



*Upgrading Technology
and Classrooms*

*Providing
Student
Scholarships*

*Supporting
Faculty*

The Lowell Fund... your philanthropy at work.

Alumni who contribute to the University's annual Lowell Fund provide much needed financial support for academic programs. Lowell fund gifts enable the University to meet current priorities by bridging the gap between tuition revenues and the cost of providing a high quality education.

The University depends on your help to maintain its level of excellence.

Your Lowell Fund gift provides the following:

- increased student scholarships,
- research opportunities for both graduates and undergraduates
- Support for talented faculty, and
- Improved technology on campus.

To put your gift to work today...

Mail your gift in the envelope attached to this magazine to:
Office of University Advancement,
600 Suffolk Street, Lowell, MA 01854.

Charge your gift by calling Kathrine Hastings, director of
The Lowell Fund, at (978) 934-4808 or e-mail your questions
or comments to: kathrine_hastings@uml.edu

The Lowell Fund...

It's your philanthropy at work.



Office of Alumni Relations
Wannalancit Mills Complex
600 Suffolk Street
Lowell, MA 01854-3629

Nonprofit Org
US Postage Paid
Permit 219
Burl., VT. 05401

UMass Lowell

M A G A Z I N E

SPRING 2004
VOLUME 7 NUMBER 2

Sound Decision



Dear Alumni, Parents, and Friends:

The University of Massachusetts Lowell today is a different institution than it was in 1993, when we began a major realignment of the campus and developed a plan that would carry us through the early years of the new century. During that time we focused our mission on assisting sustainable regional development, reallocated funds to modernize our laboratories and equipment and refurbish buildings and grounds, built a recreation center, formed partnerships with the City of Lowell that yielded a new arena and ballpark, and strengthened the University as a whole.

Our current strategic plan includes a number of objectives, such as stabilizing enrollment, enhancing the teaching and learning dynamic, expanding technology across campus, increasing external funding, and enhancing our mission activities. We identified three new income streams to help us reach our goals: the commercialization of intellectual property and expansion of non-government research and development; the redesign of our continuing studies/corporate education program with a major on-line component; and a significant expansion in fund-raising. We have made substantial progress in these areas.

As agile as we have had to be in the past several years to keep moving forward, UMass Lowell must keep adapting and responding to new conditions. One of those changes is a nationwide climate that has led to decreasing state support for public higher education.

Massachusetts Senate President Robert E. Travaglini recently appointed state Senators Steven C. Panagiotakos of Lowell and Stanley C. Rosenberg of Amherst to co-chair a task force that will develop a ten-year plan to reform public higher education in our state. In the past two years, Massachusetts has had the largest decrease in state funding for public higher education in the nation — a 23 percent reduction. Massachusetts ranks 49th and 48th respectively in state spending on public higher education per \$1,000 of state income and state spending on public higher education per capita. State Senator Panagiotakos says, "If we continue to push the system down this path, we will be witnessing the slow dismantling of the only affordable public higher education we have in Massachusetts. ... What is needed is a realistic, well thought-out ten-year plan, with the same commitment that was made to K-12 education over a decade ago

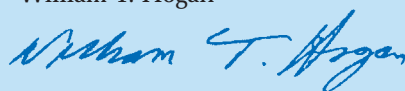
Another factor facing the Lowell campus is rapidly changing technology that affects the way everyone teaches and learns. To keep pace, we have included this issue in our new strategic plan called the 2003–2013 Transformation Plan.

We will explore new approaches to teaching and learning that incorporate the latest technology and reflect the way people now organize their lives. We will work to redesign the academic experience. In restructuring the undergraduate program, our objective is to make UMass Lowell a "school of choice" for a larger pool of potential students. We will implement the most cost-effective business practices and improve student services. To supplement state support, we will develop new sources of earned income and work energetically with our alumni and friends to raise the level of gift giving.

Our chief academic goal is to provide to undergraduates at Lowell an experience in which they learn how different kinds of knowledge interrelate and how that dynamic shapes the sustainability of a vibrant society and robust economy. We will offer an excellent education to all students in a safe, inviting, and supportive environment. From a financial perspective, we will make a UMass Lowell education accessible by granting significant campus- paid financial aid. This aid will be available as a result of continuous cost-saving efforts across campus. Overall, we intend to be recognized widely as a model within higher education — a model that demonstrates how a public university providing high quality, affordable programs and operating in the fine tradition of land-grant institutions can assist sustainable regional development in a global economy.

UMass Lowell's future depends upon the embrace of a far-sighted public that appreciates the value of investing in our programs, all of which contribute to the greater good in Massachusetts and the wider world. Together, we can complete a transformation that will carry UMass Lowell into the middle decades of this century as a leading public university.

William T. Hogan



Chancellor



MAY 2004

Sunday, May 2

Charlotte's Web
Family Discovery Series
Durgin Hall
UML South

Monday, May 3

Wind Ensemble
Prof. David Martins, Director
Durgin Concert Hall
UML South

Friday, May 7

STARTS Program
**Tom Chapin and Friends:
This Pretty Planet**
Durgin Concert Hall
UML South

Friday, May 7

**Biology Alumni Awards
and Reception**
UML North & Brewhouse Café and Grille

Thursday, May 13

**Contemporary Electronic Music
Ensemble**
Dr. John Shirley, Director
Durgin Concert Hall
UML South

Thursday, May 13

Graduating Senior Brunch
Cumnock Hall
UML North

May 15 - June 12

BFA Candidates Spring 2004
UNIVERSITY GALLERY
UML South
Reception: Sat., May 15, 2 - 5 p.m.
University Gallery & Dugan Gallery

Friday, May 14

Dedication of 9/11 Memorial
UML North

Saturday, May 15

All City Youth Wind Ensemble
Prof. Debra-Nicole Huber, Director
Durgin Concert Hall
UML South

Thursday, May 27

UML Annual Golf Tournament
Sky Meadow Country Club
Nashua, N.H.

JUNE 2004

Sunday, June 6

Commencement Ceremony
TSONGAS ARENA
Lowell

June 23

UMass Night at the POPS
Symphony Hall
Boston

June 27 - July 7

Alumni Campus Abroad
Old Castile, Spain

JULY 2004

Engineering Design Camp 2004

Sessions begin July 12
through August 6

Saturday, July 17

Summer Band Camp
Durgin Concert Hall and Cookout
UML South

July 23-25

Lowell Folk Festival

AUGUST 2004

August 17 - 25

Alumni Campus Abroad
Aix-En-Provence, Provence

August 31

**UML Night at the Lowell
Spinners Baseball Game**
LeLacheur Park
Lowell

SEPTEMBER 2004

September 18 - 27

Alumni Campus Abroad
Sicily

Circle of Distinction Event

Date TBA

OCTOBER 2004

October 15 - 16

Fall Festival/Reunions/Homecoming

NOVEMBER 2004

Saturday, November 6

**Francis Cabot Lowell Awards
and Athletic Hall of Fame**
Doubletree Hotel
Lowell

For more information on alumni activities, please check our Alumni Web site calendar: www.uml.edu/Alumni or call the Office of Alumni Relations, toll free (877) UML-ALUM or (978) 934-3140.

For more information on Athletics, go to www.GORIVERHAWKS.com or call (978) 934-2310.

For more information and reservations on the Family Discovery Series, please call the Center for the Arts at (978) 934-4444. For more information and reservations on the SMARTS Program, (978) 934-4452.

Interested in subscribing to *The Connector*, UML's student newspaper? Please call (978) 934-5009 or e-mail your request to connector@uml.edu

We Want News About You!



Please send to:

UMass Lowell
Office of Alumni Relations
Wannalancit Mills Complex
600 Suffolk St.
Lowell, MA 01854-3629
Fax: (978) 934-3111
E-mail: Alumni_Office@uml.edu

What topics would you enjoy reading more about — Alumni, Students, Faculty, Campus?

Please check the activities with which you would like to help:

- Alumni Relations Council
- Young Alumni Council
- Career Services (UCAN)
- Fall Festival Committee
- College/Departmental Activities
- Regional Chapters
- Class Reunions

Please send me a copy of the latest Lowell Alumni Handbook, which includes information on all alumni benefits, services and activities.

News about you:

Thank you!

Write to us using this form with news about your family, career, or hobbies. If you send us a photo we will gladly include it and return it to you after it appears. This form may also be used for updating a new business or home address or phone number.

Be sure to give us your e-mail address so you can receive our e-newsletter.

Please check box if information is new.

Name: _____

Women: Please include your graduation name. _____

Class Year: _____ Major: _____

Home Address: _____

City: _____

State: _____ Zip: _____

Home Phone: _____

E-mail Address: _____

Employer: _____

Title: _____

Business Address: _____

City: _____

State: _____ Zip: _____

Business Phone: _____ Fax: _____



Table of Contents

SPRING 2004 VOLUME 7 NUMBER 2

Spring 2004
Volume 7, Number 2

The UMass Lowell Alumni Magazine is published by:
Publications Office
University of Massachusetts Lowell
One University Avenue
Lowell, MA 01854
Tel. (978) 934-3223
e-mail: Marylou_Hubbell@uml.edu

Vice Chancellor for University Relations and Development
Dr. Frederick P. Sperounis

Executive Director of Communications and Marketing
Christine Dunlap

Executive Director of University Advancement
Matthew Eynon

Director of Programs and Alumni Services
Diane Earl

Associate Director
Deme Gys

Director of Publications and Editor
Mary Lou Hubbell

Staff Writers
Geoffrey Douglas
Paul Marion '76
Jack McDonough

Contributing Writers
Rena Lias Claffey
Elizabeth James
Elaine Keough
Ken Lyons
Patti McCafferty
Sandra Seitz
Rick Sherburne

Design
Shilale Design

The University of Massachusetts Lowell is an Equal Opportunity/Affirmative Action, Title IX, H/V, ADA 1990 Employer.

Campus News

- Advancement2
- Arts & Sciences2
- Education7
- Engineering7
- Health9
- Outlook10
- People11
- Outreach12
- Research15
- Athletics30
- Class Notes34



Page 16



Page 22

Cover Story

16 Alums Say: Enrolling in the SRT Program Was a Sound Decision

Cover Sidebar

20 Answering Prayers for the Acoustically Challenged

Face of Philanthropy

22 'A Little Gem of a Theatre' — and So Much More



Page 27

Feature Story

24 John Wooding Talks About Skills, Joy, and Responsibility



Page 24

Feature Story

26 Ludwig Rebenfeld '51 Has Woven a Successful Career in Textiles and Hair



Page 26

Feature Story

27 River Ambassadors: Bringing Teens Closer to Their World



Page 28

Feature Story

28 Corporate Education, 2004: 'A Whole New Way of Partnering'

Page 20



Lowell Textile School • Massachusetts State Normal School • State Teachers College at Lowell • Lowell Textile Institute
Lowell Technological Institute • Massachusetts State College at Lowell • Lowell State College • University of Lowell

Advancement

Advancement Effort Surges as Major Gifts Announced

The Advancement Office surged into 2004 on the strength of almost \$900,000 in cash gifts received in December, as well as several other significant major gift pledges announced at year's end. Unrestricted cash gifts for the Lowell Fund, which is led by new Director Kathrine Hastings and new Assistant Director Kathryn Lee '03, were 40 percent ahead of last year's pace, due to a more consistent focus on securing discretionary support for the entire campus.



Matthew Eynon

UMass Lowell's 2002 Distinguished Alumni Award recipients Charles and Jacqueline Puliafico committed \$500,000 to endow a fund to be used at the discretion of the Chancellor for campus priorities and projects that will help fulfill the campus mission.

"This is an extraordinary pledge, and emblematic of the deep appreciation our graduates feel for the high quality education they received during their years at Lowell," says Matthew Eynon, executive director of University Advancement.

"The major gifts allow us to meet two of Chancellor Hogan's highest priorities for private fundraising," explains Eynon. "Our aim is to increase cash available for near- and long-term needs and to dramatically grow our endowed funds."

Among the major gifts received was a \$300,000 donation from alumnus Roy Zuckerberg to complete the funding he

committed for the Roy Zuckerberg Chair in Leadership, the first endowed chair to be based at UMass Lowell.

Mr. and Mrs. Arthur Zamanakos donated \$200,000 to create an endowed scholarship fund for mathematical sciences students. A continuing education student at Fort Devens in the 1940s, Arthur Zamanakos says he never forgot the Lowell faculty who helped him when he needed it.

A leadership donor to the Plastics Engineering Department for many years, Mark Saab '81, made a \$125,000 donation to renovate a new plastics engineering properties testing laboratory in Ball Hall. Saab is president of Advanced Polymers Inc. of Salem, N.H.

Jim Dandeneau '80, president and CEO of Putnam Plastics in Thompson, Conn., contributed \$40,000, the first third of a \$120,000 pledge that will be used to support the Plastics Engineering Department, the family scholarship fund established in 2000, the Leo F. King Scholarship Fund, and the men's ice hockey program in which he played.

Former honorary degree recipient Frank McKone '56 donated \$20,000 as part of a \$100,000 multi-year pledge to support the Frank McKone Scholarship Fund and the James B. Francis College of Engineering Endowment Fund. McKone is the retired board chair and CEO of Albany International.

Three radiological sciences graduates, Lorenzo Cabrera '94, David Watters '93, and Steve Masciulli '75, contributed \$10,000 in December, the second step toward their pledge of \$50,000 for the radiological sciences program. Their environmental radiology firm, Cabrera Services Inc., is based in East Hartford, Conn.

"Our efforts in the Advancement Office are a campus-wide success story,"

says Eynon. "The chancellor, vice-chancellors, provost, deans, faculty, and everyone all the way down the line have been instrumental in these efforts."

Colleges - Arts & Sciences

Computer Science's Martin Holds First Egg-Hunting Contest

Ten students in the Robotics I class taught by Asst. Prof. Fred Martin, computer science, had just two weeks to design and fabricate robots that could complete a complex task. The robots were fully autonomous—not remote controlled—and competed "head to head" to gather plastic eggs. Eggs of one color added points and eggs of another color subtracted.

The winner was Michael Bohan, senior computer science major from Harvard, Mass. Runner-up was Aron Barabas from Romania, who lives with a family in Bedford. Aron is also a senior computer science major.



Aron Barabas, left, was runner-up and Michael Bohan was the winner in the first robotic egg hunt, directed by Asst. Prof. Fred Martin, computer science.

"The point of the competition was for the students to demonstrate their range of knowledge of how robots work by designing them to perform a specific task," says Martin. Project management was also important, as the one- or two-person teams had only two weeks from initial concept to performance.

"They lived in the lab," says Martin. "They had to learn to manage their expectations of what could be accomplished. Many started with a more complex design and then had to simplify it."

Man of Mystery Becomes Writer-in-Residence

"I looked up and saw the old guy standing in my office doorway pulling a sawed-off shotgun out of a brown paper bag. He was wild-eyed, winded from the three-flight climb. The bag was the long thin kind that hero sandwiches come in. He tossed it aside and stepped toward my desk, where my morning coffee steamed in the cup.

"You're Mr. Rasmussen," he said. "I'm gonna give it to you."

So begins *Goofy Foot*, the soon-to-be-released third book in a series of mysteries chronicling the adventures of Alex Rasmussen, a retired beat cop working as a private investigator out of a dingy office in Lowell's Kearney Square.

Rasmussen is the creation of David Daniel of Westford who was this spring's Jack Kerouac Writer-in-Residence. Daniel has been an adjunct instructor through continuing studies for a number of years.

As the fourth Kerouac Writer-in-Residence, Daniel taught a course for upper level English majors called Creative Writing: Fiction.

Goofy Foot joins *The Heaven Stone* and *The Skelly Man*, the Rasmussen trilogy that has so strongly associated Daniel with the mystery genre. *The Heaven Stone* won the Private Eye Writ-



David Daniel

ers of America/St. Martin's Press award for best first novel in 1993. Lowell has served as the backdrop for all three stories.

The Writer-in-Residence is made possible through financial support of the Provost's Office and John Sampas, literary executor of the Jack Kerouac Literary Estate.

Dubus Is in the House

It was one of the best years of his life, he says.

For much of 2003, Andre Dubus III got up early every morning and worked with his brother Jeb until the late afternoon, building a 6,000 sq. ft. home for his family in Newbury.



Andre Dubus III, author of *The House of Sand and Fog*, returned to UMass Lowell this spring as a visiting professor in English.

When the sun went down, Dubus would retire to his office to write, before using the last of his energy for family time with his three children and wife, Fontaine.

Last fall, Dubus (pronounced like "abuse") had to set aside his hammer to help publicize *The House of Sand and Fog*, a film based on his 1999 book of the same title.

This spring he returned to the UMass Lowell campus as a visiting professor in the Department of English.

He was last on campus as the Jack Kerouac Writer-in-Residence, in 2001. This past fall, he called Prof. Bill Roberts, chair of English, and asked if

there were any courses he could teach. Dubus told him he was eager to get back into the classroom.

"Curiosity is always the fuel for writing," he says. "The classroom will remind me that it's not so much about me as about process."

DOE Approves Music Teaching Degree Program

The Massachusetts Department of Education has given its approval to UMass Lowell's music teaching program, providing the final approval required for the newly restructured program to license new teachers.

The University's program was reworked into an integrated, dual-degree sequence that would enable students to earn both a bachelor of music in music studies and a master of music in teaching in five years.

UMass Lowell is the oldest degree-granting institution of music educators in the country, and there are more of its graduates teaching music in Massachusetts than all other programs combined.

“Training public school music teachers is in our life blood,” says Department of Music Chair Will Moylan. “The new program will build on that tradition.”

During the late '90s, the University moved all its teaching certification programs to the graduate level, presenting a challenge to the music education program. Its national accrediting body, the National Association of Schools of Music (NASM), holds that, to be identified as a “music education” curriculum, an undergraduate program must include certification.

An advisory group with expertise in education at both the state and national levels devised a new curriculum that satisfied the state, the University and NASM guidelines. By refocusing the undergraduate degree into music studies rather than music education, the challenge was overcome.

The bachelor's level program addresses all of the musical skills and teaching competencies needed for the student to become a music teacher, with a unique emphasis on instrumental and vocal training. Student teaching, however, has been moved to the graduate level, necessitating additional degree work.

The master's degree program consists of advanced studies in music, graduate level courses in education and music education and apprentice teaching. Students completing both degrees are immediately qualified for licensure at the initial level of certification.

Criminal Justice Police Program Approved

The Massachusetts Board of Higher Education (BHE) has announced that UMass Lowell is among only nine institutions of higher education offering so-called Quinn Bill programs for police officers approved to continue operating in the state.

UMass Lowell joins UMass Boston as the only approved state institutions on the list offering bachelor's and master's degrees in criminal justice.

Under the Quinn Bill, police officers have been able to earn pay raises for completing associate's, bachelor's or master's degrees. Following a 2002 audit, many of the 46 Quinn Bill programs statewide were criticized for lax standards.

More stringent standards, especially with regard to faculty qualifications, were applied in this latest review, resulting in the elimination of 70 percent of the existing programs.

Ideas Flow at Tripathy Symposium

When materials scientists get together for a conference, the formal presentations are only part of the story.

The presentations are excellent, since the annual Sukant Tripathy Memorial

Symposium draws leading researchers, who are happy to discuss their current investigations. More than 100 registrants from outside UMass Lowell participated in the 2003 event, including many from industry and other universities.

Coffee and lunch breaks were just an added opportunity for continued intense discussion.

The Center for Advanced Materials hosts the symposium in memory of Dr. Sukant Tripathy, UMass Lowell professor of chemistry and founding director of the Center, who was recognized as a world leader in research in the broad area of polymers in electronics and optics. The symposium reflects the breadth and interdisciplinary nature of his interests.

Corporate sponsors include Genzyme Corporation, and Konarka Technologies — a company formed from Tripathy's intellectual property.



MIT Researcher Gives Tripathy Memorial Lecture

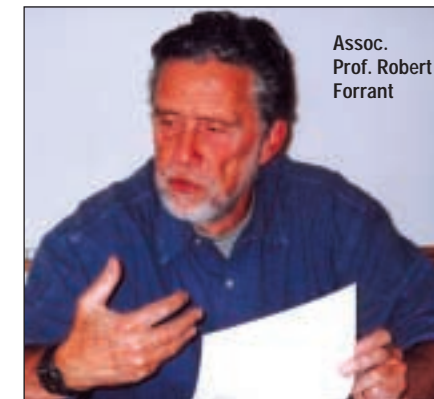
Dr. Robert Langer, second from right, professor of chemical and biomedical engineering at MIT, was the 2003 featured speaker at the annual Sukant Tripathy Endowed Memorial Lecture. In his address, Langer said bioengineering is still at an early stage but there is less skepticism and more hope for it than in the past. With him are, from left, Physics Prof. Jayant Kumar, director of the Center for Advanced Materials; Dr. Ashok Cholli, director of the NMR lab in the Center; and Chemistry Prof. Daniel Sandman, associate director.

Globalization Seen as Threat to America's Workers

Jobs that once moved from one state to another are now moving out of the country, leaving a large number of workers stranded in low-level service employment, according to Assoc. Prof. Robert Farrant of the Regional Economic and Social Development Department (RESO).

Many of the nation's blue collar workers who once supplied the labor for America's factories are now reduced to flipping burgers, Farrant told a recent seminar sponsored by RESO, the Center for Industrial Competitiveness and the Department of Work Environment.

Titled, “Between a Rock and a Hard Place: Some Observations on Labor and Globalization,” the seminar



checked the pulse of America's blue collar workers and organized labor, and concluded that neither is doing well.

“Workers in the U.S. are being squeezed by companies, backed into a corner,” said Farrant. “Businesses are forcing unions and workers to renegotiate their contracts, signed in good faith, to take pay cuts, and make concessions on seniority, health insurance and various benefits under the threat that if they don't, the company will move the work.”

Workers, according to Farrant, have few choices: “It's a question of whether you want to, in the first instance, jump

off the bridge and get it over with; or in the second instance, get several thousand paper cuts and, slowly, over time, bleed to death. In the end, you still don't have a job, so that's the rock and the hard place.”

NSF Grant Expected to Help Students See 'The Forest'

The problem, says Peter Avitabile, is that students often can't see the forest for the trees.

They take a course, pass it and go on to the next one in the curriculum sequence. But, all too often, they fail to see how the material they learned in the first course is a building block for the next one — or the one after that.

Even within a single course, says Avitabile, an assistant professor in mechanical engineering, students may ask if material on the first test will be included in subsequent tests.

“From the student's perspective, the material seems disjointed,” he says.

He illustrates this situation with a cartoon that shows a student asking the professor, “Why didn't you tell us that the material covered at the beginning of the semester was going to be really important for the labs we did?”

The drawing also shows one piece of a jigsaw puzzle that represents the student's view of the material. (A tree) Another panel shows the completed puzzle with all the pieces in place, representing the professor's vision of how everything fits together as a whole. (The forest)

Now, a three-year, \$267,000 National Science Foundation grant to Avitabile and Profs. John White of chemical engineering and Stephen Pennell of mathematics may offer a solution.

The objective of the grant project is to develop a multi-semester, interwoven dynamic systems-related project with an online experiment to integrate

material in a relevant, meaningful way for student comprehension and retention.

Master's Program in Meteorology Tackles Pollution Issues

Fly into Boston, or almost any city, on a clear day, and you'll see a brown smudge of pollution on the horizon.

Or watch a hawk, in mid-morning, rising on the air currents above a plowed field or a highway.



Prof. Frank Colby heads up a new master's degree program in meteorology that focuses on pollution and environmental issues.

You are looking at the boundary layer, the part of Earth's atmosphere that is controlled by the presence of the ground.

“The boundary layer is where we live,” says Prof. Frank Colby, of environmental, earth and atmospheric sciences and graduate coordinator for the master's program.

“It is so difficult to understand — so affected by turbulent air movements, small-scale motions with large consequences — that it's too hard for an undergraduate to handle the math and physics. Even in flat terrain, our models are not very good; add some hills or mountains and. . .”

Fortunately, UMass Lowell now offers a master's degree program in meteorology.

Mercury, the Quicksilver of Old, Proves Both Persistent and Elusive

Mark Hines, associate professor and chair of biological sciences, conducts research in a Slovenian mercury mine that was opened in 1492.

He has stood on a hill of mining residue in Spain that dates from the time of the Roman Empire.

And he tracks the evidence of mercury deposits in the riverbanks below a Nevada gold mine in which mercury was used.

Mercury is persistent in the environment, according to Hines, showing up in the bodies of native people living above the Arctic Circle, increasing in concentration as it moves up the aquatic food chain, lying inactive but available in the soil for hundreds of years and dispersing into the atmosphere from incineration and fossil fuel burning.

“The result of incineration is a prime example of mercury dispersion,” says Hines. “Either the mercury rains out near the source, or it stays in the atmosphere and is distributed worldwide. We can identify a three- to five-fold increase of mercury deposition from the atmosphere globally in the last 100 to 200 years.”

Hines is studying the different kinds of bacteria that are either methylators—turning inorganic mercury into methyl-mercury, or demethylators—breaking down the methyl-mercury into methane and mercury vapor.

“We have found that the methylators are anaerobic and the demethylators are more aerobic,” says Hines. “Where mercury used in mining has been deposited on the riverbanks, the samples from deep, wet areas of the bank are methylated and the dry, upper layers are not.

“Surprisingly, the anaerobic bacteria don’t die off in prolonged dryness. When the banks flood, the methylation in formerly dry soil is just as active as if it had always been wet, spreading the absorbable mercury downstream into fisheries and irrigation systems.”



Biologist Mark Hines studies the concentration of mercury in the environment. Here he collects soil samples from a mercury mine in a remote area of Alaska, accessible only by helicopter.

gy. (The degree is offered as an atmospheric sciences concentration through the Civil and Environmental Engineering Department.)

Lowell’s master’s in meteorology is unique in the region. New Hampshire has no master’s program, and MIT’s program focuses on climate and atmospheric modeling.

“Almost all pollution happens in the boundary layer,” explains Colby. “We want to understand how pollutants can be distributed.”

Many of the program’s students have come from industry, including several who work at ENSR International, one of the world’s leading environmental consulting companies, headquartered in Westford. These students know how to choose real-world problems as thesis topics, says Colby.

Szczesiul’s Study of Warren Named Outstanding Academic Title

The American Library Association’s *Choice* magazine for academic libraries has named Asst. Prof. Anthony “Tony” Szczesiul’s study of Robert Penn Warren’s poetry as one of its Outstanding Academic Titles of 2003.

Reviewing *Racial Politics and Robert Penn Warren’s Poetry* (University of Florida Press, 2002), *Choice* praised Szczesiul’s study as “essential” and said the book “teems with ideas and presents a tall order for appropriate future study.”

Szczesiul’s examination of the great Southern poet and writer explores both politics and ideology in Warren’s poetics, demonstrating how “his poetry was in an intensive and ongoing dialogue with its changing social and historical contexts.” Warren, the first Poet Laureate of the United States, won the Pulitzer Prize three times in the 20th century and is known as a founder of the New Criticism.



Asst. Prof. Tony Szczesiul

Illustrator Honored for Work on Children’s Book

Asst. Prof. Karen Roehr of the Art Department has just received the 2004 Kimberly Colen Work-in-Progress grant from the Society of Children’s Book Writers and Illustrators (SCBWI).

The SCBWI awarded Roehr the grant for an as-yet unpublished picture book for children for which she employed a unique art medium, chine colle monotype. This technique is a sort of reverse collage effect in which colored rice papers are layered with



Asst. Prof. Karen Roehr has been awarded one of only two 2004 Kimberly Colen Work-in-Progress grants from the Society of Children’s Book Writers and Illustrators (SCBWI).

rice glue and run through a printing press, producing unusually rich color and texture.

Out of more than 250 applicants from all over the world, Roehr was one of only two grant recipients. She is the first recipient who is illustrating as well as writing her entry.

Colleges - Education

GSE Helps Professionals Switch to Math and Science Education

Professionals who have been working in industry now have an economical way to change careers. The UMass Lowell Graduate School of Education, funded by a nearly \$350,000 grant from the Robert Noyce Scholarship Foundation, is offering 30 \$10,000

scholarships over the next three years to professionals looking to make the switch to math and science education.

Project EXCEL (EXchanging Careers Enhancing Learning) is for professionals in math, science or engineering disciplines with more than five years industrial or research experience. Scholarship recipients will earn a master’s degree in education and will be licensed to teach math or science at the middle or high school levels. The program requires that they commit to teaching for two years in a high-need school.

“We are satisfying two community needs — helping professionals and meeting the demand for math and science teachers in urban school districts,” says Anita Greenwood, associate professor of education who is administering the program, along with co-principal investigators Assoc. Prof. Mark Hines, biology; Prof. Regina Panasuk, mathematics education; and Prof. Alan Doerr, mathematics.

“Working with our partners in the Lowell Public Schools and Greater Lowell Regional Technical High School, we can offer career change professionals the opportunity to put their education degree into practice immediately,” Greenwood says.

Middle School Science Teachers Will Gain Degree Online

The Graduate School of Education in collaboration with the University of Massachusetts Amherst has received a three-year, \$1.2 million grant from the National Science Foundation.

The project will provide an online master of education degree with a concentration in science education. The program is designed to meet national and Massachusetts standards and, once approved by the Department of Educa-

tion, will lead to professional licensure for general science teachers who live in the state.

Anita Greenwood, associate professor of science education in the Graduate School of Education, is co-principal investigator. Courses are available online from teams of UMass faculty and expert public school science teachers.

Colleges - Engineering

UMass Lowell Offers Legislators Insights Into Nanomanufacturing

“The economic stakes [with nano-based manufacturing] are very high and long-term,” Chancellor William T. Hogan told a briefing last fall of the House Science and Technology Committee, chaired by Rep. Brian Dempsey, a UMass Lowell alumnus.

“Some geographical regions will emerge with greatly enhanced competitive advantage. You could help Massachusetts be one of these regions.”

Chancellor Hogan and Engineering Profs. Julie Chen, Stephen McCarthy and Joey Mead impressed upon the committee the need for the state’s support for nanomanufacturing — and also explained the technology behind it.

UMass Lowell’s special expertise — along with partners Northeastern University and the University of New Hampshire — is in the manufacturing application of the broad-based science behind nanotechnology.

Analog Scholar-Intern Finds Himself in New Role—Instructor

In five short years, Jay Fu has gone from one side of the teaching podium to the other, from intern to employee — all with the support of

UMass Lowell and Analog Devices.

Fu, a native of China and a Wakefield resident, worked at Analog's Wilmington office in the Chute Field Engineering Department beginning in his freshman year as part of the Francis College of Engineering's Scholar-Intern Program. He completed his bachelor's degree in 2002 and went on to earn his master's in 2003. Now, Fu works full time at Analog and is teaching in the Division of Continuing Studies and Corporate Education (CSCE) as part of an on-site program.

"I'm enjoying every bit," says Fu of his engineering and teaching duties. He has found that teaching is making him a better employee, honing his communication, management and technical skills. He taught Semiconductor Basics as part of the on-site certificate program and is currently teaching digital electronics for the on-site associates program.



Raytheon Corporation in Tewksbury has donated \$10,000 to the Dean's Discretionary Fund in the Francis College of Engineering. Mark Russell, second from right, vice president, Integrated Defense Systems and a UMass Lowell alumnus, presents the check to Dean John Ting. Joining them from Raytheon are, from left, Dan Earley, microwave engineer; Tony Marinilli, engineering fellow and manager, Technology and Engineering Process; and Ray Waterman, microwave engineer.



Chen Guides Researchers on Working With NSF

Mechanical engineering Prof. Julie Chen, right, on leave from UMass Lowell to serve as a program manager in nanotechnology with the National Science Foundation (NSF), made a presentation recently to the Grant\$ for Lunch series. These information sessions are sponsored by the Research Foundation to keep faculty researchers apprised of opportunities in funding. Physics Prof. Jayant Kumar, director of the Center for Advanced Materials, discusses a point with Chen at the break.

Colleges - Health

Med Tech Earns Perfect Score in Reaccreditation

The Medical Technology program has received official word of its reaccreditation by the National Accrediting Agency for Clinical Laboratory Sciences. Med Tech is offered as an undergraduate option of the Clinical Laboratory Sciences major.

"This is the third time in a row that we have had a perfect score," said Prof. Kay Doyle, program coordinator. This accreditation, good for seven years, is the fifth time the program has been accredited.

UMass Lowell has the only program in Massachusetts with an all Ph.D. faculty.

Accreditors made special note of the "dedication and enthusiasm of the program faculty; the dedication and vision of the program director; the support of campus administration and clinical affiliates; the variety of clinical affili-

ates; the strength of the advisory board; the strength, reputation, and support of alumni; and the quality and amount of campus laboratory facilities and equipment."

Zhan Appointed Director of Nursing Ph.D.

For Dr. Lin Zhan, newly-appointed director of the Doctoral Program in Nursing, accomplishing a lot seems to come naturally.

In 1985, when she left her hometown of Cheng Du (also the hometown of panda bears), the People's Republic of China (PRC), she was the first nurse from her homeland to study abroad. In 1987, when she earned her master's degree from Boston University, and again in 1993 when she received her Ph.D. from Boston College, she was the first nurse from



Prof. Lin Zhan

PRC to earn those degrees.

Since then, she has amassed a long list of outstanding accomplishments in both China and the U.S.

"I am outcome oriented," Zhan says. "I like to get results."

Her research and professional activities have focused on the healthcare needs of minorities and the elderly and the reorientation of healthcare to a health promotion model. Her interests have often been played out as part of her commitment to nursing education.

"I love to teach," she says. "Students have such wonderful ideas. I think it is extremely important for nursing education to reflect the real world."

For the past 10 years, Zhan was on the faculty in nursing at UMass Boston. The Lowell and Boston campuses have joint doctoral programs, with Boston focusing on health policy and Lowell on health promotion.

"Health promotion is a very important focus in healthcare today," she says. "Some of this country's most significant health issues — cardiovascular problems, smoking, obesity, and substance abuse — can best be addressed through a prevention model."

In addition to her faculty position at UMass Boston, Zhan has been a visiting professor at four universities in recent years. At each she has been an active teacher across all degree levels and has taken on significant administrative projects.

Researchers Conduct a Make Up Examination

If you knew teenage relatives or neighbors were being exposed regularly to substances like formaldehyde, lead or propane, it would probably cause you some concern. Yet, many are

The exposure may occur, not necessarily from coming too close to a toxic



Those involved in the Medical Technology accreditation process included, standing from left, Prof. Kay Doyle, director of the Medical Technology Program; Prof. David Wegman, dean of the School of Health and Environment; and Nancy Gadbois, who oversees and teaches labs. Seated are Prof. Beverly Volicer, left, chair of the Health and Clinical Sciences Department; and Jan Stecchi, retired dean of the College of Health professions.

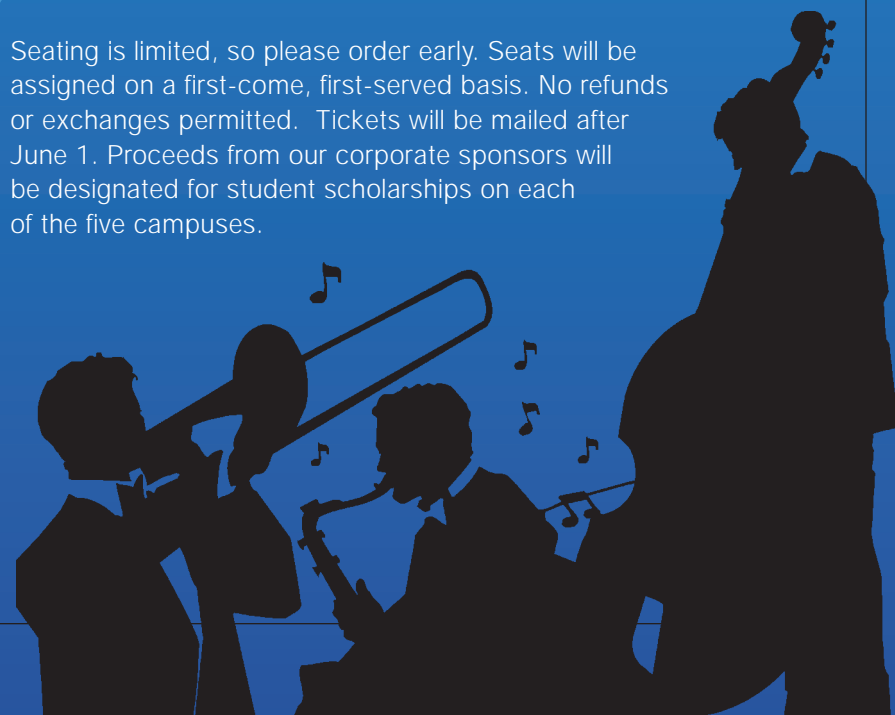
UMass Night at the



Wednesday, June 23
8 p.m. Symphony Hall, Boston
Marvin Hamlisch, conducting
Hosted by the UMass Foundation

Seating is limited, so please order early. Seats will be assigned on a first-come, first-served basis. No refunds or exchanges permitted. Tickets will be mailed after June 1. Proceeds from our corporate sponsors will be designated for student scholarships on each of the five campuses.

For ticket information, go to www.massachusetts.edu and click on UMass NIGHT @THE POPS. Order tickets by phone at 617-287-5772 and have credit card information available. Questions? E-mail foundation@email.umass.edu.





Members of the "Beyond Your Body" research team include, from left, Sokny Long of the Center for Family, Work and Community (CFWC); Asst. Prof. Khanh Dinh, psychology; Khan Chao, CFWC; Assoc. Provost Kristin Esterberg, sociology; Assoc. Prof. Susan Houde, nursing; Maribel Ortiz, graduate student of nursing; and Prof. Susan Reece of nursing.

waste site or working in a dangerous environment, but when artificial nails are removed, mascara or acne cream is applied, or cologne is splashed on. Potentially toxic ingredients in these and other products may be absorbed through the skin or lungs, causing allergic reactions, infections or chronic inflammation.

A team of UMass Lowell researchers has launched a study, "Beyond Your Body: Personal Care Product Use Among Adolescents," to inventory the products and ingredients used by Lowell teens to better understand the scope of the issue.

According to Nursing Prof. Susan Reece, one of the study's principal investigators, the team wasn't going to focus on personal care products originally.

"We almost opted to look at teen smoking, but realized little attention had been paid to this issue," Reece said.

The project is being sponsored by the School of Health and Environment, the departments of Psychology and Sociology, the Center for Family, Work and Community, New Ventures Environmental Justice Partnership and the River Ambassador's Program. Additional support has been provided by the Council on Diversity and Pluralism.

Campus - Outlook

NEASC Visit Yields 'Positive and Supportive' Comments

Dr. Philip Austin, president of the University of Connecticut, led an 11-member team from the New England Association of Schools and Colleges (NEASC) on a three-day visit to UMass Lowell in late October, the centerpiece of an accreditation review for which the campus had been preparing for more than a year.

Winding up the intensive on-site review, Dr. Austin and the team offered "positive and supportive comments in their verbal recommendations," said Provost John Wooding. Not surprisingly, the reviewers expressed some concern about long-range financial matters due to the recent decreases in state support, according to Wooding.

NEASC is the regional commission responsible for reviewing accredited New England schools and colleges at least every 10 years. Securing accreditation is vital to UMass Lowell, as it affirms the institution's integrity and overall well-being for the public as well as for funding agencies. The team visiting Lowell focused on institutional integrity and effectiveness.

Rec Center Has Been 'Everything We Expected'

The new Campus Recreation Center celebrated its first anniversary in the fall, and Athletics Director Dana Skinner said, "It's been everything we expected. It's been more than we expected."

"We projected a usage number of somewhere between 800 and 1,000 students a day, and that's proven just about right. What we didn't expect was some of the heavy-use areas we're seeing — like the grass area in front of the Center where the students get together to toss Frisbees and throw footballs around."

"The maintenance staff goes off about it sometimes — they worry that the grass will get worn down. I tell them, "Let 'em wear it down all they want. That's what it's there for — for the kids to have a good time."

There have been other surprises, too, he says. And some of them go a lot deeper than mangled grass:

"I think we're seeing the beginnings of an overall culture shift — as physical activity has increased because of the Rec Center, it seems to have increased across the campus as a whole. The involvement in club and intramural sports, for instance, is way up from last year. There's more soccer being played, more football being played, you've got rugby games happening on the field in back of Costello [Gym]."

"The center has just brought fitness more to the forefront of everyone's mind. And that's translated to an upswing of activity campus-wide. It's just become more a part of the daily experience, I think."

CSCE Exceeds Revenue Goals Ahead of Schedule

In a slow economy where Boston University and Northeastern are seeing a 30 percent decline in continuing education enrollments, the Division of Continuing Studies and Corporate Education (CSCE) announced it has realized a \$1.9 million in net revenue for FY03. The Chancellor asked CSCE to generate \$1.5 million annually to be used for campus operating expenses beginning in 2006, one of three new revenue streams for the campus.

"We created an accelerated plan to get to the \$1.5 million early," says Dean Jacqueline Moloney. The plan had two parts — to increase net revenues and to decrease spending. CSCE increased the average enrollment per section while raising tuition and added more expensive courses such as online and graduate level offerings. Another area for increased revenue that has continued to grow is corporate training.

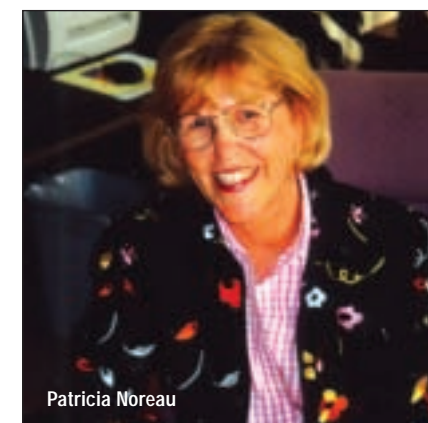
"We shifted the focus of the program. We diversified from information technology to offer more engineering technology and liberal arts courses," says Moloney. "If we didn't have the online program, we would have seen the same 30 percent decrease that BU and Northeastern are facing."

To decrease spending, CSCE cut back on training for faculty, outsourced parts of online technologies and reduced radio and television advertising.

To offset costs further, the Division has sold seats in online training to other colleges and schools such as Roxbury Community College, Bunker Hill Community College, and the Eunice Shriver Center at UMass Medical. CSCE has also received several grants from the Sloan Foundation.

Library's Growing Databases Enhance Student Research Capabilities

The O'Leary Library introduced several new databases this year — along with two new online search tools — in its continuing effort to provide students with access to the broadest possible array of online research material and the tools to make their research more efficient, according to the library's director, Patricia Noreau.



Patricia Noreau

More than 14,000 journals are available in full-text through the more than 300 different databases that the library subscribes to. To provide access to these various databases in the most comprehensive and efficient manner, the library has acquired two new online services: LinkSource and EBSCO's A-to-Z service.

With LinkSource, researchers have access to a comprehensive menu of links related to their search result. The menu can direct the end user to the item itself or to other Web sites to find information related to the article or author.

A-to-Z service provides a single list that researchers can view to find and link to all of the titles available online in the library's collection. In addition, patrons can search the list by title or subject.

"One of the most exciting new

databases purchased this year for our library patrons is *The New York Times* historical database. This database contains complete copies of all issues of the newspaper from 1851 to 2000. The library will add another year annually as it becomes available through the vendor," Noreau says.

Meanwhile, Mitch Shuldman, head of the Division of Media Services, is spearheading a campaign, with the support of Provost John Wooding, to obtain funding for a project that addresses the recognition that students need to develop information literacy skills in order to succeed during and after their college years.

The library proposes to create an Information Literacy Portal that brings together instruction and resources to help students develop their research and critical thinking skills.

Campus - People

A Gift to Asian Children and the Cause of a 'Sainly Man'

Her 50th birthday was coming up. And the last thing she wanted was "a bunch of black candles," or other turning-50 jokes. "(There's this sense people have that, once you turn 50, it's kind of downhill from there.>"). She was hoping, she says, to "do something that wasn't all about me."

So when she read the story in *Parade* about the mountain climber who was trying to raise money to build schools in a remote region of central Asia — she had lived in Asia once briefly, and studied Japanese — it rang an instant, very powerful bell.

"His name was Greg Mortenson," says Asst. Prof. Judy Davidson. "He'd been a climber in Nepal, and had gotten sick in the area, and the locals had nursed him back to health."

I guess he wanted to give something back..."

All this was in a part of the world — Afghanistan, northern Pakistan, the Mongolian steppes, among the remotest regions in the world — where one in three



Dr. Judy Davidson

infants dies before its first birthday and the literacy rate, among males, is less than 6 percent; among women it is essentially zero. It is also a region where radical Islam is preached widely and hatred of the west is endemic; many of the Taliban, and some of Osama bin Laden's al Qaeda, were indoctrinated in the madrassas here.

Against this background, Greg Mortenson, working practically alone, set out 10 years ago to fight ignorance — and the hate that grows like weeds in its wake. The result, by the time Judy Davidson read his story, was four women's vocational centers, 28 primary schools, two school libraries, local scholarships for midwives and eye technicians — more than 8,200 students overall.

So Davidson, an assistant professor in the Graduate School of Education, decided that, instead of gifts or silly cards, she would ask her friends and celebrants to help Greg Mortenson build another school, one of six he was raising money for at the time: the Olding Community School in Olding, Pakistan, 11 miles from the India-Pakistan border, which will be exclusively for girls.

"I was just really happy to have the chance to do it. The way I look at it, Greg Mortenson is a sort of saintly man."

The benefit, attended by UMass Lowell faculty and graduate students as well as friends and family of Judy Davidson, raised \$7,038.

(Anyone wishing to support Mortensen's effort may contact Davidson by e-mail at Judith_Davidson@uml.edu)

Campus - Outreach

Mining for Diamonds in the Classroom and Lab

There are "uncut diamonds," says Paul Wormser, scattered here and there around the UMass Lowell campus. All of them have value; at least a few are "potentially very big." But for one reason or another, he says, "Too many of them are pretty much unknown."

It is Wormser's job to change that. As UMass Lowell's new entrepreneur-in-residence — succeeding Marty Anenberg — it falls to him to see to it that the intellectual resources of the University are discovered, promoted and brought to the marketplace.

"If you're a student or professor, and have an invention, a patent, any sort of resource that could be of practical use in day-to-day life, our role is to bring it to the attention of the commercial world."



Paul Wormser

This is done through the mentorship of the Commercial Venture Development (CVD) arm of the University's Research Foundation, based in 7,500 square feet of office space on the fourth floor of the Wannalancit Mill. In cubicles along the walls of this space, at any given time, are a half-dozen or so fledgling companies that have grown from the classroom ideas of UMass Lowell facul-

ty and students. From each of these ideas — Paul Wormser's "uncut diamonds" — has come a business plan, and from those plans (or at least the chosen ones) have come the workspace, participation and financial support of the CVD.

Wormser's own company, Konarka Technologies, which took life from the idea of a professor in the polymer engineering lab — Dr. Sukant Tripathy, since deceased — was once among those start-ups.

When one company leaves, as Konarka did, another takes its place. Each of them, whatever its differences commercially, meets the same general description: a technology start-up with a need for seed money, a UMass Lowell connection (through faculty, students or both) and a well-conceived business plan.

New Regional Development Team Focuses on Outreach and Research

"Lowell is the one institution in the country that is trying, consciously, to deal with these issues of production and sustainability," said biologist and environmentalist Barry Commoner at the first CITA conference on sustainability in 1997. That mission is often articulated as "economic and social development that benefits the region." For many years now, it has formed the work of a large cross-section of the faculty and staff at UMass Lowell.

Now, Chancellor William T. Hogan wants to capture that campus-wide effort, shape it into a model that will work at other universities, and translate it into practices that will benefit workers and employers in the region. Dr. Edward March and Dr. Selma Botman, as special assistants to the Chancellor, have been asked to spearhead the effort, in close coordination with a



Prof. Selma Botman, special assistant to the Chancellor for regional economic and social development, and Dr. Edward March, special assistant to the Chancellor for regional industrial partnering, make up the university's Office of Regional Development, located in Cumnock Hall.

12-member faculty task force.

"We're facilitators," says March, a former Lucent Technologies director. "We are animating the mission — showing its relevance and connecting it to the regional economy." He and Prof. Emeritus Michael Best are studying industries in the region, especially smaller companies, identifying the types of companies that are likely to drive regional economic growth, so that the University is poised to edu-

cate the workforce of tomorrow.

This knowledge will influence not only the curriculum, but also the University's research priorities. The campus's recent focus on nanomanufacturing — an enabling technology capable of creating whole new industries — reflects the approach.

March is also the external arm of the regional development office. "We are bringing industrial outreach to small and medium-sized companies and startups, where emerging technologies can be used to grow or change their business," says March.

If March is reaching out, Botman is reaching in — into the campus and into the research on regional development worldwide. "I want to build on the good work faculty have already done here and learn from them," says Botman, a former vice president for academic affairs in the UMass President's office who, in addition to her regional development role, has joined the faculty in the Political Science Department. "This is a campus already

connected to K through 12, to the arts, to working with small companies. We're trying to understand it, strengthen it, and figure out the model."

Comcast, 3M Among CSCE's New Corporate Clients

The Division of Continuing Education and Corporate Studies (CS/CE) has obtained four new corporate contracts, including agreements with Comcast and 3M. The contracts combined will bring in over \$100,000 for the Division.

At Comcast, CS/CE is offering customized associate's and bachelor's degrees in information technology through the Information Technology and Mathematics departments

Employees of 3M in Methuen will receive customized certificates in electronics technology through the Engineering Technology Department.

CS/CE has provided training for Hewlett-Packard consistently over the

Congressman Meehan Announces Riverwalk Extension Funding

For faculty and staff who walk the length of the Riverwalk for daily exercise, that workout will take a little longer in a few years, thanks to federal support for an extension of the Riverwalk beyond the Boott Mills.

U.S. Rep. Marty Meehan, class of 1978, has announced an \$800,000 appropriation in the federal budget for site preparation to extend the Riverwalk east from the current Boott Mills end, along the Merrimack River to Mass Mills, down the Concord River and over a new bridge to Lowell Memorial Auditorium, down to the Davidson Street parking lot, and over the river again to the Lower Locks parking garage.

The walkway will include landscaping and interpretive signs. Another \$400,000 is in the federal budget to build a walkway along the Western Canal from Dutton Street to Broadway.



U.S. Rep. Marty Meehan, center, class of '78, recently joined Lowell City Manager John Cox, left, and Peter Aucella, assistant superintendent of the Lowell National Historical Park, to announce federal funding for an expansion of the Riverwalk.

last three years. This past fall, Prof. Stephen McCarthy of plastics engineering conducted a seminar in plastic part design for injection molding at the Indigo Division of HP in Israel.

Rain Bird, a worldwide irrigation manufacturer, also worked with the Plastics Engineering Department. Prof. Robert Nunn gave an injection molding seminar to Rain Bird engineers, production supervisors, managers and quality assurance personnel from their Arizona and California facilities.

Solar-Dried Coffee Has Environmental Perks

If you had a cup of coffee this morning, you are most likely responsible for clearing a patch of rainforest about the size of your coffee mug. That's the amount of forest, in Latin America at least, that is cleared for the firewood necessary to dry the beans required for a cup of coffee.

If, however, you bought a cup of Café Solar® in one of the UMass Lowell dining halls, you probably had no impact on the rainforest at all.

Café Solar is a specialty coffee produced using a solar technology devel-

oped by the Lowell-based Mesoamerican Development Institute (MDI). MDI's founders, UMass Lowell engineering graduates Richard Trubey '85 and Raul Raudales '93 have developed a solar-powered, coffee-drying system that uses renewable energy technology, eliminating the need for the massive blast-furnace dryers typically used. The result is a high quality coffee that is both environmentally friendly and financially viable for farmers and consumers.

While the initial investment in the Solar Drying System is high relative to common alternatives, about \$250,000 per unit, the systems use one-tenth the electricity of conventional dryers and significantly reduce labor costs.

Raudales and Trubey turned to Commonwealth Coffee, owned by UMass Lowell business alumnus Mark Howell '93, to market the product to consumers. Howell's Franklin-based company now roasts and markets Café Solar internationally.

MDI will be dedicating a portion of the sales to fund graduate student research in the areas of trade, technology and the environment. The institute has previously provided funds

for students of Prof. John Duffy, mechanical engineering, to travel to and work in Latin America.

He Rode Perilous Trails To Bring Power and Water To Peruvian Villages

Last year, before the group led by UMass Lowell Mechanical Engineering Prof. John Duffy installed its solar-powered pump, the people of the little village of Huayash in coastal Peru were walking their drinking water a half-mile uphill in buckets from the Culebras River. And even after that, until Hector Valdes and his group arrived to help them, the water was so contaminated with pathogens they had to boil it before it was safe enough to drink.

No more. Now, thanks to the solar-powered pumping system installed under Prof. Duffy's direction last summer, and the water-filtration system Valdes and others completed in January — again, under Duffy's direction — Huayash's villagers have pure water from a common, nearby tank.

Valdes, a 1987 UMass Lowell graduate with a degree in mechanical engineering, and a project manager in the Office of Economic Development, was one of six University staff and students to accompany Duffy on what was his 12th trip to central Peru.

During his two weeks in Huayash, most of his time was spent helping install and service the village's water filtration system.

But there were other duties as well — such as the two-hour trip he took by horseback along mountain ridges to the tiny village of Pilco, to help install a laptop at the school ("You're leaning into the mountain, trying not to look down, watching the hooves of the horse in front of you — thinking, 'One slip here, and it's a long way down.'")



UMass Lowell alumni, from left, Raul Raudales '93, Richard Trubey '85, and Mark Howell '93 set up a display in the Southwick dining hall for Café Solar, an environmentally-friendly coffee they're working together to market. Aramark director Chris Monti, right, says the coffee will be available for purchase in Southwick, McGauvran and Olney halls.



UMass Lowell Project Manager Hector Valdes, right, in Huarmey, with the rest of his team, from left: Jesus Solis, a Peruvian native who has been accepted by UMass Lowell as a graduate student this fall; and Darcy Hornberger and Steven DaSilva, both UMass Lowell students. Together, the group would complete the water-filtration project in the village of Huayash that would make pure drinking water a reality for the villagers.

And the time he went to Malvas to service the school's solar cell system, then looked around to find 50 or 60 villagers trailing him, roughly half of them hanging off the top and sides of a Nissan pick-up driven by the mayor.

"The people, they were always like that — curious, always looking around, always asking questions. They'd be asking after people they'd seen [on previous trips]. 'Where is this guy or that guy? Is he ever coming back? Are you coming back?'"

If he does go back, says Hector, he'd like it to be as a guide or mentor for the UMass Lowell chapter of the Society for Hispanic Professional Engineers, to which he serves as advisor.

"What a great thing that would be for them. They're being trained as engineers—and to be able to use their training like that, getting pure drinking water to people, bringing lights to schools, connecting clinics to the outside world. That's what it's all about, I think."

Campus - Research

Shea, Braunhut and Reinisch Named Researchers of the Year

Three UMass Lowell faculty were honored by their peers with Researcher of the Year awards — an unprecedented three-way tie — at the annual Excellence in Research Day luncheon.

Provost John Wooding declined to break the tie, choosing instead to recognize the achievements of Profs. Thomas Shea, Susan Braunhut and Bodo Reinisch.

Shea, professor of biological sciences, pursues research on cytoskeletal function and nervous system development as well as Alzheimer's disease and amyotrophic lateral sclerosis. He is particularly interested in the metabolic effects of oxidative stress and has been developing anti-oxidant and pharma-

ceutical formulations that delay the progression of cognitive decline.

Braunhut, professor of biological sciences, has three patents pending and is co-inventor of the Smart Bandage™ with Prof. Kenneth Marx of the Chemistry Department. Her research focuses on the rapid diagnosis of cancer and the risk of metastasis, along with testing of new approaches to cancer treatment and the search for new therapies that will shut down blood supply to tumors.

Reinisch, professor of environmental, earth and atmospheric sciences, established the first research center at the University in 1975. Using advanced radio technology, he has conducted research on the structure and dynamics of the ionosphere — leading to better long-distance radio communication and over-the-horizon radar systems. His team then used the technology in a NASA satellite to measure the plasma of the magnetosphere, yielding data for more than 30 papers to date.



Three UMass Lowell faculty were honored with Researcher of the Year awards in an unusual three-way tie. Selected by a committee of their peers were, from left, Profs. Thomas Shea and Susan Braunhut of biological sciences, and Bodo Reinisch of environmental, earth and atmospheric sciences.

By Jack McDonough

Alums Say: Enrolling in the SRT Program Was a Sound Decision



When he was 9 years old he began playing the guitar.

"I had an older friend who took lessons and he inspired me. I wanted to do the same thing," Jim Mitchell says today.

Later, as a student at Marlboro High School, he played in bands that performed at school dances and weddings and proms. But he did more than play guitar. He started operating the PA systems "to make sure the band sounded right."

Then he began working on sound systems for other bands and, in his senior year, he'd go into studios in Boston with them when they cut demos.

"I fell in love with the process. I wanted to do that," he says. "I wanted to focus on recording."

So it was that in the early 1980s, Mitchell enrolled in the fledgling Sound Recording Technology (SRT) program at the University of Lowell and came under the tutelage of a "brilliant guy" named Will Moylan.



Jim Mitchell

Mitchell says he marveled at Prof. Moylan's "concept of sound and how it's created and reproduced in the recording process."

Since the program was just starting out, Mitchell had the opportunity to help build some of the recording and

editing facilities on the second floor of Durgin Hall – an experience he found enriching.

That experience, plus the "really tough" academic program that included almost as many technology courses as music courses, paid dividends.

Now an independent producer and engineer in California, the 41-year-old Mitchell has worked on movie scores (*Naked Gun*, *Inner Space*, *Gorillas in the Mist*); television shows ("Dynasty, Cheers", "Star Trek – the

"I've always thought of SRT as a bridge between the traditions of music and engineering. It's a wed of art and technology." — Will Moylan

Next Generation"); has co-produced and engineered "almost everything" for Guns and Roses; and has built recording facilities for Duff McKagan and Slash of G&R, and for the group Black Crowes.

Most recently he engineered four of the songs on Warren Zevon's album, *The Wind*, which won two Grammys.

Mitchell's success wouldn't have come as any surprise to Moylan, chair of the Department of Music and coordinator of the SRT program.

As the Department's Web site states, the goal of the program is "to produce a musically sophisticated and sensitive professional, with sufficient technical knowledge to excel in today's production industry and to easily keep pace with its rapidly changing technology."

"I've always thought of SRT as a bridge between the traditions of music and engineering. It's a wed of

art and technology," says Moylan, who came to the University in 1983 to direct the newly founded SRT program.

"My first job," he says, "was to get the program to the point where it could be approved by the National Association of Schools of Music (NASM). I had to reshape the curriculum so that it was accredited, and also to reach out to other departments — like physics, electrical engineering and math — to make sure SRT had their support.

"At the same time, we had to develop recording studios. We had some equipment but none installed. I was given a room and a certain amount of equipment, and I enlisted a group of students to install the first studio."

One of those students was Bill Carman, who says, "When we built one of the first real recording studios here, I was around and helped out during the summer for no pay — just to learn from the people who were doing it."

Carman had arrived on campus in 1977 as a music education major. But when Proposition 2-1/2 virtually eliminated arts education in public schools two years later, the department's enrollment dropped from about 650 students (including graduates) to about 200.

"I changed my degree to performance from education," Carman says, "and then one day it occurred to me to find out what else was out there."

He ended up enrolling in engineering as a dual major.

"I liked the technology behind some of the things happening in music and realized that I was homing



Photo courtesy of Lowell Sun

Prof. Will Moylan, left, and Bill Carman in the Music Department's new Critical Listening and Recording Studio in Durgin Hall.

in on an audio engineering degree, although that degree didn't exist at the time. I just kind of did it."

With more than 220 credits in two majors, Carman received his degree in 1984 after seven years of study. He was the University's first SRT graduate.

After graduation, he worked for a company that built sound systems, while working part-time at the University, maintaining the SRT facilities. In the fall of 1987, he returned to the campus full-time. Today, as associate director of SRT facilities, he oversees "everything to do with the facilities here — management, maintenance and development."

In the beginning, says Will Moylan, there were some major hurdles.

"A lot of it had to do with the faculty's understanding and sensitivity regarding the way in which technology fit in a school of music. That concept came easily to some but was a disconnect for others. But I'm happy to say that, by and large, they accepted SRT as a central program in the department."

Also, SRT was seen as a way to restore the school's enrollment following the devastating effects of Proposition 2-1/2.

"The enrollment grew quickly and substantially," Moylan says, "partly because it was designed to attract students from across the country."

At first, the program had just a handful of students, many of whom found themselves in it because they didn't think other programs were right for them.

"Not many who thought they were SRT majors when I came here actually graduated," he says. "I shaped a curriculum that was going to provide students with a strong musical background and an understanding of

"Our full-time faculty members are respected teachers, published authors and national figures in audio education."

— Will Moylan

science and engineering, and a math background that would give them the ability to use technology as a musical instrument. We look at the recording process as a way to create and shape art."

The reason for the emphasis on math and engineering, Moylan says, is to assure that graduates will be able to keep pace with change.

"I'm more concerned about people being able to re-educate themselves

when they're 30 and all the technology they learned at 22 is obsolete. That's how you shape someone's future."

The program was designed to make it possible for graduates to distinguish themselves on the national level in the recording industry.

"From the beginning," Moylan explains, "the program had a national vision and, because of that our graduates have made a terrific impact. They've taken on some of the strongest positions here in the region and in the recording industry across many sectors, nationally and internationally."

One such graduate is Keith Salvucci '91.

The Braintree native says he chose Lowell because of its value and reputation.

"It wasn't a party school. It was serious and you could go there and get a good education. Unlike some

other music schools, there were classes outside of music. You could go to the engineering school and get cross training."

That's exactly what Salvucci did. He earned a bachelor's degree in SRT, and a B.S. in electrical engineering.

"SRT exceeded my expectations," he recalls. "It was very tough, too. It required a unique blending of the creative and technical sides of the

brain for one purpose. You didn't just play an instrument all day.

"I liked the camaraderie between the teachers and the students. Music is a subject that requires group collaboration. It teaches you how to work successfully with people, and that's paid off throughout life, and not just in work."

Now a senior engineer with Apple Computer in California, Salvucci was an intern at Avid Technology while an undergraduate and then worked there full time for nine years.

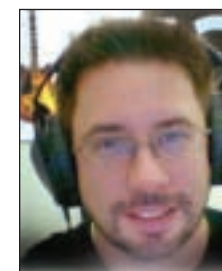
According to Moylan, there were only a handful of programs elsewhere in recording-related studies when the SRT program began at Lowell.

Now there are about 200 trade and liberal arts schools that train people in programs that range from six weeks to four years, he says.

"But programs that have the intense focus on the breadth and depth of recording that we require are rare. We're seen as the best or one of the two best in the country," he says.

The enrollment of SRT majors ranges from 120 to 140, and about two dozen graduate each year.

"The number of graduates — 22 to 25 — is really the maximum we can provide a quality education for. We haven't had to impose a cap on enrollment because attrition takes care of class size. It's a very rigorous program that demands many different skills."



Keith Salvucci

Any rigorous program that provides a quality education requires a top-flight faculty. That, according to Moylan, is exactly what SRT has.

"Our full-time faculty members are respected teachers, published authors and national figures in audio education," he says. "They remain current with audio techniques and production techniques, and often assume production projects of significant scope and quality."

"And we have a very strong adjunct faculty — people who specialize in very defined segments of industry. Many come here to teach just one course because they are passionate about what they do."

In addition to engineering and other required course work, students must play an instrument or sing with proficiency for six semesters.

This past school year, the program opened its new Critical Listening and Recording Studio in Durgin Hall. Ten years in development, this \$500,000 facility enables students to hear the idiosyncrasies in sound without the distortion usually associated with sound reproduction equipment. In recording, students are able to capture the exact attributes of a particular instrument or voice.

Sound reproduction in the room is "nearly perfect in its accuracy," says Moylan.

In addition to serving SRT students, the new studio also will be a central fixture in the department's

master's degree in music program that will be launched in the fall of 2005.

Moylan says that with the new room he also hopes to create partnerships with some major production companies and manufacturers to conduct significant research related to production techniques, and to carry out some fundamental research in the use of technologies for artistic expression.

This spring marks the 20th anniversary of the SRT program's first graduation. It was a small ceremony. Bill Carman was the sole member of the Class of 1984. In the two decades since then, the program has placed some 400 alums in the music and recording industry across the country.

"Professionals in the industry contact us all the time," Moylan says. "Our students are highly sought after as interns. And we get a lot of calls from companies looking for employees."

It appears highly unlikely that the demand for SRT graduates will diminish in the future, either.

"More music is heard today than ever before in the history of civilization and almost all of it is recorded. The recording process shapes and changes music and alters the sound of performance," Moylan says.

"Music schools should be places where we educate people to make recordings. That's the difference between music schools of the 21st century and those of another era."

By Ken Lyons

Answering Prayers for the Acoustically Challenged

Ask any architect and you'll get the same answer: Trinity Church in Boston is a masterpiece of American architecture.

But ask an audio engineer about the Copley Square landmark and you may get an entirely different reaction.

"It's a big, cavernous space with rambling beams and granite outcroppings," says James Berlo '87. "Architecturally, it's breathtaking; acoustically, it's a nightmare."

Berlo works for Shanahan Sound and Electronics, Inc. of Lowell as an audio/video engineer, along with fellow Sound Recording Technology (SRT) alums Shane Riley '03 and Chris O'Brien '01. Last year, in conjunction with a \$42 million renovation, the team was hired to install an entirely new audio system at Trinity Church. The project is a massive overhaul of both sight and sound.

"It was clear from the get-go that we'd need to give this place a complete makeover," says Berlo. "But that's what we do: we solve sonic puzzles."

Together, the trio has supplied audio therapy for the offices of Monster.com and Cheers in Faneuil Hall. But their specialty is historic churches, where keeping up appearances is crucial.

"One of the biggest challenges with Trinity was to preserve the artistic integrity of such a famous landmark," explains Shane Riley, who joined Shanahan after graduating from the SRT program. "For that, we designed an innovative



A trio of SRT alums — from left, Shane Riley, Chris O'Brien and James Berlo, of Shanahan Sound and Electronics — have designed and are installing a "heavenly" sound system in Boston's historic Trinity Church.

audio system that was highly-functional, yet camouflaged."

During the design phase, the team knew it needed to keep all sound away from reflective surfaces. In large rooms like the sanctuary at Trinity, sound bounces off walls and ceilings, creating acoustical snags, like "dead spots" or "flutter echoes." To remedy this, the techs used sound-shaping speakers.

"We chose Intellivox speakers because they give us the ability to control the length and direction of the sonic beam, using software and a laptop. These speakers are hung from the ceiling, yet we can redirect the audio characteristics from the ground," explains Riley. "That's what I love about this job: the technology is amazing."

Equally challenging was that Trinity is a musical church. Every year, The Trinity Choir, a group that records professionally and tours extensively, tapes a number of live performances there.

"It was crucial we devise the best live recording

scheme," Berlo says. "We decided to hang a number of ambient microphones from the ceiling, which will capture the crowd of choral voices as well as the natural reverb of a live concert."

The Trinity Church audio undertaking is an enormous two-year project, and the trio of engineers from Shanahan Sound is committed to giving parishioners what they call "a multi-sensory worship experience."

"When we're finished, Trinity will have this killer state-of-the-art audio system," says O'Brien. "Our goal is for the quality of the sound to rival the spirit of the setting."



ALUMNI HOLIDAYS® 2004 TRAVEL PROGRAMS

THE UNIVERSITY OF MASSACHUSETTS, LOWELL INVITES YOU TO TRAVEL WITH ALUMNI AND FRIENDS ...

All inclusive
Land Programs

Alumni College in Spain - Castile

June 29 — July 7, 2004

Experience the splendor and history of Castile and UNESCO *World Heritage Sites* from the ancient city of Ávila.

Land-Only Program: Only \$1,695*

V.A.T. is an additional \$95 per person, subject to change.

Air-Inclusive Program: Only \$2,595* from Boston

**All prices are per person, based on double occupancy.*

Alumni College in Provence

August 17 — 25, 2004

From the ambience of Aix-en-Provence, experience this magnifique region of dazzling light in southern France.

Land-Only Program: Only \$1,895*

V.A.T. is an additional \$95 per person, subject to change.

Air-Inclusive Program: Only \$2,895* from Boston

Alumni College in Sicily

September 18 — 27, 2004

An inspiration to writers and artists, discover the mystique of this Mediterranean island from the hilltop town of Taormina.

Land-Only Program: Only \$1,795*

V.A.T. is an additional \$95 per person, subject to change.

Air-Inclusive Program: Only \$2,595* from Boston

For further information please contact
University of Massachusetts-Lowell Office of Alumni Relations
600 Suffolk Street, Lowell, MA 01854 978-934-3140



Make this the year to reconnect with your alma mater! Call your college friends and roommates and join us on campus, visit your favorite haunts and see the fabulous changes to the campus facilities.

Fall Festival 2004

Fall Festival 2004 October 15-16

Reunions for 1954 (50th) Lowell Tech and State Teachers, 1964 (40th) Mass State College at Lowell and Lowell Tech, 1979 University of Lowell (25th)

Some highlights of the Festival include:

- Golden Alumni Reception
- Campus Tours
- Mill and Canal Tours
- Class Reunion Dinners

We have reserved a block of rooms at the Doubletree Hotel in Lowell for \$79 plus tax per room per night. Make

your reservations as soon as possible and no later than September 10th, (978) 452-1200. You must identify yourself as a UMass Lowell alumnus/a to receive the special group rate. To obtain more information, call the Office of Programs and Alumni Services, toll free (877)UML-ALUM or email us at Alumni_Office@uml.edu or visit us at www.uml.edu/alumni

By Geoffrey Douglas

'A Little Gem of a Theatre' — and So Much More

It was the spring of 1979, a time of revival for the city. The University of Lowell was three years old; the National Park was brand new and thriving. Wang Labs was opening its national headquarters here; a native son, Paul Tsongas, had just been elected U.S. Senator.

That was the spring Nancy Donahue and some friends had the thought: "Wouldn't it be great to have a theatre in town?"

So they formed a board — all local people, including John Duff, then president of ULowell — drew up a plan and a budget and began raising money. "We walked the streets, we went to the banks, we made phone calls to friends, we did whatever we could," says Nancy Donahue today. "And in September we opened. Our first production was *Dracula*."

So was born the Merrimack Repertory Theatre — "a little gem of a theatre," as Nancy still likes to say. Its budget that first year was \$87,000. That covered the sets, the actors, the costumes, an art director and managing director — but not the rent, which was free, courtesy of ULowell's donation of space in Mahoney Hall.

"Everybody did everything," Nancy remembers. "The director shoveled walks, the board members sold tickets — whatever needed doing, we did."

The MRT's first holiday offering was *A Christmas Carol*, followed by *Romeo and Juliet*, *The Glass Menagerie*, *Same Time Next Year* and *Vanities*. All of them with full sets and costumes, a professional director and an Equity cast. At the same time, says Nancy, "there were volunteers everywhere you looked, and all sorts of in-kind help — not to mention the free rent. It may not have looked like it to everyone who came to our plays — they were well-performed, professional productions — but we really had to hustle those first years."

It's been a quarter-century since then — and, as the saying goes, the more things change, the more they stay the same. The MRT's budget today is in excess of \$1 million, 12 times what it was in those early, heady days. The rent is still free — though the theatre is housed today in a city building, and there are now separate quarters for rehearsal space, costume space and actors' living quarters, and separate programs for kids. But there are still six high-quality, professional productions a year; fund-raising is still an uphill fight ("We raise 30 to 40 percent [of the budget] through ticket sales. For the rest we have to rely on donations.") and Nancy Donahue is still a member of the Board (she is currently its chair).

The theatre, like any other successful enterprise, has had its share



Nancy and Dick Donahue

of the problems that come with growth. Burst pipes in a set shop in Lawrence during a winter freeze not long ago, resulted in a "huge loss" of both time and money; an actor's broken ankle several years back caused a show to be cancelled, costing the theatre \$55,000 in lost ticket revenues. "There are so many things that can go wrong," says Nancy. "Sometimes it feels like the 'Perils of Pauline'..."

But in the end, she says, one way or another, the show must go on. "You raise the money however you can, whatever it takes to get that curtain to go up. Because we're not making widgets here, we're producing art. You can't cut the cast of a Shakespeare play from 12 down to six just to make up some lost dollars."

"Producing art" in Lowell is much of what Nancy Donahue has been about these past 25 years. Even before the MRT, there was the ULowell Foundation — established by the University's president, John Duff, to enhance the city's cultural image — which, thanks in large part to Nancy's efforts, raised the funds that made Durgin Hall a New England entertainment mecca. Isaac Stern, Yo Yo Ma, Marcel Marceau and the Moscow Pops were only some of the names who performed there in the late '70s and early '80s.

"We just found out the names of their agents, called them up and got them here," she says today — discounting all the patience, fund-raising marathons, i-dotting and t-crossing that must surely have gone into the task.

But it's been more than just theatres and theatrical productions. Nancy Donahue has been involved with the Textile Museum since before it moved to Lowell from Andover, and sits

today on its board, as well as the boards of Lasell College and Lawrence Academy. The Quilt Museum, one of only five such housed collections in the U.S., owes its existence here in large part to the small group of locals of which Nancy was a part. And both she and her husband, Richard K. Donahue, sit on the board of Lowell's Whistler House, which Nancy describes as "one of the more underappreciated places I could name."

Dick Donahue, for his part, in addition to his lengthy stints in both private industry and national government — he is a former president of Nike and a member of the White House staff during the Kennedy administration — also served during

the 1980s as chairman of the board of ULowell and was president of the Massachusetts Bar Association and a member of the Board of Governors of the American Bar Association. He is today chairman of the Greater Lowell Foundation, and was among its founders. He is also a member of the board of Boston's John F. Kennedy Library Foundation — which, on St. Patrick's day of this year, was poised to name him "Irishman of the Year."

The Donahues between them, it is safe to say, have donated more time, generated more energy, raised more dollars and sat on more boards than perhaps any two people in the city's recent history.

"Nancy and Dick Donahue have been invaluable as benefactors to the arts, both for the University and the region as a whole," says UMass Lowell Chancellor William T. Hogan. "Between their financial support and the gifts of their time and energies, we have seen so many creative, uplifting new programs created."

Their financial generosity has been just as remarkable — more than

\$230,000 given to UMass Lowell over the past decade alone, much of it earmarked for the arts. The Charles Dickens Memorial Scholarship, the Mary Jo Leahey High School Band-Camp Scholarships, the Leo F. King Scholarship Fund, the Inner-City Scholarship Fund, The UMass Lowell Center for the Arts.

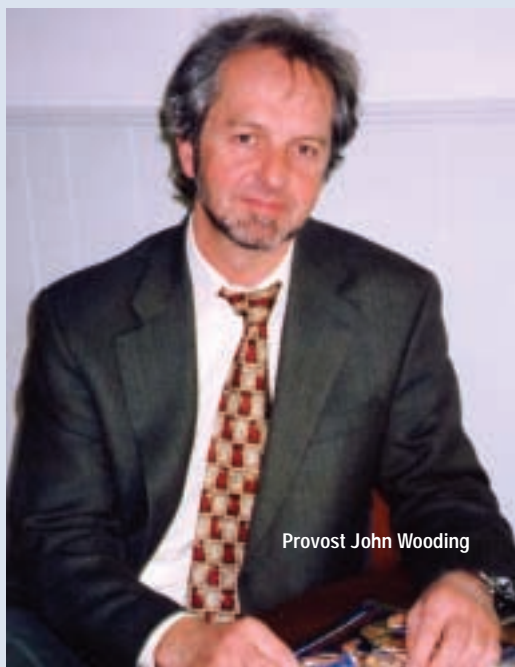
"Nancy and Dick Donahue exemplify the philanthropic spirit that's been the force behind this city's resurgence," says UMass Lowell Executive Director of Advancement Matthew Eynon. "Without their leadership and generosity, the arts in Lowell — the MRT, the Center for the Arts, the STARTS Program and Discovery Series for kids — would be poorer by far."

When Christine Brown first came to Lowell in 1986 to take up her new post as community outreach coordinator, Nancy Donahue was among the first people she met. ("I learned so much about this community through her," recalls Brown today.) The two talked, among other things, about the Adventures in Music (AIM) series Nancy had started as part of her work with the ULowell Foundation. Partly as a result of their talks, Brown resolved to launch the Discovery Series for families — "as a way to continue the tradition." Nancy Donahue not only endorsed the idea and supported it financially; she volunteered her time as an usher.

"The name Donahue is synonymous with the arts in Lowell," says Brown, who today is director of the UMass Lowell Center for the Arts — which recently announced a gift of \$25,000 from the Donahues, with a commitment for \$50,000 more.

"Nancy and Dick are believers in the power of the arts to transform and illuminate the lives of our people, from the youngest to the oldest. And their believing has made such a difference for so very many of us."

By Paul Marion



Provost John Wooding

John Wooding Talks

footing and are moving forward.

As one of the founders and the first chair of the Department of Regional Economic and Social Development (RESO), Wooding helped create one of the first interdisciplinary departments on campus. Early on, the faculty, students, and staff of RESO identified ways to apply their knowledge and disciplines to the principles inherent in UMass Lowell's mission to support sustainable regional development. He brings his deep understanding of the mission as well as his faculty-based insights to his new job.

"I'm enormously excited by the opportunity I've been given and consider it a profound privilege to be the provost," says Wooding. The Provost's Office is responsible for numerous campus activities, from faculty and libraries to student services and the University police. "In the past ten years, the University has gained enormous strength as a result of the heightened engagement between faculty and staff, as well as between the University and the community as a whole."

A graduate of the London School of Economics and Political Science, Cornell University, and Brandeis University, Wooding has been at Lowell since 1987. He was a trainer and curriculum developer on the hazardous waste worker-training

project when it started in the Department of Work Environment. He taught political science for more than ten years, served on countless committees, and, as mentioned above, helped organize RESO.

The co-author of *Work, Health and Environment* (1997) and *The Point of Production* (1999), Wooding also has written and co-authored numerous articles about occupational health and safety regulation and the environment. He is a contributing author of *Approaches to Sustainable Development: The Public University in the Regional Economy* (2001) and *Globalization, Universities and Issues of Sustainable Development* (2002). He serves on the editorial boards of several publications and co-edits a book series with Prof. Emeritus Charles Levenstein. Wooding lives in Medford with his wife, Joan Parker, whom he has known since his days at Cornell.

Discussing his new role, he says, "A university is about an education, and education is about creating tolerant, thoughtful, and reflective human beings who understand they can't live alone in the world. From the moment we wake up to the time we go to bed, we depend on other people.

About Skills, Joy, and Responsibility

"We do a good job of providing our students with a set of skills that will allow them to start a career, make a living, and lead decent lives.

"Part of our goal is to provide access to knowledge that encourages students to think of themselves as part of society," he adds, "with responsibilities, and all the joy and excitement that comes along with that sense of belonging to something larger.

"The only way to have a vibrant social system that represents everyone is to have members of society who are thoughtful and willing to tolerate not always getting an immediate solution to a problem," he says. "We should teach our students not how to get simple answers to

The second will be a function of the first: to strengthen the basic research environment that exists already, and expand the means through which it's generated and the way the bridges are built between disciplines and the various centers and institutes.

The third focus will be to "maintain and improve our engagement with the community throughout the Merrimack Valley in both the social and economic areas," says Wooding. There are still-untapped lines of communication that need to be explored and developed, he explains, while those that exist must be nurtured.

"As teachers, colleagues, and members of the community our-

"The larger question here," he continues, "the question that goes to the core of our role in the region, is this — What is the broadest interpretation of sustainability, concerning both UMass Lowell and the region, that can meaningfully be applied? This means, I think, technological advances, the support and encouragement of economic development, the provision of skills to our students to enable them to get jobs and careers. But, more than this, it means the generation of thoughtful and compassionate human beings who can help build vibrant communities."

The final priority, Wooding says, may be the most basic: it is to "maintain our commitment to providing the best possible access to public higher education and to continue the highest quality research and teaching.

"We need to build on all four of these areas," he says, "both in our daily campus life and our undergraduate curriculum, in an effort to engage both faculty and staff in developing the persona of the university as one that will be attractive to potential students and gain national attention for the extraordinary work going on at Lowell."

"The question that goes to the core of our role in the region is this — What is the broadest interpretation of sustainability, concerning both UMass Lowell and the region, that can meaningfully be applied?"

— Provost John Wooding

complex problems, but rather how and where to find real answers to those problems."

Asked to define the nature of the challenge ahead, Wooding cites four priorities. The first, he says, will be to "build on the interdisciplinary research and teaching that has developed here over the past ten years."

selves, this campus has an obligation to meet the needs of the student body and the diverse community in our midst," says Wooding.

"That diversity on campus and in the region is its strength. The education that goes on here should never only be classroom based — it's education in life, and needs to engage students in real world applications.

Ludwig Rebenfeld '51 Has Woven a Successful Career in Textiles and Hair

By Jack McDonough

The Textile Research Institute (TRI) in Princeton, N.J., was heavy into the study of wool during the 1970s when Ludwig Rebenfeld '51 was its president and director.

But that work dropped off sharply when both government and industry cut back significantly on funded research.

Given that situation, Rebenfeld had an idea. Why not, he thought, change direction slightly and concentrate on the study of hair?

"The structure of wool and hair is virtually identical," he says, "so the staff and I decided to approach the hair industry and the chemical industry that supplied hair products and offer to do research in their field."

Despite the lack of funding in other areas, the study of hair caught on.

"It took a while to become entrenched but we eventually succeeded and that work has been underway ever since," he says.

Rebenfeld's career began to take shape in 1947 when the New York City high school graduate was awarded a scholarship by the New England Textile Foundation and enrolled at the Lowell Textile Institute.

Four years later, with his bachelor's degree in textile chemistry in hand, he headed to Princeton University to earn a doctorate on a graduate fellowship that TRI offered to chemistry and chemical engineering students. He conducted research for his doctoral thesis at the Institute, joined the staff in 1954, and was awarded a Ph.D. in organic chemistry in 1955.

During the ensuing years, he published widely on topics dealing with

polymers and fiber materials and was recognized with the Fiber Society Award for Distinguished Achievement in Fiber Science, the Harold DeWitt Smith Memorial Award from the American Society for Testing and Materials, and the Olney Medal from the American Association of Textile Chemists and Colorists, among others.

In 1971, he was named president and director of TRI, a post he held until his retirement 22 years later.

The hair research that began under his direction in that decade continues today.

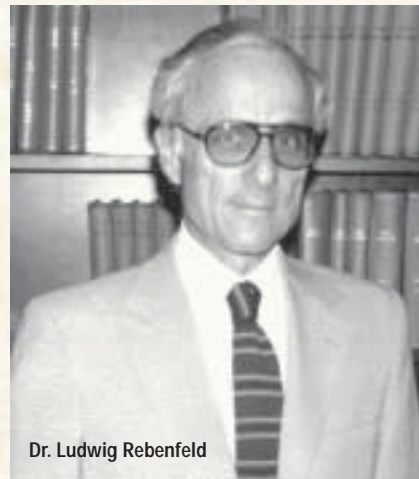
"There's a great deal of interest in the hair research field," Rebenfeld says, "especially from the point of view of chemical companies that supply the compounds used in hair care. The population of the world spends a tremendous amount of money — billions of dollars — on the treatment of hair."

Problems arise, he says, because many treatments are potentially very damaging to hair.

"The chemical companies must constantly formulate and reformulate treatments to minimize any deleterious effects. So the companies are very interested in research in that field to maximize their products' performance and minimize any negative consequences."

TRI is supported by annual fees paid by member companies — those dealing primarily in chemical products, paper, textile, fiber and other materials. The roster includes companies such as Johnson & Johnson, Avon, Procter & Gamble, and Henkel.

"Their membership gives them the right to participate in projects," Reben-



Dr. Ludwig Rebenfeld

feld says, "and to have projects undertaken for them on an individual basis."

Rebenfeld served as a lecturer with the rank of Professor in Chemical Engineering at Princeton from 1965 to 1998. He also is president emeritus of TRI and edits the monthly *Textile Research Journal*.

On the occasion of his retirement, one of the buildings on TRI's 18-acre property was named in his honor.

While he doesn't work at it full-time, he says the editing job is "a pretty heavy load." Material for the journal comes from research groups all over the world.

In 1990, Rebenfeld attended commencement ceremonies at the University of Lowell, at which time he received a Distinguished Alumnus Award. He returned to the campus in 2001 for his class's 50th anniversary.

"It was good to see some old friends, and the campus is certainly different from what I remembered in my undergraduate days," he says.

River Ambassadors: Bringing Teens Closer to Their World

By Geoffrey Douglas

It began seven years ago, in August of 1997, with a hundred or so high school student-volunteers from Lowell helping out at the city's annual Southeast Asian Water Festival. They enjoyed themselves, apparently. In any case, they wanted to do more.

And so they have. Today, under the guidance of the UMass Lowell Center for Family, Work and Community (CFWC), there is almost nothing they don't do. If it takes place anywhere near Lowell and involves the environment — water quality, trash clean-up, composting, recycling — the River Ambassadors are likely to be there.

There have been 300 of them, more or less, over the past seven years: Lowell teens, most of southeast Asian origins, who have formed an alliance with the environment, with the city and with each other, to raise awareness of the land, the water and the air. In the process, say those involved, they have formed a connection to the world community, as well as to the traditions of the cultures from which they come.

"This is a chance for the students to learn about topics they wouldn't necessarily have the chance to learn about in school," says the CFWC's Sokny Long, a co-advisor to the River Ambassador program. "And it's been a chance to form a lot of great partnerships— with the National Park, for instance, and with the University — that just wouldn't have happened otherwise."

Long's position, like that of her colleague Khan Chao, who has been with the program since its inception seven years ago, is funded through a grant from the National Institute of Environmental Health Science (NIEHS). Over the course of the seven years that Chao has been involved, the River Ambassadors' initiatives, which began with the '97 Water Festival, have widened to include a range of activities as broad as the environment itself. There have



been river clean-ups, environmental camps, neighborhood revitalization projects, a "Power of Youth" talent show, asthma puppet instruction forums, environmental-awareness presentations, a public-access TV show, and — on Earth Day (April 22nd) this year — a youth-led, multi-media stage show highlighting everything from the hazards of smoking to the dangers of mercury in fish. There was a live on-stage re-enactment of the catastrophe at Love Canal; at last year's Lowell Folk Festival, The River Ambassadors joined a program of recycling and composting the trash.

"This is a chance for the students to learn about topics they wouldn't necessarily have the chance to learn about in school." — Sokny Long

But perhaps as important as the environmental education all this has given rise to among the students—or the many small benefits to the environment itself—has been the bridges it has built between the students and their community, as well the exposure it has fostered to a world far wider than Lowell.

A recent initiative, for instance, also funded by the NIEHS, brings together a community development corporation (the Coalition for a Better Acre),

UMass Lowell's CFWC and the Lowell Community Health Center, in an alliance with local immigrant leaders to identify and address issues of environmental health. The program, called New Ventures, of which River Ambassadors is a part, "cannot help but raise the awareness" of the community, says Khan Chao.

Another recent development has been the creation of a UMass Lowell scholarship, dedicated to the memory of Savoeun Chea, a River Ambassador killed in a car accident, that will be given to a local student with a history of community service.

"The combination of all of this," says Chao, "makes the students more aware, not only of the value of education in general but of the importance, and possibility, of college..."

"Whether they go to UMass Lowell or to a community college or somewhere else, just the idea that we've helped expose them to this—to the idea of a university education—is very encouraging."

Corporate Education, 2004: 'A Whole New Way of Partnering'

By Geoffrey Douglas

Gillette. Hewlett-Packard. Dell Computer. Comcast. 3M. Honda. Lucent. Raytheon. Medtronic. ITT. Each is worth billions. Most are among the Fortune 500. All are industry leaders. At least two — Lucent and Hewlett Packard — have been run by a woman CEO. But there is another link as well.

All 10 of these companies, and more than two dozen others over the course of the last two years, sent their employees to be trained by UMass Lowell faculty.

All told, more than 1,600 personnel were enrolled in just under 100 separate UMass Lowell courses. Classes were held throughout New England, the nation and the world — from Comcast in Chelmsford to Dell Computer in Texas and Hewlett-Packard in Israel, Mexico, Singapore and Spain.

And for the University, this has been a rich revenue source: nearly three-quarters of a million dollars in the academic year that ended last June.

"We've always had a corporate outreach mission," says Catherine Kendrick, director of marketing development for the Division of Continuing Studies and Corporate Education (CSCE). "But never more than now. We're hearing from more and more companies with every month that goes by."

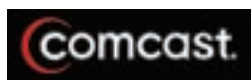
Up to now, most of the need has been in engineering and IT, with faculty from plastics engineering, mathematics and engineering technology the most commonly called upon. But computer science has also been involved, as has the Art Department. And among CSCE's current initiatives is the expansion of training into biotechnology, pharmaceuticals and medical devices. The "softer" fields of grant writing and leadership management, says Kendrick, have also drawn some recent calls.

"Workplace training is an emerging trend. Our faculty are a rich resource, both for the University and for the region as a whole. This can only continue to grow."

But there's more to it than simply workplace training. Projects undertaken jointly by the University and some of the region's larger corporations have produced a wider sense of the UMass Lowell mission, as well as something approaching a genuine



The CSCE's Cathy Kendrick, right, and Jacqueline Moloney review the latest rankings from the *Boston Business Journal's* 2004 "Book of Lists," in which the Division was ranked as the 10th largest software trainer in Massachusetts for the fourth consecutive year.



synergy. Wilmington's Analog Devices, for example, is a company that drew much of its early success from a joint economic partnership with the University's Research Foundation, then later entered into an agreement with it for delivery of a complete onsite portable lab facility. In late 2003, UMass Lowell was awarded a contract to deliver 12 onsite manufacturing modules to OFS Fitel in Sturbridge, and another to develop a customized Oracle program for the BAE Corporation in New Hampshire.

And the University, meanwhile, continues to develop its presence at corporate education fairs at Fidelity, Hewlett-Packard and Lucent Technologies — as well as to widen its presence as a corporate educator. Not long ago, it submitted a proposal to provide educational services, which would include a customized-degree program, to 55,000 Comcast employees.

"The University is approaching these companies with a whole new way of partnering," says Jacqueline Moloney, dean of Continuing Studies and Corporate Education. "Corporate education is only one ingredient in this. There are joint research opportunities, as well as internships and other dimensions of the educational pipeline."

"The idea is to present the University as more of a full-service institution — to open the eyes of area businesses to the expertise we have to offer here."



The Graduate School University of Massachusetts Lowell

Quality Graduate Education at an Affordable Cost

100+ Areas of Graduate Study
31 Master's Degree Programs
15 Doctoral Degree Programs
39 Graduate Certificate Programs
.....unlimited possibilities

1-800-656-GRAD • www.uml.edu/grad • graduate_school@uml.edu

GRADUATE STUDIES AT UMASS LOWELL

- | | | | |
|---|--|--------------------------------------|--------------------------------------|
| Adult Psychiatric Mental Health Nursing | Domestic Violence Prevention | Human Services | Peace/Conflict Resolution |
| Analytical Chemistry | Dynamics/Systems/Controls | Industrial Hygiene | Physical Chemistry |
| Applied Mechanics - Physics | Ecology | Inorganic Chemistry | Physical Therapy |
| Applied Statistics | Economic & Social Development of Regions | Infrastructure in Developing Nations | Physical Therapy Advanced Practice |
| Atmospheric Sciences | Education: Curriculum and Instruction | Internet and Web Systems | Physics |
| Biochemistry | Education: English as a Second Language | Leadership and Policy Development | Plastics Engineering |
| Bioinformatics | Education: Language Arts and Literacy | Mgmt. Science in Manufacturing | Pollution Prevention |
| Biological Sciences | Education: Leadership in Schooling | Marine Boundary Layers | Polymer Science |
| Biomedical Engineering & Biotechnology | Education: Mathematics for Teachers | Marine Sciences & Technology | Radiological Sciences |
| Biomaterials | Education: Planning & Policy | Materials Science and Engineering | Radiological Sciences & Protection |
| Bioprocessing | Education: Reading & Language | Mathematics | Regional and Community Development |
| Biotechnology | Education: Teacher Certification | Mathematics & Science Education | Remote Sensing |
| Business Administration (M.B.A.) | Educational Administration | MBA | Robotics |
| Business, Technology, and Policy | Electrical Engineering | Mechanical Engineering | Scientific Computing |
| Cellular Biology | Energy Engineering | Medicinal Chemistry | Scientific Visualization |
| Chemical Engineering | Energy/Environmental | Molecular Biology | Social and Historical Analysis |
| Cheminformatics | Environmental Chemistry | Music | Solar Energy |
| Chemistry | Environmental Engineering | Music Conducting | Solid Mechanics/Materials/Structures |
| Civil Engineering | Environmental Policy | Music Education | Statistics & Operations Research |
| Cleaner Production | Environmental Studies | Music Performance | Storage Area Networks |
| Clinical Chemistry | Epidemiology | Music Teaching | Structural Engineering |
| Clinical Laboratory Sciences | Ergonomics | Nanotechnology | Telecommunications |
| Clinical Pathology | Family Health Nursing | Network and Computer Security | Theoretical Computer Science |
| Coastal Meteorology | Family Studies | Neuroscience | Thermal/Fluid/Transport Processes |
| Coatings and Adhesives - Plastics | Fiber/Composites - Plastics | Nuclear Energy | Transportation Engineering |
| Community and Social Psychology | Gender and Development | Nursing | Work Environment |
| Computational Complexity | GeoEnvironmental Engineering | Nutrition | Work Environment Policy |
| Computational Math | Geotechnical Engineering | Nutritional Sciences | |
| Computer Engineering | Gerontological Nursing | Object Oriented Environments | |
| Computer Science | Global Development | Occupational Ergonomics | |
| Computer Security | Health Informatics | Occupational Health | |
| Criminal Justice | Health Promotion | Optics | |
| Data Base Systems | Health Services Administration | Opto-Electronics | |
| Design/Manufacturing | High Performance Computing | Organic Chemistry | |
| Diversity Studies | Human Computer Interaction | Organizational Change | |

To access additional, detailed information and application materials, visit our Web pages: www.uml.edu/grad

Five River Hawk Fall Sports Teams Compete in Post-Season Play

Buoyed by the success of its fall teams, UMass Lowell tied for fifth place among 105 NCAA Div. II colleges in the United States Sports Academy Directors' Cup standings.

Other New England schools ranked by the Academy were Franklin Pierce at 21 and Stonehill at 23. This year's ranking was the highest ever for the River Hawks, who finished last year at No. 17.

"The last year and a half have been extraordinary," says Athletics Director Dana Skinner. "We have so many coaches and administrators who work so hard and have some real talent. They bring a great deal of energy and passion with them to work every day and they pass that on to the student-athletes."

Five of the UML fall sports teams earned berths in post-season NCAA play. They were men's soccer, women's cross-country, field hockey, volleyball and men's cross-country.

The men's soccer team, under coach Ted Priestly, reached the quarterfinal round in its first-ever NCAA tournament appearance. The River Hawks won the New England regional title by defeating Southern Connecticut, 1-0, before falling to Dowling, 2-0.

In regular season play, the team won the Northeast 10 Conference title, finishing with a 15-5 record.

It was expected that the volleyball team, which had graduated its top three players from the 2002-03 season, would endure a rebuilding year. Instead, Coach Karen McNulty's squad posted a surprising 20-10 record and placed second in NE-10 regular season play. That performance was good enough to earn a spot in the NCAA's

Northeast Regional Tournament, where the River Hawks bowed to Merrimack, 3-2, in the first round.

The men's cross-country team won the NE-10 championship, its third in four years, and then captured its fourth consecutive NCAA Div. II regional championship, finishing 10th at the national level.

Gary Gardner, who coaches both the men and women's cross-country teams, led the women to their first-ever appearance in the NCAA championship after placing second to Stonehill at the NCAA regionals. At the nationals, in Cary, N.C., the women finished 22nd out of 24 teams, while fielding a team that included four sophomores and a freshman.

Coach Shannon Hlebichuk's field hockey team posted a 15-8 record, defeated Bryant, 2-1, for the NE-10 championship and then blanked the Bulldogs, 1-0, in the NCAA semi-final. The club lost the final match, 4-1, to eight-time champion Bloomsburg University.



Cross Country

The UMass Lowell men's and women's cross-country teams each advanced to the NCAA Championship in Cary, N.C., in November. The men's team captured its fourth straight NCAA Northeast Region title and advanced to the NCAA Championship meet for the fourth straight year. The River Hawk men finished 10th nationally. The UML women enjoyed their first appearance in the NCAA Championship after placing second at the regional championship at Franklin Park in Boston.



Men's Soccer

The UMass Lowell men's soccer team captured the NCAA New England Region Championship in its first-ever tournament appearance. The River Hawks also won the Northeast-10 Tournament championship over Southern Connecticut (3-2) in New Haven, and later advanced to the NCAA Tournament quarterfinal before falling 2-0 to Dowling College.



Volleyball

Senior Andrea Turner, left, and junior Lauren Dufresne led the UMass Lowell volleyball team to its third straight appearance in the NCAA Tournament in the last four years. The River Hawks finished second in the Northeast-10 Conference regular season for the second straight year.



Nate Jenkins

Senior Nate Jenkins approaches the finish line at the NCAA Northeast Regional Cross-Country Championship last fall at Franklin Park in Boston. Jenkins placed first and was named the NCAA Northeast Region Runner of the Year.



Field Hockey

Displaying their NCAA Tournament Division II runner-up field hockey trophy are, from left, senior goalkeeper Patrice Mendoza, Coach Shannon Hlebichuk, senior forward Laura Petros, and senior midfielder Martha Marsden. The women captured the Northeast-10 Conference Tournament championship and defeated Bryant College, 1-0, in the NCAA Tournament semifinal before losing to national champion Bloomsburg University.



1



2



6



7



3



4



8



9



5

- 1.) The Advisory Board of the College of Fine Arts, Humanities and Social Sciences held an auction to benefit the Dean's Scholarship Fund, followed by a performance of the Irish Tenors at Lowell Memorial Auditorium. Board members, from left, are Frank Talty '78, Carol Higgins O'Brien '82, Judith Post '78, Dean Charles Carroll and Jack Ford '69.
- 2.) Diane Earl, director of Programs and Alumni Services, visited with John Swymer '85 while on a family trip to Denmark.
- 3.) The Kaiser Family, Ken '83, Colleen '81 and their children cheered on the River Hawks during a home game at the Tsongas Arena.
- 4.) More than 500 alumni, family and friends gathered at the Tsongas Arena for the annual Alumni Hockey Night on Feb. 28 when the River Hawks hosted the Maine Black Bears. Among them were, from left, UML friend Bob Gosselin, Ron Boudreau '75, Susan Pasquale '75, Pam Loring, Dan Loring '92 and Pasqua Leary '78.
- 5.) The third annual "Vine and Dine" hosted by the Alumni Relations Council was held at Agresti's Cucina Italiana in Westford. With Master of Ceremonies Richard Rourke, left, of Ricardo's Trattoria in Lowell are Jean Reslow, Lisa Thurston '96, '97 and event chair Garrett Thurston '90, '95.



10

- 6.) Also enjoying the evening of fine wine and Italian cuisine at Agresti's are, from left, Carolyn Lumenello '63, Russ Bedell '81, Mary Bedell '81, and UML friends Bob and Regina Provencher.
- 7.) Chancellor William T. Hogan and University President Jack Wilson recently greeted alumni at a reception at Donald Trump's Mar-a-Lago Club in Palm Beach, hosted by Joe Day '66 and his wife Diana. This was a great opportunity for alumni in Florida to hear Chancellor Hogan's update on the campus and President Wilson's vision for the University. It also gave alumni a chance to connect and network with one another. From left, are Chancellor Hogan, Diana Day, President Wilson, Charlie Hoff '66, Joe Day '66, and Vice Chancellor Fred Sperounis.
- 8.) Gathered at the Mar-a-Lago Club for the alumni reception are, seated from left, Gloria and Don LaTorre '59, R. Carl Friedman '59 and Muriel Friedman, and, standing, Ginger Tamarin and Dean of Sciences Bob Tamarin.
- 9.) The Mar-a-Lago Club event participants included, from left, UML friend Bill Collins, Marie Collins O'Connor '52, Vito Selvaggio '52, Maria Selvaggio Maughan '87 and Vasiliki Selvaggio '53.
- 10.) Music alumni gathered at the annual alumni reception held on March 11 during the Mass Music Educators Conference at the Sheraton Ferncroft in Danvers.

1934

Nina (Woicziulenas) Freshour writes that she has been teaching until this year when she had both of her knees "done." Her grandson and his wife are living with her and she is thrilled about the imminent birth of her new great-grandchild due in May.

1938



Ethel Wood Fitzpatrick, left, and **Helen Knight**, classmates in the State Teacher's College, returned to the campus last fall for their 65th reunion.

1953

Don Finegold recently published a book entitled *The Pact*. It chronicles the lives of three errant Irish youths, depicting their deeds and exploits in a manner to pique all readers. Each youth has his own secret agenda, and a number of provocative incidents keep the reader deeply involved as two determined, dedicated detectives search out the truths and answers.

1970

Royal Reynolds has retired as a professional engineer from the Suffolk County Department of Health in New York, where he regulated the construction of all water supplies and sewage disposal facilities in the county for over 30 years. However, Royal will continue his seasonal employment as an ocean certified lifeguard at Robert Moses

State Park, a position he has held for the last 37 years.

1971

Steven G. Berninger recently opened a new consulting office in the Springfield area. Berninger & Associates offers individual and group career counseling, corporate outplacement, and executive coaching. The company has a number of years experience in helping clients with plant shutdowns, closings, layoffs, terminations, employee counseling, individual job-search assistance and career exploration. The firm is qualified in career assessments using the Meyers-Briggs Type Indicator® and the Strong Interest Inventory®.

1972

Jeffrey T. Burke's article, "An Acid Hydrocarbon: A Chemical Paradox," was published in the January 2004 issue of *The Journal of Chemical Education*. Jeffrey is in his 27th year of teaching chemistry at Cumberland County College.

Ellen M. O'Donnell has returned to the United States after having spent several years overseas with her husband's various postings within the State Department in places ranging from China to Cameroon. She is now coordinating international medical evacuations and providing health briefings for staff of the World Bank and IMF on resident assignment. She is also a member of the HIV/AIDS Response Group. Ellen has three children and her husband is currently completing a two-year assignment in Sarajevo, Bosnia-Herzegovina.

1975

Christine M. Horne is the assistant to the director of the Alva deMers Megan Chapel Arts Center at St. Anselm College in Manchester, N.H. She lives in Hooksett, N.H., with her husband, Michael. Their son, Derek, has returned from a tour of duty with the Air Force in Afghanistan and their daughter, Caryl, a graduate of Gordon College in Wenham, is teaching in Hooksett.

James B. McGrath has been re-elected to the board of directors for the Purchasing Management Association of Boston (PMAB) for the 2003-2004 membership year. With over 1,300 members, PMAB is one of the largest affiliates of the Institute for Supply Management. James has been in the purchasing profession for more than 36 years. He lives in Reading with his wife, Eileen, and their three sons and serves as an elected Reading Town Meeting Representative.

1977

Frantz A. Holtan is the owner of Holtan Testing in Portland, Maine. He has three children Melody, Nordica and Danica.

1978

Robert J. Carrison, after running a part-time freelance graphic design business for 11 years, has decided to take his business to the next level, full time. Each year has been a success and now he has relationships with large corporate clients such as Verizon, Stop & Shop, National Grid and Cape Cod Potato Chips. Bert and his wife, Pamela, have two boys, Matthew and Dever.

1983

Kenneth DeMoura continues to practice as a trial lawyer and legal counselor to entrepreneurs and businesses. He recently was re-elected as managing partner of the Boston office of Adler Pollock & Sheehan, P.C., a 60-attorney business law firm with offices in Boston and Providence, R.I. Additionally, Ken was elected by the partnership to serve on the firm's executive committee.

John W. Traphagan, Ph.D. is president-elect of the Association for Anthropology and Gerontology. He will serve one year as president-elect and one as president of the Association.

1984

Bill Hume has been named president of Synventive Molding Solutions-North America. Bill began his career in 1984, making him a 20-year veteran of the Synventive organization, headquartered in Peabody. Most recently, he was senior vice president-operations. Bill, who earned a degree in mechanical engineering at ULowell, lives in West Newbury with his wife and two children.

1985

Charles F. Withee has joined The Provident Bank as senior vice president and senior lending officer. Previous appointments during his 18-year career in commercial banking have included posts as senior vice president at First & Ocean National Bank and

Key Bank. As Provident's senior lending officer, he will oversee the commercial and residential lending teams, and will chair the bank's Credit Committee. Provident President **Charles Cullen**, a 1973 graduate of Lowell Tech, said, "Chuck is a well-respected lender and we look forward to him expanding our lending capabilities in this competitive marketplace." Withee, who has a ULowell degree in



business administration, is enrolled in the Stonier Graduate School of Banking at Georgetown University. He lives in Hampton, N.H., with his wife, Diane, and their three children, Michaela, 10, Morgan, 8, and Robert, 2.

1987

William J. Ward, since graduating in 1987 with a BSEE degree, has had adventures varied and plentiful. Blissful marriage to Yayoi Otake in 1997, unnerving first fatherhood to Julia Joan in 1998, and calmer and more composed fatherhood to Kenta Lennon in 2003. Graduate degrees from both BU and MIT. Lived and worked in California, Texas and Japan. Employment has been in academia, large companies, small companies and his own company. Currently teaching mathematics at Blue Hills Regional Technical School in Canton. Two current areas of focus are sustaining a five-object juggling pattern and getting back into 42K running shape. Bill is now living in North Attleboro and is patiently waiting to hear from old classmates/friends and extroverted people who read

the bios section really closely: ward@bluehills.org

1988

Gregory A. McCaffrey was recently appointed president and executive managing director of Rapidigm Inc.'s Global Public Sector business. Based in Washington, D.C., he has also been appointed president of Rapidigm Latin America LLC. Rapidigm is a leading global information technology implementation and management consulting company. Previously, after graduation from ULowell, Greg was an Air Force officer, regional and country managing director (Russia, East Europe and Latin America) with KPMG LLP, and built a government consulting business recently sold to Perot Systems. Greg and his wife, Diana, reside in Falls Church, Va., with their three children, Angelica, Alexandra and Andrea.

1989

Benjamin J. Miele received his CPA license in both Massachusetts and Florida and is currently working on his master's degree in accounting (audit and insurance track) at the University of South Florida. In May of 2002, he and his wife, Bonnie Amsterdam, welcomed the birth of their daughter, Briana Madison. Briana is a miracle baby as Bonnie has been continually battling a chronic illness.

1991

Karyn Geary, MS, APRN, BC, nurse practitioner for Hospice of the North Shore (HNS), recently passed the Advanced Practice Palliative Care Nurse examination to become board certified by

the American Nurses Credentialing Center (ANCC), the largest nursing credentialing organization in the United States. According to the ANCC, only 52 nurse practitioners across the United States received this certification. Palliative care is the comprehensive management of patients' physical, psychological, social and spiritual needs.



In addition to her certification in Advanced Practice Palliative Care Nursing, Geary has board certification as an Adult Nurse Practitioner from the American Academy of Nurse Practitioners and as a Gerontological Nurse Practitioner from ANCC. She is also a certified Hospice and Palliative Nurse through the National Board for Certification of Hospice and Palliative Nurses.

Brian and Michelle (Tellier) Kelly are pleased to announce the birth of their daughter, Emily Elizabeth, born last July. Brian is vice president of Kel-Rick Construction Management.

Brenda L. Monahan and husband Jason are proud to announce the birth of their daughter, Brigid Grace, in February of 2003. Brigid joins her big brother, Zachary.

John E. Regan is proud to announce that his wife, Susan, gave birth to their third child, Patricia Hoyt Regan on Jan. 9. She weighed in at 6 lbs 12 oz. and has two brothers, Jack, age 4, and Michael, 16 months.

1992

Eraena M. (Bracy) Meehan and her husband, Brian, are pleased to announce the birth of their second daughter, Angela May. She joins her older sister, Erika Lee, who turned 2 in November. Eraena and her family have spent the last few summers preparing a campsite in Washington, Maine, to enjoy as a vacation spot each year since Brian is a high school teacher and Eraena is a school nurse and they enjoy matched vacation schedules. The family lives in Belchertown with Caesar, their cat.

Peter G. Furlong has just finished his year with Dortmund Opera, Germany. He performed as Rodolfo in *La Boheme*, Don Ottavio in *Don Giovanni*, and Postillon in *Postillon du Longemeau*. Peter will next be appearing as Don Gomez in *Die Drei Pintos* at the internationally acclaimed Wexford Opera Festival in Wexford, Ireland.

Dr. Jerilyn M. Latini writes that although she is unable to attend college and departmental functions at the University, she is willing to speak with students via telephone about her experiences at Lowell and in her profession.

Ann M. (Edmonds) O'Neil married fellow alum **Randy O'Neil '95, '97** in 2002. The couple lives in Lowell.

1993

Keith Briggs and wife **Belinda (Daniels) Briggs '95** are proud to announce the birth of their first child this past August, a baby girl named Meribel Dagny. The couple was married in 1997 and lives in Grafton.

Christine (Tupper) Hamel and husband David Hamel '94 are proud to announce the arrival of their second child, Caroline Christine. She was welcomed home by her big sister, Emily.

Becky Ohop-Bussiere was married to Greg Bussiere in 1998. She is the high school drama and choral director for the Town of Southbridge. She has completed her master's in administration and is certified as a music teacher and high school principal. She will begin her master's in music this summer at UMass Amherst. Greg and Becky are in the process of adopting children from China.

Jeffery Smith completed his Doctor of Physical Therapy at Simmons College in Boston.

1994

David Hamel and his wife Christine (Tupper) Hamel '93 are proud to announce the arrival of their second child, Caroline Christine. She was welcomed home by her big sister, Emily.

Christopher M. Beaumont and his wife, Elizabeth, an alumna of Bridgewater State College and Troy State University, have a 2-year-old daughter, Cassandra Josephine, who was born in Okinawa, Japan, and currently attends the Coast Guard Academy child development program. Christopher received his master of science in Exercise Science and Health Promotions from George Mason University in 1999. He continues to serve on active duty in the Navy while finishing his medical school prerequisite courses through the University of Connecticut with the intent of attending medical school

by 2005.

Tiffany (Patriquin) Corcoran and her husband James '95, welcomed their son, Aidan Russell last May.

Jim T. Marques is currently working with the Fatherhood Coalition by speaking publicly for fathers and men in divorce and separation cases to make current laws more fair.

1995

Nicole M. (Poirier) Benge graduated from Life University with a Doctor of Chiropractic (DC) degree.

Belinda (Daniels) Briggs and her husband, Keith Briggs '93, are proud to announce the birth of their first child, Meribel Dagny. The couple was married in 1997 and lives in Grafton.

James R. Corcoran and his wife, Tiffany (Patriquin) Corcoran '94, welcomed their son, Aidan Russell, last May.

Tracey L. McDonough just bought a new home and writes that things are going great!

1996

Paul Maher Jr. has authored a 512-page biography of Lowell writer Jack Kerouac, entitled Kerouac: The Definitive Biography, which was due out this spring by Taylor Trade Publishing.

Timothy J. Mustone and wife Mea (Quinn) Mustone have a daughter, Quinn Margaret Mustone. Tim is a mechanical engineer for Draper Labs in Cambridge. He finished his master's in mechanical engineering at UMass Lowell in 2003.

1997

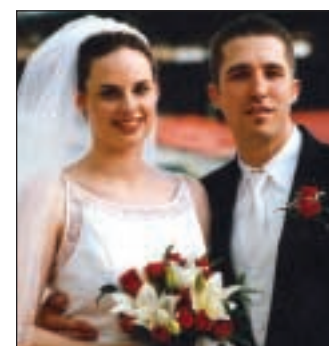
AnnMarie McGillicuddy joined the Peace Corps shortly after graduation and was sent to Gambia, West Africa, where she served for two years as a Natural Resource



Management Volunteer. Upon returning to the U.S., AnnMarie joined the U.S. Fish and Wildlife Service. Recently she took a new position in the State Department at the Foreign Service Institute as a training technician.

1998

Julie (Bates) Davie was married in September of 2002 to Jim Davie of the MBTA Police. She attended the MBTA police academy in '98 and '99 where she met her husband. In July of 2003 she was promoted to detective at Harvard where she has been employed for the last five years. She ran in the Boston Marathon in April for the Leukemia and Lymphoma Society in honor of her mother, Connie.



Sharla (Collier) Hennessey married Dennis Hennessey in November of 2003. The ceremony and reception were held at Fenway Park in Boston. The couple honeymooned in Europe for two weeks, visiting Belgium, Holland, Germany, Austria, Italy, Switzerland and France.

Jennifer (Crawford) Rothwell was married in August of 2003 to Justin Rothwell.

1999

Kristen (Lamond) Costa and Derek Costa '01 were married last October in Dartmouth and are living in their newly purchased condo in Nashua, N.H. Derek became the assistant director of Residence Life at UMass Lowell last July.

D.J. Deeb recently published the book The Collapse of the Middle East Peace: The Rise and Fall of the Oslo Peace Accords. The book traces the rise and fall of the Oslo Peace Accords between the Israelis and the Palestinians. Deeb teaches history/humanities in the Reading Public Schools and is an adjunct professor at Northern Essex Community College.

Marianne (Maurer) Ouellette was married Nov. 15, 2003 to Steven J. Ouellette Jr.

Justin M. Mitnik performed in the show CYBERJAM in London last fall.

Lisa (Egan) Queene was married in October 2003 to Michael Queene of Merrimac, N.H. Lisa lives in Melbourne, Fla., where she is a physical therapist.

2000

Chrissy A. Brouillard has been living in New York City since September of 2001. In August 2002, she accepted a position with the New York Rangers Hockey Organization. In February of 2003, she was named assistant program manager of the Rangers Road Tour, the organization's major Community Development and Promotional program.

2002

Kelly Andreoni finished her master's degree in the arts of teaching (MAT) at Boston University in May of 2003. She is currently teaching English at Revere High School. During the summer she taught an essay workshop at Brookline High School. Kelly lives in Brighton.

2003

Kohei Kanata walked away with the top prize in graphic design at this year's American Institute for Graphic Design's BoNE show. At the largest exhibition of graphic design at the Massachusetts College of Art, Kanata's "Musical Flake" won best in show.

In Memoriam

1912

Edith A. Twombly

1924

Katherine V. (Higgins) O'Rourke

1928

Muriel I. (Kilgore) Ewing

1929

Mary M. (Ryan) Brady
Mary H. Lucy
Jeannette C. (Loranger) Ohare

1930

Edward W. Tamulonis

1931

Mary F. Hession

1932

Laura V. (Feugill) Smith
Loretta A. (Johnston) Smith

1933

Lillian J. (Hale) Carbone

1934

Ruth A. (Widener) Denahy
David J. Fox
Harold Smith

1936

Ruth P. (Mitchell) Hale

1938

Eileen A. (Pitts) Keefe
Mildred P. (Myers) Turner
Anna G. White

1939

Edward Spevack

1941

Margaret M. (Mathews) Linton

1942

Dorothy C. (Twomey) Polley
Clifford E. Schiffer

1943

Vivian M. (Rodrigues) Kolz
George P. Spanos

1947

Paul J. Martin
Natalie M. (Hart) Shepard
Pauline Riordan Webber

1948

Nathaniel H. Glade

1949

Mary G. (Robitaille) Hamilton

1950

John F. O'Donoghue

1952

Perry H. Brown

1953

Ann M. (Doyle) Lemire

1954

Ellen L. Cull
June P. (Foss) Guillory

1955

Barbara P. (Paasche) Dixon
John W. Gates, Jr.

1956

Sanae U. Sakaguchi

1959

George J. Brouillette
Carol A. (Donovan) Driscoll
Martin Don Enis

1963

Norman W. Turner, Jr.

1964

James H. Connors

1965

Benjamin M. Mikulis, Jr.

1966

Lillian A. Bornowski

1967

Roger P. Adams

1969

Jane E. (McCarthy) Gourlis

1970

Stanley C. Israel

1971

Shirley R. Feldman

1972

Francis K. Chase, Jr.
Charles S. Funk

1973

Richard H. Middlemiss

1974

Christine M. (McShane) McShane-Cornell

1975

Robert D. Hogan, P.E.
Diana L. (Landers) Landers-Cauley

1976

Janice D. Johnson
Mostafa Torkian

1977

John J. Estrella
William J. Hoegen, Jr.

1979

James E. Hanlon, III

1980

Robert L. Boucher

1981

Christopher M. Finch
Wayne W. Smith
Edwin W. Zale

1982

Randall K. Burns

1984

Martha J. Clancy

1985

David E. McDevitt

1986

Thomas N. Fenton

1988

John E. Foley
Joan L. Walsh

1989

Linda A. Donovan
Matthew C. Fitzgerald

1993

Christopher W. Parker

1994

Pasquale J. Cifazzari
Michael J. Harding

2001

Deirdre Kennedy

2003

Lynne E. Brackett

Faculty, Staff and Friends

Jack Conlon
Albert D. Hinckley
Joseph Rollins
Earl J. Watt

We apologize sincerely to Alan J. Bielevich '76 and Roland J. Savoie, Jr. '86 for incorrectly reporting them deceased in the last issue of the magazine. We are sorry for any inconvenience it may have caused them and their families and we are happy to report them alive and well.

UMass Lowell Alumni Gift Items



Champion Hooded Sweatshirt
50/50 fleece hooded sweatshirt
Sizes: S/M/L/XL/XXL
Color: Gray \$34.99 Item #1



Heavy Weight Golf Shirt.
Navy golf shirt with white embroidered left chest.
S-XXL. Currently only available in Lowell Tech
imprint. Item #4 \$39.98



UMass Lowell Class Ring
Call the bookstore for ordering information, or visit www.artcarved.com on the Internet.

Paid Advertisement



Gear Short-Sleeve Basic Tee.
100% cotton t-shirt
Sizes: S/M/L/XL/XXL Colors:
Charcoal, Maroon, Navy \$14.98
Item #7



Medium Weight Embroidered Sweatshirt.
Left chest design in gray only, available for all schools while sizes last. Item #2
Clearance price \$31.49



Medium Weight Sweatshirts.
Available in gray only with 2 color imprint for Lowell Tech and ULowell. \$24.98. S-XXL
Available in a lighter weight, light gray for Lowell State on clearance for \$17.49 Item #5 while sizes last.



Hanes Heavy Weight Tees.
Gray heavy weight tees available in Lowell Tech and ULowell imprint. \$16.98. S-XXL
Similar graphic is available on a gray MV sport tee for Lowell State at a clearance price of \$8.39. Item #8



Champion Heavy Weight Sweatshirt.
Screen-printed collegiate sweatshirt available in gray only. S-XXL. Item #3
\$44.98



Champion Short Sleeve Jersey Tee Shirt
100% cotton short sleeve t-shirt Available in navy and gray. Sizes: S/M/L/XL/XXL
Item #6 \$14.98



Alumni Hats.
Available in limited quantities for Lowell Tech, Lowell State, ULowell, and UMass Lowell. Adjustable straps. Available in navy. Plastic Strap \$14.98. Cloth Strap \$19.98. Item #9
Clearance Price \$10.49 & \$13.99.

For additional merchandise, visit us online at <http://umlowell.bkstore.com>



UMass Hockey Jersey
River Hawk replica hockey jersey.
Sizes: M/L/XL Color: Blue Item #10 \$60.00



Champion 50/50 Sweatpant
50/50 fleece sweatpants by Champion \$24.98
Item #11
Sizes: S/M/L/XL/XXL
Color: Gray



University Chairs Armchair. Black with cherry arms and back lasered seal
Item #12 \$339.98



Rocker. Black with cherry arms and back lasered seal Item #13 \$339.98

For UPS shipping to your residence, please add \$25. Allow 6-8 weeks for delivery. Available with University of Massachusetts Lowell, Lowell Textile Institute, University of Lowell, Lowell State College, and Lowell Technological Institute seals.



Square 4 X 4 Alumni car decal.
Available with ULowell logo or University of Massachusetts Lowell.
Item #14 \$1.49

Paid Advertisement

UMass Lowell Alumni Gift Items Order Form

Name _____
Day Phone _____ Class Year _____
Address _____
City/State/Zip _____
 Visa MC Amex Discover check enclosed (payable to UMass Lowell Bookstore)
Credit Card # _____
Exp. Date _____
Signature _____

Item #	Quantity	Description	School/Building	Color	Size	Price

Item #	Quantity	Description	School/Building	Color	Size	Price

Item #	Quantity	Description	School/Building	Color	Size	Price

Merchandise Total	
MA residents add 5% tax to all non-clothing items	
Add shipping and handling + \$25 for mailing chairs	
Total Amount	

Please allow 3- 4 weeks for delivery. Prices effective through 12/1/04.
Shipping and Handling:
If your order totals: Add:
\$14.99 and under \$3.95
\$15.00 - \$39.99 \$4.95
\$40.00 - \$74.99 \$5.95
over \$75.00 \$6.95
University chairs \$25.00

Mail or fax all orders to:
UMass Lowell Bookstore
One University Avenue
Lowell, MA 01854
Fax: (978) 934-6914

For questions on merchandise, please call toll-free (877) UML-ALUM or (978) 934-2623
You may also order merchandise directly on our alumni Web site: <http://www.umlowell.bkstore.com>

Cut along dotted line and return to above address.