"I want to get my degree so I can become a teacher and someday coach a team of my own."

MARIETTE GUILLAUME ’06
Psychology Major, UMass Lowell Women’s Basketball Team Member

The Lowell Fund—created by generous contributions from alumni like you—helps students like Mariette focus on their studies rather than how they will pay for college. A strong Lowell Fund ensures UMass Lowell will continue to provide scholarships to the best and brightest students, recruit exceptional scholars and researchers to our faculty, purchase necessary lab equipment and educational materials, and support academic programs and activities.

To make your gift, use the envelope enclosed in this magazine. For more information on ways of giving to the Lowell Fund, please call 978-934-4808.

THE LOWELL FUND: WHERE GIVING WORKS
Dear Alumni, Parents and Friends:

In the past issues of this magazine we have shared with you new developments on advances being made by our faculty in nanotechnology, especially in the area of nanomanufacturing, the scale-up process that has very significant potential for the technology sector of the Massachusetts economy. Another scientific frontier upon which the Lowell campus has distinguished itself is that of green chemistry. Simply put, the goals of those practicing green chemistry are to reduce or eliminate the use or generation of hazardous substances in the design, manufacture, and application of chemical products.

Our campus is fortunate to have green chemistry’s leading academic voice in Dr. John Warner. In 1998, he co-authored the core text in the field, Green Chemistry: Theory and Practice. His work meshes well with UMass Lowell’s commitment to sustainability, particularly in the integration of economic, environmental and health issues. The indicators within industry regarding green chemistry are encouraging. USA Today reported that green chemistry “has gone from a blackboard conjecture to a multimillion dollar business in 15 years.” To compete worldwide, especially in European markets, industry is looking for cleaner and more superior technologies, ones that will prevent the generation of pollution from the start.

Green chemistry is one aspect of our holistic outlook concerning the links among personal health, safe workplaces and a high quality environment. A cross the campus, faculty are involved in research projects and partnerships. The Massachusetts Toxics Use Reduction Institute (TURI) on the Lowell campus is in the forefront of statewide efforts. Since 1990, TURI has worked with more than 700 firms in the state to identify ways to reduce toxic chemical use, waste and emissions. The core group of firms filing annually in accordance with the state’s Toxics Use Reduction Act decreased its toxic chemical use by more than 40 percent since 1990. TURI’s work is a key element of our mission to assist sustainable development in the region and beyond.

In all these endeavors, UMass Lowell needs the generous support of its alumni and friends. We are serious, enthusiastic and optimistic about the prospects for a high quality of life for this generation and those to come. Please join us in meeting the challenges and achieving our common goals.

William T. Hogan
Chancellor
Please send to:
UMass Lowell
Office of Alumni Relations
Wannalancit Mills Complex
600 Suffolk St.
Lowell, MA 01854-3629
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E-mail: Alumni_Office@uml.edu

We Want News About You!

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  ☐ College/Departmental Activities
☐ Regional Events  ☐ Regional Chapters
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☐ Community Service

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

Thank you!
Sherwood’s Pitch: World Series Balls Hit the Target

One could say that Mechanical Engineering Prof. James Sherwood had his fingerprints on all the baseballs pitched in the last World Series.

A director of the University’s Baseball Research Center, Sherwood tested the balls for liveliness and hardness at the request of Major League Baseball and the manufacturer, Rawlings. The verification was initiated to avoid the repeat of claims in 2002 that baseballs in that season were harder than those used in the 2001 World Series.

The process involves using the center’s specialized machinery to measure the size and shape to make collecting and analyzing the data. “We take it apart layer by layer and measure the size and shape to make sure it conforms to Major League Baseball’s specifications,” Sherwood said.

The verdict: the 2004 World Series balls were created by Rawlings in the exact image of their regular season counterparts.

University Awarded $323,000 in DOE Grants

The Department of Energy (DOE) has awarded UMass Lowell $323,000 in several grants to researchers in the Radiation Laboratory, the Radiological Science Program and the Nuclear Engineering Program.

The grants were part of a larger package that included researchers at MIT for work “to support nuclear energy technology education and infrastructure.”

Prof. John White of Chemical Engineering and Gunter Kegel of Physics, and two members of the Radiation Laboratory – Reactor Engineer Thomas Regan and Reactor Supervisor Leo Bobek – received a $103,000 grant from the DOE Nuclear Engineering and Education Research Program for an investigation of radiation energy conversion in photocatalytic materials.

Chem Department Gets an ‘A’ from Alums

For science majors, they had a lot to say.

They reminisced about favorite faculty and difficult labs.

They reported on doctoral degrees, professorships and jobs in industry.

They commented on coursework, applauded improvements and suggested new curricula.

A survey went out to Chemistry Department graduates from the past 35 years, and more than 200 responded—many with extensive comments or attached letters. Aums were asked to rate their overall experience at the university, their education in chemistry, preparation for employment compared to peers and preparation for graduate school. They were also asked to pick the two most positive factors from faculty, courses, labs or faculty advising.

Department Chairman Gene Barry was most gratified with the level of response and the survey results. “A bout 46 percent gave the highest possible ranking to their overall experience in chemistry,” says Barry.

Many wrote about specific classes, like this one to Barry: “I was a sopho- more when you first came to Lowell. I was in your first analytical class and was often late, since it was first thing Monday mornings. Of all the courses that I took, your course uniquely prepared me for industry and I will even say was solely responsible for several job offers when I graduated.”

Or this one: “I was fortunate to have Doc. Scattered as my mentor—that was a once in a lifetime opportunity. It made all the difference in my career. Prof. James and Bechler, Isaacs and Lamprey were also wonderful faculty.”

Several transfer students valued the close contact with faculty at UML. After being one of hundreds sitting in classes at another university, this alum wrote about UML, “I cannot think of a better choice in undergraduate or graduate training and interaction.”

State Awards $5 Million for Center of Excellence in Nanomanufacturing

The Massachusetts Technology Collaborative (MTC) has granted its first award for university-technology research — $5 million to UMass Lowell for a Center of Excellence in Nanomanufacturing.

“This is just the kind of strategic investment we intend to make. This is the model,” said MTC chief executive director, of MTC, at a press conference announcing the award.

Initial funds will be used to hire someone to work with industry, purchase equipment, fund student projects and to work with the Museum of Science in Boston on an educational museum component. A additional funding, up to the $5 million total, will arrive from the state as matching funds for work in the future. A ready, the NSF has awarded a five-year $24 million NSF grant to UMass Lowell, Northeastern University and the University of New Hampshire for nanomanufacturing. “We’re very excited,” said Prof. Julie Chen, lead researcher on the nanomanufacturing team. “We see this Center of Excellence as a way to bring together what we need to make things happen.”

A successful and efficient approach to solving previously insurmountable problems inspired some remarkable inventions, created by UMass Lowell students.

Seven winners – seven First Annual Inventor’s Competition

The machine shop in the Mechanical Engineering Department will be upgraded thanks to a $10,000 gift from Raytheon Company. Mark Russell, right, vice president of engineering for Raytheon Integrated Defense Systems, presents the check to John M. K. Eble, chair of the Mechanical Engineering Department, joined by Michael Kizer, program manager of Raytheon’s International Integrated Air Defense. The gift is the latest in Raytheon’s support for engineering programs, which this year includes $30,000 to teacher training for DesignCamp; $10,000 unrestricted to the College; and $10,000 to the Electrical and Computer Engineering Department for its microwave lab, along with $10,000 in microwave equipment.

Raytheon Makes Gift to Mechanical Engineering

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Raytheon Integrated Defense Systems President and CEO William T. Hogan.

As director of the Baseball Research Center, Prof. James Sherwood tested the balls used in the World Series for Major League Baseball and Rawlings.
Robert Fiske, publisher of a widely read Web-based magazine on the state of the English language, became the new director of Technical Writing Workshops in the College of Engineering this academic year.

A former developer editor for the college division of Addison-Wesley Publishing Co., he has, for the last 16 years, owned Vocabula Communications Co., an editing and writing service.

For the last five years, he has also edited and published The Vocabula Review on-line (www.vocabula.com) and has written and published four books—the most recent being The Dictionary of Disagreeable English, A Curmudgeon’s Compendium of Excruciatingly Correct Grammar.

In succeeding Len Meuse as director of the workshops, Fiske’s main responsibility will be the supervision of the students’ report writing process.

“I plan to make some changes in the way the program works,” Fiske says, “I think the focus should be less on what the workshop is about than on how to write well.”

His idea is to offer a lecture on the workshop, another on concise writing, and two on grammar.

He said he also plans to vary the format in which students must write their reports, instead of using the single format that has been the standard because it was considered typical of what the students would later encounter in industry. Report formats vary from company to company and industry to industry, he says.

Robert Fiske

Robert Fiske Is New Writing Workshop Director

Grammar ‘Curmudgeon’

A popular television series, of all things, is raising awareness of an interest in a health field career that offers great opportunities but is in desperate need of new practitioners.

Thanks to CSI (and its spin-offs, CSI-Miami and CSI-NY), potential students have become acquainted with the work of medical technologists.

“T here has been a shortage of medical technologists for at least the last three or four years. A t t he very least, it’s equivalent to the shortage in nursing,” says Prof. Kay Doyle, chair of the Department of Clinical Laboratory and Nutritional Sciences.

“We’ve done a lot of recruitment here at the university. We have it in the catalog, we have a great Web site, we have brochures...”

“One of the things that has helped us recently is CSI because it’s about the laboratory. It’s forensics—and forensics is a division of laboratory medicine.”

D oyle says more than 70 percent of the current lab force is over the age of 40 and the majority is nearing retirement age.

Massachusetts, which used to have 15 to 20 medical technology programs, is now down to four, according to Doyle. The only institutions offering the programs now are U Mass Lowell, U Mass Dartmouth, Northeastern U niversity and the Brookside Medical C enter in Pittsfield.

U Mass Lowell graduates 10 to 15 students each year in the medical technology option of Clinical Lab Sciences, but, says Doyle, “We have room for more.” She urges anyone interested in learning more about the program to contact her for more information.

Growing Shortage Means Even Greater Career Opportunities in the Lab

Opportunities in the Lab

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Games Used to Study Global Haggling

Michael Kraten, an assistant professor in the College of Management, has conducted complex simulated negotiation “games” to teach negotiation skills and to more accurately predict negotiation outcomes in a business setting. Kraten uses advanced internet-based communication technologies to conduct these simulations with hundreds of business professionals around the globe.

“By analyzing the statistical results of these activities, I can put the latest academic theories to the test,” says Kraten. “Then we can modify these theories to really reflect the realities of the business world.”

Weber Seeks Solutions to ‘Virtual Team’ Problems

In a global economy where different skills sets can become suddenly necessary at any given moment, the use of virtual teams collaborating around the world through the latest in computer mediated technology is no longer a luxury, but a necessity.

Weber, a professor of management at UMass Lowell, is conducting research to solve the inherent problems of virtual teams.

“The purpose of the study is to examine the impact of time, task and communication medium on the effectiveness of computer mediated teams,” says Weber. “We study the research on computer-mediated work teams across the psychology, management information systems and organizational behavior disciplines.”

Virtual teams, regardless of field or discipline, are groups of people who carry out interdependent tasks using technology to communicate rather than traditional face-to-face contact.

They are used by organizations to compensate for scarce resources or to carry out projects that involve multiple locations. Vital as they are, they are not without their problems.

“The biggest problem with virtual teams is that it is more difficult to communicate in the way we are accustomed to,” says Weber. “Social cues that we take for granted and which are so vital to face-to-face communicating, such as eye contact, humor, tone, gestures, and all the other non-verbals are often lost through mediums such as e-mail and instant messaging.”

O’Leary Library Makes the Move from Vinyl to Digital

O’Leary Library is undertaking a massive project to convert its vinyl record collection into a digital format from which they will be transferred to a more convenient and accessible Compact Disc format.

The move was prompted both by space needs and the educational needs of the student community. CD’s have 50 percent more recordable space than an LP and are 75 percent smaller, allowing for more efficient use of space in the library audio holdings. The CD is also a format much more familiar to students.

“On any given day, only 87 percent of the senior class is here,” says State Sen. and Laptops for Lowell Committee member Steve Panagiotakos. “This has to change and one way to encourage this change is with programs like this. It instills both the work ethic students need in order to succeed and the education needed to succeed.”

Ten laptops have already been donated by UML along with five from Middlesex Community College and a $2,500 dollar donation from Bank of America. U sing last year’s attendance numbers as a guideline, about 85 seniors would have been eligible for the laptops last year. The program sponsors are hoping to get that number up to 100 or more.

“T he early buzz among students at the high school about the laptop program has been very positive. A trendance is already up 5 percent from this time last year. “It’s awesome,” says Sochetta Yem, a senior who hopes to major in Communications at a college next fall. “I really do think that it will get students to come to school more.”

“I ask teachers, are the kids showing up? And they tell me ‘yes,’” says Lowel High headmaster Dave Conway, who first conceived of the idea of Laptops for Lowell when he saw how poor attendance had become over the last few years.

“When I ask the teachers why they think the students are showing up, they tell me it’s because the kids want to get a laptop.”

Participating in an event launching the laptop program were, from left, University Provost John Wooding, Vice President of Middlesex Community College Molly Sheehy, State Sen. Steve Panagiotakos and Lowell High Headmaster Dave Conway.

Campus News
Students Prepare for College—With a Little Help From Nellie Mae

The University of Massachusetts Lowell and Lowell High School won a competitive grant recently to improve college preparation for all students. The Nellie Mae Education Foundation’s Partnerships for College Success program awarded the project $150,000 per year for five years. Nellie Mae is New England’s largest public charity dedicated to improving academic achievement. It provides grants and technical assistance to programs that concentrate on academic enrichment, college planning, advising, preparation and retention support for low-income, under-served students.

The grant program strengthens existing collaborations between universities and high schools. The Woodrow Wilson National Fellowship Foundation will provide technical assistance as the intermediary for the program.

“The University of Massachusetts Lowell and Lowell High School have a long history of highly collaborative work focused on improving academic achievement,” said Blenda J. Wilson, president and CEO of the Nellie Mae Education Foundation.

“Our first task will be working on ‘vertical math alignment’—a content alignment of the math courses in high school and college,” says Prof. Linda Silka, director of the Center for Family, Work and Community. Silka leads the project along with Joyce Gibson, associate vice chancellor for academic services, and Norma Audy, head of guidance and special programs at LHS.

Future of Work Project Rides the Wave of Change

When it comes to rapidly changing working conditions, it feels like the future is now.


How to make sense of it? How to survive?

The University of Massachusetts President’s Office and the state legislature have funded a Future of Work project for the Labor Programs at the four undergraduate campuses. The project will build a picture of the changing nature of work, from the point of view of workers, and will explore ways to influence working conditions.

UMass Lowell’s Labor Extension program held a regional meeting of union leaders and activists, along with community organizations, academics and others interested in workplace issues.

Three speakers drew on their own experiences for their presentations. Darcie Boyer, an organizer with the Coalition for a Better Acre in Wilmington, described managers and employees selecting their point of view of workers, and will explore ways to influence working conditions.

Students Bring the Downtown to Campus

The first annual A Taste of Lowell event brought several dozen area restaurants, businesses and nonprofit organizations to the Campus Recreation Center recently for an afternoon showcase of local offerings. Mambos Grill, Second World, Mike’s Restaurant, the Dubliner pub, Café Paradiso, the Revolving Museum, and many others set up displays and exhibits.

Student Government Association President Heather M. A. Kreiz said, “This is a great beginning and we’re committed to reaching out with more energy to the downtown and wider community. We want to help the students, staff and faculty to be aware of everything the city and surrounding area have to offer. There are lots of exciting new developments in the city, and they’re adding to the vitality of life on campus.”

The event was sponsored by the Student Government Association along with the offices of the Provost, Student Activities, Multicultural Affairs, and Communications and Marketing, and the Division of Student Affairs and Campus Recreation Center.

Scores released this fall by the international student assessment test administered by the Organization for Economic Cooperation and Development underscored this problem. Students from the United States had some of the poorest scores of any industrialized nation. A recent Wall Street Journal article, in particular, pointed to the link between these low numbers and the potential future dearth of professionals and researchers in this field and the resulting negative effect on the U.S. economy.

“T he STEM Fellows Program represents a coordinated effort, among schools, colleges, and private industry in the northeast region of Massachusetts, to respond to the urgent need for more highly qualified people to enter the fields of science, technology, engineering and mathematics,” says Don Pliore, dean of the Graduate School of Education and co-chairman of the STEM program.

Teamwork Lauded at Partnership Celebration

Executive Vice Chancellor Frederick P. Sperounis, left, welcomes featured speakers Kendall Wallace, center, and State Sen. Steven Panagiotakos to the Partners in Progress luncheon held on campus last fall. Wallace is publisher of the Lowell Sun. The event recognized the important partnerships in the public and private sectors that have helped move UMass Lowell and the region forward.

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Shea Follows Idea to Possible Cancer Treatment

Tom Shea hadn’t been planning to do cancer research. His field is Alzheimer’s.

Years of studies have made Prof. Thomas Shea of the Biological Sciences Department an expert on the use of antioxidants in slowing the effects of neurological degeneration in aging.

Neuroblastoma, on the other hand, is the most common form of solid tumor cancer in newborn infants.

“Neuroblastoma is so hard to treat,” says Shea. “Chemotherapy attacks fast-growing cells and, in infants, a lot of cells are fast-growing.” Radiation poses similar problems and some neuroblastomas don’t respond at all to classical treatments.

“I realized that even in our Alzheimer’s studies, we have used antioxidants for brain cells that grow continuously and that’s similar to cancer. A new idea: The antioxidants stopped neuron growth in our studies. Would it work for neuroblastoma?”

This “revolutionary approach,” says Shea, provoked interest at the National Institutes of Health (NIH) which awarded him a one-year pilot grant of $170,000 along with co-investigators Prof. Emeritus Arthur Watterson of the Chemistry Department and Prof. Robert Nicolosi of Health and Clinical Sciences.

For the initial experiments, Shea turned to Watterson to see if an antioxidant formulation could be encapsulated in nanoparticles for effective delivery.

In a span of six weeks last year, four hurricanes ravaged parts of Florida and caused an estimated $23 billion in damage. Residents saw their mobile homes literally disintegrate in high winds. The homes were torn apart and the debris became deadly shrapnel causing further devastation and loss.

To prevent such destruction of mobile homes, M echanical Engineering Prof. Gene Niemi and Majid Charmchi are testing a new tenting modification that could possibly save these structures from windstorms and other severe weather conditions.

The two were approached by Stormshield, a Rochester, N.Y., company, which has a patent on an idea that may prevent or reduce such damage. The concept involves installing a “tent” over a single- or double-wide mobile home that can be deployed when warnings of approaching storms are issued.

To conduct their research, Niemi and Charmchi, along with graduate assistants Pradeep Govindaiah and Linghua Chen, created a small scale model of a mobile home. Using a two-foot by three-foot, 200 m.p.h. subsonic wind tunnel, they placed the model on a rotating turntable to measure various force components when high winds come from different directions.

The tests continued through the winter and the team spent the spring semester studying and analyzing the data.

“I think this research has a lot of potential,” says Niemi. “It all goes well, three or four years down the road it could be ready for the public to own.”

Professors Aim to Protect Mobile Homes from Hurricane Destruction

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As a student at UMass Boston in the early eighties, John Warner was a music major. He played guitar and keyboard in a band called The Elements. When he wasn’t studying or in classes or working his full-time job, he was mostly writing songs. His future, in his own mind, was never in question—“I wanted to be a musician,” he says.

Then one day in early 1981, as he tells it, he followed another student named Paul into a chemistry research lab to oblige a professor who had asked for a volunteer. And over the course of the next hour or so, there occurred for him an epiphany that could only have been the product of a most unusual mind:

“It just came to me that designing the synthesis of a molecule was exactly the same as composing a song.”

John Warner Knows It Isn’t Easy Being Green, But He Still Makes That His Mission.

Everything changed after that. The music major was traded for chemistry, as John began spending his free hours in the lab. The lab work led to published papers, then to lectures—almost unheard of for a UMass undergrad. The world began taking notice—in the spring of 1984, anointed as a member of “Boston’s Best and Brightest,” he appeared on the cover of Celebrity magazine.

From that point on, life’s focus narrowed. But the bar remained high. From UMass he went on to Princeton—

“...I just know that, at some point in there, I became aware that I had no idea what made a substance toxic—and that not many other people did, either. And over time, that thought just kind of took me over, it wouldn’t let go.”

— John Warner

where, as a Ph.D. student in the mid-'80s, his lab research led to a cancer drug that, 17 years later, would ease his own mother’s pain in her battle with the disease (“It’s amazing,” he says, “the relationships things seem to have in life.”)

In 1988, on the completion of his doctorate, came the next major turn in the road: a call from Polaroid, which wanted him to apply the same principles—of medicinal chemistry—to the field of photography. This led to an eight-year relationship, out of which grew yet another forward leap: an arcane but critical new process—known formally as “non-covalent derivitization,” or more simply, “the Warner Complexes”—that controls the behavior of molecules in film.

Then, five years later, the real world intruded cruelly. A nd John’s path changed again. His son, John, two years old, died after a long battle—and in his view, inexplicably—of a rare and poorly understood liver disease.

“It’s hard to explain what happened in my head,” he says today of that time. “I just started thinking things, asking questions—why he died, what might have caused it, whether there might have been something toxic involved. I’m really not sure what took me in that direction. When you’re lying awake at night after your child dies, your mind goes to different places…

“...I just know that, at some point in there, I became aware that I had no idea what made a substance toxic—and that not many other people did, either. And over time, that thought just kind of took me over, it wouldn’t let go.”

— John Warner

In 1996, at the age of 34, he left Polaroid and returned to UMass Boston, this time as a professor of chemistry—and, perhaps for the first time ever, with a clear and unshakable vision of his mission in the world: “I just wanted to teach students about toxicity as a part of the chemical learning process. It was really simple as that.”

That mission hasn’t changed, though it has widened as the years have passed, and taken on urgency. John left his position in the Chemistry Department at the Boston campus earlier this year, after an eight-year teaching stint, to join the faculty of the School of Health and Environment at UMass Lowell—where, he says, “the right pieces and the right people were all committed and in place.” (UMass Lowell, and its faculty, have been involved with Warner and his work since long before he came here from Boston. Chemistry Prof. Sukant Tripathy, who died in 2000, worked with him for more than a year before his death. He first Green Chemistry Conference, says Warner, was dedicated to his memory.)

But whatever the campus or particular emphasis, the priorities remain the same: the broad issue of chemical toxicity...
ity—where it is found, how best to avoid or prevent it, the ignorance that surrounds it across academe—has become, for John Warner, as much a signature as a cause.

“Do you know,” he says, “that when I was going for my chemistry doctorate at Princeton, I had to translate an article from French to English, but there was no requirement that I know what makes a molecule toxic? That’s kind of backward to me.”

That’s always seemed kind of extraordinary as science itself. Known as Green Chemistry, it was developed jointly by Warner and an EPA scientist named Paul Anastas—the same Paul Anastas, Warner and an EPA scientist named Paul Anastas, the same Paul Anastas, who, in the late 1980s, was at the Environmental Protection Agency. But for Warner, the idea of making things safer by understanding the chemical processes more deeply, is as old as science itself. Known as Green Chemistry, it was developed jointly by Warner and an EPA scientist named Paul Anastas—the same Paul Anastas, who, in the late 1980s, was at the Environmental Protection Agency. But for Warner, the idea of making things safer by understanding the chemical processes more deeply, is as old as science itself.

The mission of that day, says UMass Lowell Professor and former TURI Director Ken Geiser, today co-director of the Lowell Center for Sustainable Production, is fairly typical of the role in which TURI finds itself—and for which it was created: “Chemistry, as it’s evolved, is a pretty rigid science. It’s driven largely by costs, as well as by performance questions—what chemicals will retard flame? What particular molecular configuration will remove a fat globule from a surface? When things get this narrow and results-oriented, you can lose sight of a lot of other stuff. How do you make industry more responsible? How do you recycle chemicals? What’s the best way to conserve for the next generation?—questions like these, most of the larger social questions, just get stripped away...

“TURI has done to reduce toxic chemicals from the environment, but also, more generally, to keep some of those larger questions on the table.”

TURI came into being 16 years ago, as an outgrowth of the Toxics Use Reduction Institute (TURI), which, together with representatives of the Environmental Protection Agency (EPA) and others, was there to assist the companies in finding more compliant, less toxic ways to keep their products safe from flame. The mission of that day, says UMass Lowell Professor and former TURI Director Ken Geiser, today co-director of the Lowell Center for Sustainable Production, is fairly typical of the role in which TURI finds itself—and for which it was created: “Chemistry, as it’s evolved, is a pretty rigid science. It’s driven largely by costs, as well as by performance questions—what chemicals will retard flame? What particular molecular configuration will remove a fat globule from a surface? When things get this narrow and results-oriented, you can lose sight of a lot of other stuff. How do you make industry more responsible? How do you recycle chemicals? What’s the best way to conserve for the next generation?—questions like these, most of the larger social questions, just get stripped away...

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Prof. John Warner and Pam Crise of TURI, TURI, Green Chemistry, Put UMass Lowell in the Vanguard in U.S. on the first Thursday of last November, faced with mounting evidence that the chemicals used in flame retardants were showing up in the environment—especially in fish and human breast milk—roughly 75 representatives from Massachusetts businesses came together at a hotel in Worcester to discuss ways to make their products safer. Mostly from the state’s electronics or wire and cable industries, they were being hosted that day by the UMass Lowell Toxics Use Reduction Institute (TURI), which, together with representatives of the Environmental Protection Agency (EPA) and others, was there to assist the companies in finding more compliant, less toxic ways to keep their products safe from flame. The mission of that day, says UMass Lowell Professor and former TURI Director Ken Geiser, today co-director of the Lowell Center for Sustainable Production, is fairly typical of the role in which TURI finds itself—and for which it was created: “Chemistry, as it’s evolved, is a pretty rigid science. It’s driven largely by costs, as well as by performance questions—what chemicals will retard flame? What particular molecular configuration will remove a fat globule from a surface? When things get this narrow and results-oriented, you can lose sight of a lot of other stuff. How do you make industry more responsible? How do you recycle chemicals? What’s the best way to conserve for the next generation?—questions like these, most of the larger social questions, just get stripped away...

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Prof. John Warner and Pam Crise of TURI
with the environment from the start. In other words, let’s figure out how not to generate [pollution] in the first place, rather than just treating or disposing of it after it’s created.”

As a practical means to this, students of green chemistry—again, according to the Center’s mission statement—‘will learn the skills necessary to design materials and processes with minimal or reduced environmental or toxicological impact.’ Part of this process will be a mastery of “the entire molecular life-cycle of any commercial endeavor.”

“My vision is that it will be a collaboration between the School of Health and Environment and the various [related] departments—Chemistry, Physics, Engineering, Work Environment, Psychology. The idea is that a student in one of these can take a course in, say, toxicology or environmental law and policy that will supplement the work he or she is already doing. The aim is to create a multidisciplinary student body— but one that understands and can anticipate the effect of industry and innovation on the environment. Multidisciplinary—that’s the key word in all this.”

Meanwhile, while the precise shape and future of U Mass Lowell’s green chemistry program remain in the hands of the University’s hierarchy, John Warner just keeps honing his message. In a recent, typical two-week period—in addition to teaching his classes—he headed an exhibition at the Boston Museum of Science for 200 area high-school students, a second at the Lexington Plastics Museum, and made appearances at both Brockton and Dedham high schools. Over spring break, along with several U Mass Lowell grad students, he served as guest speaker at a green chemistry conference in San Diego.

“We’ve got to get the word out, we’ve got to keep talking to people. If we keep on educating them the old way, we’re going to keep on getting the old result. That’s where you wait till 100,000 people have shown adverse effects, then the government decides to regulate, and the scientists—only then—start working on a plan to find a replacement. ‘That system isn’t going to work anymore. We need to start getting it right the first time. We need innovation. We need chemists talking to biologists; we need the ‘idea-makers’ talking to the ‘thing-makers’ about how to make better, safer things. We need a more diverse set of hands and eyes on the whole scientific process...’

U Mass Lowell is working on a number of fronts, says Diana Prieau-Brune, to make this “the greenest urban campus in the country within 10 years.”

“Green” in this case refers not to lawns and shrubbery but to buildings, laboratories and machinery that function in the most environmentally responsible way.

The “greening” of the campus is one part of the University’s Transformation Project, which seeks to identify internal mechanisms to strengthen and promote the relationship between the University and the community.

The Transformation Project is an extension of the Realignment Program, a multi-year project that repositioned the campus and established new priorities that have been published new priorities that have been articulated by the University. The first step will be to concentrate on a number of programs to help move the campus toward a greener future. These will include using green processes in construction programs and expanding on the work of Mark Lukitsch, the energy and utilities manager in the Office of Facilities.

“Greening can be simply put as cutting pollution by reducing energy consumption and building with materials that can curb health problems.”

— Mark Lukitsch

Diana Prieau-Brune

Mark Lukitsch

UML Strives to Become the Country's ‘Greenest’ Campus

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Greeing will be a prime consideration in two major projects now on the drawing board. One is the rehabilitation of the St. Joseph’s Hospital building, which the University is acquiring, and the nanomanufacturing Research Building slated for construction on U Mass Lowell’s campus in the near future.

The hospital project will be the more difficult of the two, Prieau-Brune says, because buildings constructed when the hospital was built were not designed to be environmentally correct. On the other hand, the nanomanufacturing building, which will be built from scratch, will be a “smart” building with maximum energy efficiency.

“The O’Leary Environmental System Management project has given us a lot of information that we can use-campus-wide in this new program,” says Prieau-Brune. “The formal program lasted a year but we’re still evaluating the results and implementing upgrades. O’Leary was ideal for this kind of project because the building contains both offices and laboratories.”

One important factor in all of these green initiatives is that they must be funded. While the University can realize through increased efficiencies in the use of utilities, that’s why Mark Lukitsch’s work is critical.

Lukitsch has identified five potential projects to continue moving the University toward the achievement of a green campus.

The five are an energy savings performance contract, an awareness campaign, the purchase of green power, the establishment of what the Environmental Protection Agency (EPA) calls Energy Star Facilities, and the support of other projects that include both faculty and students.

The energy savings performance contract, says Lukitsch, “would be a contract on the order of $10 to $20 million to replace systems such as lighting, steam plants and chillers. A medium or low building management systems to control air conditioning and heating, and remote monitoring. This lets us diagnose a building and reduce its energy usage by placing it on schedules so that heating and lighting, for

Edition 5.1

CoverStory

FeatureStory

Mark Lukitsch

Diana Prieau-Brune

Mark Lukitsch

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example, would be reduced when the building is not in use.

“This contract is a good way to achieve a lot of conservation fairly efficiently,” he says.

The awareness campaign would be an informational project by which fac-

ulty, staff and students would be reminded to use energy wisely and be sensitive to the objectives of the

program. The campaign would use U niversity publications, signs, posters, e-mail and the UMass Lowell Web site.

Buying green power would be an ini-

tiative wherein the University would seek to purchase a certain percentage of its energy — say for electricity —

from renewable sources, such as wind power, rather than from nuclear, oil or natural gas sources.

The EPA recognizes Energy Star facilities as those buildings that keep energy use per square foot below a spe-

cific threshold.

“We want to have at least five of our buildings in this category by the end of fiscal 2008,” Lukitch says. “That’s a

reasonable goal.”

A nd, finally, he says, “From time to time there will be projects that we’ll support because they would provide energy from renewable sources. For instance, we’re talking with Prof. Ziyad Salameh and the M a ssachusetts Energy Collaborative about installing photo-

voltaic cells atop one of our buildings as a source of electrical power.

“An example of a step toward greening the campus, Joe Caufield (project manager in the Facilities Department) installed new high effi-
cylience lighting and controls in the O’Dea Library media center and several

lecture halls in W eel H all. This new lighting and its controls reduce electrical con-

sumption by 50 to 60 percent, while producing the same or more illumination.”

“Greening,” Lukitch concludes, “can be simply put as cutting pollution by reducing energy consumption and building with materials that can curb health problems.”

Emeritus Prof. Dan G oblem of the Department of Environmental, Earth and Atmospheric Sciences, in an article about global warming published in the journal Chemistry World, contends that a process known as sequestering is “the only way forward” for reducing human-source carbon dioxide from the atmosphere.

A assoc. Prof. C aryn Cossé Bell of the History Department described the Haitian revolution’s legacy in Creole New Orleans at a session of Salon, the faculty colloquium in fine arts.

Emeritus Professor C harles Levastone of Work Environment and Dean D avid H. W egman of the School of Health and Environment were named co-recipients of the A lice Hamilton Award for 2004 by the A merican Public Health A ssociation’s Occupational Health and Safety Section.

Louis D IN atale, formerly director of U Mass Boston’s Center for State and Local Policy, has been named execu-

tive director of Public A Fairs at U Mass Lowell where he is guiding public policy initiatives, providing

marketing strategies, and researching and analyzing economic and social issues.

Susan Moir, a faculty associate of the Center for Women and Work, has completed research on women in the construction trades in preparation for outlining a plan for a pre-appren-
siceship model to serve as a guide for women who want to enter the industry.

Kristina Vedula, former dean of Engineering, and Prof. Julie Chen of M echanical Engineering have returned to the University classroom af-

fter having served with the National Science Foundation in Washington.

Science magazine recently published the research of Prof. Jayant Kumar, director of the Center for A dvanced M ate rials, whose research team synthesized greatly improved flame-

 retardant materials.

A assoc. Prof. David Kriebel of Work Environment has co-authored a textbook, Research M et hodology in O ccupational E pidemiology.

The National Institutes of H ealth has bestowed a $15,000 H ealth Dis-

trict Services Research Award on A st. Psychology Prof. K hanh D inh for separate studies involving M exican A merican women and A merican A mericans.

M echanical Engineering Prof. Sammy Shina’s project to help companies in the M assachusetts Lead Free C onsortium convert their opera-
tions to lead-free production was the subject of an article in Surface M unt Technology magazine.

A assoc. Prof. Paula Tesesco of the M usic Department has been appointed to the editorial board of the Journal of M usic T heory Pedagogy, which has published several of her articles.

The latest book by the Music Department’s Prof. John O’gazapian, M usic of the Colonial and Revolutionary Era, has been published by Green-

wood Press and is available, as he says, “in all the usual places.”

O neida Blagg, the former director of Student Services and an assistant to the dean of the College of Education at Northern Arizona University in Flagstaff, has been named director of U Mass Lowell’s office of Affirmative A ction Compliance and Equal Opportunity.

A st. Prof. Chad M ontrie of the History Department was named this year’s Scholar in the City to complete a history of Lowell’s Concord River corridor.

The Florida Department of Transportation invited Prof. Sam Palkowsky of the Civil and Environmental Engineering Department to provide assistance in designing plans to rebuild an elevated expressway in Tampa that was damaged during construction because of the failure of piers.

The photography of Prof. A rno Minkkinnen was featured in exhibits in N ew Y ork and Paris this academic year and he was an invited lecturer at the Rochester Institute of Technology, Holy C ross College and Plymouth State College.
Turning 25: Community Social Psychology at UML

W hy is an anthropologist featured on the Welcome page of the Web site for the graduate program in Community Social Psychology? Read the words of Margaret Mead: “Never doubt that a small group of thoughtful, committed citizens can change the world. Indeed, it is the only thing that ever has.” Her quotation captures the activist spirit and holistic world-view of people in the program and the discipline in general.

“Of our nearly 250 graduates in the past 25 years, the majority of them took on positions of leadership in our region, making real contributions to human development and social justice,” says Prof. Richard Siegel, coordinator of the graduate program. A social worker, a substance abuse counselor, a director of service learning in a community college, a police researcher, a coordinator of a local scholarship endowment program, a health outreach worker—these are the community psychologists in our midst.

Students in the program explore how individual, family, and community well-being interrelate within the larger contexts of living and working. As a field, community psychology arose from the texts of living and working. As a field, community psychology is one of the few master’s degree programs of its kind in the country. Typically, community psychology programs are clinically-oriented programs “We hoped to create a program that would be distinctive,” explains Siegel. “At the time, not many community psychology programs emphasized the social component. There was no graduate program in community psychology offered within the public higher education system in Massachusetts. Also, we believed that a program would help the new university in Lowell deliver real benefits to the city and area.” With its focus on service learning, community partnerships, and strengthening town-gown relations, the CSP program has an important contribution to the way U Mass Lowell operates and how the community views the campus today.

Chath piersath ’00, a counselor at South Bay Mental Health Center in Lowell, says he was drawn to the program because it is not based on a medical model. “It’s holistic and outward looking and looks at larger interventions and prevention. The emphasis is on strengths, not deficits.” When Chath piersath came to Lowell in the 1990s, fresh from an undergraduate program in International Service and Development, he worked with the Cambodian Mutual Assistance Association and the University’s Center for Family, Work and Community, where he heard about the program. The new center had emerged from the Department of Psychology and been shaped in large part by CSP program faculty.

“I was looking to improve my ability to write grants, develop programs, support community building, and strengthen health education in Lowell and Cambodia,” explains Chath. “The graduate program was a great fit.” He adds, so much so that in a year he will return to Cambodia to start a similar program at the University of Phnom Penh.

Brenda Geoffrey Costello ’88, ’01 directs the Campaign for Educational Excellence at Lowell High School—an effort to create permanent scholarships and endowed funds to assist college-bound students who may not be able to afford the college of their choice and for enrichment programs beyond services provided through public funding. “The education I received empowered me tremendously,” she says, “and I recommend it highly to those who have a common commitment to shared charitable interests in the community. The program is a perfect vehicle for those interested in better understanding the complex relationships of social organizations within a community.”

Prof. Nina Coppens has recently been teaching the Practicum, the program’s capstone course. “Our students learn how to analyze and solve research problems in a wide variety of community settings. The emphasis on facts, methods, values, and especially practical skills creates a dynamic learning experience,” says Coppens.

During the two-semester, community-based, supervised practicum, students apply, integrate, and evaluate the information and skills they have acquired in academic coursework. Most of the courses have an “applied” element, which accounts for the program’s long list of partners, including schools, health centers, youth clubs, neighborhood groups, human services agencies, cultural organizations and businesses.

“The program opened my eyes to the complexity of social and public policies,” says Brenda J. Bond, ’95, a police researcher at the John F. Kennedy School of Government at Harvard University. Having studied criminal justice and the discipline in its entirety, she graduated with a common commitment to shared charitable interests in the community.

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More than 400 alumni and friends attended the annual Alumni Hockey Night at the Tsongas Arena on Jan. 28. Helping to cheer on UML’s River Hawks to a game-winning victory are, from left, Richard Tremblay ’78, Mary Tremblay ’73, Tom Lumenello ’64 and Carolyn Lumenello ’63.

Enjoying an exciting night of Division I college hockey at the Tsongas Arena are, from left, alumnus and former math professor Tony Zona ’83, Laurie Zona, Guy Girard ’83, Charlene Girard, Kay Bourgault, Renee Boucher, Mike Bourgault ’85 and Tony Boucher ’85.

The fourth-annual Alumni Relations Council Wine and Dine Extravaganza was held at Ricardo’s Cafe Trattoria in Lowell on Feb. 20. Among the alumni and guests who enjoyed the Spanish Epicurean Extravaganza were, from left, John Scannell, Ann Scannell ’73 ’03, Richard “Ricardo” Rourke, Peter Richards ’79, Donna Richards, and Susan and Ronald Strauss ’82.

Alumni and guests at this year’s Wine and Dine event were served a five-course gourmet dinner, prepared by five local chefs, and complemented by wines specifically selected for each course. The diners included, from left, Barbara Danecki ’80, Dan Danecki ’81 ’85, Colleen and Michael Carlson ’77, John Nolan ’71 ’94 and Jim Nolan ’71.

Florida alumni gathered for a dinner in Naples in early March, hosted by the Office of University Advancement. Pictured, from left, are Tom Greene ’58, Hank Powell ’55, Senior Director of Development John Davis, Student Government President Heather Makrez ’06, Gladys and Richard Knight ’38, Josephine and Charlie Hoff ’66, Lynn and Everett Hillard ’53, and Executive Director for University Advancement Matthew Eynon.

Chancellor William T. Hogan greeted, from left, Richard Freeman ’59, Muriel Freeman and John Santos ’60 at the Palm Beach reception.

Members of Pi Lambda Phi fraternity reminisce about their Lowell days at a recent reunion gathering. Standing, from left, are Al Brilliant ’64, Dan Stern ’64, Howie Blank ’63, Ed Kaplan ’63, Morris Frimer ’64, Earl Goldberg ’65, Dick Shifman ’64 ’68, and Al Chernack ’63. Seated, from left, Herb Zaritzky ’62 ’63, Artie Stein ’64, Howie Hartley ’63, Dave Hopwood ’63, and Henry Alter ’64. If you are a member who would like to reconnect with your old friends, visit the PiLam Web site at http://www.websitespaces.com/pilam.
Pictured at an alumni dinner held in Plantation, Fla., are, seated, from left, Barry Small, Elisabeth Tasis-Small ’78, Provost John Wooding and Nancy Sposato. Standing, from left, Dean of Sciences Robert Tamarin, Raymond Rondon ’71, his mother Mrs. Rondon, Heather Makrez ’06 and Bill Laudani ’67.

Local-area alumni enjoyed a picnic gathering followed by a baseball game at the City of Palms Park where they cheered on the world champion Boston Red Sox at spring training. Pictured at the event are alumnus Dr. Jack Ryan ’85 and his two sons—all big Red Sox fans!

Rob Manning ’84, CEO and president of MFS Investment Management, came back to campus to speak to students and faculty as part of the Senior Executive Forum. Seen with Mr. Manning, center, are his former professor, Bernie Shapiro ’56, and Kathy Verreault ’78, dean of the College of Management. Mango Oga ’72 ’78, graduate of the Plastics Engineering Program and director of Transportation and Air Quality for the EPA, was back on campus this spring as a guest speaker at the Senior Executive Forum. Following her talk, Margo visited with her former professors and answered questions from students. The professors gathered with her here are, from left, Nick Schultz, Steve Orroth, Steve Driscoll, Rudy Deamin and Amad Tayebi.

The offices of Alumni Relations and Career Services recently held a career development event on campus for alumni. Following a presentation on situational leadership, alumni had an opportunity to network.

In Memoriam

Margo Oge ’72 ’78, graduate of the Plastics Engineering Program and director of Transportation and Air Quality for the EPA, was back on campus this spring as a guest speaker at the Senior Executive Forum. Following her talk, Margo visited with her former professors and answered questions from students. The professors gathered with her here are, from left, Nick Schultz, Steve Orroth, Steve Driscoll, Rudy Deamin and Amad Tayebi.

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The Department of Clinical Lab and Nutritional Sciences hosted an alumni gathering followed by a UML hockey game. Seen here with Prof. Kay Doyle, third from left, are alumni and faculty of the department. The group is looking forward to more events in the future.
UML Hockey Takes a Step Toward the Future

“W hat doesn’t kill you is going to make you better.”
UMass Lowell hockey Coach Blaise MacDonald is fond of saying that. It reflects the reality of life in hockey, and one of the most competitive conferences in the country, and makes clear the coach’s optimistic take on the future.

The River Hawks took a big step toward that future during the winter of 2004-05, compiling a record of 20-12-4. It was the school’s seventh 20-win season since joining Division I in 1983-84 and featured the school’s longest Division I unbeaten streak: 14 games.

“The 12 losses were the fewest since 1996.”
We lost 12 games all year, which was terrific. Five of them were to the University of Maine, four of them were played in Maine, which, by anybody's measure, is a tough place to play,” says MacDonald. “We had a tremendous year in a lot of aspects; there was a lot of growth, a lot of development.” — Coach Blaise MacDonald

The team played with the poise and confidence of veterans of the hockey wars, which they were and at the same time were not. The team featured only two seniors, both important contributors, but neither a dominant player. Most everybody will be back for the 2005-06 season.

The UNH win came before a packed Tsongas Arena and a new England wide television audience and served notice, nationally, the River Hawks were joining the upper echelon in college hockey.

The River Hawks then added an exclamation point to the program’s growth with a weekend home-and-home sweep of what was college hockey’s top ranked team, Boston College.

The River Hawks were led by Center Ben Walter. The junior finished the year with 26 goals and 39 points in 36 games played. The goal total put him third in the country and earned Walter second team All-Hockey East honors.

The team’s growth was clear both on and off the ice. Twenty hockey players made the Dean’s List at the year’s midpoint. Ten carried a 3.5 or better grade point average.

Playing in 25 games, he had a goals-against average of 2.52 and a save percentage of 91.2.

The team’s growth was clear both on and off the ice. Twenty hockey players made the Dean’s List at the year’s midpoint. Ten carried a 3.5 or better grade point average.

The hockey season did end abruptly. The River Hawks were knocked out of the Hockey East Tournament by perennial power UMaine in the first round.

“Whenever you lose a playoff series it’s very, very disappointing,” says MacDonald. “I really think we will take a lot of positives out of the season. Things happen for a reason. We will regroup a little bit and get better. This will make us a better club next year.”

Stacey Moragne Named All America

Stacey Moragne never went looking for attention.

His performance demanded it.

The 6-foot-4-inch, 216 pound junior from Evanston, Ill., became the focal point of a UMass Lowell men’s basketball team that finished 18-10 during what was supposed to be a rebuilding year.

In the process, Moragne wrote his name clearly and distinctly into the UMass Lowell basketball record book and others penciled his name into various awards.

Moragne was named the Division II Player of the Year by the Eastern Collegiate Athletic Conference and by the Northeast-10 Conference. He was named All America by various organizations including the National Association of Basketball Coaches.

He is the fifth men’s basketball player to earn All America honors. He joins former teammate Elad Inbar (2003,04), Brian Parath (1990), Leo Parent (1987, 88) and Bobby Licare (1987, 88).

Moragne’s performance may have surprised some, but not his coach.

“I am not surprised because I know what Stacey is made of,” says UML head coach Ken Barer. “I am pleased because he is being recognized for his consistent high level of play.”

Indeed, Moragne was the picture of consistency. He scored in double figures in all but one of the River Hawks games this season and compiled eight double-doubles. He was named the Northeast-10 Player of the Week in three successive weeks and was included as part of the conference honor roll five other times.

A southpaw with a soft touch from outside and a remarkable toughness under the basket, Moragne led the Northeast-10 in scoring with 22.7 points per game. Those numbers

By Bob Ellis

By Bob Ellis
Homecourt Advantage

We need to raise $750,000 in private contributions to assure the excellence of the interior of the Costello Athletic Center, thus enabling UMass Lowell’s athletic teams to continue their rich tradition of success in the highly competitive Northeast-10 Conference.

Show your pride in River Hawk athletics by helping to renovate the Costello Athletic Center. In the past seven years, the University has constructed a new outdoor complex for field hockey, soccer and track & field; a softball park; the Tsongas Arena; and Ed LeLacheur Baseball Park. The Costello Athletic Center is the only University athletic facility that hasn’t been updated.

The project will include:

• A new field
• New arena seating
• Interior painting
• New sound system
• New scoreboard

How can you help?

Make a donation.

The Costello Athletic Center serves the entire University and Greater Lowell communities. In addition to being the home of the basketball and volleyball teams, virtually all of the athletic teams use the facility as an indoor practice site. It is also used for youth tournaments, summer camps and clinics, and a host of non-athletic activities.

Help support the “Homecourt Advantage” campaign. Please mail your contribution to:

Department of Athletics
UMass Lowell
One University Avenue
Lowell, MA 01854

1950

With encouragement from Lowell Fund Director Katherine Haltings, Fred Moragne managed to track down a group of textile chemistry students in his class of 1950. For several decades, Fred taught chemistry at the University of North Carolina-Wilmington. “For 55 years, the initiative to reach out was there,” he says.

In 1956, David Kilian published his first book, Fusin’s, Cusin’s and Cuckin’s, with more than 500 pages of Yankee humor and perspective. David also writes for music periodicals.

1961

Professor of Music Education Dianne Dustin Kidzyczak is semi-retired, doing observations of students of teachers with Berklee College of Music. Next year she will retire fully and live six months on Cape Cod and six months in their condo in Pompano Beach, Fla. She and her husband continue to entertain with several bands in the Florida area. Dianne also sings with the big band Stage Door Canteen on Cape Cod and in the Boston area.

1969

Betsy Moore relocated in November to Sun City, Arizona. She is retired and working as a freelance writer. In the 1985 Picket, page 60, Gabrielle’s father was a mathematics teacher at Lowell High School. Her late husband, Bob Jassman, was president of Trust General in Montreal. Jim is retired from the Converse Products division of Bed Foods in Indianapolis.

1973

Jim Kozik is helping facilitate the production and delivery of recognition materials for the Preserve America program, chaired by Ms. Laura Bush. Jim is a highway engineer with the USDA Forest Service.

1974

Donald Campbell and his wife are proud to announce that their daughter has recently become engaged and is planning an August wedding.
Unanticipated $1 Million Gift Will Fund Student Scholarships

U Mass Lowell has received one of the largest single gifts ever, and it comes from the estate of an alumnus who died more than 40 years ago.

The University recently received word from the lawyers of Chili Cook, a 1905 graduate of the Lowell Textile School and went on to become president of Winslow Manufacturing. His legacy to UMass Lowell will total $1 million, a portion of which will be designated for the state’s endowment incentive program, Cook’s legacy to UMass Lowell. The Cheney Cook Scholarship Fund, established in 1961, will provide need-based grants to undergraduate students with demonstrated financial need. The fund is worth more than $50,000 today.

More satisfied with her life than she is now as a dancer and mother! Grace and her family, which includes two cats, are happily living in Danville, N. H.

Sally Carpenter Nunn is a clinical manager of the Swedish World Healing Center in Redmond, Wash. She has worked for Swedish for the last 15 years, with the last seven as a wound care clinician. She and her husband, Bob, have been married for 17 years and have two children, Rob and Jo. They are avid boaters and enjoy cruising Puget Sound and in the Canadian Gulf Islands.

Grace R (Edy) Girotti married Robert Girotti in 2002 and retired from programming in January 2003. In 2003 she gave birth to her son, Thomas Anthony. She says that she has never been happier with herself — he earned an electrical engineering degree from Northeastern University. Girotti is also a member of the marketing department at Banknorth Group, Inc. She lives in Atkinson, N. H.

Maura Bolduc has been promoted to vice president in the marketing department at Banknorth Group, Inc., in West Falmouth, Maine. Bolduc joined Banknorth in 2001. She lives in Akkonson, N. H.

Dr. Robert T. St. Clair is a deputy science adviser with the H.Q. European Command, U.S. Army Forces.

Catherine Moore has been an architect and performs belly dance, Dancing, a business that teaches belly dance at such beginner belly dance. She also runs a belly dance competition. The company is a belly dance instruction and specializes in the belly dance instruction.

Catherine Moore is also the owner of The Goddesses, a business that teaches belly dance and performs belly dance.

Ram Sudreddy M S ’92, senior vice president of Engineering at Aplited Micro Circuits Corp. (AMCC) in Andover, was the keynote speaker for the International Student Club’s second annual banquet in April.

Having been an international student himself — he earned an electrical engineering degree from Nagpur University in Guptinath — Sudreddy also has agreed to serve as a mentor to international students.

He has worked with Prof. Kanti Prasad of Electrical and Computer Engineering, and has hired a number of U M L students as trainees at AMCC.

Sudreddy was a co-founder and CEO of Cimaron Communications, an ad-based framing company that was acquired by AMCC in 1999. Prior to Cimaron, he was founder and vice president of research and development for Siltex Corporation, and held various engineering positions at AT & T’s Bell Laboratories.


Eric H ale has joined Northrop Grumman, Inc., as director of business development. Quantapoint is a provider of the world’s most trusted and accurate built document using laser scanning. Eric lives in Nareville, Illinois.

Stacey West and Kevin Geyar (’86) celebrated their 10th wedding anniversary in June with the birth of their fifth child, Josie Alexandra West Geyar. Joe joins Emily, 9, Connor, 7, and Phoebe. Stacey is a realtor with Century 21 Bridge Realty. Kevin is a special education teacher at Methuen High School.

Margaret “Meg” Smith is editor of the Berkshire Eagle newspaper. She received a 2004 first-place award from the New England Press Association for coverage of religious issues, for an article about the Islamic community’s observance of Ramadan. She shares a 2004 third-place award for coverage of social issues as co-writer of an article series on homeless-ness. She is a widely published writer of fiction and poetry and serves on the board of directors for the annual Lowell Fancast at Kerouac! Festival. She is associate editor of Modle Eastern Dance in New England Magazine and a staff writer for Jane magazine of Modle Eastern music and dance.

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University Launches Jack and Stella Kerouac Center for American Studies

The University’s new Jack and Stella Kerouac Center for American Studies is, in some ways, a light bulb over my head,” says Prof. Hilary Holladay, “I hope the light bulb will brighten and shine over the whole program over time.”

That light did, indeed, shine brightly this spring when a group of distinguished poets and scholars convened in Coburn Hall to participate in the first New England Poetry Conference, an event that introduced the new Center, named for Lowell writer Jack Kerouac and his wife, Stella Sampas Kerouac.

Starting in the fall, the Center also will bring scholars of American studies to the campus to speak on a variety of subjects, an initiative that Holladay expects will promote greater awareness as to what the Center is all about.

And, “down the road,” says Holladay, “we will bring scholars of American Studies to the region and to explore the ties linking literature, history, politics and culture.”

“We're still so much potential for deciding what American Studies is all about, and I think the Merrimack Valley is an ideal place to be making those decisions.”

— Prof. Hilary Holladay

The plan, says Holladay, is to connect with museums and community organizations in the region and to explore the ties linking literature, history, politics and culture.

“One important thing about this Center is that it’s not just about Kerouac. We named it after him because he's the most famous native son we have — at least, so far. The Center's programs will be wide-ranging and will examine all periods of literature and history.”

Programs like this fall’s speaker series are made possible, in part, by a $50,000 gift from Kerouac Estate Executor John Sampas, Stella’s brother.

“This is exactly the sort of thing Jack would have been thrilled and honored to be associated with,” says Sampas. “He was always enthusiastic about nurturing the humanities in Lowell.”

While A merican Studies is an emerg- ing field at UMass Lowell, it is not new. The program began in the early 1970s under the direction of Cliff Lewis, professor emeritus of English. Lewis shaped and guided the program through two decades before handing the reigns to English Prof. Melissa Pennell and, subsequently, to Holladay.

There are now about 20 undergraduates majoring in American Studies, which invites students to examine the development of American society and its culture.

“There's still so much potential for deciding what American Studies is all about,” says Holladay. “And I think the Merrimack Valley is an ideal place to be making those decisions.”

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The new Jack and Stella Kerouac Center for American Studies is located in Coburn Hall on the UMass Lowell campus.

University of Massachusetts-Lowell

SPRING 2005
George Sateriale ’84 Engineers a Career in Magic

George Sateriale made his debut as a professional magician when he was 12 years old.

A woman who lived across the street from his parents’ summer cottage in Wolfeboro, N. H., was having a birthday party for one of her grandchildren and she asked George to come over and do some magic tricks for the children. A few days later, she handed him five dollars and said, “Now, you’re a professional.”

But that was a long time ago — long before he graduated from the University of Lowell in 1984 with a degree in mechanical engineering, and long before he gained international recognition in the world of magic, becoming the only person in the industry to win two gold medals — one each at the annual conventions of the Society of American Magicians and the International Brotherhood of Magicians.

Sateriale became hooked on magic at the age of eight when his father showed him a grandfather’s clock. At first he didn’t think much of it, but the more he thought about it, the better he liked it. It could, he reasoned, become his trademark.

U sing his engineering skills, he built a clock that was the centerpiece of his act when he won the two gold medals in 1999. In this performance, he makes doves appear on his fingertips and places them inside the face of the clock. He removes the sphere at the end of the pendulum and makes it multiply and then disappear.

But all his magic is not performed on a stage. He once performed a two-person act at the annual convention of the Society of American Magicians and the Interna- tional Brotherhood of Magicians.

Sateriale says he doesn’t have an agent but does work through several agencies. Whatev- er method he uses, it must be effective.

He has appeared in shows in New York, Los Angeles, Canada, Europe and Asia, and on trans- Atlantic cruise ships. The corporations for which he has performed read like a page from Fortune 500.

“I travel quite a bit,” he says, “and Holly goes with me most of the time. “We do a two-person act where she appears and disappears.”

The part of the business he enjoys most, he says, is “creating that same feeling of amazement in others that I felt when my dad showed me that first coin trick. I remember it like it was yesterday.”

Old friends and classmates may be able to catch his show this July when he performs at the annual convention of the Society of American Magicians at John Hancock Hall in Boston. Details may be found on his Web site: saterial.com.


By Jack McDonough

George Sateriale ’84 Engineers a Career in Magic

When he graduated, he went to work for a company that designed circuit boards but he continued to dabble in magic, wondering if he could make a living at it. He was getting offers to perform on cruise ships and do a lot of traveling, something that wasn’t possible because of his job.

By this time he was planning to marry Holly Somerville, the cousin of his old college roommate, Ken Campbell. Holly encouraged George to give magic a shot.

His first jobs were on cruise ships but, he says, there was no big bolt out of the blue that catapulted his career.

“You just work hard, he says, “and it slowly sneaks up on you. Twenty years later you look back and realize how far you’ve come.”

Nice having turned professional, George deleted the “p” at the end of Sateriale. He became George Saterial (rhymes with “martial”) because he felt it would be easier for people to pronounce.

He also began studying acting, voice and corporeal mime.

A clipping lesson were important, he says, because “any kind of performing is acting. And it gives you more confidence on stage. The mime lessons taught me how to use my body to communicate. That’s important because in some parts of my act I don’t speak, and body language is important.”

The voice lessons helped him to overcome his typical Boston accent so that now, no matter where he appears, people can’t tell where he’s from.

In the latter part of the 1980s, Saterial decided to add doves to his act — but he didn’t want to use anything as mundane as a cage. Then one day, while wandering through a furniture store, he spied a grandfather’s clock. At first he didn’t think much of it, but the more he thought of it, the better he liked it. It could, he reasoned, become his trademark.

Using his engineering skills, he built a clock that was the centerpiece of his act when he won the two gold medals in 1999. In this performance, he makes doves appear on his fingertips and places them inside the face of the clock. He removes the sphere at the end of the pendulum and makes it multiply and then disappear.

A second dove materializes and, when Saterial opens the face of the clock, the doves inside are gone, replaced by the clock’s gears and cogs.

But all his magic is not performed on a stage. He once performed on a movie set. When Good Will Hunting, starring Matt Damon and Minnie Driver, was being shot in Cambridge, Saterial was hired to play the role of a street magician.

But as is often the case with movies, his scene was cut in the final editing. The good news, however, is that he still receives royal-
ty checks for his work in the film.

The magician who started devising tricks with his mother’s cook-ware says, “A magician makes things that work in a certain way. When you design a magic trick, you engineer something that looks ordinary but does extraordinary things — or that does something completely different from what it appears intended to do.”

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Lowell Tech Alumnus, an Industry Pioneer, Will Fund Plastics Scholarships as a Means of ‘Giving Back’

The concept of “lean manufacturing,” as Joe Day describes it, was a new one to Americans in the early 1990s. A somewhat complex, but highly effective methodology designed to lower a manufacturer’s costs, reduce waste, shorten delivery times and improve quality—all at once, ideally—it had been in use by the Japanese for some time already (notably at Toyota, but also elsewhere in Japan), but remained largely unknown by American industry. Until Joe Day, then CEO of Freudenberg-NOK (FNGP), a billion-dollar automotive supplier outside Detroit, made the introductions.

“I was recognized for installing the methods at our company, then teaching them to some of our customers,” says Day over the phone from his winter home in Palm Beach. “I guess you could say I Americanized the practice.”

Day, a 1966 graduate of Lowell Tech with a degree in plastics engineering, has been retired now nearly three years. From time to time as he talks, he excuses himself to gently shush a grandchild—he has 10, the offspring of six daughters—who has turned the TV volume up just a bit too loud. Freudenberg-NOK, he explains, is the U.S. company that was created as a third partner to two other firms: the German Freudenberg and the Japanese NOK (the three, together, rank as the largest non-tire rubber fabricator in the world). “So, with the Japanese heritage we had already,” he says, “the introduction of lean manufacturing came pretty naturally to us.”

Day served for 14 years, from 1988 to 2002, as CEO of the American partner-firm, a maker of oil seals and vibration-dampening devices—and widely recognized today as among the North American benchmark companies for lean manufacturing systems. Prior to that, for eight years, he was with the Dexter Group of Hartford, Conn., where he served as president of several of Dexter’s businesses. And for the 15 years before that—beginning just weeks after his graduation from Lowell Tech—he was with G.E., where he worked his way through several sales and marketing spots to finish as general manager of a company-owned plastics firm.

Through every phase of his 37-year career, he says, from the earliest days as a sales trainee right through to the top job at Freudenberg, he was “wonderfully well served” by his four sons as an engineering major at Lowell Tech.

“It gave me,” he says, “just a great technical basis for understanding the details of manufacturing, as well as a broad general grasp of what it takes to run a business.”

In gratitude for those early foundations, he has decided, he says, that the time has come to give back: “I’ve been fortunate. I’ve had a great career. And now, being retired, I have an opportunity—to help prepare other students, through the same tools I was given, to create great careers of their own.”

To this end, Joe Day has made possible a gift to the University: $405,000, $270,000 of his own funds, with the remainder as matching monies from the state. Half of this amount will endow UMass Lowell scholarships in the science tracks of plastics and rubber engineering; the other half will benefit the chancellor’s discretionary fund.

“This is an extraordinary gift,” says Executive Director of Advancement Matthew Eynon. “For Joe to show this level of generosity to the University is really indicative of his commitment—both to UMass Lowell and to the plastics and rubber industries. It also, I think, serves as a pretty great inspiration for any other alumni who might be considering how or whether to give.”

This is not the first time Day has been involved in the giving of money to the University. As the Freudenberg-NOK CEO in the late 1990s, he oversaw the company’s funding of a professorship in rubber technology. “We saw the need for an increase in the number of rubber and elastomer (a synthetic rubber) engineers. So FNGP subsidized the hiring of a professor (Plastics Engineering Assoc. Prof. Joey Mead) to try to address that need.”

But that decision, he says, was more pragmatic than personal. Freudenberg-NOK had five factories in New Hampshire at the time, and UMass Lowell—“a source of both engineering talent and technical support”—was a logical choice for the company’s subsidy funds. “It was an easy decision,” remembers Day today. “The credit really goes to the University and Freudenberg-NOK.”

The more recent personal gift, though, is a different matter altogether:

“My entire career has been devoted to the plastics and rubber industries. That work has been my life. So really, to have the opportunity to give back this way—to be able to help prepare UMass Lowell students to succeed in the same fields—that’s a very special thing for me.”

— Joe Day
# UMass Lowell Alumni Gift Items

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<thead>
<tr>
<th>Item #</th>
<th>Quantity</th>
<th>Description</th>
<th>School/Building</th>
<th>Color</th>
<th>Size</th>
<th>Price</th>
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<tbody>
<tr>
<td>1</td>
<td></td>
<td>Champion Hooded Sweatshirt</td>
<td></td>
<td>Gray</td>
<td>S/M/L/XL/XXL</td>
<td>$34.99</td>
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<tr>
<td>2</td>
<td></td>
<td>Big Cotton Navy Crew Gear For Sports nvy crew with embroidered logo. Available with Lowell Tech or University of Lowell logo. Sizes S-XXL. $34.99 Item #4</td>
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<td>3</td>
<td></td>
<td>Champion Heavy Weight Sweatshirt Screen-printed collegiate sweatshirt available in charcoal gray. $14.99 Item #6</td>
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<tr>
<td>4</td>
<td></td>
<td>Heavy Weight Golf Shirt. Navy golf shirt with embroidered left chest logo. Available with Lowell Tech or University of Lowell logo. S-XXL. $34.98 Item #4</td>
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<td>5</td>
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<td>University Picture Framed picture available with picture of Southwick, Cummock or Coburn Hall. Available in 10x12 pen &amp; ink style for $85 or full color printed for $140. Personalization is available on the pen &amp; ink drawing for an additional $10. Item #5</td>
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<td>6</td>
<td></td>
<td>Champion 50/50 Sweatshirt Screenprinted collegiate sweatshirt available in gray only. S-XXL. $14.98 Item #3</td>
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<td>7</td>
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<td>UMass Lowell Tapestry Beautiful large woven tapestry with pictures of Coburn, Southwick, Cummock Halls and the Tsongas Arena. $44.98 Item #7</td>
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<td>8</td>
<td></td>
<td>Rolled Blanket UMass logo fleece sweatshirt blanket available in red, blue, pink or ocean tie-dye. $29.98 Item #8</td>
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<td>9</td>
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<td>Hanes Heavy Weight Tees Gray heavy weight tees available in Lowell Tech and ULowell imprint. $14.98. S-XXL. Similar graphic is available on a gray MV sport tee for Lowell State at a clearance price of $8.39. Item #9</td>
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<td>10</td>
<td></td>
<td>Golf Wind Jacket. Gear For Sports durable navy embroidered wind jacket. Available with Lowell Tech or University of Lowell logo. Available in M-XXL. $49.98 Item #10</td>
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<tr>
<td>11</td>
<td></td>
<td>Baseball hat. Our number one selling baseball hat. The &quot;L&quot; Hat is available in Red or Navy and has the Riverhawk logo on the back. $14.98 Item #11</td>
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<tr>
<td>12</td>
<td></td>
<td>Champion Tee Shirt UMass Lowell screen-printed tee shirt. Available in gray, red or blue. Sizes S-XXL. $14.98 Item #12</td>
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<td>13</td>
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<td>University Chairs Armchair. Back with cherry arms and back lasered seal item #13A Armchair $369.98 item #13B Boston Rocker $369.98</td>
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<td>14</td>
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<td>University Chairs. Back with cherry arms and back lasered seal item #13A Armchair $369.98 item #13B Boston Rocker $369.98</td>
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<td>15</td>
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<td>Alumni Keychain UMass Lowell logo alumni metal keychain. $5.98 Postage &amp; Handling on this item is $1.95. Item #15</td>
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<td>16</td>
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<td>Alumni Decals UMass Lowell Alumni River Hawk decal. UMass Lowell Alumni square decal. University of Lowell Alumni decal. $1.49 each Postage &amp; Handling on this item is 50 cents. Item #14</td>
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<td>17</td>
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<td>For additional merchandise, visit us online at <a href="http://umilowell.bkstore.com">http://umilowell.bkstore.com</a></td>
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**Total Amount**

Please allow 3-4 weeks for delivery. Prices subject to change. Shipping and Handling: $6.95 for the first item, $1.95 for each additional item. University Chairs $25. 

To order, 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 the UML Bookstore at 978-934-2623 or e-mail us at bksumassnorth@bncollege.com. You may also order merchandise directly on our website at http://www.umilowell.bkstore.com.

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**UMass Lowell Alumni Gift Items**

**Order Form**

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<thead>
<tr>
<th>Name</th>
<th>Day Phone</th>
<th>Class Year</th>
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<th>Address</th>
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**Credit Card #**

- [ ] Visa
- [ ] MC
- [ ] Amex
- [ ] Discover
- [ ] check enclosed (payable to UMass Lowell Bookstore)

**Exp. Date**

**Signature**

**Item #** | **Quantity** | **Price**
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**School/Building**

**Color** | **Size** | **Price**
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</table>

**Merchandise Total**

MA residents add 5% tax to all non-clothing items

Add shipping and handling + $25 for mailing chairs

Please allow 3-4 weeks for delivery. Prices subject to change. Shipping and Handling: $6.95 for the first item, $1.95 for each additional item. University Chairs $25.

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**Champion Heavy Weight Sweatshirt**

Screen-printed collegiate sweatshirt available in gray only. S-XXL. $44.98 Item #3

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**Champion Hooded Sweatshirt**

50/50 Fleece hooded sweatshirt Sizes: S/M/L/XL/XXL Color: Gray $34.99 Item #1

---

**Big Cotton Navy Crew Gear For Sports nvy crew with embroidered logo. Available with Lowell Tech or University of Lowell logo. Sizes S-XXL. $34.98 Item #4**

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**Rolled Blanket**

UMass logo fleece sweatshirt blanket available in red, blue, pink or ocean tie-dye. $29.98 Item #8

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**Hanes Heavy Weight Tees**

Gray heavy weight tees available in Lowell Tech and ULowell imprint. $14.98. S-XXL. Similar graphic is available on a gray MV sport tee for Lowell State at a clearance price of $8.39. Item #9

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**Champion Tee Shirt**

UMass Lowell screen-printed tee shirt. Available in gray, red or blue. Sizes S-XXL. $14.98 Item #12

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**Alumni Decals**

UMass Lowell Alumni River Hawk decal. UMass Lowell Alumni square decal. University of Lowell Alumni decal. $1.49 each Postage & Handling on this item is 50 cents. Item #14

---

**Alumni Keychain**

UMass Lowell logo alumni metal keychain. $5.98 Postage & Handling on this item is $1.95. Item #15

---

**Champion Heavy Weight Sweatshirt**

Screen-printed collegiate sweatshirt available in gray only. S-XXL. $44.98 Item #3

---

**Golf Wind Jacket. Gear For Sports durable navy embroidered wind jacket. Available with Lowell Tech or University of Lowell logo. Available in M-XXL. $49.98 Item #10**