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## Maine Perspective

Department of Public Affairs, University of Maine

John Diamond

*Director, Department of Public Affairs, University of Maine*

Tim Boyd

*Photographer, Department of Public Affairs, University of Maine*

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# Maine Perspective

A PUBLICATION  
FOR THE  
UNIVERSITY OF  
MAINE

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APRIL 21, 1995



## Private-Public Investment in UMaine Education Reflected in Improvements that Enhance Quality

A partnership of public and private investment in University of Maine higher education – its students and its faculty – will be reflected in the completion of one and the start of two major capital improvement projects on campus this summer and into the next academic year.

An important facet of that partnership is the personal commitment of donors to the University of Maine – those who will be recognized for their vision of educational excellence with the naming of facilities in their honor.

All of the capital projects are indicative of the success of the University's \$54.4 million Campaign for Maine that began in 1989 – the largest comprehensive campaign for buildings, scholarships, faculty endowments, equipment, and student support services ever undertaken by the institution.

"The objectives of the Campaign include raising the level of excellence in the learning environment, providing greater support to academically talented students and support to our quality faculty through faculty endowment, and the upgrade of our facilities that benefit all," according to Robert Holmes, vice president for University Development. "Ever-improving the quality of our learning environment will allow us to recruit and retain the most promising students and faculty, and better serve the citizens of Maine."

Three of the University's most exciting capital improvements were made possible by the Maine voters through a 1988 bond issue that, among other things, provided partial funding for new facilities to replace inadequate accommodations and provide

quality resources for the campus community and the state. Construction is expected to begin this summer on the Edward Bryand Global Sciences Center to house the Department of Geological Sciences and the Institute for Quaternary Studies 18 months from now. The \$1 million naming gift from Bryand, a member of the Class of '52 from Saco, has moved the three-story facility closer to reality. To be located between Libby Hall and Sawyer Environmental Research Center, the \$7.5 million Bryand Global Sciences Center was made possible by \$5 million earmarked from the 1988 bond issue, \$1 million in federal monies and \$1.5 million in private fund raising, which is ongoing.

The public-private partnership that has allowed capital improvements to progress at UMaine is especially evident in the building that will house the School of Performing Arts, which has been under construction since last fall. Formerly known as the Center for the Study of the Performing Arts (CSPA), the facility will be named the Class of 1944

*continued on page 7*

### In Perspective

- 2 Senior Project Poster Session
- 6 People in Perspective
- 8 In Focus: Maine
- 9 Cutting Edge

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

## Issues, Topics in Education the Focus of Poster Session

More than 40 future teachers will share their new knowledge and understanding of special interests or controversial topics in education during the spring Senior Project Poster Session on Monday, May 1, at the College of Education.

The time of the event, 4-6 p.m., on the busiest Continuing Education evening of the week, is planned to allow an exchange of ideas, heighten professionalism, and encourage networking between two generations of educators – those just embarking on their careers and those seasoned in the application of theory to practice.

Exhibits will be set up on the first, second and third floors of Shibles Hall, where students will present information and discuss their findings with educators and other interested visitors from the campus and community, including representatives from public schools involved in the College's collaborative field-based teacher preparation program. Students may choose either an educational research or a school practice project and present their findings in the poster session or in another approved professional setting, such as a conference or a faculty development program in a participating school district.

The goal is to enable students to meet and present their results to practicing professionals, and to receive feedback and constructive comments about what does and doesn't work in the public school culture, according to Dennis King, assistant professor of education and coordinator of the senior seminar which culminates with a capstone professional presentation experience and project. In addition, the experienced educators have the opportunity to gain ideas and information that might be helpful in their school systems and to meet some enthusiastic pre-service teachers who someday might be working beside them, King says.

*continued on page 15*

## Industrial Assessment Center Helps Businesses Save Energy

While giving students hands-on experience in engineering, a University of Maine energy conservation center has recommended savings worth \$1.8 million to 37 manufacturing plants in Maine since 1992. The UMaine Industrial Assessment Center (IAC) offers no-cost energy conservation and waste-minimization audits to medium-sized businesses throughout the state.

"Managers of manufacturing plants are good at production," says Scott Dunning, director of the IAC, "but they don't generally have time to step back and ask, 'how can we save energy?' That's where we come in."

Firms as diverse as lumber mills, metal working plants, food production and printing companies have taken advantage of the service. To qualify, they must employ fewer than 500 workers, have less than \$75 million in gross sales and spend less than \$1.75 million on energy expenses. It is assumed that larger businesses have the expertise to do their own audits, says Dunning.

With a \$155,700 grant from the U.S. Department of Energy, the Center has emphasized energy conservation, and waste reduction became part of its mission last fall.

Chris Stephenson of Morrill, a 1994 graduate of the UMaine Engineering Technology Program, conducted audits for the IAC as part of his education. "It's a little intimidating to stand before the plant manager and maybe the company's CEO and tell them what you've found," says Stephenson. "As soon as I realized that

*continued on page 15*



Elementary education majors Kristen Braun, left, and Chris Gamble, right, confer with College of Education faculty Dennis King and Pamela Schutz in preparation for the May 1 Senior Project Poster Session, taking place from 4-6 p.m., Shibles Hall. Braun developed a hypercard system of professional publications for elementary educators as her field-based research project, and Gamble is studying the impact of a motivational program on high school students and how it might be designed for the elementary level.

Photo by Tim Boyd

## Student Art Exhibition Opens

The work of 66 University of Maine art students will be on view from through Wednesday, May 3, in the UMaine Museum of Art's annual student exhibition in Carnegie Hall.

The 1995 Student Art Exhibition features 110 artworks, including paintings, drawings, photographs, artists' books, prints, sculpture and video art, created within the last 12 months. Christopher Crosman, director of Farnsworth Art Museum in Rockland, and Robyn Holman, former assistant curator at the Olin Arts Center, Bates College, and current arts coordinator of the University of Maine's Lewiston-Auburn College, juried the exhibit.

*continued on page 15*

**There are two issues of *Maine Perspective* remaining this semester. If you have news or information to be included, please send it to *Maine Perspective*, e-mail [nagle@maine](mailto:nagle@maine), fax x3776, or call x3745.**

## Maine Perspective

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University of  
**Maine**

# U Maine Calendar

APRIL 24-MAY 4

**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.

## 24 Monday

**"Politics and Current Trends of Conservation in Zaire: Issues and Priorities, by Trinto Mugangu,** visiting scientist from Zaire, part of the Wildlife Ecology Seminar Series and the Earth Week '95 Celebration: "Many Communities, One Earth," noon, April 24, 204 Nutting Hall. x2862.

**"Religious Perspectives on Our Relationship to the Earth,"** featuring speakers from Bahá'í, Christian, Hindu and Native American perspectives, offered by the UMaine Religious Affairs Committee as part of Earth Week '95 Celebration: "Many Communities, One Earth," noon, April 24, Bangor Lounge, Union. x3777.

**Mamma and Uncle Willy,** a video featuring poet Maya Angelou followed by discussion, part of the Ecumenical Brown Bag's "Sacred Stories" series, 12:15 p.m., April 24, Memorial Room, Union. 866-4227.

**"All My Relations - The Uluru Experience, a Mythic Journey to Ayers Rock, Australia,"** by Hulda Warren, founding member of SPHERE - Sustainable Peace Here, 12:15-1:15 p.m., April 24, Totman Lounge, Union. x3777.

**College of Education Recognition Ceremony,** 4 p.m., April 24, Dexter Lounge, Alford Arena. x2441.

**"Environmental Law and the Engineer,"** by Matthew Manahan, attorney with Pierce, Atwood and Scribner, part of the Environmental Management Seminar Series, 4:10 p.m., April 24, 100 Jenness Hall. x2301.

**College of Social and Behavioral Sciences Recognition Ceremony,** 4:30 p.m., April 24, Woolley Room, Doris Twitchell Allen Village. x1954.

**Speed,** part of the Roll It Again Cinema video series, 6:30 p.m., April 24, Sutton Lounge, Union. x1734.

**"Architecture at the Crossroads Revisited: An Exploration of Sustainable Design,"** by Susan Maxman, former president of the American Institute of Architects and member of the President's Council on Sustainable Development, 7 p.m., April 24, 100 Corbett Business Building. x3777.

**Earth Day Special,** a half-hour television program on WABI-TV, Channel 5, produced by the Department of Public Affairs as part of Earth Week '95 Celebration: "Many Communities, One Earth," 7:30-8 p.m., April 24. x3777.

## 25 Tuesday

**Office of Human Resources Open House,** featuring doorprizes, refreshments, tours and information about services available, 10 a.m.-2 p.m., April 25, first and second floors, Corbett Hall. x1581.

**"Dark Skies are Beautiful Skies,"** by Frank Winbey, part of Earth Week '95 Celebration: "Many Communities, One Earth," 12:15-1 p.m., April 25, Totman Lounge, Union. x3777.

**"HIV/AIDS Needs in Maine,"** part of the Healthspeak series, 12:30 p.m., April 25, Bangor Lounge, Union. x4194.

**Speed,** part of the Roll It Again Cinema video series, 3:15 p.m. and 6:30 p.m., April 25, Sutton Lounge, Union. x1734.

**Honors Convocation,** 3:30 p.m., April 25, Wells Conference Center.

**Seminar on Managing Available TIAA/CREF funds,** offered by Fidelity, Perspective Advisory Co., Financial Services of New England and University Credit Union, 4:30 p.m., April 25, Credit Union. x1458.

## 26 Wednesday

**Exhibit of Nursing School Projects,** 9 a.m.-4 p.m., April 26, FFA Room, Union.

**Orono Royal,** a student livestock show by the University of Maine Animal Club, 10 a.m., April 26, Witter Center. x6330.

**A New Prosperity,** part of the video series: *Canticle to the Cosmos* with Brian Swimme, offered by the Peace Studies Program and other sponsors, noon, April 26, Totman Lounge, Union. x1036.

**Poetry Free Zone presents "Happy Trails! (Even Cowgirls Get the Blues),"** noon, April 26, Honors Center. x3264.

**"Ethical Use of Animals,"** a Department of Wildlife Ecology seminar, part of Earth Week '95 Celebration: "Many Communities, One Earth," noon, April 26, 204 Nutting Hall. x3777.

**Faculty Senate Meeting,** 3:15 p.m., April 26, Lown Rooms, Union. x1167.

### LAWN MOWER CLINIC

A Lawn Mower Clinic will be held 8 a.m.-2 p.m., Saturday, April 29, Perkins Hall (behind the Child Study Center; look for signs). Fee of \$20 will include new sparkplug, oil change, blade sharpening, air filter cleaning and pressure washing. Machines may be dropped off Friday, April 28, noon-5 p.m. and Saturday, 8 a.m.-noon. For more information, call x2727.

*Sponsored by the Maine Agricultural and Forest Engineering Association.*

**College of Natural Resources, Forestry and Agriculture Recognition Ceremony,** 6:30 p.m., April 26, Wells Conference Center. x3202.

## 27 Thursday

**Do-It-Yourself Database Searching Workshop** for humanities and social sciences faculty, staff and students, 1-2:30 p.m., April 27. Registration required. x3611 or e-mail christin@maine.

**"Kant's Theory of Truth,"** by Jitendra Nath Mohanty, professor of philosophy, Temple University, part of the Department of Philosophy Colloquium Series, 4 p.m., April 27, Levinson Room, Maples. x3860.

**Civil War Roundtable Meeting,** featuring Richard Hale speaking on: "The Shenandoah Campaign," 7:30 p.m., April 27, 204 Nutting Hall. 866-4056.

**"Reflection on the Election,"** by Susan Collins, Republican gubernatorial candidate in the 1994 Maine elections, offered by the College Republicans, 8 p.m., April 27, Dam Yankee, Union. x8879.

**"The Philosophy and Legacy of Mahatma Gandhi,"** by Jitendra Nath Mohanty, professor of philosophy, Temple University, part of the Department of Philosophy Colloquium Series, 8 p.m., April 27, Peabody Lounge, Union. x3860.

**Thursday Night at the Bear's Den with Open Mike Night,** 9 p.m., April 27, Union. x1734.

## 28 Friday

**Jazz Ensemble performance,** part of the TGIF music series, 12:10 p.m., April 28, Bangor Lounge, Union.

**"History of Tree Introduction to the United States,"** by Richard Campana, part of the Plant Biology Seminar Series, 1:30 p.m., April 28, 101C Deering Hall. x2971.

**"Polymer Dynamics in Non-dilute Solutions,"** by George Phillies, Worcester Polytechnic Institute, part of the Department of Physics and Astronomy Colloquium series, 3:10 p.m., April 28, 140 Bennett Hall. x1039.

# Ongoing Events

## Athletic Events/Recreation

**Latti Fitness Center**, 6:15-10 p.m., Monday and Wednesday; 7 a.m.-10 p.m., Tuesday and Thursday; 6:15 a.m.-8 p.m., Friday; 10 a.m.-7 p.m., Saturday; 10 a.m.-9 p.m., Sunday. Admission fee. x1082.

**Swimming, Wallace Pool**, 6:45-8 a.m., Monday, Wednesday, Friday; 11:45 a.m.-1 p.m., Monday-Friday; 6-7 p.m., Monday-Friday (children allowed); 9-10 p.m., Sunday-Thursday (students only); 10:30 a.m.-noon, and 2:30-5 p.m., Saturday (children allowed); 2:30-5 p.m., Sunday (children allowed). Admission fee/rec pass. x1082.

**Senior Swim**, a class for those 55 and older, 10-11 a.m., Monday, Wednesday & Friday. Registration fee. x1082.

## Entertainment

**"Worlds of Wonder,"** a Planetarium show, 2 p.m. every Sunday, through April 28, Wingate Hall. Admission fee. x1341.

**"More Than Meets the Eye,"** a Planetarium show, 7 p.m. every Friday, through April 28, Wingate Hall. Admission fee. x1341.

**Dancing at Lughnasa**, part of the Hauck Mainstage Series, 8 p.m., April 28-29; 2 p.m., April 27 and April 30, Hauck Auditorium. Admission fee. x1773.

## Exhibits/Demonstrations/Tours

**"A" Is for Architecture**, a Museum of Art exhibit, April 26-June 11, Graphics Gallery, Union. x3255.

**University Student Art Annual Exhibition**, a Museum of Art exhibit, through May 3, Carnegie Hall. x3255.

**Museums by Mail: Open Workshop**, a Museum of Art exhibit, May 5-Aug. 4, Carnegie Gallery, Carnegie Hall. x3255.

**Pop as Mannerism: Recycling Visual Conventions**, a Museum of Art exhibit, May 12-June 26, 1938 Gallery, Carnegie Hall. x3255.

**Pine, Plum and Bamboo: The Arts of Stencils**, a Museum of Art exhibit, through May 26, Hole in the Wall Gallery, Union. x3255.

**Susan Mills: Twice Born**, a Museum of Art exhibit, May 29-July 16, Hole in the Wall Gallery, Union. x3255.

**Celebration: Alumni Gifts to the University Art Museum**, a Museum of Art exhibit, June 1-16, Carnegie Gallery, Carnegie Hall. x3255.

**Marriage a la Mode: and other 18th Century Engravings by William Hogarth**, a Museum of Art exhibit, through June 16, Hauck Auditorium Gallery, Union. x3255.

**China: Exploring the Interior, 1903-04**, a Hudson Museum exhibit, through June 25, Maine Center for the Arts. x1901.

**Bound for Whampoa: Art and Artifacts of the Orient**, a Hudson Museum exhibit, through June 25, Maine Center for the Arts. x1901.

**Scroll Paintings of Xiong Zhi-Chun**, a Hudson Museum exhibit, through June 25, Maine Center for the Arts. x1901.

**David Rosenthal: Paintings from Antarctica**, a Museum of Art exhibit, June 30-Aug. 18, 1938 Gallery, Carnegie Hall. x3255.

**Maya Ceramics from the Palmer Collection**, a Hudson Museum exhibit featuring 43 Maya ceramic vases, July 5-Oct. 8, Maine Center for the Arts. x1901.

**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.

**Page Farm and Home Museum** open Monday-Friday, 10 a.m.-2 p.m. x4100.

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

**Athletic Mementos and Memorabilia Past and Present**, an M Club-sponsored exhibit, Memorial Gym Lobby.

**Lyle E. Littlefield Trial Ornamental Garden**, display of more than 2,000 varieties of landscape plants, Rangeley Road.

## Meetings of Groups/Organizations

**PEAC** meets the first Thursday of the month, noon, FFA Room, Union. x2456.

**Interdisciplinary Training for Health Care for Rural Areas Brown Bag Lunch**, open staff meetings held every three weeks (April 24, May 15), noon-1 p.m., Hamm Room, Union. x2591.

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

**UMaine VOCALS** meets every Monday, 7 p.m., Totman Lounge, Union. x6758.

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

**Overeaters Anonymous** meets every Wednesday, noon-1 p.m., Davis Room, Union.

**AI-Anon** meeting every Thursday, 11 a.m., Old Town Room, Union. 947-5855.

**NTS Coffee Hour** every Thursday, 3:15 p.m., Commuter Lounge, Union. x1734.

**Prisoners of Gender**, a gender discussion group, meets every Friday, 2:15 p.m., 1912 Room, Union. x3801.

**International Students' Coffee Hour** every Friday, 4 p.m., Damn Yankee. x2905.

## Religious Worship

**Newman Center/Our Lady of Wisdom Parish Weekly Liturgy:** Sunday, 9:30 a.m. and 6:15 p.m., Newman Center, 11:15 p.m., Bangor Lounge, Union; Monday-Thursday, 4:45 p.m., Newman Center. Confessions every Sunday, 5:30 p.m., Newman Center. 866-2155.

**Worship and Celebration at the Wilson Center**, followed by a light supper of soup and bread, every Sunday, 5 p.m., 67 College Ave. 866-4227.

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

**Get-together with Orono Campus Ministers**, every Monday, Wednesday and Thursday, 11:30 a.m.-2 p.m., Memorial Room, Union. 866-4227.

**Ecumenical Brown Bag**, mid-day prayers followed by discussion of "living our faith questions," led by Rev. Deborah Adams, every Monday, 12:15-1 p.m., Memorial Room, Union. 866-4227.

**A Bahā'ī Fireside**, every Tuesday, 7 p.m., Totman Lounge, Union. 581-7095.

**"A Taste of Home,"** home-cooked meal prepared by local church members, Wilson Center, every Thursday, 5:30 p.m., 67 College Ave. \$2 donation. 866-4227.

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

## Miscellaneous

**Bumstock**, April 28-29, Hilltop Concert Stage. x1734.

**Study Abroad Resource Room** open 11 a.m.-noon and 1-3:30 p.m., Monday; 9-11 a.m. and 1-4:30 p.m., Tuesday; 11 a.m.-3 p.m., Wednesday; 9-11 a.m. and 12:30-4 p.m., Thursday; and noon-2:30 p.m., Friday, third floor, The Maples.

**The Body Shop**, a student-run business offering a variety of personal care products for sale, sponsored by the UMaine chapter of the American Marketing Association, every Monday and Thursday, 9 a.m.-3 p.m., Union. 866-7105.

**Maynard F. Jordan Observatory** open 8-10 p.m. Fridays, Saturdays and Sundays when skies are clear. x1341.

**Orono Farmer's Market**, every Saturday and Tuesday, 7 a.m.-5 p.m., May 20-Oct. 31, Steam Plant parking lot. 866-4784.

**"Using a Mixed Integer Programming Model for Determination of Least Cost Waste Management Allowing for Centralized Composting of Residential Food and Paper Wastes,"** by Alan Kezis and George Criner, part of the Department of Resource Economics and Policy Seminar Series, 3:10 p.m., April 28, second floor classroom, Winslow Hall. x3157.

**"Neurobiology and Echolocation in Bats,"** by James Simmons, Brown University, part of the Department of Zoology and Migratory Fish Research Institute Seminar Series, 3:10 p.m., April 28, 102 Murray Hall. x2541.

**Collegiate Chorale Performance,** part of the Music Department performance season, 8 p.m., April 28, 101 Neville Hall. x1240.

**Susan Heath and Cindy Bastide Flute/Percussion Recital,** 8 p.m., April 28, 120 Lord Hall. x1240.

## 29 Saturday

**"Looking at Dance: African American Perspectives in Modern Dance,"** a daylong symposium featuring interpretive presentations to enhance education and performances of Alvin Ailey American Dance Theater works, by national and regional artists and scholars including performers Carmen de Lavallade and Joe Nash, 9:30 a.m.-4:15 p.m., April 29, Bodwell Area, made possible by a Maine Humanities Council grant to the Maine Center for the Arts and the Portland Concert Association. Admission fee. x1806.

**Baseball: UMaine vs. Northeastern,** noon, April 29. Admission fee. xBEAR.

## 30 Sunday

**Baseball: UMaine vs. Northeastern,** noon, April 30. Admission fee. xBEAR.

**Becky Eldridge Graduate Recital,** 1 p.m., April 30, 120 Lord Hall. x1240.

**Diane Cobb Junior Recital,** 3 p.m., April 30, 120 Lord Hall. x1240.

## 1 Monday

**"Modelling the Effects of Acidic Deposition Using MAGIC - a Model of Catchment-scale Hydrogeochemical Responses,"** by Bernard Cosby, research associate



A Department of Music faculty recital Friday, April 28, will feature the works of a number of composers including Harrison Roper of Houlton, a retired faculty member of the School of Music, West Chester University, Pennsylvania who plays viola in the University Orchestra and conducts the Northern Maine Chamber Society Orchestra. Two of his works, *American Musics* and *Ragtime Waltz*, *Circus*, were composed for unusual instrumentation, and will be performed in the recital by Cindy Brooks-Bastide, right, on marimba and drums; Susan Heath playing flute, alto flute and piccolo; Fred Health, second from the left, on trombone and baritone; and Anatole Wieck on violin and viola.

*American Musics* was written especially for Susan Heath and Anatole Wieck. *Ragtime Waltz*, *Circus* includes Fred Health and Cindy Brooks-Bastide. In both, familiar American dance forms are used with complications and permutations appropriate to the unusual instrumentation and the expertise of the accomplished performers.

Roper retired from West Chester University in 1982, and since then has been a very active composer for a variety of musical situations. In particular, he likes to write for individuals and their interests. He recently composed a score for a Russian puppet theater production, written for clarinet, trombone, violin, cello and percussion. Among his published works is a work, *Set of Seven Pieces*, for flute, horn and violin.

Photo by Monty Rand

professor, Department of Environmental Sciences, University of Virginia and UMaine Libra Visiting Professor of Ecology and Environmental Science, 10 a.m., May 1, 101C Deering Hall. x3236.

**"Area-sensitivity: Cause for Concern at the Population Level,"** by Tim Jones, part of the Wildlife Ecology Seminar Series, noon, May 1, 204 Nutting Hall. x2862.

**"Identifiability, Sensitivity and Uncertainty - How Can We Assess and Express Confidence in Our Models?"** by Bernard Cosby, research associate professor, Department of Environmental Sciences, University of Virginia and UMaine Libra Visiting Professor of Ecology and Environmental Science, 2 p.m., May 1, 101C Deering Hall. x3236.

**College of Education Senior Project Poster Session,** 4-6 p.m., May 1, Shibles Hall. x2441.

Hastedt, paralegal, Pine Tree Legal, Augusta, part of the Women in the Curriculum Lunch Series, 12:15-1:30 p.m., May 2, Bangor Lounge, Union. x1228.

**"Nitrogen Deposition, Nitrogen Saturation and MERLIN - a Model of Ecosystem Retention and Loss of Inorganic Nitrogen,"** by Bernard Cosby, research associate professor, Department of Environmental Sciences, University of Virginia and UMaine Libra Visiting Professor of Ecology and Environmental Science, 1:10 p.m., May 2, 101C Deering Hall. x3236.

## 3 Wednesday

**"Modelling Catchment Acidification with MAGIC, a PC-based Model,"** a hands-on computer-based workshop by Bernard Cosby, research associate professor, Department of Environmental Sciences, University of Virginia and UMaine Libra Visiting Professor of Ecology and Environmental Science, 10 a.m., May 3, 111 Corbett Business Building. Preregistration required. x3236.

**"Validation, Verification and Consistency - How Can Independent Data be Used in Testing Model Adequacy?"** by Bernard Cosby, research associate professor, Department of Environmental Sciences, University of Virginia and UMaine Libra Visiting Professor of Ecology and Environmental Science, 3 p.m., May 3, 101C Deering Hall. x3236.

**Baseball: UMaine vs. Providence,** 7 p.m., May 3. Admission fee. xBEAR.

## 4 Thursday

**"Modelling Nitrogen Cycling with MERLIN, a PC-based Model,"** a hands-on computer-based workshop by Bernard Cosby, research associate professor, Department of Environmental Sciences, University of Virginia and UMaine Libra Visiting Professor of Ecology and Environmental Science, 10 a.m., May 4, 111 Corbett Business Building. Preregistration required. x3236.

## 2 Tuesday

**"TOPMODEL - a Topographically-based Model of Catchment Rainfall-Runoff Responses,"** by Bernard Cosby, research associate professor, Department of Environmental Sciences, University of Virginia and UMaine Libra Visiting Professor of Ecology and Environmental Science, 8 a.m., May 2, 101C Deering Hall. x3236.

**"Welfare: Reality and Reform,"** by Suzanne Duval, community activist, Welfare recipient and City of Bangor employee; Judy Guay, Maine Association of Interdependent Neighborhoods; and Christine

## Correction

The recognition ceremony for the Graduate School is scheduled for 4-6 p.m., FRIDAY, MAY 12, Maine Center for the Arts (not May 2 as previously reported). A reception follows in the Damn Yankee.

## People in Perspective

Carole Leclair first came to the University of Maine in the early 1970s, working for a year in the Career Center before taking time off to raise her family. When she was ready to return to the workforce in 1985, she said it was the experience of working with people on campus that brought her back to the University community.

"I loved the people I worked with," she says. "I didn't get a chance to work with too many students then, but that changed once I came back to UMaine."

Nearly a decade ago, Leclair joined the staff of the Student Activities and Organizations Office where she and Associate Dean Bill Lucy have worked as a team to provide just the right mix of morale support, coordination and advocacy for upwards of 100 student groups at the University of Maine.

On any given weekday, the Student Activities and Organizations Office in the Union is abuzz. A parent of a prospective student calls to inquire about the location of the nearest church of a particular denomination, and a list of area centers for religious worship is readily available. A member of a student organization is reporting in on the success of a weekend fund-raiser for a local charity, while members of VOICE – Volunteers in Community Efforts – are busy matching volunteers in the University community with various area agencies in need.

From working with UMaine fraternities and sororities to coordinating the annual Family and Friends Weekend, the goal of the Student Activities and Organizations Office is to provide the resources and referrals "to help students run their organizations, and ultimately help them be successful student leaders."

"One day I kept a tally, and in the first three hours we were open, 53 people crossed our threshold," Leclair says. "People come here because they think we have the answers and they know we treat every question as important. There's never a difficult question because we always try to find the answer."

"There have been several memorable moments in this office, including those when a student comes in here in tears with a concern. Often the question seems so easy to me, but amid the tests and papers and deadlines students face, sometimes they just need somebody to listen and to say the right things. They are so appreciative, no matter what you do for them, and they always give back 10 times more in thanks than what effort it

took you to answer a simple question or let them know you care. The memorable moments come when that student who came in so upset leaves smiling."

Leclair says she has always enjoyed being involved in the lives of students, and spends her off-hours with her husband working with area youths. It requires the ability to be "flexible and quick on your feet," she says. But perhaps most important, "you have to care and show it without saying a word."

"Students know there are people who care here," she says. "They know they can ask me anything, and to me, there's no better way to say that I care about them."

That sense of caring extends to the working relationship Leclair and Lucy have achieved through nearly 10 years of helping thousands of UMaine students. "You hear in other offices that things are great, but you don't hear a lot about bosses who care about the people they're working with," she says. "Along with my love of interacting with the students, it's the opportunity to work with Bill Lucy that's kept me here. He lets me know I'm appreciated and important, and will tell students, 'this is Carole, she's my right hand.' How could anyone walk away from that?"



Carole Leclair

Photo by Tim Boyd

## Field House to Close May 1 for a New Roof and Repairs

A "much-needed upgrade" of one of the University of Maine's most widely used facilities will begin Monday, May 1, when the Field House is closed for up to seven months.

A new roof, doors and windows will be the first improvements made to the nearly 70-year-old facility, and are expected to be completed by the start of the 1995-96 academic year. Further refurbishing in the form of new baseball and softball netting, indoor track resurfacing and portable basketball backboards is dependent on private donations being raised by the Athletics Department.

"We remain optimistic that private donations will enable us to stay on the projected timeline of Dec. 1 for the entire project," according to Jim Dyer, assistant athletics director.

"The repair of the roof will eliminate the leaks we've always had and will increase the safety of the building. With new painting and nets and floor surface, it will aesthetically be a more attrac-

tive facility. New doors and windows will make it more energy efficient. It is a much-needed upgrade of a facility that can have 1,000 to 1,500 people come through there in a day," Dyer says.

The reroofing and renovation project will displace many traditional campus and community events often held in the Field House. Alford Sports Arena will be the site this year of summer sports camps, Special Olympics and large events, Dyer says. This fall, the College Fair is scheduled for Alford, while activities associated with Family and Friends Weekend and Homecoming may use Lengyel Gym, he says.

"We're trying to be creative and reposition people and their activities without any more disruption to their programs than necessary," Dyer says.

Perhaps the biggest inconvenience will be in the form of traffic detours once roof work begins next month, according to Ron Brown, Facilities Management construction specialist. ▲

## Private-Public Partnership *continued from page 1*

Hall. The naming gift came from the UMaine Class that set its \$1 million fund-raising goal on the occasion of its 50th reunion. The \$6 million building, with its \$1.8 million in public funding and \$4.2 million in private support, is slated for completion a year from now, in time for fall 1996 classes.

Successful fund raising for the Class of 1944 Hall will include meeting the May 31 deadline of the \$500,000 challenge grant from the Kresge Foundation – the largest challenge grant in the University's history. In addition, naming opportunities for the more than 50 special areas within the facility had been made available. While some of the rooms, equipment and offices remain as opportunities for donors, a number of the most visible spaces have been named – areas that will not only contribute to academic excellence but will provide an outstanding community resource. They include the Leonard and Renee Minsky Recital Hall, the Russ and Barbara Bodwell Instrument Rehearsal Room, the Richard and Anne Collins Choral Rehearsal Room, the Allen and Sally Fernald School of Performing Arts Faculty Center, the Ralph and Anita Leonard School of Performing Arts Reception Area, the Marian Hawkes Hemingson Performing Arts Teaching Complex, the MBNA Hudson Museum Exhibit Preparation and Artifact Preservation Complex, and the Maine Center for the Arts Director's Office, supported by Fred and Dione Hutchinson.

Setting a tone for what has been a unique five years of investing in Maine's educational future was construction of the Donald P. Corbett Business Building, which became a reality through the generosity of Francelia Corbett, formerly of Connecticut, member of the UMaine Class of '34. Mrs. Corbett provided the \$1 million private contribution as the University's match to the \$6 million bond issue commitment on behalf of her late husband. Completed in 1993, the Corbett Business Building is considered an educational model nationally in college business buildings.

While the naming gifts for the Edward Bryand Global Sciences Center and the Class of 1944 Hall are pending final approval by the University of Maine System Board of Trustees, the gift of the new addition to Jenness Hall received BOT approval in March. The Frederick A. and Elizabeth F. Soderberg Center has been made possible by a \$1.5 million donation to the University of Maine Pulp and Paper Foundation from the estate of Frederick Soderberg a member of the UMaine Class of '25 and an honorary degree recipient in 1960. Construction of the two-part addition will begin in October, with occupancy expected by fall 1996. An addi-

## Faculty Senate

The University of Maine Faculty Senate will meet Wednesday, April 26, 3:15 p.m., Lown Rooms, Union. Among the resolutions being considered are the following:

▼ Old Business, Motion from the Floor on March 22:

The Faculty Senate reaffirms its resolution to President Hutchinson that the University of Maine retain the Liberal Studies Program affiliation with Orono.

▼ New Business, Motions from the Academic Affairs Committee:

That the General Education Requirements be amended to add: "Each student must take at least three credits in a course that places substantial emphasis on discussion of ethical issues."

That the Faculty Senate Approve the Revisions of the Handbook on Undergraduate Academic Procedures as Recommended by the Academic Standing Committee.

Editor's Note: The class book for the 1995-96 academic year is Tim O'Brien's *The Things They Carried*.

tion off the west side of Jenness at its lobby entrance will house an executive conference room and a high-tech learning center to be used in conjunction with the paper pilot plant, which will be expanded by an addition.

It is this private and public commitment that has helped to make the University of Maine the foremost public institution in the state, Holmes said. "As Maine's graduate and research institution with a commitment to excellence in undergraduate education, we are committed to the delivery of top-quality education in an environment that invites scholarly activity and promotes a full learning experience," he said. "These facilities, together with the annual support and growth in our endowment, have a direct impact on the University of Maine's ability to serve as a leader in higher education in Maine." ▲

### UMAINE TO HOST DANCE WORKSHOP

In conjunction with the upcoming University of Maine performance by the Alvin Ailey American Dance Theater, the Maine Center for the Arts is hosting a symposium for adults and students a week earlier, from 9:30 a.m.-4:15 p.m. Saturday, April 29.

The symposium, sponsored by the Maine Humanities Council, will be given by national and regional artists and scholars, including Carmen deLavallade, whose association with Alvin Ailey dates back to junior high school and who now directs the Adelphi University dance program, and Joe Nash, a former dancer, now a curriculum designer, teacher, lecturer, essayist on the history of black dance, and guest scholar for American Dance Festival's Humanities-and-Dance programs.

Registration fee is \$15 and course credit is available. Deadline for registration is Tuesday, April 25. For more information, call 581-1806.

## Look Who's On Campus

Jitendra Nath Mohanty, professor of philosophy at Temple University, is one of the world's most distinguished contemporary philosophers. He will be at the University of Maine, Wednesday-Friday, April 26-28, as the 1995 Philosophy Visiting Scholar. April 27, he will give two lectures: "Kant's Theory of Truth," and "The Philosophy and Legacy of Mahatma Gandhi." Author of numerous books, Mohanty is a world-renowned scholar of philosophy both East and West. Often considered the outstanding Indian philosopher of his generation, Mohanty also is one of the world's leading experts on Edmund Husserl and European phenomenology. Presently, he serves as the international president of the Society for Asian and Comparative Philosophy.

Bernard "Jack" Cosby is a research associate professor in the Department of Environmental Sciences at the University of Virginia, and a UMaine Libra Visiting Professor of Ecology and Environmental Science. In a series of lectures and hands-on computer workshops on campus, Monday-Friday, May 1-5, Cosby will address the theme: "Ecological and Environmental Modelling at Different Scales: Synthesis and Integration of Complex Relationships in the Biosphere." Cosby's field of research is primarily concerned with the biogeochemistry of headwater catchments and the use of numerical models to integrate and to interpret field results. Together with colleagues at the University of Virginia, UMaine, the Norwegian Institute for Water Research, the Institute of Hydrology in England, and the MacCauley Land Use Research Institute in Scotland, Cosby is involved in several projects concerned with understanding the responses of large-scale aquatic-terrestrial systems to non-point-source pollution and climate change.



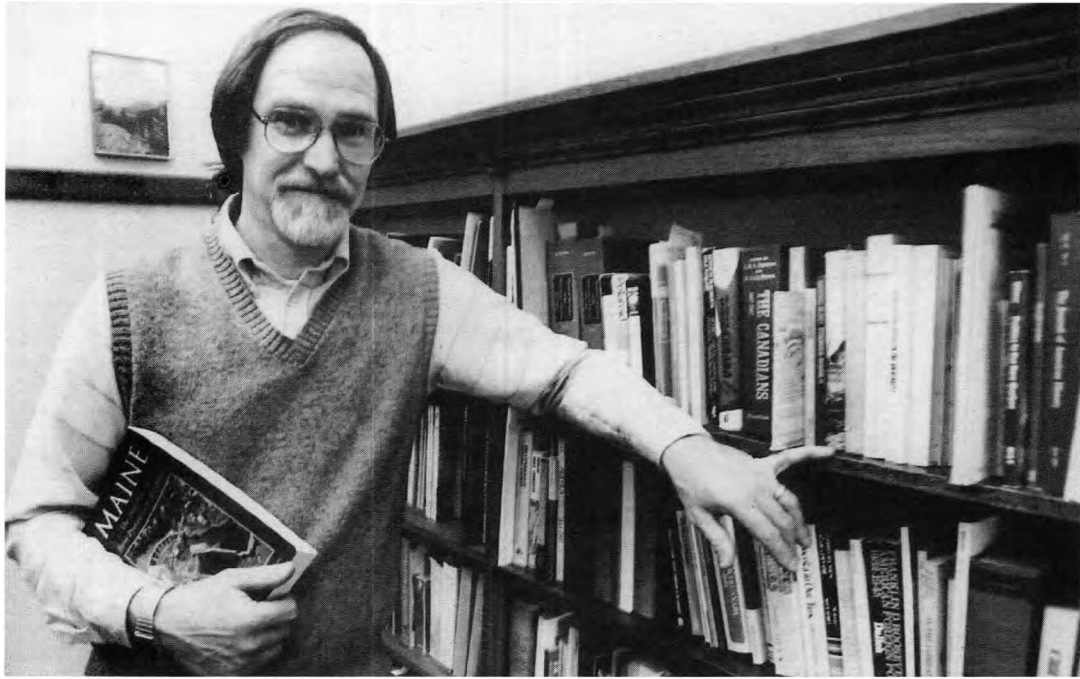


Photo by Tim Boyd

## Rewriting History in the Pine Tree State

A decade ago, historians Richard Judd and Joel Eastman were bemoaning the lack of a comprehensive text for teaching about Maine's past, from prehistory to the present. The void was pronounced, since the last encompassing survey of Maine history was written in 1919, yet the subject was being taught in high schools and colleges and universities across the state. Even more ironic was the absence of such an historic overview in a state where residents hold its history in high regard and where visitors have an insatiable appetite for all that is "Maine."

Writing such a volume was a daunting task and it was nearly impossible to hope that two historians had the breadth and depth of expertise to document all of Maine's history. That's when Judd and Eastman, with the support of the Maine Humanities Council, turned to the network of colleagues who were doing research on various aspects of Maine history – the various scholars whose work educators have depended on in recent years to provide insightful yet segmented glimpses into the state's past.

What they tapped into was a renaissance in Maine history that has resulted in the publication this spring by the University of Maine Press, *Maine: The Pine Tree State from Prehistory to the Present*. The 10-year project has been history in the making.

"It's been an act of synthesis, and that's the book's real contribution," said Judd. "Our thinking initially was that everyone would bring whatever research they were working on to the text. It was surprising to see how the research dovetailed, as well as find a lot of material that had not seen the light of day until this book. It was so satisfying to see people taking time out of their research schedules to contribute to this and turn out such a good work."

*Maine: The Pine Tree State* was made possible by two grants from the Maine Humanities Council and the research of 27 Maine scholars, including the volume's editors: Richard Judd, associate professor of history at the University of Maine and editor of the Maine Historical Society *Quarterly*; Edwin Churchill, chief curator for the Maine State Museum; and Joel Eastman, professor of history at the University of Southern Maine. The strength of the book is in "so many independent minds coming together on this shared endeavor," said Michael Alpert, director of

the University of Maine Press. "As an anthology, you achieve a plurality of approach."

Economists and labor historians to colonial specialists and archaeologists have contributed the findings of their respective research methodologies to create an interdisciplinary, holistic view of Maine's past that is thematic, interpretive and focused on the impact of history on ordinary people. There are such provocative chapters as the prehistoric history and the European discovery of Maine, family and community life, Maine agriculture and maritimes trades, the Industrial Age, Maine and the arts, Depression and war, Maine out of the mainstream, and the tides of change from 1967-88. Throughout the chapters, themes emerge: the link between local experience and "outside" processes or events, the importance of geography, the balance between conflict and stability, and one of the most powerful, single factors in Maine history – the environment.

The 600-page book, now available in libraries and bookstores, is considered a landmark in its collaborative contribution to documenting – and rewriting – Maine history. The historic research on which the volume is based not only chronicles Maine's past but clearly reflects how far scholarship in this area has come – and how much more needs to be done. To encourage continued research, royalties from the volume are earmarked for the updating of *Maine: The Pine Tree State* in another decade.

Since its release in February, *Maine: The Pine Tree State* has met with "tremendous, great enthusiasm," Alpert said. Compiled as a textbook, the volume is not considered light reading, but it has "a fairly energized style that reads easily." Although considered an important work for educators teaching state history at the college level and for Maine specialists, the book promises to be of value to anyone with an interest in Maine history.

"If we compare this volume to the 1919 version of Maine history, there are vast differences in methodology," said Judd. "It has to do with how we get at the past today – the types of questions we're interested in and the most basic framework for understanding history have changed. Not only in Maine but in

*continued on page 10*

# The CUTTING EDGE

University of Maine Research on the Frontiers of Science

## **Biomedical Engineering Breakthrough**

A 24-year-old Augusta man, left paralyzed from the waist down after an ATV accident nine years ago, is now able to stand unaided for minutes at a time through the technological breakthroughs achieved by a team of clinical, industrial and academic researchers.

Among those researchers who have contributed to the effort is Seth Wolpert, assistant professor of electrical and computer engineering, working with UMaine undergraduate students Monica Puri, a UMaine junior in electrical and computer engineering and an NSF-Research Experience for Undergraduates scholar; Diana Snow, a UMaine sophomore in electrical and computer engineering; Jill Gartner, a senior in biophysics at Rockhurst College, and a UMaine McNair Scholar; and Marie O'Neill, a senior at University of Delaware and a UMaine McNair Scholar.

The man, known only as Craig, was selected in 1991 by neurophysiologist Dr. Ross Davis, director of the Neural Engineering Clinic (NEC) and neurosurgeon at Kennebec Valley Medical Center, to be a recipient of a surgically implanted electronic device. The device stimulates the nerves controlling 10 muscles in each of his paralyzed legs from commands from a desktop computer. Through the next three years, the stimulator was systematically tuned to the responsiveness of each of Craig's muscles and nerves. That following year, Craig's muscles were conditioned with the stimulator.

A milestone was reached in November 1994 when Craig, after a year of steady conditioning of his muscles using the implant, was able to stand unaided for five consecutive minutes.

The Cochlear FES-22 implant is installed just under the skin below Craig's right ribcage. It receives commands from a computer controller by means of a radio wave that is synthesized by the computer, sent to the controller and transmitted through the skin by a small antenna coil. Encoded in that radio wave are specifications for which of the implant's 22 output channels are to be activated, and how strong a signal is to be sent out on those channels.

Commands may be inputted in a rapid succession, and more than one of the outputs may be activated simultaneously. This allows any combination of leg muscles to be activated at any time, and a variety of complex movements to be orchestrated. The Cochlear FES-22 is also able to derive its operating power from the command radio wave, eliminating the need to implant batteries, which would need regular recharging or replacement.

With the ability to stand for extended periods, Craig and the team of clinical, industrial and academic researchers will then endeavor to effect four types of movement intended to improve Craig's quality of life – standing up from a sitting position, sitting down from a standing position, shifting weight around while seated, and stepping over or around architectural barriers. Once these tasks are mastered, feedback of Craig's position and motion will enable more complex movements, such as walking, to be contemplated.

The implanted device, the Cochlear FES-22 stimulator, is manufactured, supplied and supported by Cochlear Pty Ltd., of Australia and Cochlear Corp., USA. Cochlear also funds the research, along with the Spinal Cord Injury Research Foundation of the Paralyzed Veterans of America.

The Cochlear FES-22 and its connections to Craig's nerves were implanted in three surgical procedures by Davis, who also coordinates the research. NEC bioengineer Thierry Houdayer then interfaced the Cochlear FES-22 to the controller, monitored

the implant and adjusted it to the responsiveness of Craig's muscles. Brian Andrews, professor of biomedical engineering at the University of Alberta and director of rehabilitation at Glenrose Rehabilitation Hospital in Edmonton, designed a set of orthotic ankle braces and chose the physical stance that was most conducive to stable and efficient standing for Craig.

Wolpert and the electrical and computer engineering students performed computer modeling of standing and sitting transitions. Now they are planning designs for a portable controller to replace the bulky computer used to control Craig's leg muscles.

## **Narraguagus River Salmon**

Biologists and anglers concerned about the recent decline of Atlantic salmon in the Narraguagus and other Down East rivers will have to look at problems other than water quality, according to a recent study by a University of Maine graduate student.

With funding from the Atlantic Sea Run Salmon Commission and the National Marine Fisheries Service, Marcia Siebenmann, a master's degree candidate in entomology, found no evidence of water quality problems or diminished aquatic insect populations that could reduce the number of salmon able to live in the river.

Salmon numbers on the Narraguagus and other Down East rivers with wild fish populations have declined drastically in the last few years. According to Ken Beland of the Atlantic Sea Run Salmon Commission, only about 50 spawning fish were recorded in the Narraguagus in 1994.

"The river needs about 400 spawners to assure that the full freshwater habitat is used," says Beland, who manages the Narraguagus River research program.

The Narraguagus drains a 232-square-mile area in Hancock and Washington counties and receives runoff from adjacent forests, blueberry barrens and a peat-mining operation in Deblois, as well as discharge from two blueberry processing plants in its lower reaches.

Siebenmann, a native of West Harwich, Mass., conducted her fieldwork in 1991 and 1992. In both years, at six different sites along the river, she searched the stream bottom for aquatic insects and monitored water quality. She gathered more than 38,000 individual insects and took monthly water samples from June to September. She compared her results with similar studies conducted in 1974.

Siebenmann found that the types and numbers of insects that salmon use for food are present in adequate amounts at all sites. In addition, insects that are indicators of good water quality were found in abundance throughout the drainage. She also found that dissolved oxygen, a critical measure of water quality, appeared to be at healthy levels.

"These results suggest that at these sites, no long-term deterioration in water quality has occurred and that food is not a limiting factor for juvenile Atlantic salmon," she wrote in her report.

"Marcia's work is very important," says Beland. "She has helped to rule out freshwater problems as a smoking gun in the decline of salmon. Other Down East and Canadian rivers are experiencing similar declines. Her results are consistent with work by other scientists in the marine environment that indicate that survival problems most likely occur in the ocean."

## Maine: The Pine Tree State *continued from page 8*

American history, documentation of 20-30 years ago was structured by political development – elections, presidents, governors. Today, the scaffolding for history is not based on politics as the organizing principle for change, but on more thematic development – economic change over time, people and how they react to basic changes.

“It is all more diverse, interdisciplinary, less one-dimensional than history has been in the past. I like to think it is less provincial and antiquarian than history written decades ago. It is an attempt to interpret rather than just present detail,” Judd said.

The 1919 survey of Maine history, *Maine: A History*, was written by Louis Clinton Hatch – a multi-volume compilation that consisted primarily of his work. Through the years, educators teaching Maine history have had to rely on essays and articles written by contemporary historians, while verbally filling in the gaps as best they could.

“Good books are available on the history of Maine agriculture, logging and the state’s involvement in the Civil War, but how do you teach Maine history without putting it together in context?” said Judd. “Without an integrated, whole history available, teachers have been forced to use a segmented approach to Maine’s past.”

Maine history is taught not only on college and university campuses but in schools statewide. At UMaine, two sections of Maine history are taught each semester, each with upwards of 100 students enrolled. “At least 75 percent of the students enrolled in the class are from Maine, and they come with an intense interest in where they grew up,” Judd said. “While they may not find their areas of particular interest discussed in this new book, they will have an historic context in which to understand more local history.”

In 1985, a colleague suggested Judd and Eastman solve the problem by writing their own volume. Neither had the breadth of expertise to write Maine history spanning prehistory to the present, with Judd’s research focused on the turn of the century, and Eastman specializing in mid-19th century Maine. As they tapped the research of other scholars like Edwin Churchill of the Maine State Museum, an expert in colonial history, they soon found that their pursuit of Maine’s historic record could not have been more timely.

“It was the mid-1980s, and enough research was being done to put together an entire history of the state with solid scholarship for the first time,” Judd said. “It was a renaissance of Maine history that made this possible. We were able to identify people working in various aspects of Maine history. There has been a small group of people interested in or teaching Maine history who have been informally networking. When we held that initial conference, it was surprising that the expertise was that comprehensive.”

The first meeting of Maine history scholars took place in 1986, “confirming the notion that enough expertise was available” to write state history from prehistoric times to the present. Despite the new scholarship documenting Maine’s past, a few gaps still remain in areas such as women’s history, and the history of northern and eastern Maine. Then there are areas like Maine’s 20th century history where research is in short supply, except for the efforts of scholars like Richard Condon of Farmington, without whom “we would have had to end the book at World War II,” said Judd.

“The 20th century is a hard period to deal with because Maine is more integrated into national history and loses some of its character and uniqueness. Yet it is an interesting period, too,” Judd said. “Prehistory also has seen a real flowering of ethnohistory in Maine in the last 10 years, proving to be a rich field to choose from

and one that is constantly evolving.”

One of the unintended benefits of compiling this history is it identifies areas in which scholarship is needed, Judd said. “In a lot of ways, the text reflects the state of scholarship in Maine, and unfortunately, there are still some areas in which there is not enough information,” he said. For that reason, royalties on the text have been earmarked for a fund to finance rewriting of the text in 10 years and to promote further research on particular areas of Maine history, including women’s history.

*Maine: The Pine State*, as an interdisciplinary history by scholars using the methodology of their respective fields to interpret data and findings, reflects the “spectrum of approaches that make up research and writing about Maine’s past,” Judd noted. Not only have individual research efforts revealed new information about Maine’s past, but the ultimate collaboration and integration that occurred with the book’s compilation have combined to form “a greater whole that yields new conclusions.”

The interrelatedness of the research has revealed new insights into such underpinnings as Maine’s interaction with the outside world, the forms of social tension and stability that shaped the history, Maine’s blend of localism and cosmopolitanism, and the role of geography environment and natural resources in the state’s past. It is a study of the similarities and differences with the rest of the country, not unlike any other state history, Judd said. However, it is Maine’s reactions to developments occurring all across the nation that make it interesting, he said.

State history has not always been considered a “legitimate” area of study, Judd pointed out. There has been a proliferation of social histories of towns and cities, the New England town has been studied to death, and labor historians have studied industrialization in particular communities. The standard fare has been national history.

Maine not only has an interesting history, but a populous with a strong appreciation for history, Judd said. “Moving from California to Maine, it struck me that history is so palpable here. It’s a real joy to work in a state where people have that high an interest in the past,” he said.

In his almost 20 years of historic research, Judd says he has not been involved in a project as complex as this. “This is more interactive and a different approach to history,” he said.

Judd’s first book stemmed from his dissertation research: *Socialist Cities: Municipal Politics and the Grassroots of American Socialism*. As a postdoctoral fellow at the University of Maine in 1979-80, Judd’s research on logging history culminated in the volume: *Aroostook: Century of Logging in Northern Maine, 1830-1930*.

Since joining the UMaine faculty in 1984, Judd’s research has focused on aspects of Maine’s conservation history and, most recently, how it compares to other states of northern New England. In his study of grassroots conservation efforts from 1830-1930, the subject of his fourth book being published in 1996 by Harvard University Press, Judd has sought to understand people in the context of how they thought about and related to nature – the flowering of the conservation movement.

In *Maine: The Pine Tree State*, Judd is one of 11 contributors with direct links to the University of Maine. Among them are a number of professional historians and researchers who received their Ph.D.s in history from UMaine. The volume is dedicated to two noted UMaine researchers – Howard Schonberger and Edward Schriver – who passed away before the book was published, as well as “friends and colleagues” who share an enthusiastic interest in Maine’s past. ▲





The following papers were presented at the Annual Meeting of the North American Wild Blueberry Research and Extension Workers Conference at the Bangor Marriott Hotel, Bangor, March 29-30: **David Yarborough**, Extension blueberry specialist and assistant professor of horticulture, and **Michele Marra**, associate professor of agriculture & resource economics: "Results of Blueberry Harvester Trial"; Yarborough and **John Jemison**, Extension water quality specialist and assistant Extension educator: "1994 Hexazinone Groundwater Survey"; **Paul Capiello**, associate professor of horticulture: "An Overview of Cold-Hardiness in Lowbush Blueberry"; **Timothy Hess**, research associate, and Yarborough: "Weed Thresholds by Mechanical and Chemical Controls in Wild Blueberries"; **John Smagula**, professor of horticulture, and **Scott Dunham**, crop technician: "Long-term Effects of Pruning by Flail Mowing or Oil Burning on Lowbush Blueberry Growth and Yield"; **Youzhi Chen**, graduate student in horticulture, and Smagula: "Do Boron and Calcium Sprays Effect Lowbush Blueberry Pollen Germination?" Yarborough served as conference program chair.

**Bernard Yvon**, professor of education, presented: "Canadian Studies Institutes: Survey Results of Teacher Evaluations 1993-1994," at the National Consortium for the Teaching of Canada, Feb. 24, Orlando.

**Janice Zeman**, assistant professor of psychology, with graduate students **Kim Shipman**, **Susan Penza**, and **Greg Young**, presented: "Display Rule Usage in Adolescence," at the Annual Meeting of the Eastern Psychological Association, held in Boston, March 31-April 2. In addition, Zeman, Shipman and Penza gave two research presentations at the international meetings of the Society for Research in Child Development in Indianapolis, March 30-April 2: "Children's Expression of Negative Affect: Reasons and Methods," and "Affect Regulation in Adolescence: Goals and Expectancies."

**Bob Strong**, professor of finance, was an invited speaker on derivative assets at a risk management conference in La Costa, Calif., jointly sponsored by the Chicago Board of Trade, the Chicago Board Options Exchange, and the London International Financial Futures Exchange.

**Anatole Wieck**, associate professor of music, performed with the Portland Early Music Consort in a program: "Sound the Trumpet," featuring music by Henry Purcell (1659-1695). The first performance was April 1 at Bates College and the second at St. Luke's Cathedral in Portland April 2. Wieck was playing the baroque viola.

**Patrick McMullen**, assistant professor of management, presented a paper April 15 at the Western Decision Sciences Conference in San Francisco: "A Simulation Approach for Solving Mixed-Model Assembly Line Balancing Problems with Stochastic Durations." In addition, he will be presenting the paper: "An Investigation of the Appropriateness of Using JIT for a Steel Stamping Application: A Simulation Approach," at the Midwestern Decision Sciences Institute Conference May 6 in St. Louis.

**Paula Petrik**, professor of history and associate dean, College of Arts and Humanities, and **John Moring**, professor of zoology, attended the National Endowment for the Humanities project directors' meeting on higher education, Washington, D.C., April 6-7.

**Howard Segal**, professor of history, gave the keynote address: "High Tech's Utopian Vision of America's Future: Historical Perspectives," at "Machinations: Technology and Culture in North America," the interdisciplinary conference of Centre for American Studies, University of Western Ontario, April 7-8.

**Michael Bentley**, Department of Chemistry, presented the following two lectures in Charlotte, N.C., March 31: "A Walk Among the Birches with Betulin and Friends," Department of Chemistry, University of North Carolina; and "Out of Africa: Biologically Active Natural Products," American Chemical Society, Piedmont Section.

Professors **Kenneth Brownstein**, **Paul Camp**, and **Peter Csavinszky**, graduate student **James Sexton**, physics and astronomy, and assistant professor **Rand Harrington**, physics and astronomy, education, attended the joint spring meeting of the New England Sections of the American Physical Society and the American Association of Physics Teachers, April 7-8 at the University of Connecticut in Storrs. The following papers were presented: "Determinantal Inequalities for Lower Bounds to  $\langle 1/r \rangle$ " (Csavinszky), "Reduction of a Many-term Effective Mass Kinetic Energy Operator to an Equivalent One-term Operator" (Sexton and Brownstein). An informal reception for UMaine alumni attending the meeting was hosted by Brownstein and Csavinszky.

**Cynthia Erdley**, assistant professor of psychology, and graduate student **Carrie Anne Pietrucha** attended the biennial meeting of the Society for Research in Child Development in Indianapolis, March 30-April 2. They presented two papers: "Social Goals: Relations to Social Behavior and Peer Acceptance for Boys and Girls," and "Children's Self-Efficacy Perceptions and Legitimacy of Aggression Beliefs as Predictors of Their Social Behavior."

Professors **Jay Bregman** and **Nancy Ogle** attended the 3rd International Society for the Classical Tradition conference, Boston University, March 8-12, organized by the co-directors of the Society, BU professors Meyer Reinhold and Wolfgang Haase, also of Tubingen. Bregman read a paper: "The Christian Platonism of Hilary Armstrong and Synesius of Cyrene," for a panel on Jewish and Christian Tradition and Greek Philosophy he helped organize. The conference was attended by over 500 scholars from 26 countries and all continents; 365-odd papers were delivered in English, French, German, Italian and Spanish by classicists as well as students in fields ranging from medieval and modern history, literatures, languages, philosophy and politics to architecture, theater, the fine arts, religion, education, science and even popular culture. Conference papers will be published in a forthcoming volume of the Society's Proceedings.

**Jim Artesani** and **Deborah Goessling**, assistant professors of special education, presented a research paper: "Different Voices: Perspectives on Inclusion," to the annual convention of the Council for Exceptional Children, Indianapolis, April 6. In addition, Artesani gave a presentation: "Transition Issues and Challenges," to the Aroostook Council on Transition, University of Maine at Presque Isle, April 8.



The Management Club of Bangor has chosen Dieter and Eleanor Heinz of Bangor to receive its 1995 Exemplary Citizen Award.

Eleanor is an administrative assistant for the Cooperative Forestry Research Unit, College of Natural Resources, Forestry and Agriculture, where she has worked for eight years. She and her husband have owned and operated Awards, Signage and Trophies of Brewer since 1979.

The Exemplary Citizen Award is presented to those with outstanding, continued volunteer service to the Greater Bangor community. For the past 15 years, the Heinzes have been actively involved in a number of community organizations, including the DARE program of the Bangor Police Department and Penobscot Sheriff's Department, the Salvation Army and the Bangor Area Shelter.

The Award will be presented at a testimonial dinner beginning at 6 p.m., Tuesday, May 9, at the Airport Marriott, Bangor. Proceeds from the dinner will benefit the YMCA's Camp Prentiss, a summer camp for youths. Reservations can be made by calling 947-1141 before Tuesday, May 2.

The Management Club of Bangor is made up of area business people. Eleanor served as president of the Club from 1983-84.

## Industrial Assessment *continued from page 2*

they were sincerely interested and that I really knew what I was talking about, it was easy. Their bottom line is to save money, and what they get from us are ways to do that and the numbers to back them up."

Suggestions range from turning off machines which are used for only short periods of time each day to installing new energy-efficient motors. "They're not aware of how much they can save," says Stephenson. "One of our most frequent suggestions is to bring in cool outside air to run compressors. It takes a lot less energy to compress cooler air, and for the cost of some duct work, businesses can save hundreds or thousands of dollars a year, depending on how many compressors they have."

Chief Engineer Mark Armstrong has also studied relatively minor energy uses like the lights in exit signs and the power used by soda machines. "These are small items, but when you've got signs all over the factory and soda machines in several places, they add up," says Armstrong, a Maine Maritime Academy graduate.

Students benefit from the hands-on experience they find useful in job hunting. "I've had a couple of interviews from companies looking for someone with this kind of experience," says Stephenson. "Students get a chance to apply the theory they learn in the classroom to real-life situations," he adds.

In a typical audit, students accompanied by faculty and plant personnel tour the facility and then spend a full day collecting data. They spend the next eight weeks developing a comprehensive report of their findings and then present them to the company management. Students currently employed include Aaron Senechal of West Buxton, Keith McPherson of Unity, Larry Paul of Wiscasset, Jeffrey Howland of Houlton, David Caron of Augusta, Robert Spreng of Bangor, Shelley Tupper of Skowhegan and Steven Moulton of Windham.

The UMaine Center is one of 30 DOE-supported centers nationwide. ▲

## UMaine Extramural Awards

▼ Larry Mayer of the Department of Oceanography received continuing awards totaling \$508,891 from the Office of Naval Research for a project titled: *Digestive Kinetics Determines Availability of Pollutants*. Investigators are studying aquatic animal digestion as it relates to the uptake of pollutants during feeding. The digestive fluids of animals are being used as chemicals with which to measure only the fraction of pollutant available to the animal.

▼ Mary Hubbard of the Department of Geological Sciences has been awarded a grant of \$25,426 from the U.S. Department of Energy for a project titled: *Collaborative Research Cluster Regarding Hydrogeological Problems in Maine*. The objective of this project is to establish a strong collaborative research cluster to address problems of bedrock groundwater resources in the state of Maine. The cluster will emphasize geophysical techniques and apply these in collaboration with hydrogeologic modeling and structural geologic methods applied to aquifer characterization, groundwater flow analysis and contaminant transport analysis.

▼ Stewart Smith and Ty Cheng of the Department of Resource Economics and Policy have been awarded a grant of \$10,816 from the Center for Rural Affairs for a project titled: *Targeting Commodity Payments Analysis*. As federal farm program expenditures are reduced, there is considerable concern that mid-sized family farms not absorb an undue proportion of those cuts. This analysis suggests how proposed changes can be refined to lessen the impact of budget reductions on smaller sized family farms while meeting budget targets.

▼ Kristin Sobolik of the Department of Anthropology and Institute for Quaternary Studies has been awarded a grant of \$12,000 from The Center for Field Research – Earthwatch for a project titled: *Archaeology and Paleoenvironment of Big Bend National Park, Texas*. The proposed research is a multi-disciplinary study in which archaeological excavations and paleoenvironmental reconstructions will be conducted in two diverse ecological zones of Big Bend National Park.

▼ Carol Wood and Joann Kovacich of the School of Nursing have been awarded a continuing grant of \$234,619 from the U.S. Department of Health and Human Services for a project titled: *Interdisciplinary Training for Health Care for Rural Areas Project*. This project seeks to improve the accessibility, quality and cost-efficiency of rural health care through multi-level, innovative interdisciplinary team education and training activities. It supports five program areas: recruitment of minority representation from underserved areas, undergraduate and graduate education, continuing education for health care professionals, development of new interdisciplinary materials and establishment of an electronic network linking health care providers, consumers, educators and agencies. A new graduate course sequence uses distance education and computer networks to increase the participation of students living in rural areas.

▼ Cynthia Piskaln of the Department of Oceanography has been awarded a grant of \$51,403 from the National Science Foundation for a project titled: *Nitrate Flux Associated with Vertically Migrating Phytoplankton in the Central North Pacific Gyre*. This project addresses a fundamental problem in chemical and biological oceanography: the source of nutrients for new production in ocean surface waters. Researchers will examine the linkage between vertically migrating algal mats and the upward transport of nitrogen compounds in the central North Pacific gyre.

▼ Mary Louis Kurr of the Legal Technology Program has been awarded a grant of \$1,200 from the American Bar Association Fund for Justice and Education for a project titled: *Integrating Law and Sociology in SOC110A*. This project integrates appropriate areas of law into a sociology course – Courtship, Marriage and the Family.

▼ Bohdan Slabj of the Department of Food Science has been awarded a grant of \$33,586 from the U.S. Information Agency for a project titled: *University of Maine –Kharkov Consortium Exchange*. Undergraduates in civil and agricultural engineering, food science and human nutrition and the arts will travel to Ukraine to study during the 1995/96 academic year. Training will be provided in Ukrainian and Russian languages, and opportunities will be provided to participate in cultural and extracurricular activities.



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:** 1986 Ford Escort.. 2-seater, sporty, sunroof, 5 speed, grey and black, over \$1,000 in new parts, 107,000 miles, runs great, driven to Portland and back weekly. Will take BO. Call 866-3431.

**AUTOMOBILE:** 1985 Oldsmobile Cutlass Calais Supreme. 2-door, 3.0L V6, auto, cruise, air, tilt, pw, power seats, sunroof, new breaks, inspected, needs a computer sensor to be trouble-free. Will take BO. Call 866-3431.

**AUTOMOBILE:** 1992 Saab 9000, 5-door, standard, sunroof, 62,000 miles, set of studded snow tires. Excellent condition. \$16,000. Call 989-7567 evenings and weekends.

**FUTON:** Full-size futon mattress in excellent condition. Ideal as couch or bed. Only \$40. Call Phillip, 568-3840.

**HOUSE:** 3-bedroom ranch in pretty country setting, 5 minutes from I-95, 35 minutes from campus. View of rolling hills, farms, includes 2 1/2 acres. New roof, att. garage, separate barn/garage, hardwood floors, deck, and bay window. Asking \$68,000. Call 368-2060 evenings and weekends.

**HOUSE:** 68 Grant Street, Bangor. 4 bedrooms, 1 bath, double living room, new cherry kitchen, large dining room, 2-car garage, full basement and attic, good neighborhood. \$85,000. Call 667-4716 or 235-2779.

**HOUSE:** Waterfront year-round home on Sebec Lake, Dover-Foxcroft. Five years old, shingled cape, 3 bedrooms, 2 full baths, cathedral, custom built kitchen with skylights. Dining room, exposed beams throughout. Hardwood floors downstairs, carpet up. Living room w/brick hearth and mantle. 5 zoned FHW heat. Heated full glassed/screened porch. 2-car garage with utility room and full bath. Large upstairs ready to be made into guest quarters. Blue Ribbon award winner by CB. AHS Home Warranty Protection. Quiet West end of the lake. Asking \$195,000. Call 997-3266 eves and weekends.

**HOUSE:** Lovely 3-4 bedroom cape in Bangor. Large lot, two-car garage. New neighborhood. Many nice features. \$129,900. Call 947-2235. Leave message.

**HOUSE:** For sale by owner. 3,024 +/- sq ft, 7-year old home in one of the most prestigious, family-friendly neighborhoods in Hampden. 3-4 huge bedrooms (master suite is 27'x16'), 3 full baths, formal living room and dining room. Family room is adjacent to breakfast nook and gorgeous outdoor deck, and has heater fireplace. Oversized two-car garage, with paved driveway. Highest quality construction by renowned H. Blaine Davis builders includes modern appliances in excellent condition. Large .5 acre lot near other families and only 20 minutes from campus, yet on private cul-de-sac. Appraised at \$145,000 by Gordon Appraisal Co., asking \$143,900. Call 862-2684 after 5 p.m. and weekends.

**HOUSE:** 8 percent assumable loan on 11-year-old 1,344-sq.-ft. executive ranch. Newer carpet throughout. Two bedrooms upstairs with 600-sq.-ft. finished room downstairs. Two full baths. Custom oak cabinets in kitchen. Solid wood doors and brass lighting throughout. Large 12'x18' master bedroom with two oversized closets and roomy private bath. Well situated on 1.47 acres with vegetable and flower gardens, maple, apple, and cherry trees, grape vines, raspberries, and blackberries. Rural setting only 15 minutes from campus via Essex and Forest avenues. No cosmetic updating needed! Asking \$9,000 down and take over payments on \$116,400 loan balance. Call for appointment, 942-0902.

**HOUSE:** For sale by owner. 7 years old, located on beautifully landscaped 1 1/3-acre lot in a very nice Hermon development. 4 bedrooms, 2 full baths, eat-in kitchen with hickory cabinets, formal dining room, 25-foot living room, 11 closets, central vacuum. 2-car garage, large two-level deck, all solid 6-panel christian doors, ash flooring throughout, basswood trim, all 2x6 construction, Pensotti furnace, full basement, maintenance-free exterior, low taxes. \$139,500. Call 848-7383 for an appointment.

**HOT TUB:** Catalina hot tub, 5-person, tiles, double jets, with cover, excellent condition. \$2,300. Call 989-7567 evenings and weekends.

**INFANT/TODDLER ITEMS:** Baby bath, \$5; 2 booster seats, \$5 each; glass and plastic baby bottles, \$5; crib linen, \$10; 2 training potties, \$7 each; 2 infant/toddler bike seats, \$45 each; infant backpack, \$25; Century deluxe infant/toddler car seat, \$50; red tricycle, \$10; toddler/preschool swing set, \$60. Everything like new. Call 947-7799.

**LAND:** Waterfront. 8-acre pond surrounded by 62 acres of pristine woodland. Little Bennett Pond is a clear-water pond fed by Big Bennett Pond. L.B. Pond feeds into Bennett Cove of Sebec Lake. Buyer will acquire a deeded carry and foot access to Sebec Lake just across the road. Electricity avail. 20 minutes to town of Dover-Foxcroft but totally private. Abundant wildlife, flora and fauna. There are four soil tested and DEP approved lots which are very private and have large waterfronts and acreage. A rare and

exceptional find for the naturalist, writer, sports and/or outdoor person. Asking \$165,000, but will entertain any reasonable offer after you have seen it. Call 997-3266 evenings and weekends.

#### FOR RENT

**APARTMENT:** Well-maintained 1-bedroom apartment in quiet setting. Good for studying. SGD overlooking the Penobscot River. 10 minutes from campus. \$350/month, includes heat and water. References and security deposit required. Available May 1. Call 827-7017 days or evenings.

**APARTMENT:** Orono river panorama, convenient to University and downtown. Private road with parking. Two bedrooms, quiet, uniquely spacious. Take a look and see an ideal location for family or graduate student. \$550 + utilities. Call 348-6764 or leave message at 348-5234.

**HOUSE:** Convenient Bangor location, beginning July 15. Eight room, 1 1/2 bath house in Eastside neighborhood. Walk to Abraham Lincoln, Garland Street schools. Possibility of renting with option to buy. \$650/month. Tel. 942-3945.

#### WANTED

**AERIAL PHOTOS:** Wanted ASAP - seeking photos of the Fort Kent/Madawaska area, Washington county (Machias, Princeton, Calais, Eastport), and the greater Farmington areas. The photos should depict regional attributes and convey rurality. Must be able to clearly see potato farming, logging, blueberry

barrens, the coast and mountain ranges. Call Sue or Diana, 581-2591.

**APARTMENT:** Family of three looking to rent a 2-3 bedroom apartment or house in the Orono to Bangor area by June 1. Call Mary and leave message, 947-7214.

**HOUSING:** Incoming National Student Exchange student from Oklahoma State University wishes to live with local family while here. He is a UMaine hockey fan and majoring in elementary education. Would enjoy family with children, non-smoking and church participants. Contact Jack, 581-1297.

**HOUSE:** University professor wishes to purchase 2-4 bedroom house in Orono within 2 miles of the University of Maine. If you have a house to sell which is not currently listed, call 866-7935.

**HOUSE:** Nice 2-4 bedroom house with 10+ acres in the country off a main road, i.e., no neighbors or trailers within 1/2 mile. Good condition and reasonable price. Call 866-2893.

**WEEKEND HOMESTAY FAMILIES:** This summer, students from Japan, Korea, United Arab Emirates, Russia, Newly Independent States and other countries will be participating in programs on campus through the Intensive English Institute. We are looking for people willing to host 1-2 students for one weekend in July or August. For more information and an application, contact the Intensive English Institute, 11 Fernald Hall, x3821.

#### Editorial Assistant Needed

The General Alumni Association is seeking a halftime editorial assistant for the publications office. Proven skills in office management, basic writing, word processing, and proofreading are required. Some familiarity with Microsoft Word and Aldus PageMaker are a must (familiarity with Internet a plus). Starting pay range is \$8.75-\$10 per hour, depending on experience. Flexible schedule. Resume and references can be mailed to: Lynne Nelson Manion, P.O. Box 550, Orono, ME 04473-0550. Application deadline is May 9.

**SURPLUS SALE:** The University of Maine offers for sale, on an as-is where-is basis, the following: (1) CALCOMP 1025 PEN PLOTTER, Artisan Plus, 8 pen, 2 meg plot buffer, \$900; (1) IBM 286 COMPUTER, no hard drive, \$30; (1) IBM 6182 PLOTTER, \$500; (3) PRINTERS, Epson DX-20 & STAR, daisywheel, \$25 each; (1) PRINTER STAND, desk top, plastic, \$5; (1) DATA DOC SWITCH for drives A and B, \$10; (4 boxes) ZENITH COMPUTER CHIPS, 256K expansion for Zenith 100 series \$10; (1) MAC POWERBOOK 165, laptop computer, 80 MB hard drive, 4 megs of RAM, \$800 (DEPARTMENTS ONLY); (100's) USED MANILLA FOLDERS, FREE; (15) IBM CORRECTING SELECTRIC III TYPEWRITERS, \$75 each; (16) DICTATING UNITS, Cassette Master CM2, \$25 each; (1) SMALL METAL DESK, single pedestal, \$40 DEPTS ONLY; (500') 25 PIN COMPUTER CABLE, 20 cents per foot; (4) METAL BASKETBALL RIMS, \$5 each; (3) BASKETBALL BACKBOARDS, 4' X 6', wooden, \$15 each; (16) TOKEN RING CARDS, ISA & Micro Channel, 4.77 MBPS, w/cable, \$100 each; (1) TOKEN RING HUB, 8 port, \$150; (1) ELECTRONIC STENCIL CUTTER, Eklund 7800, \$50; (6) ROOM DIVIDERS (PARTITIONS), fabric with metal frames, free standing \$20 each; (2) PRINTER STANDS, 4' high, \$10 each; (1) CLOTHES DRYER, Westinghouse, needs belt FREE; (1) CROSS SWITCH, FREE; (1) MULTIMEDIA ACCESS CENTER, \$100; (8) 8 BIT NETWORK CARDS, FREE to \$25. 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.

## Poster Session *continued from page 2*

"It's a powerful professional development opportunity," says King. "It helps students realize why teachers need to do research, know how to document and report, and be reflective about practice."

Associate Professor Pamela Schutz, completing her 12th year with the Professional Preparation Program, sees the senior project as a final student opportunity to demonstrate breadth and depth of understanding of a specific area or topic. "We also want the experience to encourage them to continue to seek in-depth knowledge and understanding as professionals," she says.

Another school-practice link will be evident in the judging of the projects. Graduate students in Associate Professor Edward Brazee's Teaching in the Middle School class will develop criteria for ranking the projects in the categories of research, school practice or curriculum, and display. Class members, most of them teachers in middle schools from Jackman to Camden, will arrive early for class on May 1, divide into teams and begin observing the presentations, talking with the undergraduates, and giving real-world advice based on their teaching experiences.

"This is a professional experience for the graduate students, as well," says Brazee. "For teachers who work in isolation, having other educators look to them for advice is a real opportunity."

The diversity of projects offer a broad overview of what's happening in public schools, ranging from home schooling to classroom management and gender issues to bilingual education.

The professional exchange establishes a valuable connection between undergraduate and graduate students, according to Russell Quaglia, associate professor in educational leadership and one of the graduate faculty who will encourage his students to check out the learning and teaching opportunities at the Poster Session.

"Seeing practicing principals, teachers and superintendents attending graduate classes has a tremendous impact on undergraduate students," says Quaglia. "Those professionals gain new appreciation for students trying to get at some tough educational issues. It really begins the process of networking between experienced and aspiring educators."

Senior Christine Deal has developed questionnaires to survey and compare views of educators in southwest Texas and the Old Town-Orono area on the issue of bilingual education, and she has done extensive reading and computer linking with other universities on the topic. In addition to vast amounts of new information about her special interest, she has learned much about the research process, including the realization that her research on this topic will not end with the completion of her senior project.

"I've learned that a research project isn't just reading and reporting information in a term paper. It's the opportunity to explore, discover and reflect, then write about something you really understand," she says. ▲

## Student Art *continued from page 2*

Seven of the pieces are collaborations. *Modern Icons* is a class project produced by 10 students in intermediate and advanced printmaking classes taught by Professor Susan Groce. Each student designed a portfolio; three portfolios and one full set of the prints are in the exhibition.

Mark Steele II of Orono and Richard Corey of Bangor also collaborated to construct a two-story high piece of sculpture in the Museum's stairwell. The painted surface of the tubular construction is covered with a quiet flow of circulating water. The work, sponsored by Sawyer Environmental Services in Hermon, is titled *OVERFLOW* and was singled out by the judges for a special Juror's Award.

Museum hours are 9 a.m.-4:30 p.m. Monday-Friday. ▲

## 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.*

**Industrial Hygienist, Department of Environmental Health and Safety.** Part-time, fixed length appointment. Qualifications: A bachelor's degree or equivalent work experience in one of the same areas is required. Master's degree in an area such as Environmental Science or Industrial Hygiene, or related field, is preferred. Familiarity with OSHA and NIOSH compliance issues: testing, reporting requirements, program development and implementation is required. Professional Certification a definite plus. Experience with a variety of personal computers and/or technical writing and team facilitation and time management are preferred. Must have excellent written and oral communications skills. Salary Range: \$13,000-\$18,000. Review of Applications: Will begin 5/15/95. Contact: Victoria Justus, Director of Environmental Health and Safety, University of Maine, 5765 Service Building, Orono, ME 04469-5765.

**Research Partnership Coordinator, Maine Principals Association and University of Maine, College of Education.** Part-time consultant position. Time commitment is flexible, approximately two days per week. Qualifications: Master's degree in educational leadership; an understanding of the role of the principalship; strong interpersonal skills; successful grant writing experience; and ability to travel. Salary: \$160 per day. Review of Applications: Will begin 5/8/95. Start Date: 7/1/95. Contact: Russ Quaglia and Chris Avila, Co-Chairs, Search Committee, University of Maine, College of Education, Room 152, 5766 Shibbes Hall, Orono, ME 04469-5766.

**Assistant Professor of Wildlife Ecology, Department of Wildlife Ecology.** Tenure-track position. Qualifications: Expertise beyond terrestrial vertebrates, including those with expertise in applied freshwater ecology, wetland-freshwater systems as habitat, and or wildlife policy; however, the search is not being restricted to those focus areas. The successful candidate should have a strong commitment to graduate and undergraduate education (50 percent) and will be expected to develop a research program in areas of specialization (50 percent). Review of Applications: Will begin 6/1/95 and continue until a suitable candidate is found. Contact: James Gilbert, Department of Wildlife Ecology, University of Maine, 5755 Nutting Hall, Orono, ME 04469-5755.

*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.*

### 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.

Specific qualifications for the position are: 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.

Complimentary room and board would be available to all live-in advisors, along with the possibility of a stipend.

Traditional house mother candidates would also be welcome.





**National Cancer Institute** invites applications for small grants for research and outreach activities to address six priorities of the National Action Plan on Breast Cancer: information dissemination, National Biological Resource Bank, consumer involvement, breast cancer etiology, clinical trials accessibility, and issues pertinent to breast cancer susceptibility genes. Maximum award: \$50,000 in direct costs per year. Deadline: June 14.

**National Institute of Justice** has issued its 1995-96 Research Plan, inviting proposals for research, evaluation, and development projects to further six long-range goals: reduce violent crime, reduce drug- and alcohol-related crime, reduce the consequences of crime, improve the effectiveness of crime prevention programs, improve law enforcement and the criminal justice system, and develop new technology for law enforcement and the criminal justice system. Next deadline: June 15.

**Deafness Research Foundation** supports research on the function, physiology, biochemistry, genetics, anatomy,

and pathology of the ear. Priorities include new investigators and seed money support in generally unexplored areas of research. Maximum award: \$15,000 per year for up to three years. Deadline: July 15.

**Transportation Research Board** makes IDEA awards to explore, develop, or apply new concepts and products to accelerate the development and deployment of Intelligent Transportation Systems in the nation's highway, transit, and intermodal surface transportation. Projects may address advanced safety systems, travel management systems, intermodal systems, public transportation operations, commercial vehicle operations, rural applications, automated highway systems, socioeconomic impacts, human factors, and education and training.

**United Cerebral Palsy Research & Educational Foundation** grants up to \$50,000 for pilot studies of basic, clinical, and applied research important to the prevention of cerebral palsy or to improvement in the quality of life of persons with disabilities due to cerebral palsy and related developmental disorders.

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

**EAP OFFERS MANAGED CARE FOR OUT-PATIENT MENTAL HEALTH COUNSELING**

EAP has received inquiries regarding precertification for mental health coverage. Our insurance policy requires covered participants who seek counseling services from a licensed provider be precertified by our managed care provider, Health Risk Management, which conducts the process through its ReviewPLUS service. However, this step can be eliminated if contact is first made with EAP. The System Office has authorized Polly Karris of EAP to provide managed care and approve out-patient mental health counseling services (not in-patient or substance abuse cases), thus eliminating contact with ReviewPLUS. In order to have EAP provide managed care services for out-patient mental health counseling, the following conditions must be met:

- ▼ The employee or family member has an in-person EAP session.
- ▼ Therapy is received from providers EAP identifies for your particular situation.
- ▼ The provider referred to completes EAP out-patient treatment form and returns it to EAP by the end of the third session.

Karris will then notify New York Life to provide coverage for out-patient mental health services. This process with EAP eliminates the requirement to call HRM's 800-number for precertification.

Contact EAP for more information or an appointment, x4014.

**STUDENT ACADEMIC CONFERENCE TRAVEL FUND**

The Student Academic Conference Travel Fund for undergraduate students will hold its third competition of the academic year. This fund serves undergraduate students who need financial assistance for travel to meetings/conferences of an academic nature. Applications must be submitted to the Office of Academic Affairs (209 Alumni Hall) by May 1. Money will be awarded for travel taking place May 2-Oct. 4. Applications can be obtained from Joan Day, Office of Academic Affairs, 209 Alumni Hall, x1547.

**DEADLINE EXTENDED TO MAY 5 FOR JOINING SCOPE: THE STUDENT COMMUNITY OUTREACH PROGRAM EXPERIENCE**  
*Sponsored by the Wilson Center*

SCOPE is a paid opportunity for students to:

- ▼ Create and lead programs and activities that explore peace, justice and spirituality.
- ▼ Develop leadership skills and explore areas of interest.
- ▼ Experience meaningful work.

For more information and an application for the 1995-1996 school year, contact the Wilson Center, 67 College Ave., Orono. Phone: 866-4227.

*What's Ahead*



**BUMSTOCK**  
*April 28-29*

**GRADUATE SCHOOL  
RECOGNITION  
CEREMONY**  
*May 12*

**Maine Perspective**

University of Maine  
*Maine Perspective*  
Department of Public Affairs  
5761 Public Affairs  
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