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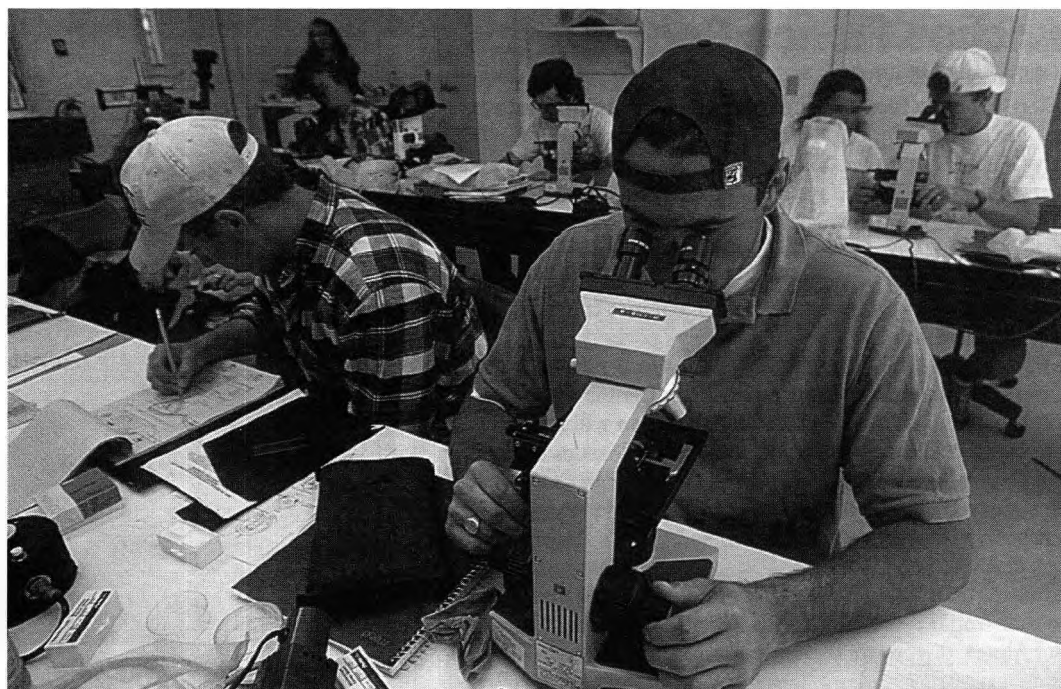
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The University of Maine's Darling Marine Center is gearing up for what could be one of its most ambitious summers of educational programming, scientific study and community outreach. See related story on page 2.

Photo by Tim Boyd

Faculty Senate Approves Collegiate Restructuring

The Faculty Senate has unanimously passed a resolution endorsing a revised collegiate restructuring plan for the University as presented by the administration that includes an amendment to use the name, College of Liberal Arts and Sciences, as recommended by the Senate.

A second recommendation by the Senate, made on May 8, to have the Women in the Curriculum and Women Studies Program report to the vice provost for Undergraduate Education, was not accepted by the administration. In its May 22 meeting, Faculty Senate remained committed to its recommendation, which it attached to the endorsed collegiate restructuring resolution now on President Fred Hutchinson's desk.

The University's plan for collegiate restructuring is expected to be considered by the University of Maine System Board of Trustees in July. Implementation would be in July 1997.

The collegiate restructuring plan is part of AFFIRM (Actions to Facilitate Fiscal Integrity and Refocused Missions), a strategic and fiscal planning document for the University for the coming decade. Its structure, and the process undertaken to achieve it, represent three months of dialogue and decision making on the part of Faculty Senate and the administration to cooperatively hammer out a plan that would maximize the institution's educational quality and cost-containment.

"What is important is that, in mid-March, the administration proposed a plan to restructure campus," says Faculty Senate President Ralph Townsend. "The plan came late in the academic year, the administration recognized this and

proposed that the Senate review it in the fall. It was the Senate that went to the administration and asked if it would be willing to do the work in

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Embryo Transplant Research Leads Effort to Rebuild Dairy Herd

Planned renovations at the Witter Animal Science Center and the sale of most of the UMaine dairy herd will be combined with a program of research which may bring University scientists into a closer relationship with Maine's dairy farmers. Three faculty members in the Department of Animal, Veterinary and Aquatic Sciences are working on improvements to dairy breeding, and in the course of their work, may also develop a new and exceptionally high quality University herd.

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In Perspective

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

University of Maine Press Launches Franco Book Series

The debut of a bilingual book of plays by Waterville native and now internationally recognized playwright Grégoire Chabot is a literary and cultural milestone for the University of Maine.

Chabot's book, *Un Jacques Cartier Errant / Jacques Cartier Discovers America: Three Plays by Grégoire Chabot*, includes three plays focusing on cultural concerns, written in the "spoken language" of Franco-Americans and accompanied by English translations. Chabot was among the dignitaries on hand for the "Cultural Identity in French America" colloquium this past week, where his book debuted and one of his plays performed.

The 316-page volume is published by the University of Maine Press and the University's Franco-American Center through a newly established partnership. The collaboration will result in a series of books examining historical and cultural issues of importance to Franco-Americans. *Un Jacques Cartier Errant*, with book design and cover by Alpert using his original woodcuts, is the first book in the series to be known as Editions Reveil – Editions of Awakening.

"The series title was carefully thought out in order to find a phrase that would reverberate with Franco-Americans," says Michael Alpert, director of the University of Maine Press and long-time book-artist and publisher in the Bangor area. "The series signifies an awakening in a number of ways. It is one of a few books of plays in North American French – not standard European French – bringing an awakening to the language. The University and the state are awakening to the concerns of the Franco population. Chabot is unflinching in his playwriting; he understands what his plays can do." *continued on page 15*

NSF Funding Helps Darling Center Prepare for Summer

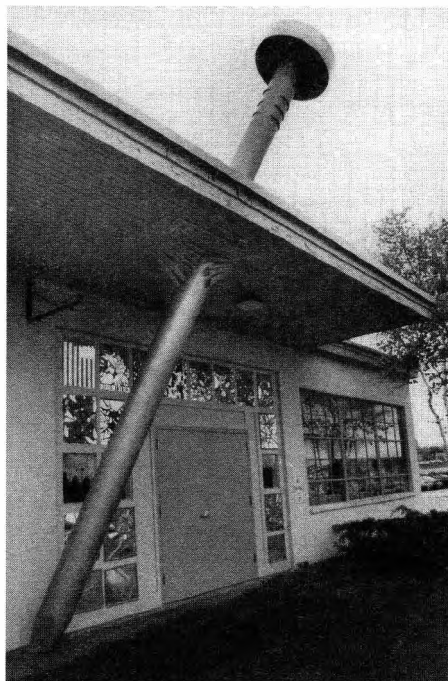
For the fourth time in five years, the University of Maine's Darling Marine Center has been awarded National Science Foundation funding for capital improvements that will expand the research capabilities of the marine laboratory on the Damariscotta River, just in time for what could be one of the most ambitious summers of educational programming, scientific study and community outreach.

The NSF award and University match makes available \$175,000 to be used to build a waterfront vessel operations structure, design and construct a 27-foot coastal research vessel, and purchase seven research instruments. The vessel operations building will replace a 100-year-old barn now used for maintenance of the Darling Center's present fleet of six small boats. The new vessel, with a capacity for up to nine people, will have an enclosed cabin for year-round use, and modern sampling and navigational equipment. The state-of-the-art research instruments, including a sophisticated research photomicroscope, will be used by UMaine and visiting scientists in the shoreside Flowing Seawater Laboratory and the recently constructed Visiting Investigator/Classroom Building.

The research instruments are now installed at the Darling Center. The research vessel and the operations repair/storage building are expected to be completed by mid-summer.

Other improvements made possible by NSF monies in the past five years include: construction of the waterfront Visiting Investigator/Classroom Building with funding in 1994; purchase of a Zeiss 940A scanning electron microscope in 1993; and

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When 14 students in the Artists and Engineers Collaborative, led by UMaine Professor of Art Deborah deMoulpiéd, were asked to come up with a means of identifying the recently renovated new home of the Sculpture Division of the Art Department, the designs of senior Scott Bennett hit the nail on the head in the juried competition. Bennett's two concepts of a 22-foot galvanized nail and a facade of broken mirrors were combined to create one architectural sculpture that was constructed and installed by the students a week after

the close of classes this past semester. The sculpture features the 12-inch diameter galvanized nail protruding through the roof of the sculpture studio, which penetrates the portico of the building. At the base is a wall of broken mirror panels, each creatively designed by a student in the class. In addition, the sculpture studio, which up until now has been inconspicuously sandwiched between the campus fire station and the Depot recycling center, will soon have a mirror sign over the entry dubbing the facility the Sculpture Station. Bennett, an art major who graduated this month with a concentration in sculpture, takes inspiration from internationally renowned sculptor Claus Oldenburgh, whose works include a giant clothespin sculpture in Philadelphia. The Nail has caused quite a stir in the University community, with people describing it as "positive" and "uplifting." People most appreciate the size of the sculpture, says Bennett, as well as its realistic quality. The permanency of the sculpture is yet to be determined, but Bennett says no matter how long it is allowed to remain, he hopes it makes people realize "what goes on in there." The sculpture studio, he says, is a dynamic place where students are "bringing out their ideas." For him, the studio was the "final nail" – the end of his formal education as he heads West to travel.

Photo by Kathryn Rice

PARKING OFFICE HOURS

The summer hours for the Parking Office in the Department of Public Safety will be 7:30 a.m. – 3:30 p.m., Monday–Friday, June 3–Aug. 23.

Maine Perspective

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In complying with the letter and spirit of applicable laws and in pursuing its own goals of pluralism, the University of Maine shall not discriminate on the grounds of race, color, religion, sex, sexual orientation, national origin or citizenship status, age, disability or veterans status in employment, education, and all other areas of the University. The University provides reasonable accommodations to qualified individuals with disabilities upon request.

University of
Maine

U Maine Calendar

JUNE

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.

31 Friday

Children's Day at Leonard's Mills, featuring puppet shows, games, toys, songs and storytelling of the 1790s, May 31, Rt. 178, Bradley. Admission fee. x2871.

College Expo: "The University of Maine Today," a multi-college presentation, part of Seniors Celebration Day of Reunion Weekend, 10 a.m.-3 p.m., May 31, Alfond Sport Arena. x1142.

Senior Alumni Luncheon and Annual Meeting, part of Seniors Celebration Day of Reunion Weekend, noon, May 31, Wells Conference Center. Admission fee. x1142.

Page Farm and Home Museum Open House, part of Seniors Celebration Day of Reunion Weekend, 1-4 p.m., May 31. x1142.

Fogler Library Open House, part of Seniors Celebration Day of Reunion Weekend, 3-4 p.m., May 31. x1142.

Senior Alumni Dinner Dance, hosted by the Class of '41, part of Seniors Celebration Day of Reunion Weekend, 5:30 p.m., May 31. Admission fee. x1142.

1 Saturday

"M" Club Breakfast & Annual Meeting, part of Reunion Weekend, 8 a.m., June 1, Wells Conference Center. Admission fee. x1142.

Reunion Breakfast, part of Reunion Weekend, 8 a.m., June 1, Wells Conference Center. Admission fee. x1142.

College of Sciences Reunion, 9 a.m.-3:30 p.m., June 1, Aubert Hall. x3845.

College Expo: "The University of Maine Today," a multi-college presentation, part of Reunion Weekend, 10 a.m.-3 p.m., June 1, Alfond Sport Arena. x1142.

Page Farm and Home Museum Open House, part of Reunion Weekend, 1-4 p.m., June 1. x1142.

Class of 1945 Memorial Sculpture Dedication, part of Reunion Weekend, 1:30 p.m., June 1. x1142.

"Coaches Corner" Get-Together, part of Reunion Weekend, 2 p.m., June 1, Mahaney Clubhouse. x1142.

Hudson Museum Champagne & Chocolate Reception, honoring the contributions of Professor Emeritus Richard Emerick, part of Reunion Weekend, 2:30 p.m., June 1, Maine Center for the Arts. x1142.

Museum of Art Open House, part of Reunion Weekend, 3:30-4:30 p.m., June 1, Carnegie Hall. x1142.

Reunion Reception, part of Reunion Weekend, 6:30 p.m., June 1, Wells Conference Center. Admission fee. x1142.

1996 Reunion Banquet, featuring presentation of Alumni Awards, recognition of Class Reunion Giving, and remarks by President Fred Hutchinson, part of Reunion Weekend. 7:30 p.m., June 1, Wells Conference Center. The Banquet will be followed by a Reunion Dessert/Dance Party. Admission fee. x1142.

2 Sunday

College Breakfasts/Faculty Presentations, part of Reunion Weekend, 8-9:30 a.m., June 2. Admission fee. x1142.

8 Saturday

Maine Museum Day at Leonard's Mills, focused on the theme of revisiting the age of water power, including sawmill demonstration, 10 a.m.-3 p.m., June 8, Rt. 178, Bradley. x2871.

Maine Museum Day at Page Farm and Home Museum, featuring a working demonstration of antique engines of Dick Collins, past president of the Maine Antique Power Association, and booksigning and guided tour of *Acadian Hard Times* photo exhibit by C. Stewart Doty, professor emeritus of history, 10 a.m.-4 p.m., June 8. x4100.

"Stalking the Mysterics," an introduction to shamanism workshop with Mark Felix, 10 a.m.-4 p.m., June 8, Wilson Center. Preregistration/Admission fee. 866-4227.

25 Tuesday

Eco-Cafe, informal discussion around the topic this month: can you make a difference without being perfect? offered by the Earth Week Committee, bring your own lunch, 12:15-1 p.m., June 25, Davis Room, Union. x1671.

The Facilities Management Plumbing Shop will be flushing hydrants June 10-12. Discolored water or low water pressure may result. If you have any questions or concerns, call x4400.

Ongoing Events

Exhibits

Migrant Within III, a University of Maine Museum of Art exhibit, through June 14, Carnegie Gallery, Carnegie Hall. x3255.

The French Collection, a University of Maine Museum of Art exhibit, through July 5, 1938 Gallery, Carnegie Hall. x3255.

Alumni Collect: Gifts to the University of Maine Museum of Art, a University of Maine Museum of Art exhibit, through July 26, Hole in the Wall Gallery, Union. x3255.

Museums by Mail: Open Workshop, a University of Maine Museum of Art exhibit, June 18-Aug. 19, Carnegie Gallery, Carnegie Hall. x3255.

Oaxaca . . . Días de los Muertos, Días de los Vivos, photography by Cy Lehrer, a Hudson Museum exhibit, through Nov. 3. 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.

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

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

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

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.

Miscellaneous

Taste of Home, a potluck cookout and "spiritual tune-up" - food for the body and spirit, 5:30 p.m., every Tuesday, Wilson Center. 866-4227.

Reunion '96 Honors Memory of Ray Fogler and the Lifetime Achievements of Other Alumni

The University of Maine General Alumni Association's Reunion '96 will be highlighted by the first concurrent collegiate reunion with the College of Sciences, the dedication of the Class of 1945 Memorial Sculpture, and a College Expo showcasing the colleges of UMaine.

Reunion '96, May 31-June 2, is dedicated to the memory of one of the University's most ardent supporters – Raymond Fogler, a member of the Class of '15 and namesake of Fogler Library. Fogler died earlier this year at the age of 103.

As is the tradition, Senior Alumni from the Classes of 1916-46 will be the first to gather, kicking off the three-day reunion weekend on Friday, May 31. Events planned for that first day include the Senior Alumni Luncheon where three of the Block "M" Alumni Activities Awards will be presented. The Luncheon and Annual Meeting in Wells Conference Center also will honor Win Pullen, Class of '41, whose vision and efforts brought about the establishment of the Page Farm and Home Museum. The Museum will one day have a carriage house named in his honor.

Among the activities planned for that Friday and Saturday from 10 a.m.-3 p.m., in Alford Sports Arena is a College Expo called "The University of Maine Today." The multi-college presentation, offered by the University of Maine Development Office, is designed to show "what it's like to be a UMaine student in today's world."

The 50-year or more classes of the senior alumni will be joined Saturday by alumni from other classes. Like last year, upwards of 650 UMaine alumni are expected to take part in Reunion activities.

Among those returning to campus will be alumni from the College of Sciences for the first collegiate reunion held during Reunion Weekend. More than 6,600 of the College's alumni have been invited to take part in college presentations scheduled from 9 a.m.-3:15 p.m. (*See College of Sciences Reunion activities schedule at right.*)

Other highlights of Reunion '96 that Saturday include the Dedication of the Class of 1945 Memorial Sculpture outside the Memorial Union at 1:30 p.m. The Memorial Sculpture, created by UMaine Professor of Art Deborah deMoulpied, is dedicated to the memories of those of the Class of '45 who lost their lives in World War II.

The Sculpture Dedication will be followed at 2:30 by a Hudson Museum Champagne and Chocolate Reception honoring the contributions of Professor Emeritus Richard Emerick, the Museum's founder.

Saturday evening will feature the 1996 Reunion Banquet, highlighted by the presentation of alumni awards, recognition of Class Reunion Giving, and remarks by President Fred Hutchinson.

Some of the Alumni Association's top awards being presented this year during Reunion are: Alumni Career Award to Mary Vesta Marston Scott of the Class of '46; Black Bear Awards to Edward Bryand '52, Richard Collins '59, James Gorman '58 and Eugene Mawhinney '47; Block "M" Alumni Activities Awards to Steven Bonville '69, Gerald Hart '38, J. Alice and Charles Smith '41, Lowell and Hope Wing Weston '37/ '36; and Pine Tree Emblem Alumni Service Award to Helen Wormwood Pierce '41.

Concluding Reunion on Sunday will be the College Breakfasts featuring faculty presentations. ▲

COLLEGE OF SCIENCES REUNION HIGHLIGHTS

Saturday, June 1

- 9 a.m. Geological Sciences - A reconstruction of the Earth's past climate with a visit to the Stable Isotope Laboratory
- 10 a.m. Physics and Astronomy - A presentation on radon and environmental radioactivity with Charles Hess; and a presentation on chaos as an alternative way of looking at diverse systems by Susan McKay
- 11 a.m. Computer Science - George Markowsky will give a presentation on the World Wide Web, Internet and other facets of the electronic age; and a graduate student will demonstrate a UMaine computer tutorial called "Snow Blitz" that was designed for a museum of natural history
- 1:30 p.m. Plant Biology & Pathology - A field trip with Christopher Campbell called "Too Much Sex in the Plant World: Hybridization of Shadbushes"
- 2:30 p.m. Zoology - A fieldtrip focusing on the foraging behavior of birds and squirrels, led by William Glanz
- 3:30 p.m. Planetarium - "Our Place in Space," and Hyakutake Comet photo exhibit, presented by Alan Davenport

EMPLOYEE RECOGNITION ACTIVITIES

At Employee Recognition Banquets held earlier this month, 25-year employees and retirees were among those honored. The 25-year honorees, bottom photo, are, first row, left to right, Catherine Merchant, Lucille Clements, Joyce Henckler, Linda Crocker, Margaret Comeau, Carole Treadwell; second row, Rebecca Libby, Sam Garwood, Betty Cook, Cheryl Clement, Carole Gardner, Ethellena Hill; third row, John Zoldi, Rosemary Bamford, Margaret Russell, Sally Jacobs, August DeSiervo, Calvin Walker; fourth row, Michael Zubik Jr., James Gallagher, Malcolm Blake, Charles Chandler Jr., Louis Hall. Not pictured are: Steven Cohn, Kenneth Dresser, Marilyn Emerick, Stevan Horne, Larry Joaquin, Caroline Kennedy, David Sanger, Roy Thurston, Richard Verville, Dennis Watkins, Julia Watkins and Audrey Young. Retirees, top photo, are, first row, left to right, Dennis McConnell, Norman Soderberg, Paul Frey, Donald Pilcher, Bernard Yvon; second row, John Skehan, William Ceckler, Johannes Delphendahl, Margaret Freeman, Paul Camp; third row, Dawn Lacadie, Michael Butler, Cora Levasseur. Not pictured are: Jacob Bennett, Thomas Cole, John Coupe, C. Stewart Doty, John Gilman Sr., Geraldine Goodine, Joseph Levasseur, Thomas Nadeau, Frank Pottle, Charles Rauch, Alton Tyler, Francis Vaillancourt, William Valleau, Terry Walsh, and Roger Whitehead.



Outstanding Employee Awards Presented

The annual Outstanding Employee Awards for classified and professional employees have been awarded to six members of the University community whose actions and activities above and beyond normal work responsibilities have provided exceptional service to their fields, to UMaine and to the community.

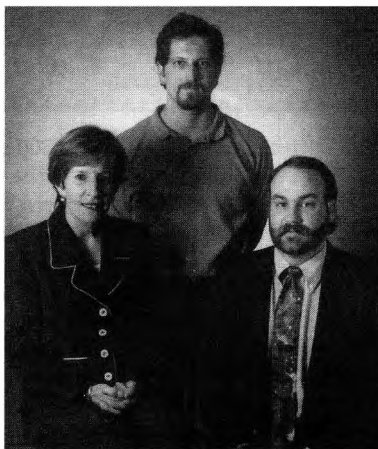
The Awards, sponsored by Human Resources, were presented at an Employee Recognition Banquet held earlier this month. Professional employee award winners were selected by a committee of the Professional Employees Advisory Council (PEAC), and classified employee recipients were selected by the Employee Recognition Committee formed by Human Resources, which is made up of representatives from the faculty, professional, classified, non-representative units from across the campus personnel. Next year it is anticipated that the Classified Employees Advisory Council (CEAC) will manage the selections from classified employee nominees like PEAC. Each year nominations are requested for outstanding professionals and classified staff with submission to the appropriate committees. Each recipient receives \$1,000 and a plaque noting their accomplishment.

Classified employee award winners are Jim Dunphy, Carole LeClair and Betty Lee. Professional employee award recipients are Karen Boucias, Jake Ward and Scott Wilkerson. They were selected based on demonstrated dedication to serving others; high levels of professional services and standards within their disciplines or areas of responsibility; their inspiration to others through dedication, commitment and work ethic; work in helping create a better environment for all in the campus community; and volunteerism and significant contributions to their communities. Nominees, all required to have at least three years of continuous service at UMaine, were evaluated on the basis of leadership, creativity, support and exceptional contribution to their disciplines.

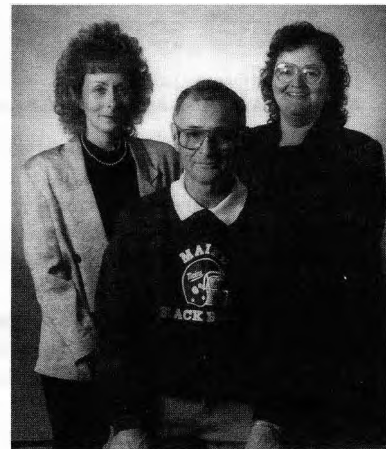
Karen Boucias is associate dean of the Graduate School and acting director of International Programs. During her 11 years in the Graduate School, her many contributions have included the initiation of a training program for teaching assistants, new publications such as a handbook for TAs, and guidelines for graduate coordinators, and for thesis and dissertation preparation. From 1990-93, Boucias served as a steadfast member of the Maine State Commission for Equity and Pluralism, whose tasks included fostering mentor relationships between community leaders and Maine high school and college students of color. In addition, this past year has seen Boucias involved in the Office of International Programs as interim director. As of July 1, she will be the full-time director of the Office of International Programs.

Jim Dunphy has been a member of the Athletics Department for the past 26 years. As athletics grounds and equipment manager, Dunphy's "can do" attitude makes it possible for the Athletics Department to serve 19 intercollegiate teams, UMaine's club and recreational sports programs, and the countless community public service events hosted throughout the year in our athletics facilities. His rapport with people is exemplary. His leadership is legendary; he is known for his organization and motivation of his student co-workers. The responsibilities of Dunphy and his student employees include the transformation of Alford Sports Arena from a hockey rink to a basketball court or vice versa - a choreographed ballet of forklifts and handcarts, flooring, Plexiglas, backboard, tables, chairs and audio equipment that occurs within a two-hour period.

Administrative Assistant II Carole LeClair was recommended for an Award for her contributions to the University, the surrounding communities and, in particular, area youth. As an integral member of the Student Activities Office



Professional Employee Award winners, left to right, are Karen Boucias, Scott Wilkerson and Jake Ward.



Classified Employee Award winners, left to right, are Betty Lee, Jim Dunphy and Carole LeClair. Photos by Kathryn Rice

staff for more than a decade, LeClair has been involved with her "great love - students." She interacts with hundreds of students involved in fraternities and sororities, as well as student organizations. This year she was elected by her peers as a representative to the Classified Employees Advisory Council. In addition, LeClair and colleague Bill Lucy, associate dean of student activities and organizations, are responsible for planning and orchestrating Family and Friends Weekend. LeClair's work with University of Maine students dovetails into her devotion throughout the past 17 years to the youth of Bangor, Brewer, Orono, Old Town, Bradley and Milford.

Outstanding Employee Award recipient Betty Lee joined the University of Maine community in 1983. Her position as administrative assistant II for the Water Research Institute includes a myriad of responsibilities such as administrative duties for the federal Maine Water Resources Research Institute Program at UMaine. She has made significant contributions to the Water Research Institute's ever-increasing productivity and outreach activities through the years. By continually suggesting new and innovative ideas for funding opportunities and activities, Lee has succeeded in garnering visibility for the University. Other examples of her exemplary efforts in the past year alone: development of the Water Research Institute's statewide newsletter, *Waterlines*; organization of the Institute's 1996 educational outreach program, "Testing the Waters"; and coordination of the annual Maine Water Conference and the annual Children's Water Festival.

Department of Industrial Cooperation Director Jake Ward is involved in an endless number of initiatives that represent the University of Maine to the state, and improve the quality of our activities and services. In particular, he is dedicated to improving the private sector in Maine, and in making sure the University has good ties to it. He plays an active role in Maine manufacturing and industry groups, and in economic development in the state. Ward is a member of a number of crucial committees and boards throughout the state, and coordinates the Maine Inventors' Network. Ward's work related to science, technology and economic development involves close interaction with faculty and with units like the Margaret Chase Smith Center. He is well known and regarded by both the research and business communities that are directly affected by technological change and innovation. Ward is known for his long hours of work and travel, endless energy and inspiration.

Coordinator of UMaine's Office of Resource Conservation and Recovery Scott Wilkerson is the recipient of a Professional Employee Achievement Award. Wilkerson has distinguished himself in his efforts that reach far beyond the University of Maine campus to individuals, communities, the state and region to share his commitment to, and expertise in, resource recovery issues. He is the driving force behind the creation and implementation of the University of Maine's Resource Conservation and Recovery Program. Among his many honors statewide is a 1996 Governor's Waste Reduction Award to the University, recognizing exemplary efforts to minimize waste for a cleaner and more sustainable environment. Wilkerson heightens the awareness of people of all ages to resource conservation and recovery, and to UMaine's commitment to assisting and educating people throughout the state. ▲

People in Perspective

For the past nine years, there has been a special gathering of athletes at the University of Maine every summer. Upwards of 1,500 come from throughout Maine to compete in 12 Olympic-style events for the chance to take home medals. And every year, people across campus await their arrival, because these visitors add a special dimension to the UMaine community.

Since the Special Olympians started coming to campus in 1987, no members of the University community have looked forward to their arrival more than the Department of Public Safety staff.

"It is something that has become part of our summer," says Alan Reynolds, director of Public Safety and who has been involved in Special Olympics for more than a decade. "These kids live for this, and it's obvious when you see them. To me it has become an opportunity to get involved and see instant reward – the appreciation in their eyes."

Special Olympics at UMaine, being held this year June 7-9, has become something of a family affair, with members of the University community pitching in year after year, often going beyond the call of duty to provide a weekend of caring and support for the 1,500 athletes and their almost 1,000 coaches, parents, volunteers and friends, according to Mickey Boutilier, executive director of Maine Special Olympics since it was founded in the state in 1968.

The summer games are just some of the year-round activities Special Olympics offers to athletes with mental

retardation. In Maine, 3,300 athletes are eligible to compete in the 18 Olympic-style sports offered.

During the games at UMaine, 1,200 of the Special Olympics participants will be housed on campus. Numerous volunteer organizations in the state will join members of the University community in support activities – from sandwich-making to scorekeeping.

A special feature of the Special Olympics summer games is the torch run, initiated in the mid-'80s by the Maine Chiefs Association. Reynolds was state chair of the torch run in 1986, and since then has watched the event grow in popularity among Maine law enforcement personnel. What began as a run from Waterville to Orono has mushroomed into a ceremonial trek with 14 legs of the run involving 700 law enforcement personnel covering a total of 800 miles, culminating at UMaine for the Special Olympics opening ceremony that Friday night. An average of \$75,000 is raised annually from the torch run for Special Olympics.

A UMaine initiative that has since become an added attraction for the Special Olympians is a photo session with each of the athletes perched upon a police motorcycle. As many as 600 keepsake photos are expected to be snapped this year.

Reynolds, who once ran in the fund-raising event as well as coordinated it for years, has since passed the torch of responsibility for organizing Public Safety's role in the games to Police



Alan Stormann and Alan Reynolds

Lieutenant Alan Stormann. Stormann, has been involved in Special Olympics for the past eight years.

"Once you work with the Special Olympics, you fall in love with it," says Stormann, whose responsibilities include organizing the opening ceremony. "The determination of the Olympians is unbelievable. And Special Olympics can always use huggers."

The schedule for this year's event includes the start of some of the games Thursday and Friday. A parade will begin at 6 p.m., followed at 7 p.m. with the opening ceremony on Alumni Field. Most of the events will be held on Saturday, including a dance that night. Sunday will feature the closing ceremony. ▲



Lifelong learning is the philosophy that staff of the Continuing Education and Summer Session not only advocate but perpetuate by example. Four staff members received degrees this month, and a fifth is a doctoral candidate. They are, left to right, Barbara Howard, academic advisor for Continuing Education and Summer Session; staff associate Gina Toman (seated); Mabel Carmichael, administrative assistant II; secretary Sandi Cayford (seated); and Gaile Nicholson, assistant to the CED director. Howard, a member of the University community since 1988, has a bachelor's degree in psychology with highest distinction and highest honors, and a master's degree in human development from UMaine. In 1980, she began taking evening courses, and today is a doctoral candidate in educational leadership with a higher education focus. Howard has been a member of the CED staff since 1990. Toman, who has a master's degree in higher education administration from Syracuse University, this month received a certificate of advanced study in educational leadership with a higher education focus from UMaine. She joined the CED staff in March. Carmichael, who has worked for CED since 1979, recently graduated summa cum laude with an associate degree in liberal studies. She also earned a two-year medical secretary diploma from Husson College in 1965. Carmichael's daughter and son also are pursuing higher education. Cayford, a member of the University community for almost 30 years and a CED staff member for the last seven, began taking courses in 1974 as a first-generation college student in her family. She now has an associate degree in liberal studies from UMaine, and has two daughters enrolled at other University of Maine System campuses. Cayford will now begin work on a bachelor's degree in university studies at UMaine. Nicholson, a CED staff member since March, received a bachelor's degree in business administration with high distinction from Husson College, and is enrolled in UMaine's MBA Program.

Women in the Curriculum Program Announces Summer Grants

For the past 15 years, the Women in the Curriculum and Women's Studies Program has offered summer grants for curriculum and scholarly projects that integrate material on women into new or existing courses, and develop a learning environment that includes the history, contributions, values, aspirations and perspectives of women. More recently, grants have also been given to improve the academic climate for women, and support WIC's commitment to scholarship concerning women.

In keeping with its commitment to aid in transforming the curriculum, and as part of its contribution to making a larger institutional impact, WIC this year offered a new type of grant for major departmental initiatives involving a significant number of courses.

Associate Professors Sandra Hardy and Jane Snider, and Assistant Professor Patricia Riffin of the School of Performing Arts, are the recipients of the first of these departmental grants. The \$5,000 grant will fund a cooperative summer initiative to integrate, to a much more representative extent, a multicultural and international women's perspective into the University's theater curriculum. The three faculty members will spend the summer exploring new scripts by women that will enable them to transform a substantial portion of the theater curriculum. Special emphasis will be on courses in acting, directing, design and technical theater, as well as dramatic literature and theory.

Other 1996 WIC Summer Grants have been awarded to:

▼ Margaret Lukens, assistant professor of English, \$2,500 to develop a new course on Native American Women Writers and Storytellers that will be taught through the English Department in Spring 1997. This work will build on her participation in an NEH-funded seminar on this topic at the Newberry Library in Chicago last January.

▼ Renate Klein, instructor in human development and family studies, \$2,000 to revise two courses regularly taught in human

development and family studies—"Family Relationships" and "Violence in the Family"—in order to include more material on feminist theory and to broaden the multicultural scope by introducing theory and research done in other countries.

▼ Jennifer Craig Pixley, lecturer in English, \$2,500 to develop biographical data on Maine novelist and poet Ruth Moore by gathering documents, and by interviewing people who knew Moore. Pixley plans to share what she has gathered, both in a biographical essay and in an article, on how to use Moore's works in Maine studies, Maine literature, women's studies and Maine history courses. ▲

President's Council on Women

What will it take to "develop and sustain a multicultural and pluralistic campus community," as envisioned in UMaine's on-going process of planning and restructuring? What kinds of strategies will enable the University to realize that vision? What kinds of diversity does our community currently contain, and how does the University respond to that diversity?

The most recent comprehensive study of undergraduate education in the United States, Alexander Astin's *What Matters in College?* (1993), measures 82 student outcomes in the categories of academic and cognitive development, career development, personality and self-concept, patterns of behavior, satisfaction with the college environment, and attitudes, values, and beliefs. Among its more interesting implications for educational practice is the finding of significant gender effects on nearly two-thirds of these outcome measures.

In general, the college experience exaggerates gender differences present at matriculation. For example, men have higher SAT scores and women higher secondary school grades at the point of entry to college. Differential change during college widens that gender gap, so that men become relatively more proficient on the GRE, while women get better grades (even after control for their better high school grades) and are more likely both to complete the bachelor's degree and to graduate with honors. As Astin notes, "virtually every gender difference observed at input widens with time," including differences in self-rated emotional and psychological health, political attitudes, personality characteristics, and career plans. Similar patterns of differential change cited in Astin's study indicate that the college experience, rather than narrowing differences between members of different racial groups or of different socioeconomic classes, also serves to exacerbate differences existing at the time of college entry.

In other words, the undergraduate experience at most institutions seems to preserve and strengthen stereotypic differences in behavior, personality, aspirations, and achievement. Such differences make for one kind of "diversity," but it is a diversity linked to undesirable differences in opportunity, status, and other rewards.

Some strategists propose work to reduce the stereotypic differences. Others propose work to destroy the links with differential rewards. Both kinds of strategy deserve consideration. Both require real change in institutional structures and priorities, in educational and other programs, and in attitudes and behavior. The least promising approach, unfortunately, is the one that seems most often advocated or assumed, namely recruiting more people of a greater range of difference to join us in carrying on "business as usual."



David Shoemaker, left, and Dottie Smith, right were among seven students in the Museum Anthropology course in which they spent last semester creating a permanent exhibit on Panama for the Hudson Museum. The students, led by Cooperating Assistant Professor of Anthropology and Hudson Director Steve Whittington, center, took the exhibit from conceptualization to installation, successfully tackling a number of challenges to get ready for a June 1 opening. Special touches reflecting the ideas of the students can be found in the exhibit, including the display of applied fabric panels on a clothesline, which is the way they are sold in Panama. Students were involved in all aspects of exhibit preparation - from painting cases and cataloging artifacts, to researching for text. Photo by Kathryn Rice

UMaine Anaerobic Digester May Provide Alternative to High Utility Bills and Growing Waste Disposal Problems

Last year when two high school seniors in Brookhaven, N.Y., looked for ways to help their community find alternatives to high electric bills and waste disposal problems, they found their answers in the published research of UMaine scientists.

The young women, Elizabeth Scheps and Andrea Kurtz, proposed building a prototype bioconverter for their Long Island township, modeled after the experimental anaerobic digester at UMaine's Witter Center that has been used throughout the past decade to convert cow manure and vegetable waste to electricity. Their high school project won second prize in the 1995 NYNEX Science & Technology Awards, presented annually and supervised by the National Science Teachers Association.

NYNEX issued a request for proposals, and the UMaine Department of Bio-Resource Engineering subsequently was awarded the grant to research, develop and implement a prototype bioconverter that may demonstrate a way to alleviate the garbage and energy crises in Brookhaven.

Since January, bioresource engineering faculty and some undergraduate students have been involved in design and construction of a working digester and motor-generator. In July, the prototype will be tested and evaluated during a four-week period under the supervision of faculty and student researchers, including Scheps, now a first-year student at Stanford, and Kurtz, an environmental science major at Haverford College in Pennsylvania.

In August, the demonstration model now being built on a trailer will make the 600-mile trip from Orono to Brookhaven – operating all the while. Because it requires at least a month after start-up for such a digester to stabilize, it must be tested in Orono and remain in operation during the trip.

"This is not a research project in that there is nothing new that we are investigating," noted Huff, UMaine associate professor of bio-resource engineering. "But it has provided students an opportunity to develop, design and build a demonstration unit."

For Mark Bolduc of Millinocket, who has a bachelor's degree in mechanical engineering and is completing a bachelor's in bio-resource engineering, the bioconverter has been his full-time preoccupation since the start of the year.

"This is my first real practical experience in design and building a model incorporating all the lessons from classes I've taken," says Bolduc, who is headed for a career as an environmental licensing engineer. "It's probably the most interesting thing I've done."

Bolduc is working with project co-directors Warren Hedstrom, who wrote the grant, and Huff, who has been associated with aspects of the digester at the Witter Center since 1988. Their work springboards off the master's thesis work of Eric Wight, now a Ph.D. student in chemical engineering and who investigated the use of vegetable waste in digesters. The entire project was inspired by the published research of UMaine Associate Professor of Agricultural and Resource Economics George Criner, leader of the University's Waste Utilization Research Group whose work has analyzed the economics of using anaerobic digestion to generate electricity from manure and salad bar scraps collected from the campus dining halls.

The digester at the Witter Center has been used through the years for faculty research, data collection for use in classes, and as a demonstration model for dairy farmers. The demonstration model of a bioconverter for Brookhaven will be a scaled-down

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Gopher May be Grounded

For the past 18 months or so, Fogler Library staff have been managing the UMaine campus gopher system. In recent months usage has dropped sharply as more and more people turn to the Web as their primary Internet protocol. Hits averaged over 4,000 per week during the fall, but dropped below 2,000 in March and April. Because a single session typically involves use of several levels of the gopher menus, it is estimated that the number of users is only about 25 percent of the number of hits, or less than 500 per week. During the same period, use of the Fogler Library's Web pages has increased from 4,000 per week to 10,000 per week (probably about 2,500 users).

At the same time, fewer and fewer campus offices and departments continue to provide updated information for the campus gopher. The same is true on most of the other UMS campuses and, of course, nationwide. Numerous links have been removed because campus units have switched to the Web protocol and discontinued their gopher servers. As a result, campus information on the gopher is very spotty. There are no longer any current event listings. Course information had to be deleted because it was obsolete.

Most of the remaining use of the campus gopher is of the Internet subject guide developed by the library staff, and of general information about library policies, hours and services. About 80 percent of the connections come from the URSUS gateway and another 10 percent from the CAPS gopher.

In light of these clear trends, the library is considering closing down the gopher server between now and September in order to free up staff time for further Web development and other electronic information services. Up to now we have hesitated to do this because of the perception that many people in the University community lack the equipment or connectivity required for Web access. Before making a decision, we would appreciate feedback from faculty, staff and students, particularly if you make regular use of the campus gopher. Contact Sam Garwood (garwood@maine, x1668) with concerns or suggestions.

EMERITUS FACULTY NAMED

The following University of Maine faculty have been named emeritus faculty:

Robert Babcock, Professor Emeritus of History
Jacob Bennett, Professor Emeritus of English
Harold Brown, 4-H Specialist and Extension Educator Emeritus
Paul Camp, Professor Emeritus of Physics
William Ceckler, Professor Emeritus of Chemical Engineering
John Coupe, Professor Emeritus of Economics
Johannes Delphendahl, Professor Emeritus of Resource Economics
C. Stewart Doty, Professor Emeritus of History
Howard Forsythe Jr., Professor Emeritus of Entomology
Elizabeth Gibbs, Professor Emerita of Entomology
Vaughn Holyoke, Extension Crops Specialist Emeritus
Donald Pilcher, Professor Emeritus of Social Work
Charles Rauch Jr., Vice President Emeritus for Business and Finance
John Skehan, Associate Professor Emeritus of Education
William Valleau, Professor Emeritus of Zoology
Norman Wilkinson, Professor Emeritus of Theatre
Bernard Yvon, Professor Emeritus of Education and Child Development

The CUTTING EDGE

University of Maine Research on the Frontiers of Science

Bee Conservation

It could be a sweet relationship, and Constance Stubbs, University of Maine entomologist, would like to be the match-maker. Stubbs studies Maine's wild bees, and she is doing her research with blueberry and cranberry growers who need bees to pollinate their crops. The state's native bees pollinate crops worth millions to the state's economy. However, there aren't enough of them to meet farmers' needs.

As a result, more than 40,000 honey bee hives were brought into the state last year at a cost of more than \$1 million to ensure that crops got pollinated. "For many of our smaller growers, the cost of pollination is a large chunk of their expenses, and the cost is going up. If we can increase the number of wild bees, we can save them a lot of money," Stubbs says.

"Very little is known about the biology of Maine bees, but we do know that their populations are restricted by a lack of habitat. Insecticides have also been a problem. Our recommendation has been for growers to use insecticides as sparingly as they can," Stubbs says.

In the past three years, Stubbs and her colleagues Francis Drummond, UMaine associate professor of entomology, and Stephanie Allard, an undergraduate student, have shown that they can boost populations of a honey bee relative known as the leaf cutter bee. An article describing their work will be published in an upcoming issue of the *Maine Naturalist*.

Leaf cutter bees are good pollinators of low bush blueberries, Stubbs points out. In past years, she and her colleagues had tried the hatchery approach. They raised bees in the laboratory and placed them in the fields, but after several years and no evidence for increased bee populations, they switched tactics. They might succeed, it was thought, by building bee houses and inviting the insects to take up residence.

Leaf cutters typically nest in cavities made by other insects in trees. To mimic these natural nests, researchers drilled holes in wooden blocks and hung them in trees around the edges of three Washington County blueberry fields.

From 1993–1995, they watched the nests and estimated the numbers of leaf cutter bees in each field. Two of the three fields had increases in bee populations, but in control fields where no nests had been placed, bee numbers remained flat.

The bee housing project was not without its problems. By the third year, squatters had moved in. Wasps, spiders and other insects took over many of the leaf cutter nests. "Where the blocks are placed might be important. Perhaps we can eliminate a lot of the spiders by putting the blocks on posts instead of tree trunks," Stubbs says. "That's something we'll continue to look at."

Stubbs' latest project has been tried elsewhere but is a first for Maine. It involves three Washington County blueberry growers, Sanford Kelley of Jonesport, Bob Hammond of Harrington, Jerry Herger of Jonesboro, and a shop class taught by Herger at Mt. Desert Island High School. In April, Herger taught his students how to build nesting boxes for bumble bees, and Stubbs and UMaine students placed the boxes around fields owned by the three growers.

"No one has ever intentionally put out nests for bumble bees in Maine," Stubbs adds. "Nesting sites for bumble bees are very limited, and bumble bee queens will even fight to the death over a site."

The results of the bumble bee project won't be known for several years. Stubbs expects to see the houses occupied first by mice. The bees often move into abandoned mouse nests.

Cormorant Research

Conventional wisdom blames cormorants for gobbling up the majority of Atlantic salmon stocked in the Penobscot River every year. A three-year study by scientists of the Maine Cooperative Fish and Wildlife Research Unit (CFWRU) at the University of Maine has put new light on this problem by concluding that the birds take only a small bite, less than 8 percent of salmon smolts migrating downstream in the spring, says William Krohn, Leader of the Maine CFWRU. More significantly, researchers now have an ecological context in which cormorant predation can be more fully understood.

"At the turn of the century, there were very few cormorants nesting on the Maine coast. But with the protection of the nesting islands and the banning of DDT, the population slowly increased," says Krohn.

"In 1972, cormorants were added to Federal protection under the Migratory Bird Treaty Act. Populations continued to increase but today there are indications that the coastal breeding population may be leveling off between 22,000 to 24,000 nesting pairs. However, cormorants have established at least one nesting colony inland in Maine, and the birds have the potential for establishing breeding colonies throughout the state."

Anglers and scientists have known for years that the black, ungainly-looking birds dine on salmon smolts migrating down to the sea. To find out just how many smolts are taken, and more importantly, to understand the factors associated with this predation, Krohn worked closely with Bradley Blackwell, who now works in a post-doctoral research position at the University of Massachusetts.

"We studied the cormorant's ecology from its arrival in late April through the nesting season. Brad looked at the bird's general movement patterns, as well as the feeding habits of adult birds during early spring in the Penobscot River and the food habits of nestlings during summer in the northern portion of Penobscot Bay," says Krohn.

"The bulk of the cormorant's summer diet is small and medium sized bottom fishes, especially cunners, rock gunnels, sculpins, and wrymouths. That's their bread and butter. But when the birds first get here in the springtime, these marine fishes are apparently unavailable and the adult cormorants temporarily move into the Penobscot River to feed on anadromous fishes and resident freshwater species before moving out in Penobscot Bay where the birds nest and raise their young."

As it turns out, the salmon smolts are coming downriver shortly after the cormorants arrive. By locating and counting birds from the air, Blackwell found that dams play a significant role in salmon predation. "Four mainstem dams, although comprising less than one-half of 1 percent of the potentially available feeding habitat, accounted on average for 42 percent of the estimated number of smolts eaten by cormorants," says Krohn.

The combination of dams and stocked salmon runs sets up a smorgasbord for cormorants who arrive hungry from their southern wintering grounds. "The mainstem dams seem to affect the smolts' behavior. The smolts pool-up behind the dams, and we observe cormorants feeding on them. The smolts are washed over the dams or go through the fishways, and you have additional cormorants feeding below the dams."

"The magnitude of that predation is not something to be greatly concerned about. That 8 percent figure is biased high because it does not account for the wild smolts in the system," Krohn adds.



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Beth McKillen, assistant professor of history: "Historical Contingency and the Peace Progressives," *Diplomatic Historical*, 20:119-24 (Winter 1996).

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Kristin Langellier, professor of communication and journalism: "Responding to Ethnicity: Franco-American Studies in Maine," in Henner Barthel (Ed.), *Logon Didonai: Gespräch und Verantwortung (Festschrift für Hellmut Geissner)* (München: Ernst Reinhardt Verlag), pp. 93-100.

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Bingyi Xu, graduate research assistant, **Vijay Panchang**, associate professor, Department of Civil and Environmental Engineering, and Zeki Demirebilek, U.S. Army Waterways Experiment Station: "Exterior Reflections in Elliptic Harbor Wave Models," *Journal of Waterways, Port, Coastal, and Ocean Engineering*, pp. 118-126, No. 3 (May/June 1996).

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UMaine Extramural Awards

David Sanger of the Department of Anthropology and Institute for Quaternary Studies has been awarded \$240,000 from Bangor Hydro Electric for a project: "Archeological Research at Howland Reservoir; Beaver Site Archeology." UMaine students and staff will excavate and evaluate two archeological sites along the Piscataquis and Stillwater rivers as part of ongoing investigations being done in conjunction with relicensing of hydro-electric reservoirs. The sites contain evidence spanning more than 8,000 years of human activity.

Vern Pierce of UMaine Cooperative Extension has been awarded \$51,250 from the U.S. Department of Agriculture for a project to study the feasibility of crop insurance policies in the Northeast. The objectives of the study are 1) to investigate the feasibility of an insurance product to meet the needs of those producers who sell their products through direct marketing channels; 2) to summarize collected data and develop a comprehensive risk management educational program that will improve the competitiveness and profitability of farm manager clients.

Huilie Xue, **Fei Chal**, **Neal Pettigrew** and **Cindy Pliskaln** of the Department of Oceanography have been awarded \$157,437 from the National Oceanic and Atmospheric Administration and the Environmental Protection Agency for a project: "A Prognostic Ecosystem Model for the Gulf of Maine." The investigators, working with Daniel Campbell of EPA, will develop a model to investigate the timing, extent and impacts of severe winters and various nutrient inflows.

"The driving force of all this is the lack of funding," says Mark Anderson, associate director of the Maine Agriculture and Forestry Experiment Station. "We have had to figure out how to get through this budget time without having to sell all the cows. This is an attempt to see if we can make it work."

At the center of this effort is Jim Weber, a veterinarian and assistant professor in animal and vet science. His work with a small but internationally prominent sector of Maine's dairy industry may be a key to the future of UMaine's dairy science program.

"In the first few months after they've had a calf, they go from being relatively infertile to being fertile. I'm interested in what is preventing them from getting pregnant right away and whether we can hasten their return to fertility."

“Maine has one of the strongest embryo transfer industries of any state in the country, including dairy states. Maine’s dairy producers are having a difficult time, but there are a number of farms in Maine that have very good animals whose genetics are known worldwide.

In past years, that portion of the state's dairy industry has not had a close connection to the University. "Our herd's genetics and milk production are average for the state. It's not a premier herd."

In addition, Martin Stokes, professor of animal and veterinary sciences, and Charles Wallace, department chair, are also working on projects which may benefit Maine's dairy industry. Stokes is developing a dairy feed additive that will enable cows to get more nutrients from what they eat. Wallace also works on reproductive physiology and studies the relationship between placental hormones and milk production.

"Most dairy farmers want heifers," Weber explains. "It decreases their costs quite a bit when they don't have cows carrying bulls they can't sell."

rebuild its herd more quickly than it might otherwise. The production of more heifer calves would mean more cows producing milk when they mature. "This winter, we plan to transfer embryos into more of our heifers. If everything works, it's going to be exciting. We'll be doing a lot of work over a short period of time, and nine months later, we'll have a lot of high quality calves running around."

With the consolidation of the Rogers Farm and Witter Center, new projects for faculty collaboration are also being developed. As currently planned, they will include work on the water quality impacts of various cropping systems involving potatoes, corn and hay.

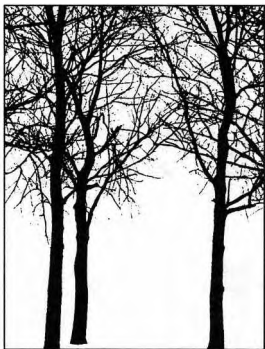
"It's an acknowledgment that there's a continuum from the plants to the animals, and when we talk about serving the needs of the industry, this will help the whole program," he says. ▲

The search for president for the University of Maine at Fort Kent has begun, with the anticipation that a recommendation will be made to the Chancellor in October.

This is an exciting opportunity to play a major role in continuing to strengthen the University, its relations with the larger community, its enrollment, and its level of cost-effectiveness.

Oral Exams

"Comparative Impact of Law and Information Policy on Access and Commercialization of Spatial Data," by Xavier Lopez, candidate for Ph.D. in spatial information science and engineering, 10 a.m., May 31, 136 Boardman Hall.



Stephen Ringle, registrar and preparator at the UMaine Museum of Art, chaired a panel presentation: "Museum Objects in Public Schools: Outreach Programs that Work," at the American Association of Museums annual convention in Minneapolis, May 3-8. Ringle detailed the Museums By Mail program, celebrating its 40th year. Three other panelists from around the country presented outreach programs run by their institutions.

The Maine Resource Recovery Association (MRRRA) presents achievement awards each year at its Annual Recycling and Solid Waste Conference to municipalities, organizations, individuals, and programs demonstrating outstanding efforts in composting, recycling and waste reduction. This year the Common Ground Fair is a recipient of an MRRRA Innovative Compost Initiative Certificate of Achievement for its recovery efforts, co-coordinated for the past five years by **Scott Wilkerson**, coordinator of UMaine's Office of Resource Conservation and Recovery. Notable efforts included organization of more than 200 volunteers to sort through 100 percent of the waste generated at the Fair by the visitors and vendors, resulting in recovery of more than 90 percent of the waste stream. More than 50,000 fair goers visit during the three-day event.

Michael Howard, associate professor, Department of Philosophy, participated in a panel: "Global Cooperativization," at the Socialist Scholars Conference, Borough of Manhattan Community College, New York City, April 12-14.

Craig Plummer, a junior from Presque Isle majoring in food science and human nutrition, was one of 10 students in the nation to receive an award from the Institute of Food Technologists. The award supports Plummer's attendance at the organization's national meeting in New Orleans June 22. Plummer is studying sensory evaluation techniques in food research with **Mary Ellen Camire**, department chair.

Bonnie Blagojevic, childcare director of The Sharing Place Childcare Center in Talmar Wood, and adjunct Instructor of human development and family studies, presented: "Internet and the Early Childhood Educator" workshops at SERESC's "All of Us Together" conference in Manchester, N.H., and the National Learning Center's Symposium '96, "Lessons from Preschool," in Washington D.C. She was a respondent to keynote speakers Lilian Katz and Deborah Meier at the symposium.

Professor **Dennis Cox**, Music, Timothy Shew (Broadway lead singer), and Lynne Rothrock (Boston choral conductor) served as choral adjudicators for the Boston Heritage Music Festival April 13 at Endicott College.

Chuck Gould, professor of construction management technology, moderated a forum on Construction Management and delivered a commentary: "Construction Management - A Science and a Business," at the Maine CONEXPO (Construction Exposition) in Augusta April 17.

April 9-12, **George Markowsky** attended the Fourth Annual Chaos in Manufacturing Conference in Santa Fe where he presented a talk: "The Mathematics of the Goal: The Glorious Bottleneck and Other Topics," and co-chaired a workshop: "Introduction to the Mathematics of Chaos." April 22, Markowsky presided over the 4th Annual Maine Software Developers Association Spring Conference, which featured DECD Commissioner Thomas McBrierty and Ethernet inventor Bob Metcalfe as keynote speakers.

Susan Russell, undergraduate student in the Department of Human Development and Family Studies, attended the 5th Annual Undergraduate Research Conference of the College of Social and Behavioral Sciences, April 13. The first student to represent the Department of Human Development and Family Studies at this conference, Russell presented a paper: "Conflict Issues in the Early Stages of Intimate Relationships," (Faculty Advisor: **Renate Klein**).

Ted Chapin, research association, and **Daniel Harrison**, associate professor, Department of Wildlife Ecology, presented a paper: "Seasonal Selection of Habitats by Resting Marten in Maine," to the 52nd Northeast Fish and Wildlife Conference, Farmington, Conn., March 31-April 3.

Alan Parks, director, Upward Bound programs, presented a workshop: "Discover What the World Wide Web Has to Offer You and Your Students!" at the twentieth annual conference of the New England Association of Educational Opportunity Program Personnel, iBurlington, April 11. He was also re-elected treasurer at the Association's annual business meeting.

Professor **John Riley**, Assistant Professor **Darrell Donahue** and master's candidate **Gulni Ozbay** attended the National Shellfish Association meeting in Baltimore, April 14-18. Ozbay presented a paper from her master's research: "Experiments to Extend the Survival of Lobsters Air-shipped to Distant Markets," co-authored by Riley. Donahue presented a paper: "The Effect of Diet on Weight Gain, Shell Hardness, and Flavor of New Shell Lobsters," co-authored by **Robert Bayer**, Food Scientist **Theresa Work** and Riley.

Assistant Professor Darrell Donahue was a visiting scientist at the Ukrainian State Food Academy in Kharkov, May 16-28. He led a delegation of three UMAINE students: **Jake Boggar**, a senior in mechanical engineering; **Andrea Perley**, a senior in bio-resource engineering; and **Mike Stevens**, a senior in art. The students spent eight weeks at different Institutes in Kharkov, Ukraine as part of a student exchange program set up by **Bohdan Slabyj**.

Ed Brazee, associate professor of education, is serving on an eight-member National Middle Level Research Agenda Task Force. Recently convened by the National Middle School Association, the task force is charged with formulating a research agenda that addresses the effectiveness of middle level curricula, policies and practices and with recommending actions for implementing the plan. Brazee, a founder and executive director of the Maine Association for Middle Level Education, is a representative on the national middle school organization's Curriculum Study Group and has served on its Publications Committee since 1990. This summer, he will direct the 12th annual Middle Level Education Institute at UMaine.

Robert Bayer, professor of animal and veterinary sciences, presented a workshop on detection of illegally bleached lobsters, for the Eastern Agents meeting of the National Marine Fisheries Service in Asheville, N.C.

Several students, former students, and staff members of the Department of Anthropology and the Institute for Quaternary Studies attended the Northeastern Anthropological Association meetings at Plymouth, N.H. A session: "Prehistoric Settlement and Subsistence on the Central Coast of Maine," was organized and chaired by **Karen Mack**, research assistant. Presenting papers in the session were: Mack; **Kristin Sobolik**, assistant professor, anthropology and quaternary studies; **David Sanger**, professor of anthropology and quaternary studies; graduate student **Robert Weber**; former grad students **Douglas Kellogg** and **Jennifer Thomas**; and undergraduate **Ann Hays-Grillo**. Also attending were students **Lee Battick**, **Heather McInnis**, and **Jeff Sommer**.

François Amar, associate professor of chemistry, gave an invited seminar: "Theoretical Studies of Cluster Structures and Dynamics" to the Department of Chemistry, Wesleyan University, Middletown, Conn., April 5.

Several members of the Zoology Department attended the Northeast Fish and Wildlife Conference, March 31-April 3, in Hartford: **John Moring**, professor, and graduate students **Andrew Madden**, and **Merry Gallagher**. Moring presented a poster paper: "The Early Culture of Atlantic Salmon in Maine, 1871-1899." Madden presented a paper, co-authored by Moring: "Effects of Invading Black Crappie on the Resident White Perch Population in a Lake of Central Maine."

Herman Weller, assistant professor of education, and **Mary Dickinson Bird**, instructor of education, presented a refereed paper: "As Teachers Pursue Nature's Questions, Do They Change Their Conceptions of Teaching Science?" at the annual convention of the National Science Teachers Association, St. Louis, March 29. Weller and Bird presented another refereed paper: "Helping Teachers to be Novice Scientists: Does it Help Them to Put their Students in the Same Position?" at the annual meeting of the National Association for Research in Science Teaching, St. Louis, April 1. **Elizabeth Postlewaite**, recent Master's student in education, and Weller, presented a refereed paper: "Practicing Teachers' Perceptions of Undergraduate Preparation for Teaching Science: A Survey of 203 Maine Teachers" at the annual meeting of the National Association for Research in Science Teaching, St. Louis, April 2.

Collegiate Restructuring *continued from page 1*

the spring and put this (part of the AFFIRM plan) behind. The Senate proceeded on an extraordinary schedule to make it possible that the campus start the fall with a clear sense of direction. It represents real understanding of the issues on the part of faculty and a willingness to solve those problems."

The Academic Affairs structure endorsed by Faculty Senate includes five colleges – College of Business, Public Policy and Health; College of Education and Human Development; College of Engineering; College of Liberal Arts & Sciences; College of Natural Sciences, Forestry and Agriculture. Reporting to the vice president for Academic Affairs and provost will be the five colleges; the Division of Lifelong Learning; vice provost offices for Research and Graduate Studies, and for Undergraduate Education; Cooperative Extension; Enrollment Management; Instructional Technologies; and Cultural Affairs and Libraries.

Such collegiate restructuring highlights the institution's commitment to a liberal arts education – and a lifelong education, according to Judith Bailey, vice president for Academic Affairs and provost. "This plan helps strengthen and further integrate our research and public service missions into our undergraduate and graduate educational mission," she says. "It also achieves administrative savings across the board."

Bailey notes that the plan supported by the faculty was built on "open and honest dialogue between faculty, staff, students and academic administration." There were times during the months of discussion when there were "distinctly competing priorities, demands and issues," and choices to be made, she says.

"The quality of the dialogue was high and well-focused in the context of the mission of the institution. The primary issue is serving students," Bailey says.

An understanding exists between Faculty Senate and the administration that Senate endorsement of collegiate restructuring does not equate to support of the entire AFFIRM document, Bailey and Townsend note. Dialogue will be taken up in the fall between Faculty Senate and the administration concerning other facets of AFFIRM that "involve issues of quality and impact particular programs," but are not subject to BOT approval, Townsend says. Among the issues will be AFFIRM proposals regarding size of faculty, the faculty:student ratio and the minimum number of classes permitted.

"Obviously there are faculty on campus who would have liked a different outcome in the collegiate restructuring plan," says Townsend. "But as a whole, faculty are satisfied with the process. Judi Bailey met during April with anyone on campus who wanted to meet, and people feel she listened. The result is many changes were made in the initial restructuring plan, and that sent the message that people were heard." ▲

AMERICAN POETRY IN THE 1950S

"American Poetry in the 1950s" is expected to draw more than 250 people from across the U.S. and Canada to the University of Maine for a conference June 19-23, sponsored by the National Poetry Foundation.

"The purpose of the conference is to try and look at the whole range of poetry from the '50s and get some sense of the relationship between the movements," according to Burton Hatlen, professor of English and conference organizer.

Some of the poets from that era, including Ed Dorn, Ruth Stone, Jerome Rothenberg, Louis Simpson, Samuel Menashe and Theodore Enslin, will participate in the conference. In addition, a number of literary critics, including Marjorie Perloff, M.L. Rosenthal, Robert von Hallberg, Albert Gelpi and Rachel Blau DuPlessis, will be featured as speakers.

Darling Center *continued from page 2*

funding in 1992 to construct a waterfront dive and field staging building, to remodel lab and office space for visiting investigators, and to purchase two portable cabins for housing researchers.

Such a record of NSF funding confirms what Darling Center Director Kevin Eckelbarger knew from the time he joined the research station five years ago. "The Center has tremendous untapped potential," he says. "When I go to the federal government and compete with other labs for external funding, it's clear that outside reviewers recognize the success of this lab, and the productivity of faculty and visiting scientists driving all this. They look at our record of funding and publication rates, and see us as successful."

The growth of the Darling Center has been increasing since 1991. Today almost 50 UMaine faculty, graduate students and staff consider the Center a homebase for their work. More than 24 research projects are in progress at any given time, ranging from studies of global warming and beach erosion to geological and maritime history of New England, and the productivity of local estuaries to the causes of fisheries decline in the Gulf.

In addition, one of the catalysts for the Center's growth has been the Visiting Investigator Program, initiated in 1991 and which has since become one of the largest of any university marine laboratory on the East Coast. Not only has the Visiting Investigator Program brought a surge of international researchers to the Center, but has provided valuable information for planning future facility improvements based on the evaluations and needs of these international researchers.

Last year, the Center attracted more than 100 scientists from 85 universities in 32 states and nine countries. While most conduct research in the Gulf of Maine waters in the summer months, other scientists like those from Denmark and Germany arrive in the less- hectic visitor months of September and October. This year, early indications are that the Visiting Investigator Program will be equally successful.

"Three years ago, we were not filling all our research space until May or June," Eckelbarger says. This year, we were booked in February and have turned to renting houses in the community for visiting researchers. Last year we had 23 undergraduate interns for the summer; this year, there will be 34."

To address the major issue of housing at the Center, a feasibility study is being developed and conceptual planning will begin to consider construction of a dormitory through private fund-raising efforts. In the meantime, Eckelbarger continues to spearhead efforts to attract "new business" on a year-round basis.

A new program designed to attract out-of-state college classes has brought faculty and students from such states as Nebraska to the Center where the higher education institutions can offer marine courses using University of Maine facilities and equipment. An array of courses continue to be offered at and/or through the Center, including a program for high school teachers offered in cooperation with Sea Grant, workshops for faculty, and graduate and undergraduate courses. In addition, a series of courses are being proposed through the new School of Marine Sciences that would allow UMaine students to study marine sciences both in Maine, Florida and the Bahamas through a cooperative agreement being explored between the University with a Florida-based oceanographic institution.

More than ever, the Darling Center is being used as a site for educational conferences and retreats. Next month, an international conference on the effects of bottom trawling on marine ecology will bring scientists from around the world. International media are expected to be on hand to learn of some of the latest findings concerning the impact of humans on the ocean. ▲



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

FOR SALE

AUTOMOBILE: 1988 Chevy Sprint. A reliable commuting vehicle, 45-50 mpg, new brakes and muffler, inspected, high mileage but have all maintenance records. \$900. Call 234-2499.

AUTOMOBILE: For sale by U.S. Government Sealed bid. 1987 Chevrolet Suburban, 104k, good tires, 4X4. No windows, no mirrors, some body damage, interior water damage. Submit bid in sealed envelope marked "VEHICLE" to 313 Murray Hall. Deadline: June 10. For information, call 581-2579 or 581-2582.

BEDS: One Broyhill, Sugar Cove canopy bed with box spring and mattress. Excellent condition. \$400/set. Two bunk bed camp sets with mattresses (4). \$200/both sets. Call 843-5122 and leave message if interested.

BICYCLE: Huffy exercise cycle with adjustable tension, timer, and speedometer and odometer. Good, heavy-duty bike. Has padded gel seat cover. \$35. Call 866-0608 eves/weekends.

FURNACE: Miller. 100,000 BTUH oil furnace on cottage base. Has burned less than 800 gallons of oil. Currently hooked up so you can see it operate. Comes complete with a 275 gallon fuel tank, fuel line, filters, etc. \$800. Call 234-2499.

GUITAR: Martin M-38, steel string, solid rosewood, top-of-the-line Martin, excellent condition, w/hardshell case. Call evenings and weekends, 223-5043.

HOUSE: Hampden Ranch home with 3 BRs and 1 3/4 baths on a large, open (100 ft wide x 358 ft deep), private double city lot. Attached one-car garage; large, open dining and living room w/fireplace, hardwood floors throughout. Completely remodeled kitchen and bath w/new added breezeway. New features include vinyl siding, Anderson windows, furnace and Shawnee front steps. Very well maintained home with finished basement. Asking \$122,500. For appointment or more information, call 862-2610.

HOUSE: Beautifully renovated saltbox with in-law apartment. Spectacular view of the Stillwater River. 2 large secluded lots w/2-car detached garage and barn. Wood floors throughout, 2 fireplaces, deck and sunroom. \$192,000. Open house May 18-19, 2-4 p.m., 5 Free St. Call 827-7685.

HOUSE: Four BRs, 2 baths with large living, recreation and family rooms, kitchen with built-ins and all conveniences, finished laundry and office/computer rooms. Fireplace, hardwood floors, attached garage and porch. Baseboard hot water heat. Municipal water and sewer. New paint inside and out. Custom-built for current owner with many attractive features. Superb location within easy walking distance to schools, downtown, Stillwater River and Orono Land Trust. No brokers or buying agents. Call 866-2656, eves for more info.

HOUSE: Faculty member relocating to New Orleans. This attractively remodeled home is located at 388 College Ave., a 2-minute walk from campus. Many hardwood floors, fireplace, and 3 BRs on first level. Potential exists for supplemental income from a basement BR and bathroom, with a separate entrance. Contact Scott, 866-3677/sthomas@acadia.net, for appointment. Asking \$105,000.

HOUSE: Five-year-old Orono house 6 miles from UMaine, 1 mile from Bangor. 4 wooded acres. Tri-level with red cedar siding. 7 rooms and 2 full baths, oak cabinet kitchen, living room with raised heart granite fireplace, DR to a deck. 3 BRs with master BR, a private full bath. Large family room. Heated 2-car garage. On Outer Essex Street. Call for a showing, 942-2945. Priced at \$122,900.

KNITTING MACHINE. Studio 860 mid-gauge, two-color, upgradeable to electronic. Includes stand, books, videos, intarsia carriage. Also PC software for designing. Asking \$750 or BO. Call evenings 989-1071.

FOR RENT

APARTMENT: Charming Cape Cod, 2BRs, study, LR, kitchen with appliances and full bath. Carpeted throughout except for kitchen and bathroom. Convenient, off Stillwater Ave. Clean, quiet, bright and sunny rooms with large closets. Large backyard and off-street parking. Heated, W/S, parking, plowing and mowing included. \$495/month, references and security. No pets. Non-smoker preferred. Mature professional student or couple. Call after 6 p.m., 941-6442.

APARTMENT: Marco Island, Fla. Balcony overlooking pool and Gulf sunsets. 3-minute walk to Gulf beach—great shelling! Two BRs, two baths, fully appointed, nicely furnished. Now through October. \$500/week. \$1,200/month. Call 799-1401.

APARTMENTS: Bradley. Large, well-maintained 1-BR apartments in quiet country setting approx. 7 miles to Old Town/Orono. Rents start at \$300/month plus utilities. Applicant must meet certain income guidelines. 30-day lease and security deposit required. Call 827-7998 after 5 p.m.

COTTAGE: Sebago Lake. Quiet, restful and scenic. 3 BRs, LR, wood stove, eat-in kitchen, porch overlooking lake to see sunrise. Deck for late afternoon sun. Cozy, old-fashion Maine cottage. \$500/week. Pre-/post-season weekend rate available. 799-1401.

SUMMER CAMP: July 4 - 11. Located on Johnson's Bay in Lubec. 3 BR home with fenced yard. Beach. Perfect for kids. Campobello, state parks nearby. \$350. Call 990-5892 after 5 p.m.

TOWNHOUSE: Orono, 15-minute walk to UMaine. LR w/sliding glass doors to deck, appliances kitchen w/dishwasher and disposal, 1/2 bath on first floor. Large master BR, twin size BR and full bath on second floor. Full basement with W/D hook-ups. Lots of closet and storage space. Very inexpensive Monitor heating system. Parking for two cars. For lease at \$650/month + utilities. Or, for sale—price upon request. Call 799-1401.

WANTED

HOUSE: Faculty member and family seeking to rent a house in Orono. 581-8328 for more information, or send email to weathers@maine.maine.edu.

SUMMER SUBLET: Need a summer sublet for visiting faculty member and dogs. Contact Bob Bayer, 581-2785

SERVICES

LAWNMOWING: High school student looking for some new customers in the Old Town/Orono area. If you are interested in reasonable rates, call Don Parsons, the Lawn Barber, 827-5431 and leave message.

SURPLUS SALE: The University of Maine offers for sale, on an as-is where-is basis, the following: (1) ZENITH ZW-248 286 COMPUTER, \$75; (2) MAC LC COMPUTERS, 40 MB hard drive, 6 MB RAM, color Seiko monitor, network card, \$400 each; (40) COMPUTER CHAIRS, good condition, blue cloth fabric, casters, adjustable back & height, \$35 each; (2) POWER STAGINGS, electric motor, 16' and 24' stage beds, BEST OFFER; (1) ROLLTOP COMPUTER WORKSTATION, top locks, listed at \$450 on p.103 of Transco Showroom Catalog, \$175; (1) CAMCORDER BATTERY, new-never used, rechargeable, for JVC, Panasonic or other grip type, \$45. NOTE: For more current updates see Maine.forsale on NETNEWS under "UNIVERSITY SURPLUS." If you need help call me. 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.

World Wide Web Watching

National Center for Student Aspirations:

<http://www.ume.maine.edu/~cofed/ncsa/welcome.html>

Research is conducted here focusing on raising student aspirations. Discover the services provided and the staff involved by visiting this site.

Department of Political Science: <http://www.ume.maine.edu/~polisci/>

In addition to undergraduate program information, scholarship information, special opportunities and political science internet resources are found here.

Off Campus Board: <http://infemo.umeres.maine.edu/org/ocb/ocb.html>

The force behind Bumstock! Listen to clips from last year's bands, order the CD, or offer to help on this year's festivities.

Computing and Instructional Technology (CIT):

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

The Help Center, ConnectME and the public clusters are all under the domain of CIT. Visit their site for more information.

Department of Biochemistry, Microbiology and Molecular Biology

<http://icarus.umesci.maine.edu/micro.html>

Undergraduate and graduate programs along with faculty bios are the resources listed in the BMMB pages.

Association for Computing Machinery Student Chapter:

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

ACM student chapter officers, undergraduate, graduate and alumni homepages are here. Faculty and student projects within the department are also listed.

Maine Center for the Arts: <http://www.ume.maine.edu/~mca/>

A performance schedule, seating chart and ticket information allow you to choose the seat of the house!

University of Maine Press *continued from page 2*

The seeds for the publishing partnership were planted shortly after Alpert joined the University as director of the University of Maine Press. When Jim Bishop, assistant director for academic programs for the Franco-American Center, talked about the possibility of establishing such a book series, Alpert says he thought it was an excellent idea.

"I grew up in Bangor, but my father's wholesale business was in Old Town," says Alpert. "From the time I was a child, I was aware of the large French-speaking community in Old Town in the 1950s. I was conscious of the significance of the concerns of that community."

Editions Réveil will be a series highlighting original writing and scholarship by and/or about Franco-Americans. Books in the series will be "accessible" to general readers, and will be available in retail bookstores. Approving manuscripts will be a joint responsibility of University of Maine Press and Franco-American Center representatives.

"The series will fill an obvious void in the literature in North America," Alpert says. "To my knowledge, there is no series like this anywhere else. There has been a neglect of Franco-American literature and scholarship. The University of Maine is the most appropriate place for this kind of series with the large population of Francos in the state and the Franco-American Center in existence. The University is already a center. This series will enable the University and state to realize the possibility of recognizing all the people they serve."

"The University has been active in this area of Franco publishing," he says. "The series reaffirms what was started."

Through the years, the Press has published other books examining the Franco-American experience, including *Acadian Hard Times: The Farm Security Administration in Maine's St. John Valley, 1940-1943*, by History Professor Emeritus C. Stewart Doty; *The First Franco Americans: New England Life Histories from the Federal Writers' Project, 1938-1939*, which Doty edited; and *Immigrant Odyssey: A French-Canadian Habitant in New England*, by Felix Albert.

The volumes are in keeping with the focus of the Press in publishing books reflecting the Maine region, including New England and the Maritimes. While most of the works published have been scholarly books – a factor that distinguishes such an academic press from a popular press – some original creative writing has been accepted.

Leading the University of Maine Press is its Board of Directors, comprised of internationally recognized author and UMaine alumna Tabitha King, Bangor book dealer Marc Berlin, lawyer Susan Kominsky, *Downeast Magazine* publisher and University alumnus Allen Fernald, and University community members Charles Tarr, Burt Hatlen, Bruce Sidell and Nancy MacKnight.

Editions Réveil is a model for what Alpert hopes will be even more collaborative groupings of books by the Press and academic areas at the University. It is an initiative that would not only increase the visibility of the Press but further tie its efforts into the teaching mission of the institution, Alpert says.

"I want the Press to be, in formal or informal ways, publishing groups of books that relate to each other – publishing important books in a context," Alpert says. "We hope to publish books that tie into the curriculum of the University – books of science as well as the humanities that are not watered down and, at the same time, not so specialized as to limit reader accessibility."

"In addition, I'd like the Press in upcoming years to offer short-term apprenticeships to students interested in publishing. And we're hoping to tap even more faculty as expert readers."

Since Alpert joined the UMaine Press as its director in April 1995, he has spent much of his time establishing its foundation – getting a reliable structure of readers and outside evaluators in place for dealing with submitted manuscripts, and setting up prepress facilities in the Press's offices on the third floor of Corbett Hall.

But it also has been a busy publishing year for the Press, including arranging for the third reprinting of the extremely successful *Acadian Hard Times*. Also being republished is Frank Speck's *Penobscot Man*, complete with previously unpublished photos from the '20s and '30s. *Penobscot Man* was first published in 1940 by the University of Pennsylvania Press. *Discovering Elizabethan London* by Arline Thomson is now in the hands of a British distributor.

Coming out this fall will be the *Guide to Maine Children's Literature* by Lynn Plourde and Paul Knowles; a biography of the late Sen. Margaret Chase Smith by Patricia Schmidt – a volume that has been a decade in the making; *Recollections of General Ellis Spear* by the General; *The Emergence of an Essayist* by Robert Root, a booklength study of E.B. White; and the sequel to the successful *Dear Friend, Anna: Letters of a Civil War Common Soldier*. ▲

Anaerobic Digester *continued from page 8*

version of the Witter Center digester – large enough to serve two to 10 households. Indeed, the smaller size has required design changes that have proved challenging.

The digester will contain 150 gallons of liquid and will produce enough biogas daily – approximately 20-80 cubic feet – to run a small engine-generator for up to two hours. But unlike the large digester at the farm where the gas is burned in the engine as it is produced, the smaller bioconverter requires storage of the gas until there is enough to power an engine – approximately 22 hours worth of gas. In addition, without waste heat from a large, water-cooled engine to keep the digester at an even 95 degrees F, the prototype will incorporate a propane water heater to supply the warmth that is critical to bacteria survival in the anaerobic digestion process.

The model for Brookhaven is using manure for start-up, which has a rich supply of bacteria. It later will be converted to vegetable waste to the point that every day, seven to 10 gallons of ground scraps of fruits, vegetables and breads will be fed into the digester. The generator is expected to be able to generate enough power for ten 75-watt lights for about an hour.

"This is important technology as a possible means of taking care of vegetable waste – a waste utilization solution to a problem nationwide," says Hedstrom. "Digesters are not new. We began working with methane digesters here at UMaine in the mid-1970s. But we know much more about anaerobic digestion than ever before, and more digesters are used to convert animal waste to energy. Now we're taking the process a step further by using the methane produced to run an engine, that in turn runs a generator." ▲

A REMINDER

Maine Perspective will be published the last Monday of every month through August. Deadlines for the summer issues are mid-month. For information, call *Maine Perspective*, x3745.



American Philosophical Society's General Research Grants provide for research expenses in all areas of scholarship except those in which support by government or corporations is more appropriate and regularly available. Maximum award: \$5,000 (\$4,000 for full professors). Deadlines: July 1, Nov. 1.

Robert Wood Johnson Foundation supports research and evaluation that produce policy-relevant information about ways to reduce harm caused by the use of tobacco, alcohol, and illegal drugs in the US. Projects requesting \$100,000 or more must submit preliminary proposals by July 15; projects requesting less than \$100,000 may apply at any time and are reviewed as received.

U.S. Department of Defense invites proposals for research and research training in basic, clinical, epidemiologic, public health, social, and behavioral sciences to improve the prevention, diagnosis, and treatment of breast cancer, and to enhance the quality of life for persons with the disease. DOD's Breast Cancer Research Program and its award categories have been significantly revised since the last competition. Deadline: July 17.

National Science Foundation has revised two equipment grant programs and established new deadline dates: Multi-User Biological

Equipment and Instrumentation Resources (July 29) and Instrument Development for Biological Research (Aug. 26).

Office of Naval Research, National Science Foundation, National Oceanic and Atmospheric Administration, and U.S. Geological Survey jointly invite proposals for basic research on processes in the Arctic Ocean, to be conducted utilizing a Navy nuclear submarine as a research support platform. Interests include air-ice-ocean interaction, ocean circulation, ocean biology and chemistry, ice-acoustic interaction, ice-electromagnetic interaction, and marine geology and geophysics. Deadline: Aug. 1.

U.S. Department of Energy solicits proposals for applied research and development of technologies applicable to environmental restoration and waste management. Improvements are desired in sub-surface containment; mixed waste characterization, treatment, and disposal; tank waste remediation; decontamination and decommissioning; characterization, monitoring, and sensor technology; efficient separations and processing; and robotics technology.

International Foundation of Employee Benefit Plans makes grants of up to \$10,000 in aid of research on issues having legal, economic, social, or political consequences for the employee benefits field in the U.S. or Canada. Projects may address multi-employer, single employer, or public sector concerns.

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

MEMORIAL UNION BUILDING HOURS - Summer Session

Building: Monday-Sunday, 7 a.m.-9 p.m.

Bookstore: Monday-Friday, 8 a.m.-4:30 p.m.

June 1, 10 a.m.-4 p.m.

June 3-4, 8 a.m.-6 p.m.

Closed weekends and July 4.

Computer Cluster: Monday-Friday, 8 a.m.-9 p.m.; Weekends: 10 a.m.-9 p.m.; Closed July 4.

Food Service:

Damn Yankee/Taco Bell, through Aug. 17, 10 a.m.-6 p.m. daily.

Bear's Den, 7 a.m.-1:30 p.m. daily.

Coffee Shop closed.

Maine Bound: Monday, Tuesday, Thursday, 10 a.m.-4 p.m.; Friday, 10 a.m.-6 p.m. Closed Wednesdays and weekends.

Newscounter: Monday-Friday, 7:30 a.m.-4 p.m.; Closed weekends, July 4 and June 28.

Professional Offices: Weekdays, 8 a.m.-4:30 p.m.; Closed weekends, July 4.

Credit Union Branch Office: Closed.

FULBRIGHT AWARDS

Information for 1997-98 for faculty and professionals is now available from the Council for International Exchange of Scholars (CIES), telephone 202-686-7866, or e-mail lia2@ciesnet.cies.org. Deadlines are Aug. 1 for lecturing and research awards; or Nov. 1 for special programs in Germany, Japan, and Korea. Call the Office of International Programs for further information.

SENIOR ALUMNI SCHOLARSHIPS PRESENTED

The Commuter Services Office, working in collaboration with the Senior Alumni (University graduates of 50 or more years), is pleased to announce the recipients of this year's Senior Alumni Scholarships. Thirty \$1,000 scholarships are given usually for two concurrent years.

Those selected were: Michelle Alexander, Jessie Beardsley, Belinda Brewer, Carol Broaddus, Deborah Cottrell, Michael Cowing, Michelle Cutrufello, Wesley Ellis, Maureen Gormley, Jodi Holmes, Vicky Hunter, Aaron King, Paul Kingsbury, William Moss Sr., Robin Paulos, Susan Perrow, George Theriault Jr., Donnalee Wathne, and William Whittaker.

Also selected were: Boyd Brown III, Elizabeth Chamberlain, Kim Doughty, Catherine Foxson, Louine Gordon, Patricia Henner, Suzette Labbe, Thomas LeVasseur, Harris Prahm, Julie Smith, and Susan Williams.

A recognition celebration was held April 14 at Wells Conference Center. Recipients with their families and friends were greeted by the Senior Alumni and the staff of the Commuter Services Office. President Hutchinson was the featured speaker.

What's Ahead



REUNION '96

May 31-June 2

**MAINE MUSEUM DAY
ON CAMPUS**

June 8

POETS OF THE '50S

June 19-23

Maine Perspective

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