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CURRENTS

University of Southern Maine

Volume 17, Number 2

October 1998

What Question 1 Means to USM

By Brian Hodgkin

Dean, School of Applied Science

An unprecedented opportunity faces Maine voters on November 3 — a \$20 million bond issue to improve the Maine economy by supporting research and development.

If passed, the bond will provide \$13.5 million to the University of Maine System, of which USM will receive \$2.7 million. This has never happened before. Fortunately, we are prepared to respond to the opportunity.

USM has long been recruiting scientists and engineers with the expectation that they would be productive scholars as well as teachers. Although faculty do engage in research, the infrastructure here has been inadequate, keeping them from accomplishing what they are capable of. The bond money will enhance the infrastructure by providing laboratories and equipment.

In order to jump start faculty research programs, the Legislature has appropriated \$4 million for R&D, with the possibility of additional appropriations to provide for equipment, computers, technicians, library, a grants manager, and money to be used when matching funds are needed for externally funded research. USM received \$800,000 of this one-time appropriation. If the bond issue passes and R&D appropriations continue, USM truly will enter a new era of growth in science and technology.

Bond money is restricted to be used for R&D in areas which have been identified as tied to the economic development of the state: biotechnology, computer and other information technology, aquaculture and marine technology, forestry and agriculture, and advanced materials. At USM, the bond would support faculty in biotechnology, computers and

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Students work in a microbiology lab at Lewiston-Auburn College. L-A College celebrates its 10th anniversary on the afternoon of Sunday, October 25. Members of the university community, alumni and friends of the college are invited to the event-filled gala, which includes food, art exhibit, music, poetry readings, faculty and student demonstrations, and story telling, from 12:30 to 3 p.m., followed by a ceremony from 3 to 4 p.m. with Governor King, public and university officials. For more information, call 753-6500. *Barrett photo*

LAC Celebrates 10 Years of Success

It's been 10 years since USM opened the doors of the Lewiston-Auburn College in a building that had housed tennis courts. Since then, the list of academic programs offered there has expanded from the first degree program, the baccalaureate program in management and organizational studies, now known as leadership and organizational studies, to three other undergraduate degree programs and a master's in occupational therapy. In addition, several baccalaureate and two graduate programs are extended to LAC from the USM campus.

The first two faculty members Marvin Druker, associate professor of public affairs, and Betty Robinson, associate professor of management and

organizational studies, have been joined by 15 other full-time faculty and a number of adjunct professors.

L-A College will celebrate 10 years of achievements from 12:30 to 4 p.m. on Sunday, October 25 with exhibitions, music and stories of transformation from students and alumni. There will be generous offerings of food, music and art, plus presentations by faculty.

Governor King, Congressman John Baldacci, Mayors Lee Young of Auburn and Kaleigh Tara of Lewiston, who is also a LAC alumna, will take part in the ceremony, along with Chancellor Terry MacTaggart, UMA President Owen Cargol and USM President Richard Pattenaude.

Betty Robinson, who became dean in 1996, following tenures by Harlan Philippi and Helen Greenwood, says that enrollment has reached about

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Larrey Homan, left, Michael Kapise and James King, all of the grounds crew for the Portland campus, which was one of two departments within USM's Facilities Management that received the annual award presented by the USM Occupational Safety and Health Office in recognition of their efforts to create an outstanding safe work environment during the 1997-98 year. The other recipient of the award was the DFM Trades Department in Gorham. DFM also was recognized in August by Employment Trust as a worksite that supported training and hiring of persons with disabilities. DFM was commended for employing 40 individuals who might otherwise have faced barriers to employment. *Barrett photo*

Helping First Year Students at USM

"Strengthening the quality of undergraduate experience and enhancing enrollment is of prime importance to USM now," President Pattenau said at the third USM Conference on Student Success and Retention. The conference, Friday October 2, focused on "Enhancing the First-Year Experience" and featured the national expert on the subject, John N. Gardner of the University of South Carolina.

"We need to think more about what it means to enter this academic community," Pattenau said. "We need a coherent, thoughtful, integrated approach for a first year for all our students, one with a unifying intellectual vision." He introduced Gardner as the national spokesperson on first year experience. Gardner, who was identified by *Change* magazine according to Pattenau, as one of 11 who "set the agenda in higher education," previously visited USM in 1980 at the invitation of George Connick.

Gardner is executive director of

University 101, the nationally acclaimed and replicated freshman seminar program at the University of South Carolina, and the university's National Resource Center for the Freshman Year Experience and Students in Transition. Gardner specializes in retention of students and enhancing student success. He is the author of books and articles on this topic, including "Your College Experience," "The Freshman Year Experience," and "The Senior Year Experience."

"The level of attrition [among college students] is unacceptable," Gardner said. He stressed the importance of integrating students into the university community during their first years. Helping students develop social relationships that reinforce the academic experience is a special challenge for commuter universities, he said. We have to increase the amount of time students spend on campus in a variety of pursuits.

Furthermore, there is clear evidence, he said, reported steadily since 1980, that students who talk to faculty outside of class stay in school through graduation.

Students today watch even more

television than past generations, which means, he said, that they have developed the role of passive recipients of information. Students have to be more actively engaged in thinking, but the traditional pedagogy of the lecture reinforces passive learning. "We need to focus on things we can control and change," he said. "We can't change the condition of students" as they come to the university, so we must change our approach to them, he emphasized.

A key and widespread problem, he observed, is relegating development of students' core skills, writing, math, and understanding of our civilization, to part-time instructors in huge, survey courses.

Another challenge, he said, is pushing students who need help to use resources their university supplies, such as workshops on study skills or emotional counseling services. Among issues related to student dropout that Gardner discussed were credit card debt, which creates anxiety as well as financial crisis, and binge drinking.

Gardner also said that first-generation college students may bring negative family attitudes about education and about work that interfere with their integration into the academic culture and adoption of good study habits. Creating study teams and discussion groups among students offsets attitudes of disengagement. Symptoms of the kind of disengagement from academic life that correlates highly with lack of persistence include boredom in class and cutting class. Predictors of success Gardner highlighted were participation in learning communities and engaging in service learning, such as service-oriented internships, and community service.

For copies of reading materials prepared by Gardner, contact John Bay at the Center for Teaching at 780-4470.

Another initiative at USM aimed at student retention has been announced by the Division of Enrollment Management recently. Susan Campbell, director of advising services, Beth Dostie, associate director, and Colleen White, coordinator of advising support systems and veterans affairs, have received notice of a one year grant they have won for research into student persistence and success. The grant, funded by the National Academic Advising Association, will use qualitative methods to gather data on USM students and apply it to development of advisor training and evaluation programs.



Organist Ray Cornils and harpist Jara Goodrich teamed up for the first concert in the USM Faculty Concert Series of this season. *Barrett photo*

1998-1999 Faculty Concert Series

by Brooke Williams

Jara Goodrich of the USM music faculty and Ray Cornils, municipal organist for Portland, performed the first concert in this year's USM Faculty Concert Series on October 9. This concert series includes six performances and has received sponsorship from businesses in the Greater Portland area. For the opening concert, harpist Goodrich and organist Cornils performed solo pieces as well as duets by Bach, Handel and Faure' that featured the newly restored Eric H.L. Sexton/Howard Davis Pipe Organ. The organ was donated to USM by Sexton's widow Beryl Sexton and restored with funds from the Davis Family Foundation in memory of two men with a keen interest in organs. This concert was sponsored by Gorham Savings Bank.

On October 25, Robert Russell will conduct the Choral Art Camerata. Renaissance motets, madrigals and classic 20th century pieces will be featured. This concert is sponsored by Keybank.

Aramark will sponsor the Nordica Trio concert on November 20. USM faculty violinist Graybert Beacham, clarinetist Karen Beacham, and pianist Yuri Funahashi will perform works by Haydn, Bartok, Milhaud and Alexander Aritunian.

Mark and Elizabeth Manduca will perform on trombone and piano works by Muller, Vaughan-Williams, Barat,

Peaslee, Ewazen and de Luca on January 25.

Judy and Jeff Kane will sponsor Ardith Keef and friends on February 5 in a collaborative concert featuring works on the bassoon.

The March 5 performance by guitarist Keith Crook contains a mix of music from Renaissance to Flamenco. This concert is sponsored by Filene's.

Performances are held on Fridays at 8 p.m., with the exception of the Sunday, October 25 concert, which is at 3 p.m., in Corthell Concert Hall on the Gorham Campus. Tickets are \$9 for the public, \$7 for seniors, USM faculty and staff, and \$5 for students. For tickets, call 780-5555.

USM MUSIC Sponsors of the 1998-1999 Faculty Concert Series

Gorham Savings Bank
Keybank
Aramark
Judy and Jeff Kane
Filene's

Lending a Hand

The 1998 Combined Charitable Appeal offers faculty and staff an opportunity to support hundreds of health and human service organizations.

The '98 appeal provides opportunities to give to the United Way of Greater Portland, MaineShare, Earth Share and other charitable federations which oversee a combined total of some 200 individual agencies. Donations can be made to one or more of the participating federations. You may also designate your contribution to one or more of the individual agencies within the federations. Those agencies address a range of needs in the environment, health care, human rights, and social services. "There are many ways for each of us to contribute to our communities," said USM President Richard Pattenau in an open letter to the campus. "I believe you will find an agency that serves your personal convictions and priorities for giving."

The '98 contributors' guide describes each of the federations and the associated agencies. The campaign will be running through early November. If you have any questions, please contact Larry Waxler at 780-4413.

R&D

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information technology, and materials.

In biotechnology, three small research laboratories and a teaching laboratory have just been completed in the Science Building on the Portland campus through a Department of Energy/Maine Science and Technology Foundation contract requiring matching funds. Two new faculty, Monroe Duboise and Stephen Pelsue, have joined the Applied Immunology program. In the third laboratory, Thomas Knight, associate professor of biological sciences, pursues research on plants. Bond money will provide for additional renovations, including a dark room, cold room and a high-level biosafety laboratory.

The computer science and engineering faculty have formed a forward-looking information processing systems group, representing expertise in advanced human-computer interfaces and expert systems, robotics, and biomedical signal and image processing. Bond money will be used to renovate and equip laboratories to support these activities.

Renovations of the microelectronics laboratory will enable Mustafa Guvench, professor of electrical engineering, to expand his semiconductor research.

The bond money will provide infrastructure to enable competent faculty to do important research. Beyond the actual facilities, the bond will signal that the state and the university are making investments in the future. The science faculty are already excited about the possibilities, but the benefits extend beyond the faculty who are directly affected.

For the first time, USM is at the table as funding of state monies for science and technology R&D are determined. With the support of Maine voters, we are poised to participate as teachers, scholars, and researchers in a vital and productive research and development community in Maine.



Jim Daniels, new sexual assault officer at USM.
Barrett photo

Sexual Assault Officer Hired

Campuses across the country are experiencing an increase in the number of sexual assault cases reported to campus police, counselors and student health professionals. At USM, a new position has been created within the campus police department to focus on this problem. Jim Daniels, a 20-year veteran of the Portland Police Department, has been hired to work with victims on investigating alleged crimes as well as reduce the number of such incidents through education.

The new permanent position of sexual assault program manager is funded for the first year by a grant from the Maine Justice Assistance Council as a result of a proposal written by Lisa Beecher. Beecher came to USM as director of USM's Police Department in January and immediately began to explore ways to develop a sexual assault program at the university.

"This is part of our efforts to be more proactive in working with women and men on sexual assault awareness. I wanted to expand the university's response and better serve the community by creating a position that would primarily focus on education and prevention," Beecher said. "But I also wanted someone trained as an investigator with a work history in this area. I looked for the best qualified candidate I could find," Beecher said.

Daniels joined the Portland Police Department in 1976 and worked as a detective there from 1981, specializing

in homicide and sexual assault investigation, including some high profile cases. He received a number of merit commendations, including one for the arrest and conviction of a serial rapist in 1995. He also received the 1995 Maine Law Officer of the Year award from the American Legion, the Portland Officer of the Year for 1995 and 1997, and the 1995 Community Service Award from the Sexual Assault Response Services of Southern Maine.

Daniels also has been a law enforcement trainer for the Portland P.D. and the Maine Criminal Justice Academy and trains volunteers at the Sexual Assault Response Services of Southern Maine (formerly the Rape Crisis Center). He has served on the board of the Family Crisis Shelter, too.

Daniels graduated from USM summa cum laude in 1996 and also attended the Maine Criminal Justice Academy and took courses at the FBI.

Beecher, who had known and worked with Daniels during her career in the Portland P.D., said she was impressed by Daniels' years of experience and the testimonials he had received from victims and their families, from women's advocates in the community and his peers at the Portland Police. A reference from the Cumberland County D.A.'s office noted that "exceptional work" was Daniels' norm and praised him for his good judgment and sensitivity to victims.

As sexual assault program manager, Daniels will develop educational programs for students, faculty and staff. He will meet with small groups to address concerns and heighten awareness on high risk behavior and potentially dangerous situations. He will also be available to faculty in programs such as nursing, criminology and sociology for classroom presentations. International students will also receive educational presentations on sexual assault as part of their orientation program.

Another key part of Daniels' responsibilities will be to work with the Gorham Police Department in developing collaborative training and a team approach on sexual assault response. He will also begin revamping policies and protocols relating to the reporting of sexual assaults.

"We are very pleased to have an officer of this caliber added to our campus safety system," said Judy Ryan, vice president of student development. "I believe this program will be a model for other universities."

LA College

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1000 students this fall. Looking ahead, the next challenge as enrollment continues to climb, Robinson says, is to renovate the remaining portion of the facility.

Highlights of the past 10 years include: in 1989, adding the social and behavioral sciences program and extending a baccalaureate degree in nursing from USM's College of Nursing; in 1990, extending the industrial technology degree from the School of Applied Science; in 1991, adding undergraduate programs in natural and applied sciences and arts and humanities; in 1995, offering the M.A. in occupational therapy; in 1997, extending the master's in literacy education and in 1998, the master's in adult education, both from the College of Education and Human Development.

Another important occasion was creation of the Franco American Heritage Collection, which opened in 1992.

The University of Maine at Augusta, which moved its Auburn campus into space at LAC in 1989, also has added a number of associate degrees over the decade.

The larger university community, friends and alumni of LAC have been invited to attend the ceremonies at the campus at 51 Westminster Street in Lewiston. For more information on the program, call 753-6500.

Fleet Bank of Lewiston Funds LAC Scholarships

Lewiston-Auburn College opened the '98-'99 academic year with new scholarship opportunities thanks to the support of Fleet Bank.

Fleet donated \$10,000 in scholarship monies that over the next two years will be awarded to students majoring in Leadership & Organizational Studies. The first four recipients received awards of \$1,250 each. In awarding the scholarships, preference is given to Lewiston-Auburn residents who have maintained a grade point average of 3.0 or above.

What We're Doing

continued from back page

EVE RAIMON, assistant professor of arts and humanities, Lewiston-Auburn College, will deliver a paper, "What is 'Race' to American Studies?" at a workshop for American Studies Program directors at the American Studies Association meeting in Seattle, on November 19-22.

LYDIA SAVAGE, assistant professor of geography, authored a chapter titled "Geographies of Organizing: Justice for Janitors in Los Angeles," which appears in "Organizing the Landscape: Geographical Perspectives on Labor Unionism," (University of Minnesota Press).

CATHY SIEBOLD, associate professor of social work, will have a chapter, "Vacation Breaks: Opportunities for Partings and Reunions," in the book, "The Social Work Psychoanalyst's Casebook: Essays in Honor of Jean," (The Analytic Press, Hillsdale, N.J.).

HARRY Z. SKY, Senior College coordinator, received the John B. Truslow Advocacy Award from the Advisory Council of the Southern Maine Agency on Aging for enhancing the quality of life for older people through public service, advocacy, and the development of elder services in York and Cumberland counties.

CHARLES WELTY, professor of computer science, presented a paper, "Resources for Undergraduate User Interface Implementation Courses" at Consortium for Computing in Small Colleges Northeastern Regional Conference, 1998, at Sacred Heart University, Fairfield, Conn., last April. He served as a panel member in a session titled, "Teaching Computer Science Abroad."

DARRYN WILLOUGHBY, assistant professor of sports medicine, recently presented research, co-authored by STEPHEN PELSUE, assistant professor of applied immunology, titled "Qualitative Myosin Heavy Chain Isoform mRNA Expression in the Elderly After Weight Training" at the National Convention of the American College of Sports Medicine. Willoughby has also had the research article, "Supplemental Electromyostimulation and Dynamic Weight Training: Effect on Knee Extensor Strength and Vertical Jump of Female College Track and Field Athletes," published in the *Journal of Strength and Conditioning Research*.

MARGO WOOD, professor of education, was keynote speaker for the Campus Compact conference for students last April in Portland. She also conducted a workshop on "Project Story Boost," the early literacy intervention that involves USM workstudy students involved in the "America Reads Challenge."

STEPHEN WORCHEL, dean, College of Arts and Sciences, had his book, "Written in Blood: Ethnic Identity and the Struggle for Human Harmony," published by Worth Publishers, N.Y. He is author of a chapter, "Social Identity: International Perspectives," in the book by the same title, which he co-edited, published by Sage Publishers, 1998.

A World of Databases at Library

When English professor Rick Abrams' visiting friend was interested in exploring the first uses of the phrase "magic lantern" as a metaphor, Abrams booted up the USM Library web page and opened LION, the Literature OnLine maxi-database. A search through this compilation of English and American literature identified and listed occurrences of the phrase with the publication date of each usage, author and context. It was then possible to download individual literary works in which the words appeared to read the total poem.

"This is the way all textual scholarship will be done in the future," Abrams said confidently. It would have been a very lengthy process, he explained, using the old method of hunting through library texts to identify all the uses of a phrase. Furthermore, according to Abrams, the LION database has more texts than any one library could have. Instead of checking all texts at the British Library and then traveling to Edinburgh University to check more, he said, an instant and comprehensive list is at your fingertips, allowing the scholar the opportunity to begin analysis immediately.

"This database gives USM an astounding literary database that includes out-of-print texts," Abrams enthused. "This allows scholars without other extensive resources to follow up even rare citations. It supplements the Oxford English Dictionary by supplying information on the frequency of use and dates of instances of use. It allows access to non-canonical and minority texts." Abrams has become such a believer that he now represents North America on the Renaissance advisory board for Chadwyck-Healey, developer of the database.

LION is just one of the new databases purchased by the USM Library and available through the library webpage, according to Stephen Bloom, director of USM Libraries.

"LION is in a particular class," Bloom said. "Like encyclopedic databases, it allows the user to search word by word through full texts, with a download range from citation to full text. A database like this is a powerful research tool, offering a broad, range of capability."

"LION is one of our newest databases, and we're pleased to have it because it supports the humanities so well," Bloom said. In addition to obvious uses by literature scholars, it

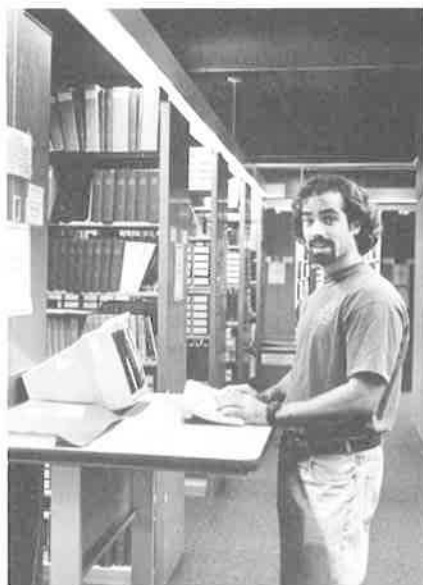
will be useful to cultural studies, he noted, for searching unknown or little known work by minorities and women. Putting in the search guidelines of women, African-American and 18th century yields a list of names and works few non-specialists will recognize. Search capability like this is a great starting place for scholarly and student research, Bloom said.

For scholars interested in the history of science, Bloom pointed out, searching for the first or last mention of plants or birds could yield valuable insights. Similarly, historians, linguists, psychologists and sociologists can find provocative intersections of word usage, time and place.

Other library databases allow faculty and students to search for particular articles from periodicals, which if not locally available can be acquired as needed. Mariner (Maine Academic & Research Initiative for Electronic Resources), the University of Maine System gateway, links the library webpage to a huge range of databases, including the Business Index, the Maine State Newspaper Package, the National Newspaper Index and government information sources, including the Library of Congress.

Databases and specialized search engines allow us to do more business remotely," Bloom explained. "We save money by purchasing these databases because we no longer have to buy, catalog and maintain all resources — newspaper archives, a vast array of scholarly journals and periodicals, in house," he said. "This greatly expands our access to vast library holdings."

For more on library databases, contact the USM Library Reference Staff at 780-4272.



A student explores library databases.

Barrett photo

What We're Doing

AL BEAN, director of athletics, spoke on the topic, "The Role of Fund-Raising and Development in Any Athletic Program," at the 1998 ECAC Fall Convention.

SCOTT W. BROWN, professor of psychology, presented a paper, "Relationship Between Temporal Signal Detection and Performance on Two Classic Timing Tasks," at a symposium on Time Perception at the 14th annual meeting of the International Society for Psychophysics, held in Quebec City last August. The paper was published in "Fechner Day 98," the proceedings of the meeting.

JANET Z. BURSON, associate dean and associate professor of nursing, represented USM at the Phi Kappa Phi 37th Triennial Convention in State College, Penn., last August.

WENDY CHAPKIS, assistant professor of sociology and women's studies, was awarded the 1998 Outstanding Book Award from the Organization for the Study of Communication, Language and Gender, for her 1997 book, "Live Sex Acts: Women Performing Erotic Labor." She was invited to be a plenary speaker on "Beyond the Sex Wars: Feminism, Sexuality and Power in a Commodity Culture," at the National Women's Studies Association annual conference in Oswego, N.Y., last June. She presented the keynote address, "Feminist Theories of Commodified Sex," at the Central Pennsylvania Women's Studies Consortium annual conference at Dickinson College, Penn., last March.

KATHLEEN A. EARLE, assistant professor of social work, had her article, "Cultural Diversity and Mental Health: The Haudenosaunee of New York State," published the June 1998 issue of Social Work Research (Vol. 22, pp. 89-99).

ROY A. GALLANT, director of the Southworth Planetarium, spent part of August doing field research near the Russian village of Tsarev into the 1922 meteorite shower, the world's third largest known stony-iron shower. The paper Gallant is now preparing about the circumstances surrounding the fall, and the strewn field, will incorporate information presently unavailable in English-language publications. The Tsarev expedition marked Gallant's fifth trip to European Russia and Siberia to conduct research into that country's meteorite fall sites. Gallant's book, "When the Sun Dies," was published in October by Marshall Cavendish, New York.

JOEL I. GOLD, professor of business administration and finance, had his article, "Maine Parents Need a Way to Save for High Costs of College," appear in the September 1 issue of the Portland Press Herald. The article was responded to favorably by Speaker of the House Elizabeth H. Mitchell in a September 14 letter to the Portland Press Herald.

MICHAEL S. HAMILTON, associate professor of political science, environmental science and policy, had his article on "Lost Profits, Lost Royalties: Formulating Policy to Recover the Value of Lost Coal Fines from Indonesian Mining Operations," in the policy section of Indonesian Mining Journal.

TARA HEALY, assistant professor of social work, published an article, "The Complexity of Everyday Ethics in Home Health Care: An Analysis of Social Workers' Decisions Regarding Frail Elders' Autonomy," that appeared in Social Work in Health Care (Vol. 27, No. 4, pp. 19-37).

JACK KARTEZ, professor of Environmental Science and Policy, is one of 10 chapter authors and NSF study committee members who contributed to the book, "Cooperating with Nature: Confronting Natural Hazards with Land Use Planning for Sustainable Communities," published by the National Academy of Sciences Press in July. Kartez is also continuing in a second term on the editorial board of the Journal of Planning Literature, a Sage publication. He has volunteered as a meeting facilitator for the Maine Center for Economic Policy, the ECO/ECO Forum at the College of the Atlantic, and the Natural Resources Council of Maine.

VALARIE LAMONT, director, Center for Real Estate Education and Center for Affordable Housing and Land Use Studies, was selected for this year's Zeta class of the Maine Development Foundation's Leadership Program. She was nominated by the School of Business and Cianbro Corp.

SAMANTHA LANGLEY-TURNBAUGH, assistant professor of environmental science and policy, published a manuscript titled, "Mass Balance of Soil Evolution on Late Quaternary Marine Terraces in Coastal Oregon," in Geoderma (Vol. 84, pp. 265-288). Langley-Turnbaugh also presented a paper, "Radium as an Arbiter in Soil Ca/Al Ratios: Implications for Soil Quality and Forest Health," at the ninth North American Forest Soils Conference in Tahoe City, Calif., last August.

MARILYN MacDOWELL, serials assistant,

University Libraries, recently was honored by the Maine Center for the Blind and Visually Impaired as their 1998 Volunteer of the Year. She has volunteered for a number of years and regularly accompanies Maine Center residents to Sea Dogs and Portland Pirates games, walking on the Baxter Boulevard trail, and numerous other activities Center residents like to participate in.

CARTER MANNY, associate professor of business law, presented a paper titled "Digital Privacy in an Insecure World: International Regulation of Encryption Technology" at the annual meeting of the Academy of Legal Studies in Business in San Diego last August. The paper has been accepted for publication in the conference proceedings.

JOHN MITCHELL, professor emeritus of industrial arts, has been elected by the Society of Manufacturing Engineers for induction into the 1998 College of Fellows in recognition for his years of contributions to manufacturing and SME. He will be installed on November 8 during the Society's fall board of directors meeting in Houston.

CHRISTOPHER M. PENNUTO, assistant professor of environmental science and policy, had an article, "Seasonal Position Patterns and Fate of a Commensal Chironomid on Its Fishfly Host," published in the Journal of Freshwater Ecology (Vol. 13, pp. 323-332). Pennuto co-authored another article, "Winter Macroinvertebrate Community Structure in Two Montane Wyoming Streams," that appeared in Great Basin Naturalist (Vol. 58, pp. 231-244). He presented "Season and Predator-Induced Changes in Substrate Preference by Stream-Dwelling Invertebrates," at the annual meeting of the North American Benthological Society, Charlottetown, P.E.I. He co-authored, with USM student C.L. Belisle, "Sex Differences in Stonefly Movement Behavior With and Without Prey Present;" and co-authored "Winter Movement and Site Preference Patterns of Midge Commensals on Their Fishfly Hosts," with USM student C. Wooster-Brown. He wrote "Seasonal Differences in Substrate Choice by Stream-Dwelling Insects Under Predation Risk." All three papers were presented at the annual Maine Biological and Medical Sciences Symposium in Biddeford.

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 University of Southern Maine

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