck. Three bedrooms with master bedroom, a private full bath. Large family room on lower level with a wood stove. Insulated, heated 2-car garage. Private drilled well and circular gravel driveway. Less than a mile from Pushaw Lake on outer Essex Street. Call for a showing, 942-2945. Priced at \$122,900.

HOUSE: Old town - 3-5-bedroom ranch; 1 1/2 baths, 2-car garage, perennial and herb gardens, large vegetable plot, quiet neighborhood on dead-end street, close to schools. Asking \$89,000. Call 827-2136.

MOBILE HOME: 14' x 60' Oxford, vinyl sided and shingled roof. Includes all appliances, attached entrance, and shed. Close to campus. Low lot rent. Very good condition. \$14,900. 827-2243.

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. \$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: 2nd floor apartment available in March. Located in family neighborhood in Old Town with ample parking, garden space and storage. Walking distance to bus line, schools, and bike

trail. Apartment has wall-to-wall carpets, washer/dryer hookup, and sunny rooms. Rooms are freshly painted and cleaned! \$450 month plus utilities. We take care of plowing, mowing, water and sewer. Call 866-3844.

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/w paid, \$400/month. 989-3048.

APARTMENTS: Bradley—large, spacious, well-maintained one bedroom apartments located in quiet country setting approx. seven miles to Old Town/Orono. Rents start at \$300/month plus utilities. Applicant must meet certain income guidelines. Thirty-day lease and security deposit required. For more info call 827-7998 after 5 p.m.

APARTMENTS: One-bedroom second floor apartment on Elm St. in Orono. Smoke free, no pets. \$340/month includes heat, water and sewer. Available March 1. Call Nick or Sandy, 866-7152.

STUDENT ROOM: available March 15, \$190/month, shared living/kitchen/bath, the Wilson Center, 67 College Ave. Call 866-4227 for application and information.

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.

SERVICES

ANGEL WING DESIGNS: A local service designed to make your home more heavenly. Spring cleaning, painting, wallpapering - all at down-to-earth prices. Call Mary, 827-5724.

EDITOR/WRITER: Professional, efficient, reasonable. MLA, APA & Chicago Manuals of Style. Fifteen years of experience. Call Kay, 338-6468.

CENTRAL SUPPLY UPDATE

Beginning this month, Central Supply will be adding a new style laser toner cartridge to stock. The new cartridge is compatible with series IV printers. 80-75400 laser toner IV cartridge

HP#92298A CANON#R74-1001 \$99.36

80-75200 laser toner II & III cartridge

HP#92295A CANON#R64-0002 \$62.86

Paper prices are going back down!

We are glad to announce that the new shipment of Finch Bright White 8 1/2" x 11" photocopy paper (80-70150) will be noticeably less. We expect to take delivery by March 1— call for pricing. Counter: x2701 and x2702. E-mail: umstock@maine.maine.edu.

Positions Available

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

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.

Research Associate, Department of Mechanical Engineering. Full-time position. Initial appointment is for one year with renewal contingent on internal funding. Qualifications: Master's degree in mechanical engineering or related field; experience with computers and data acquisition systems; and experience in using state-of-the-art materials testing systems. Experience with Word, Excel, Publisher and PowerPoint software is highly recommended. Must be able to handle multiple projects at once and work well with constant deadlines. Should have excellent communication skills and be capable of exercising judgment and initiative. Salary Range: \$25,000-\$30,000. Review of Applications: Will begin 3/11/96. Position Available: 9/1/96. Contact: Donald Grant, Chairperson, Department of Mechanical Engineering, 5711 Boardman Hall, Orono, ME 04469-5711.

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.

DNA Research *continued from page 9*

Another Ph.D. candidate, Yan Kit Tam of Hong Kong, is applying similar techniques to Gulf of Maine lobster populations. His work will determine how much intermixing there is among groups of Gulf lobsters.

Alex Parker, a Ph.D. student from New Mexico, uses DNA to track the evolutionary history of fish species. "What I do is less applied and more of interest to academicians," he says. For his dissertation, Parker is comparing certain DNA markers among populations of killifish, a globally common genus. Because Lake Titicaca in Bolivia has the world's most diverse species of killifish, Parker spent three weeks there collecting samples in order to test hypotheses about their development.

"It had been suggested that the closest relatives to the Bolivian fish are in the Middle East," Parker notes. "It wasn't obvious just from looking at the fish, but it turns out that's right."

Parker also works with Kornfield on populations of cichlid fishes, a family also found worldwide, in Lake Malawi in east Africa.

Of Ticks and Clams

If there is a DNA "quick stop" at UMaine, Diane Caporale's lab is it. The DNA sequencing facility in Hitchner Hall was established with grant funds from the state and the federal governments. The machine which sequences DNA fragments is one of only three in Maine (two others are at Jackson Laboratory in Bar Harbor). Caporale analyzes DNA sequences for students and faculty at UMaine as well as scientists from private businesses and other universities, including Harvard and Yale.

"I do a lot of work with students," she says, "and make sure that they have prepared their samples correctly. If they haven't purified the DNA properly, impurities can interfere with the analysis."

Prior to sequencing a sample, Caporale adds primers provided by the researchers to lock on to the DNA at specific places. She then goes to PCR using the thermocycler, the DNA copy machine, and makes copies of the DNA fragment of interest. With the addition of a stew of chemicals which attach differently colored fluorescent compounds to each DNA base, the sample is ready for sequencing.

In her own research, Caporale works with Rebecca Van Beneden on determining whether or not Downeast softshell clams have genetically distinct populations. She is also studying deer ticks which are infected with the Lyme Disease bacterium and which carry two other human diseases, a protozoan which causes babesiosis and a bacterium which invades white blood cells.

By comparing DNA samples from geographically separate groups of organisms, Caporale is attempting to determine whether or not the groups constitute separate species and to what extent they have intermingled. "I'm virtually the only one determining the spread of human disease in Maine using PCR," she says. Information about the intermixing or spread of distinct populations can help researchers determine how diseases are spread and whether the causes are likely to be environmental.

Genetic Basis for Heart Rhythms

The rhythmic beating of a fruit fly heart may someday enable medical researchers to test new heart treatments for humans. Before that day arrives, however, scientists must understand the genetic basis for the heart beat. UMaine scientists John Ringo and Harold Dowse, respectively professor and associate professor of zoology, and Ph.D. student Eric Johnson are looking for the genes which regulate heart rhythms.

"To date, we have studied about 30 different genes, and there are effects on heart rhythm with only a few," says Ringo. To see the effect of a genetic mutation, Dowse has developed a precise monitoring system which begins with Johnson placing mutant or normal flies under a microscope. Because the fly is translucent, the beating heart shows up clearly, and its image is fed to an oscilloscope and a computer. Johnson puts the hearts through their paces by literally turning up the heat.

As temperature rises, the normal heart speeds up. However, the heart in a mutant fly may falter and thus indicate that the mutation affects the heart.

"It has taken a long time to get started, to develop a reliable system, to find out what's happening in the wild type (non-mutant flies), to develop ways of measuring regularity and speed of heart beat," says Ringo. "Just controlling the temperature alone, it turned out, and making a rigorous schedule of random sampling turned out to be serious problems."

The team found that one mutant gene, named naps, had a profound effect on heart rhythms. Flies with this mutation experience erratic heart beats which become weaker and more irregular as temperature increases. No one yet knows how naps affects the heart's pacemaker. It is likely, says

Ringo, that the effect is indirect. It may occur through the action of another gene which it regulates.

"Now, things are really coming together," Ringo adds. "We should be able to engineer slightly damaged copies of genes and ask what is required for normal functioning, or conversely what alleles of that gene cause abnormal functioning. So one can by this process pinpoint parts of DNA that are critical, or not, to some particular physiological function."

Genetic Clocks

Richard Blake, professor of biochemistry, has studied the physical-chemical properties of DNA since 1958. He came to UMaine in 1973. "DNA is kept together by complex forces which are not completely understood," he says. "Temperature, for example, has variable effects on base pairs and their neighbors."

Blake has pursued questions about what holds DNA together, how it unwinds, or melts, under rising temperatures and interacts with proteins, ions and the water in which it is constantly bathed. He has developed a model which correlates the sequence of bases with the unwinding process.

He has also studied DNA's role in evolution. The molecule changes sequences with a clocklike, metronomic rate which can be used to track evolutionary changes over the course of many generations, Blake explains. The speed of the clock varies with some genes changing much more rapidly than others.

Blake works with his son Jon, a professor of computational linguistics at Tennessee Technological University, on the origins and evolution of the portion of the genetic code that is a characteristic of all DNA sequences. The goal of their work is to develop effective computer programs to discriminate useful sequences which help make proteins from meaningless ones which do not. Scientists have known for some time that apparently useless pieces of DNA, also called "junk DNA," exist amidst perfectly good genes. Identifying these sections in massive data sets, such as those produced by Diane Caporale's lab, would help scientists find meaning in the DNA building blocks.

Blake also works with Bruce Nicholson on a project to determine the pattern of mutations in double-stranded RNA viruses. ▲

15TH ANNUAL

PROFESSIONAL EMPLOYEE ACHIEVEMENT AWARDS

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

Three awards are provided annually to professional employees whose actions and activities above and beyond normal work responsibilities have provided outstanding service to their fields, to the University, or to the community as a whole. In recognition of the employees' accomplishments and contributions, a cash stipend of \$1,000 is presented to each awardee. Awards are presented at the annual Outstanding Employee Banquet held in the spring.

A professional employee must be nominated by another University employee. To be eligible for an award, the employee must be a current represented or non-represented professional employee with a minimum of three years of continuous service to the University. The employee need not be in the same position over that three-year period. When nominating an individual, please describe the actions and activities that deserve consideration for the award; include the positive impact the person has had on the field, the University, or outside community organization. Describe the unique characteristics that set the performance of the individual above normal, expected performance levels. Letters of recommendation must be limited to two type-written pages.

Nomination forms and additional information are available from Barbara Hikel, Chair of the PEAC Awards Committee, 114 Alumni Hall, x1507, or, Ency Whitehill, Chair of the Professional Employees Advisory Council, Cutler Health Center, x1480.

Serving on the Awards Committee are former recipients of Professional Employees Awards.

Deadline for receipt of nominations is March 29. Submit nominations to Barbara Hikel, Chair PEAC Awards, 114 Alumni Hall, x1507, FAX x2623.



National Science Foundation's Combined Research and Curriculum Development Program in engineering makes grants of up to \$400,000 for projects that incorporate research advances in important technology areas into upper-level undergraduate and graduate curricula. Concept papers are due March 22, preproposals May 3.

U.S. Department of Energy invites research to promote improvements in high-throughput, integrated approaches to large-scale human genome sequencing and its analysis. Proposals to address ethical, legal, and social issues that may arise from the use of information resulting from the Human Genome Project are also sought. Preproposals are due March 28; full proposals, July 11.

The ARC makes grants of up to \$25,000 for research relevant to the prevention, amelioration, or cure of mental retardation. 1996 priorities: (1) enhancing opportunities for inclusion and choice, with particular interest in assistive technology and cognitive access, and (2) prevention, with particular interest in FAS prevention. Deadline: April 1.

U.S. Geological Survey invites research proposals for the National Earthquake Hazards Reduction Program, supporting projects to evaluate national, regional, and selected urban hazard and risk; improve understanding of earthquake processes; develop real-time hazard and risk assessment; and improve geologic hazards information services. Deadline: April 10.

U.S. Department of Transportation's Dwight David Eisenhower Faculty Fellowships support faculty development in transportation fields with awards of up to \$5,000 for participation in domestic conferences, courses, seminars, and workshops. Deadline: April 15.

National Science Foundation and the Environmental Protection Agency will jointly support a special awards competition in FY96, funding research in three targeted areas: multi-disciplinary investigations of water and watersheds, technology for a sustainable environment, and decision making and valuation for environmental policy. Deadline: May 7.

VOICE

Volunteers In Community Efforts

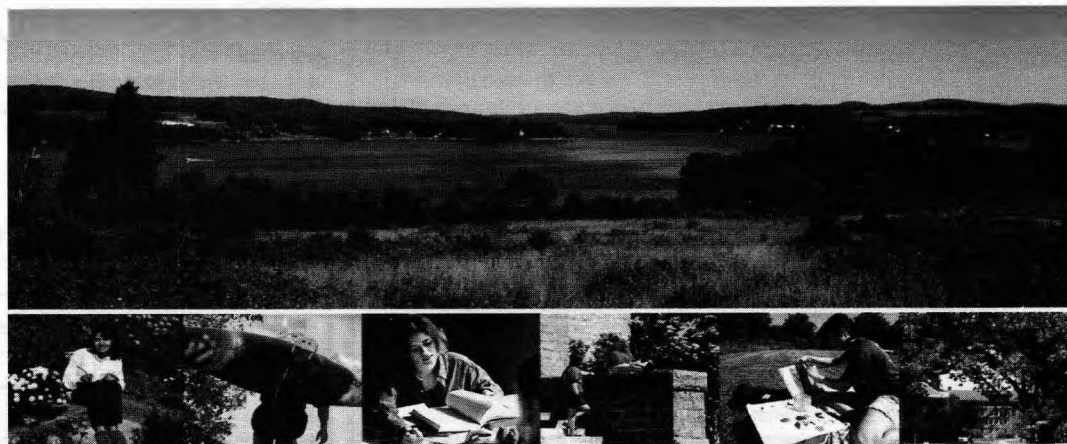
VOICE is a program of the Student Activities and Organizations Office, a Student Services Division. VOICE (Volunteers in Community Efforts) promotes volunteerism, acting as a clearinghouse for students, faculty, staff, and community members interested in making a difference in the local community. The 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.

▼ Crossroads Ministries needs volunteers to help sort food and clothing and greet families upon arrival. For information, contact Brenda Davis, 394-4655.

▼ Volunteers who are interested in working with children in local elementary and middle school classrooms can sign up for Adopt-a-School. For information, stop by the VOICE office on the third floor of the Union.

▼ Faith in Action of Eastern Maine is looking for volunteers to assist and befriend local elderly. For more information contact Marie Dow, 989-6955.

▼ Adopt-a-Senior is a program designed to involve UMaine with the local elderly who need extra help around the house. For more information, call the VOICE office at 581-1796.



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