

UML

UMASS LOWELL MAGAZINE

FALL 2017



WHAT IF
YOU LIVE
TO 100?

Page 24

SUN SALUTATION

The rare total solar eclipse that swept across the U.S. in August was a boon for UMass Lowell researchers. Students and faculty from the Lowell Center for Space Science and Technology took advantage of the unique conditions to study how space weather affects things like GPS navigation, short-wave radio and satellite communications.

Physics professor and center director Supriya Chakrabarti traveled to Jackson, Wyo., which was in the swath of country that experienced a total blockage of the sun. Working with physics Assist. Prof. Timothy Cook, he used a custom-built spectrograph to study changes in the upper atmosphere during the eclipse. Two graduate students conducted a similar experiment near Carbondale, Ill., which was also in the eclipse's path of totality.

Edwin Aguirre, a senior science writer in the Office of University Relations and his wife, Imelda Joson, traveled to Riverton, Wyo., to view the eclipse and shoot photos for the "Eclipse Megamovie," a project launched by Google and the University of California Berkeley.

The project's goal is to aggregate pictures of the eclipse from more than 1,000 volunteer photographers and amateur astronomers. The collection of images will help scientists study the dynamics of the sun's inner corona and measure the size of the sun with better precision.

This photo, taken by Aguirre during the peak of the eclipse, shows the moon in front of the sun. —JG



The UMass Lowell Alumni Magazine is published by:
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A message from
Chancellor Jacqueline F. Moloney '75, '92

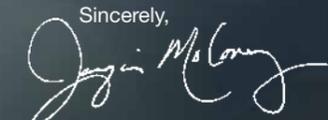
Are you noticing more and more people who are active into their 80s and 90s—and beyond? In fact, the odds have never been better that each of us will hit the century mark. Since 2000, the number of Americans who live to age 100 has grown by nearly 50 percent.

That trend has many implications on the way we live and work—and researchers at UMass Lowell are tackling many of them. From the use of smart technologies like sensors for improved home health care, to high-resolution imaging for better Alzheimer's detection, to the economic and environmental challenges related to a rapidly aging population, our faculty's work is at the forefront of the longevity boom. You can read all about it in our cover story on Page 24.

The youngest members of our community, our new class of freshmen, are most likely to reach 100—and we're thrilled to launch what we hope will be a long partnership with them. We welcomed 3,200 new students in September, bringing enrollment to 18,000 for the first time in the university's history.

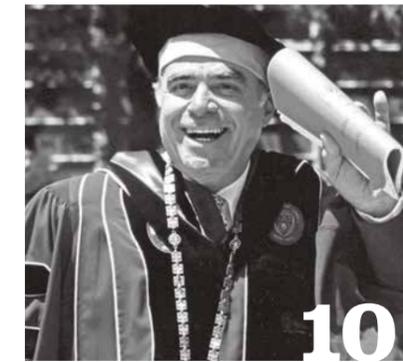
Fall is a busy time on campus, and we invite you to join us at one of the many exciting events the Office of Alumni Relations has planned for the coming months (Page 57).

In the meantime, I wish you a happy and productive season.

Sincerely,

Jacquie Moloney '75, '92



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The UMass Lowell Magazine for Alumni and Friends has been honored with multiple Hermes Creative Awards, a Silver Bell Ringer, a CASE District I Silver Excellence Award, an APEX Award of Excellence, a Higher Ed Marketing Award and honorable mentions in the PR Daily Awards and the PR Daily Nonprofit PR Awards.



EDITOR'S NOTE: Please send comments to Editor Sarah McAdams Corbett at Sarah_Corbett@uml.edu. Submit class notes at www.uml.edu/advancement/classnotes.



CAMPUS LIFE

ROCKING THE BOAT

As part of Opening Week festivities in early September, students took advantage of free kayak rentals for a sunset paddle on the Merrimack River.



TRENDING @UML



THEY'LL HAVE A FIELD DAY WITH THIS ONE

The nearly 3,000 and 1,000 students in intramural and club sports, respectively, will no longer have to trek to North Campus at 10 p.m. on a Monday night to play a soccer game. Brand new athletic and recreation space will open this fall in the space formerly occupied by Notini & Sons on East Campus. When the warehouse closed, the university purchased the property and immediately began planning Aiken Fields, which will include two tennis courts and two AstroTurf fields surrounded by stadium lights and scoreboards.

ALL HOT AIR

Many professors travel or conduct research over the summer. Music Prof. John Shirley was tapped to teach harmonica outside Boston's Faneuil Hall. Shirley, who also led a harmonica jam at the June 21 Make Music Boston event at Magazine Beach Park, only began playing harmonica in 2012, but he was a fast learner and released a five-song, genre-hopping recording, "Not So Blue," in 2015. Since then, he's been on a mission to spread the love, teaching group lessons at the university's Mary Jo Leahy Symphonic Band Camp for the past two summers, leading several group classes of music studies majors and teaching Lowell-area retirees as part of the Learning in Retirement Association program.

DREAM WEAVERS

Can the university help bring Lowell back to its roots and launch a 21st century textile boom? That's what the state is banking on. Gov. Charlie Baker awarded UMass Lowell \$11.3 million to establish a Fabric Discovery Center focused on smart fibers and wearable electronics. Located at the Innovation Hub, the university's incubation and research space in downtown Lowell, the center is a partnership with Advanced Functional Fabrics of America, an independent nonprofit founded by MIT, and NextFlex, a California-based hybrid electronics manufacturing company. Among other things, the center will explore technology that would produce fabrics that monitor your health, allow you to communicate or keep you cool or warm.

FAKE NEWS, FOR THE WIN

A new theory says a sudden reversal of Earth's gravity wiped out the dinosaurs. All creatures fell up, then came crashing back down again when gravity returned to normal—and anything larger than 55 pounds either died or failed to survive in large enough numbers to reproduce. There's not a shred of scientific evidence for that idea. But it did win UMass Lowell math Prof. James Propp top honors this spring at BAHFest—the Festival of Bad Ad Hoc Hypotheses, an MIT-sponsored contest for silly, pseudoscientific theories.

"I'm a mathematician, so part of my job is taking an absurd-seeming premise and seeing what consequences it logically leads to—which is also what a lot of comedians do," Propp says. "In this case, you think, 'Animals fall up, animals fall down, animals die.' Then your next thought is, 'Small animals can survive a fall better than big animals.' And then you see that there's a fit between your totally goofy idea and an actual historical event, which is the extinction of the large dinosaurs."



ART OF GOLD

Can artists get good jobs? With a UML degree, they can. PayScale.com rated UMass Lowell No. 1 in the nation for its 20-year return on investment for art majors and art careers. We're not surprised—our art and design alumni are rocking jobs at organizations like Adidas, Converse, iRobot, National Geographic and NASA.



 **CHECK OUT MORE TRENDING**
UMass Lowell news at uml.edu/news.

5 QUESTIONS on Prince with Alex Case



Sound Recording Technology Assoc. Prof. Alex Case has long admired the late musician Prince, but his appreciation grew when he traveled to Manchester, England, recently to speak at "Purple Reign: An Interdisciplinary Conference on the Life and Legacy of Prince." Case, who is president of the international Audio Engineering Society, delivered a talk on Prince's unusual ability to naturally shift the pitch of his voice. We asked him about Prince's legacy, his peerless voice and the transformative power of his music.

1. WHAT DID YOU COVER IN YOUR PRESENTATION?

Music fans may be aware of pitch-shifting processes from the studio that automatically adjust the pitch of a vocal performance to make sure it is in tune, or that radically alter the pitch. Prince needed no such processing assistance. And his vast vocal range did not leave him wanting for higher or lower notes than he could sing.

2. WHAT'S AN EXAMPLE OF HIS USE OF PITCH SHIFTING?

The introduction to the song "1999"—before the synth fanfare announces the song, before the groove kicks in—has the line "Don't worry, I won't hurt you. I only want you to have some fun." His voice is shifted down, made into a robotic voice soothing us from the future, telling us it will be okay to party like it's 1999—in 1982. It's pitch shifting not as a crutch for poor singing ability, but to create an entirely fictional character for the song.

3. WHAT CAN TODAY'S STUDENTS LEARN FROM PRINCE?

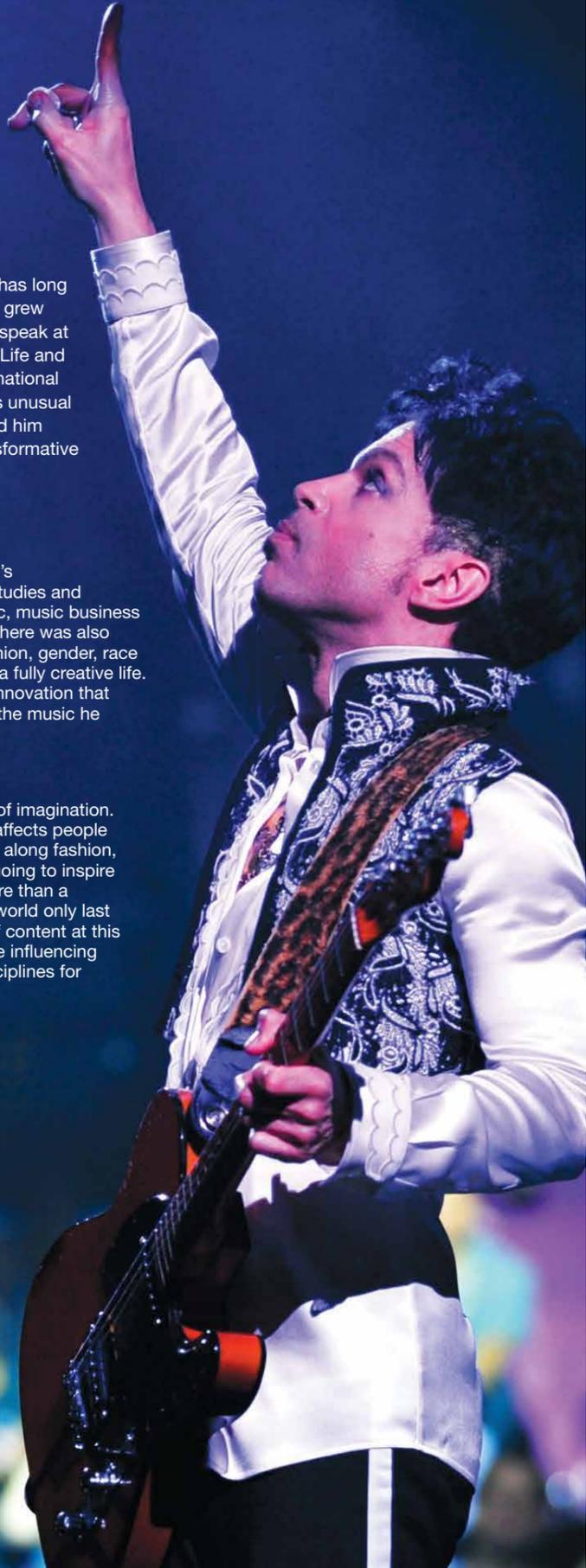
I've often charged our SRT students, after reviewing a David Bowie track from 1975, or a Pink Floyd recording from the late '70s, or a Beatles song from 1966, that they should endeavor to make art that is valid four or five decades from now. Make something that we'll all want to hear again in 2057 or 2067.

4. HAS YOUR PERSPECTIVE ON PRINCE'S LEGACY CHANGED?

I very much underestimated Prince's legacy. This conference included studies and interpretations on Prince and music, music business and film. OK, I expected that. But there was also scholarship on Prince-inspired fashion, gender, race and more. He seems to have lived a fully creative life. And he did it with such force and innovation that his influence spreads well beyond the music he made in the recording studio.

5. IS THAT SOMETHING YOU'LL PASS ON TO YOUR STUDENTS?

Yes. Prince showed me my failure of imagination. It shouldn't just be the music that affects people so strongly. We might as well bring along fashion, gender, race and more. If you are going to inspire your fans for decades, achieve more than a hummable melody. Prince left the world only last year, but the wealth and breadth of content at this conference has me thinking he'll be influencing future artists across a range of disciplines for decades to come. —DP



New Names in Education and Nursing



Our school of education is now the College of Education, and our nursing students now report for class at the Susan and Alan Solomont School of Nursing ... which is now part of the Roy J. Zuckerberg College of Health Sciences.

The College of Education has a new undergrad program to thank for its upgrade from a school. Responding to the growing demand from school districts for elementary and special education teachers, the university introduced a bachelor of arts degree in education.

Starting this fall, students can earn dual certification to teach elementary school in grades one to six and children with moderate disabilities in pre-kindergarten to eighth grade in Massachusetts. It's the first program in Massachusetts to offer this dual certification.

Incidentally, with the stepping down of Anita Greenwood '84, '92 (who is back on the faculty and coordinating the new B.A. in education program), the college also has a new dean, Eleanor Abrams, who joins UMass Lowell from the University of New Hampshire, where she was a professor of education and executive director of engagement and faculty development in the provost's office.

Health sciences, meanwhile, benefitted from the generosity of alumni Roy Zuckerberg '58, '99 (H) and Alan Solomont '77, '94 (H)—not to mention Rob '84, '11 (H) and Donna '85, '91, '11 (H) Manning, who established the Donna Manning Endowed Chair for Nursing. The professorship will be awarded to an exceptional new faculty member in the school who exhibits excellence and leadership in the field of nursing and health research.

...and speaking of the Mannings,

the Manning School of Business was ranked No. 5 in the nation for the value its online master's of business administration program delivers to graduates, according to BestCollegeValues.com.



UML BY THE NUMBERS

Class of 2017 graduates with a

PERFECT 4.0 GPA: 93



Clothing, supplies and food collected during student move-out (most of which was donated to local nonprofits):



Number of bicycle checkouts through the campus Freewheelers bike-share program this year: 3,681 (more than **double** the previous year's figure!)



3,681 FREEWHEELERS

Number of startup companies housed at UML business incubators:



Students volunteer at the new Urban Agriculture Greenhouse, which was used to dry onions and garlic over the summer.



5th
GROW, BABY, GROW.
 UML is the **fifth-fastest-growing public doctoral university in the nation**, according to new data from *The Chronicle of Higher Education*.

URBAN GREENHOUSE SPROUTS ON CAMPUS

Lydia Sisson '12 looks across the fresh blanket of soil inside the university's new 1,800-square-foot Urban Agriculture Greenhouse on East Campus and imagines the possibilities. Rows and rows of spinach, kale, arugula and cilantro. Hearty shoots of ginger and turmeric. Countless tomato, pepper and snap pea seedlings.

But Sisson, a UMass Lowell alumna and founding co-director of Lowell-based urban farming nonprofit Mill City Grows, also sees something more: a testing ground where university researchers and students, along with members of the community, can develop new and efficient ways to use water and energy to grow sustainable crops year-round.

"This is a space where we can think about innovation in urban agriculture," says Sisson, whose organization is partnering with the Office of Sustainability to help run the new greenhouse, which was constructed this summer behind Donahue Hall.

Energy engineering faculty and students will help run the greenhouse, and Mill City Grows will manage the agricultural production inside it (and on an adjacent outdoor garden space beginning next summer). Twenty percent of the produce grown will be donated to nonprofit organizations in the city, including the student-run Navigators Food Pantry. Mill City Grows, which runs two other urban farms in Lowell, will sell the remainder of the produce back to the community.

"We've never had a greenhouse like this, so we're thrilled to be able to grow year-round," says Sisson.

APPS FOR SOCIAL GOOD

Dozens of local middle-schoolers learned they can be more than just users of technology—they can also create it.

Students in Everett and Medford learned programming skills at a camp conducted by computer science Prof. Fred Martin and graduate student Chike Abuah. The initiative, which is part of the "Pathways in Computer Science" project funded by the National Science Foundation, teaches kids in underprivileged areas how to create mobile apps that could help their communities.

Among the apps that the young programmers developed is a tool for finding the Medford Arts Resource Vehicle, or MARV, a bright blue school bus that travels around the city to encourage participation in the arts.

"Teams made apps to let you book MARV for your event, use GPS to track the bus's location and show its calendar of activities," Martin says.

Abuah, who is from Nigeria, is researching ways to build tools and technology to help people learn more effectively.

"These kids are incredibly lucky to be exposed to sophisticated programming at such an early age," he says. "The camps impart real-life programming and computational thinking skills to the students. By the time they get to high school or college, they'll be much better prepared."



Computer science Ph.D. student Chike Abuah reviews an app with middle school student Domenic Bruno.

Research Roundup



Prof. Daniel Obrist digs pits to measure tundra soil mercury concentrations and auxiliary soil chemistry on the Alaska North Slope.

ARCTIC ELEMENT

Large quantities of mercury are ending up in the Arctic, threatening the environment and the health of northern wildlife and people, according to new research led by Prof. Daniel Obrist, chairman of the Department of Environmental, Earth and Atmospheric Sciences.

In a study published this summer in the journal "Nature," Obrist's team found that the absorption of mercury from the atmosphere by the tundra is shown to drive high loads of mercury in Arctic tundra soils. Tundras are vast, treeless regions where the soils are permanently frozen, or "permafrost." Mercury runoff from tundra soil then supplies 65 to 85 tons of the toxic heavy metal to Arctic lakes, rivers and the Arctic Ocean each year.

Obrist led an international group to conduct the research on the Arctic pollution, "the most comprehensive study ever done on mercury deposition," he says.

THE ETHICS OF SELF-DRIVING CARS

Should your self-driving car protect you, the "driver," at all costs? Or should it steer you into a ditch to avoid hitting a school bus full of children?

Those are the kinds of questions that preoccupy Asst. Prof. of Philosophy Nicholas Evans, who studies the ethical dilemmas posed by emerging technologies.

Evans won a \$556,650 National Science Foundation grant to construct ethical answers to questions about autonomous vehicles, translate them into decision-making algorithms and test the public health effects of those algorithms under different risk scenarios using computer modeling.

"You could program a car to minimize the number of deaths lost in any situation, but then something counterintuitive happens: When there's a choice between a two-person car and you alone in your self-driving car, the result would be to run you off the road," Evans says. "People are much less likely to buy self-driving vehicles if they think theirs might kill them on purpose."



FIGHT, FLIGHT OR FREEZE

Fight, flight or freeze—those are the most common responses to high-stakes decisions made under stress. Most of the time, soldiers quickly choose fight or flight, says Neil Shortland, an assistant professor and program manager for UMass Lowell's Center for Terrorism and Security Studies.

But when faced with two equally bad or uncertain choices, soldiers, police and other emergency responders may freeze, says Shortland, who won a three-year, \$531,000 grant from the U.S. Army Research Institute to study military decision-making.

The study will compare military to nonmilitary decision-making in situations that call for a quick choice between two equally bad or uncertain alternatives, known as "least-worst" decision-making.

The researchers will focus in particular on indecision, known in psychological terms as "decisional inertia," as well as what leads to it and how training might help reduce it.

NEXT-GENERATION SPACE TRAVEL

This summer, more than 200 rising sophomores received \$4,000 co-op scholarships to do research with a faculty member, intern at a community agency or study abroad.

One of them, mechanical engineering major Ania Burgess, helped Asst. Prof. Christopher Hansen design a self-healing outer shell for a vessel to carry astronauts into deep space. Burgess hopes to get a 3-D printer to make a honeycomb structure with a finicky, but promising, new plastic.

"I want to work in aerospace engineering, and NASA-funded research is the best place to start," she says. "Normally, it's hard to find a summer research job after only one year of college, so the Co-op Scholarship was a big factor in my deciding to come to UMass Lowell."



> BY GEOFFREY DOUGLAS

'HE PUT US IN A POSITION TO GROW'

THE LEGACY OF FORMER CHANCELLOR WILLIAM T. HOGAN

Over half a lifetime, William T. Hogan served UMass Lowell in nearly every leadership capacity—as professor, department head, college dean, vice president, president and chancellor—through all its modern incarnations and more than 40 years. And for the last quarter-century of his time here, he was chief architect of every landmark reached. Long before his death in June at the age of 84, Bill Hogan was known widely by one title: “Father of UMass Lowell.”

“His visionary leadership had an invaluable impact on tens of thousands of students, faculty, staff and community members of Lowell,” says current Chancellor Jacquie Moloney. “Over more than four decades, he led the transformation of an institution that is now among the strongest public research universities in the country.”

His devotion began with a loyalty to the city he called home.

Born in 1933 in Lowell’s Lower Highlands, the youngest child of a trolley driver and a stay-at-home mom, he began saving for college at age nine, depositing his paper-route earnings weekly in the Lowell Five Savings Bank. Graduation from Northeastern in 1955, with a B.A. in mechanical engineering, was followed by a two-year stint as a development engineer at the Army’s Rocket Development Center in Alabama. (His passion for rocketry would never slacken: “I could listen for hours to his stories about the early space program,” remembers former UMass Trustee William O’Shea.)

Then came master’s and doctoral degrees, both from MIT, sandwiched around two jobs as lead scientist for a pair of Massachusetts research firms.

Along the way, he married Lowell native Mary Ellen Purtell ’58; their 44-year union produced two daughters and a son. The couple settled in Chelmsford, where they remained until her death.

In the fall of 1963, his MIT doctorate fresh, Hogan accepted a job as professor of mechanical engineering at the Lowell Technological Institute, then just 10 years old. His plan was to stay five years. Somewhere along the line, though, he realized he had found his home.

Continued

“His visionary leadership had an invaluable impact on tens of thousands of students, faculty, staff and community members of Lowell.”

He was head of the department three years after his arrival, acting dean of engineering five years later, then dean in 1973. Two years after that, when Lowell Tech merged with Lowell State College, he was named the first vice president of academic affairs at the newly formed University of Lowell. Within six years, he was university president. In 1991, when ULowell joined the UMass system, he was the natural choice for chancellor.

From the start, he was a leader with a vision—and dogged in his pursuit of it. Between 1975 and 1985, enrollment increased 60 percent, while applications mushroomed to 7,000 a year. Meanwhile, the graduate school’s size nearly tripled—from 242 master’s degree students in the first year of the Hogan presidency to 720 a dozen years later. By the midpoint of his ULowell tenure, for the first time ever, every program in the College of Engineering had been awarded national accreditation. And toward the end of it, in the fall of 1989, as a realization of one of Hogan’s dearest goals, the colleges of Liberal Arts and Pure and Applied Sciences, both holdovers from pre-merger days, were joined to form the new College of Arts and Sciences. For the president and his university, it was a heady time.

Then the recession slammed the region like a hammer shattering glass. Up and down Route 128, tech companies laid off workers; Wang Laboratories filed for bankruptcy, imperiling close to 5,000 local jobs. Education funding was cut, driving tuitions higher. Enrollment plummeted. In 1990, the last year of ULowell, there were layoffs in nearly every department—which, for Hogan, hit home in the most personal sort of way.

Ironically, though, it was to be the start of his finest hour. Over the next several years, as chancellor of the newly formed UMass Lowell, he helped redefine the university’s mission, fusing its prospects with that of Lowell and the Merrimack Valley to create a sustainable regional economy, powered by a skilled workforce and the continuous development of new technology.

“The only possible chance we have of producing a robust economy over a long period of time,” he said in announcing this new mission, “is to produce a continuous, unbroken flow of young people who are both well-educated and well-trained.”

The twin keys to all this were teaching and research. The first was already well established: the new accreditations, the explosive growth of graduate programs, an increasingly accomplished faculty. By the early 1990s, the framework for a research university—which included two new centers, the Institute for Plastics Innovation and the Center for Advanced Materials—was also firmly in place.

The recession ceased, and well before the turn of the new millennium, the university was again on solid ground. And Hogan was on to new horizons: the Tsongas Center, a joint venture with the city, was completed in 1998, followed soon after by the \$20 million campus recreation center on Aiken Street. Finally, in the last year of his tenure, came the announcement of a plan for a \$266 million transformation of all three campuses, which foreshadowed the explosion of new construction that followed.

In October 2003, five days after their 44th anniversary, Hogan lost his wife, Mary, to cancer. He would remain as chancellor three more years before retiring, in July 2006. Nine days later, on July 15 of that year, he married for the second time—to Barbara Jo McNutt.

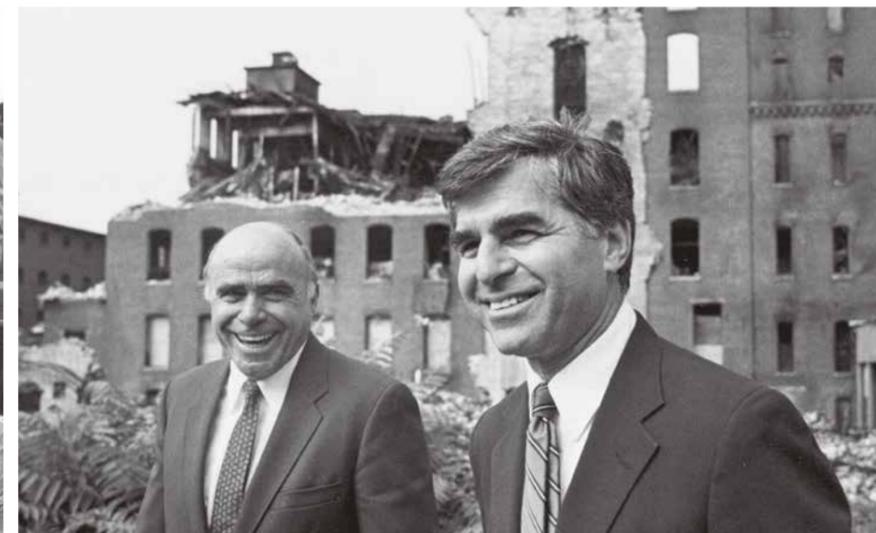
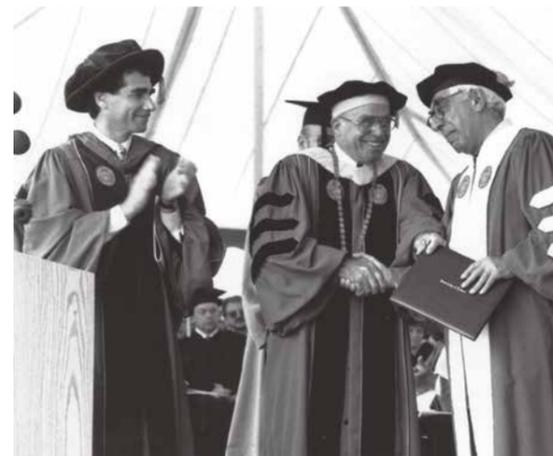
The growth and success that has continued for more than a decade since Hogan retired would not have been possible without his vision, says Chancellor Moloney.

“Not only did we inherit from him a world-class faculty that was ready to go to the next level,” she says, “but without his fiscal foresight, we would not have been able to build all that we have. He put us in a position to grow.” [UML](http://www.uml.edu)

Scholarship Fund Created in Memory of William T. Hogan

UMass Lowell has established the Chancellor William T. Hogan Scholarship Fund for Innovation and Engagement as a way to ensure that Hogan’s decades-long passion for helping others continues in perpetuity.

The university will match the first \$100,000 in contributions. To contribute, visit www.uml.edu/givenow or send donations to UMass Lowell, Office of University Advancement, Charles J. Hoff Alumni Scholarship Center, 1 Perkins St., Lowell, MA 01854.



Our Legacy, Our Place

Our Stories

YOU are the real story behind *Our Legacy, Our Place*, UMass Lowell's first-ever comprehensive fundraising and alumni engagement campaign. Thanks to YOU, this spring the campaign crossed the \$100 million mark and is charging full-speed ahead toward our goal of raising \$125 million. Go to www.uml.edu/ourlegacy-ourplace to make a difference today.

>\$111M

You've contributed more than \$111 million to support student scholarships, our faculty, campus improvements and our Division I athletic program.

>4in4

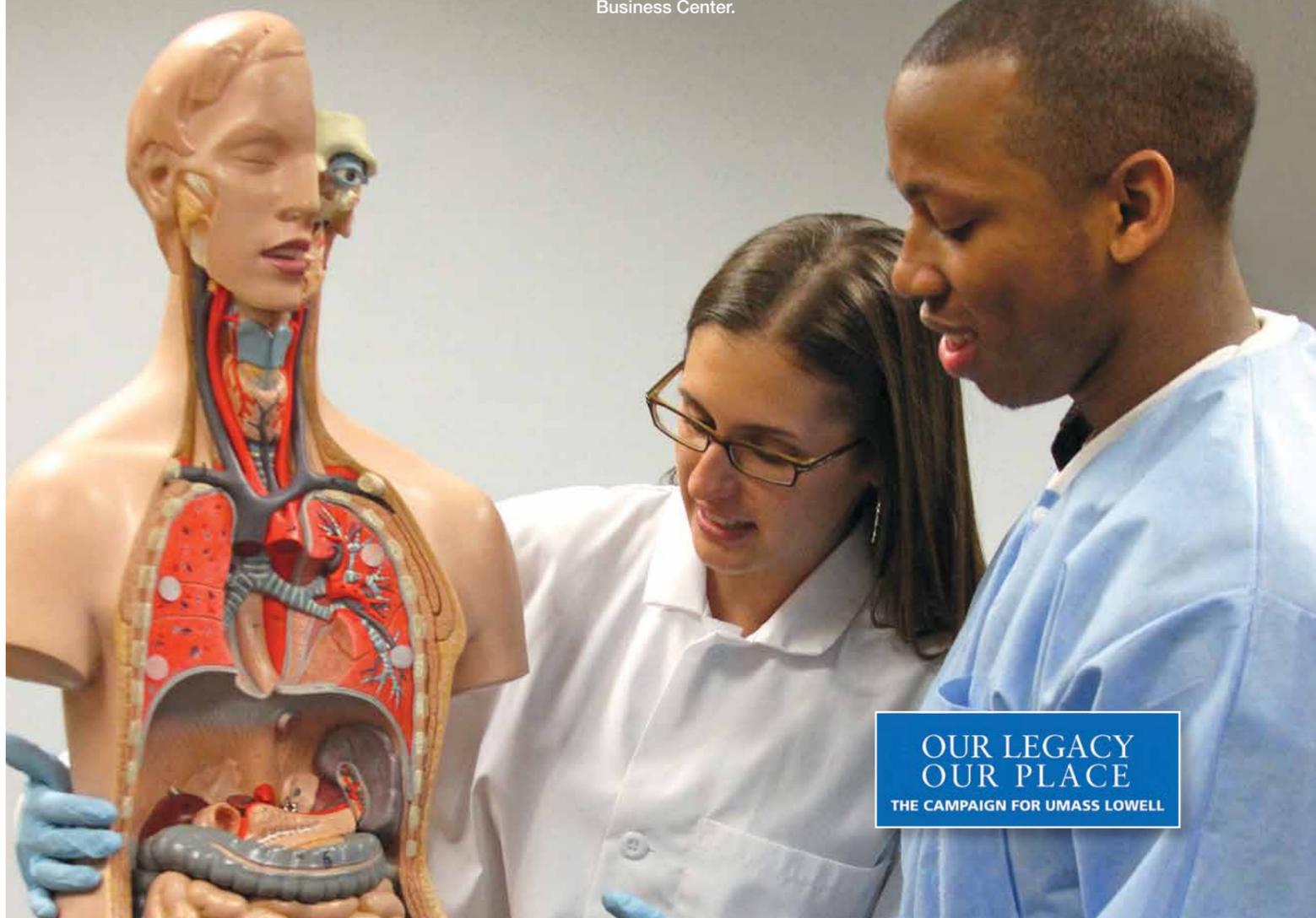
You helped us celebrate four major dedications in four weeks: the Zuckerberg College of Health Sciences, the Solomont School of Nursing, the Lin MakerSpace and the new Pulichino Tong Business Center.

48 Hours

Nearly 2,300 of you took part in UML's 48-hour donor challenge, Days of Giving, contributing \$288,729 for scholarships and your favorite colleges, clubs and athletics teams.

>\$18M

By giving \$18 million for scholarships, you help students focus on their studies and not student loan debt.



**OUR LEGACY
OUR PLACE**
THE CAMPAIGN FOR UMASS LOWELL

OUR LEGACY, OUR PLACE

BY BETH BROSANAN

Putting Their Hearts Into Health Care

Students at the Zuckerberg College of Health Sciences are determined to make a difference in one of the biggest issues facing America today.

Isaura Jimenez '17 knows better than most that education is the road to opportunity. After all, for much of her college career, she traveled that road daily—rising early to catch three different buses to commute from her home in Lawrence to UMass Lowell. Then, after a long day of nursing classes, she would repeat the process for her return trip to Lawrence.

Says Jimenez, "I learned how to look at adversity as a challenge to overcome, instead of a roadblock."

It's a lesson she learned exceptionally well. Jimenez completed her nursing degree in just three-and-a-half years, passed her licensing exam on the first try and landed a full-time nursing position at Lawrence's Mary Immaculate Nursing/Restorative Center. And this spring, Gov. Charlie Baker recognized her as one of "29 Who Shine" at a State House ceremony celebrating top students in Massachusetts public higher education.

"My parents came to this country 20 years ago from the Dominican Republic, and because they didn't speak the language or have college degrees, they worked in factories doing manual labor," Jimenez says. "My mother ingrained in me and my brother that education was important and she encouraged us to do better."

Like Jimenez, Roy Zuckerberg '58, '99 (H) knows a thing or two about working hard for opportunity.

Although he earned his degree in textile sales, Zuckerberg soon realized that the career he really wanted was on Wall Street. "I literally had to talk my way into a job," he says, "because back then, nobody went from Lowell Tech to Goldman Sachs." Yet this rookie outsider went on to become the longest-serving partner in Goldman Sachs' history—"a legend on Wall Street," in the words of Rob Manning '84, '11 (H), chair of the UMass Board of Trustees.

Zuckerberg also became a major benefactor of health care and educational institutions, including UMass Lowell. Earlier this year, after Zuckerberg made a significant new commitment to support the College of Health Sciences, the university named the college in his honor.

"Roy's generosity spans decades, and it includes his time and talents as well as his tremendous financial support," says Chancellor Jacquie Moloney '75, '92. "Roy is committed to making a difference in people's lives, a value that we feel very strongly about here at UMass Lowell."

"If you have the heart and the drive," Zuckerberg told an audience of students and faculty gathered for the May 18 dedication ceremony, "you can do anything."

HIGH ACHIEVERS WITH HEART

According to Dean Shortie McKinney, heart and drive run deep among the 1,800 students of the Zuckerberg College of Health Sciences, which includes not only the Solomont School of Nursing but also departments of public health, physical therapy, and biomedical and nutritional sciences.

"I see real similarities between our students and Roy Zuckerberg," says McKinney. "They're high achievers and give back generously to their communities through service learning and community service."

Take Marissa Pond '17, an exercise physiology major from Haverhill, who chose her major precisely because of its rigorous course load. "There's always been a fire in me to do well—I just needed to be directed,"

she says. "This program pushed me and showed me I was capable of way more than I thought." That includes graduating with a 4.0 GPA and earning the Trustees' Key, the highest academic honor awarded to undergraduates.

Students like Pond learn from scientists whose expertise spans some of the most pressing issues in health care today.

Says McKinney: "It's rare for a college to have nursing, physical therapy, nutrition, biomedical sciences and public health all together. This gives us a tremendous opportunity to develop innovative, interprofessional education—courses and programs that prepare students in different disciplines to work in a team-based environment that mirrors the real world of health care."

"Working as a team is key not only to providing the best possible care," McKinney adds, "but also to controlling rising health care costs."

THE MOMENTS THAT MATTER

Outside of the classroom, students gain real-world experience through their clinical placements and internships. For Daniel Howell '16, a Medford native who earned a B.S. in public health, that real-world learning meant a semester-long internship with the city of Lowell's Health Department, helping to educate the community about the opioid crisis.

"It's not a problem that affects only a certain group of people," says Howell. "We as a community are all affected, one way or another. And we have to stop looking at opioid addiction as a choice. It's a disease."

Today, Howell is studying for his master of public health degree, specializing in health care management. "You can have a huge effect on people and the prevention of illness," he says. "The only thing predictable in life is death—it's going to happen. But you can make decisions that will lower the risk of disease."

You can also provide the kind of care that restores patients' spirits as well as their health. Nursing student Alli Wood '18 learned this firsthand during her clinical at Boston's Shriners Hospital for Children, which specializes in pediatric burns. Wood, a Chelmsford native, worked closely with a young girl from the Dominican Republic whose burns had left her unable to walk for over a year, and who traveled to Shriners for treatment.

"She went from being a scared patient who would not let anyone come near her legs to a joyful little girl who just wanted to play and hug everyone," Wood marvels. "Even with a language barrier, I felt I was truly able to connect with her on a special level. Moments like this drive me to become the best nurse I can be."

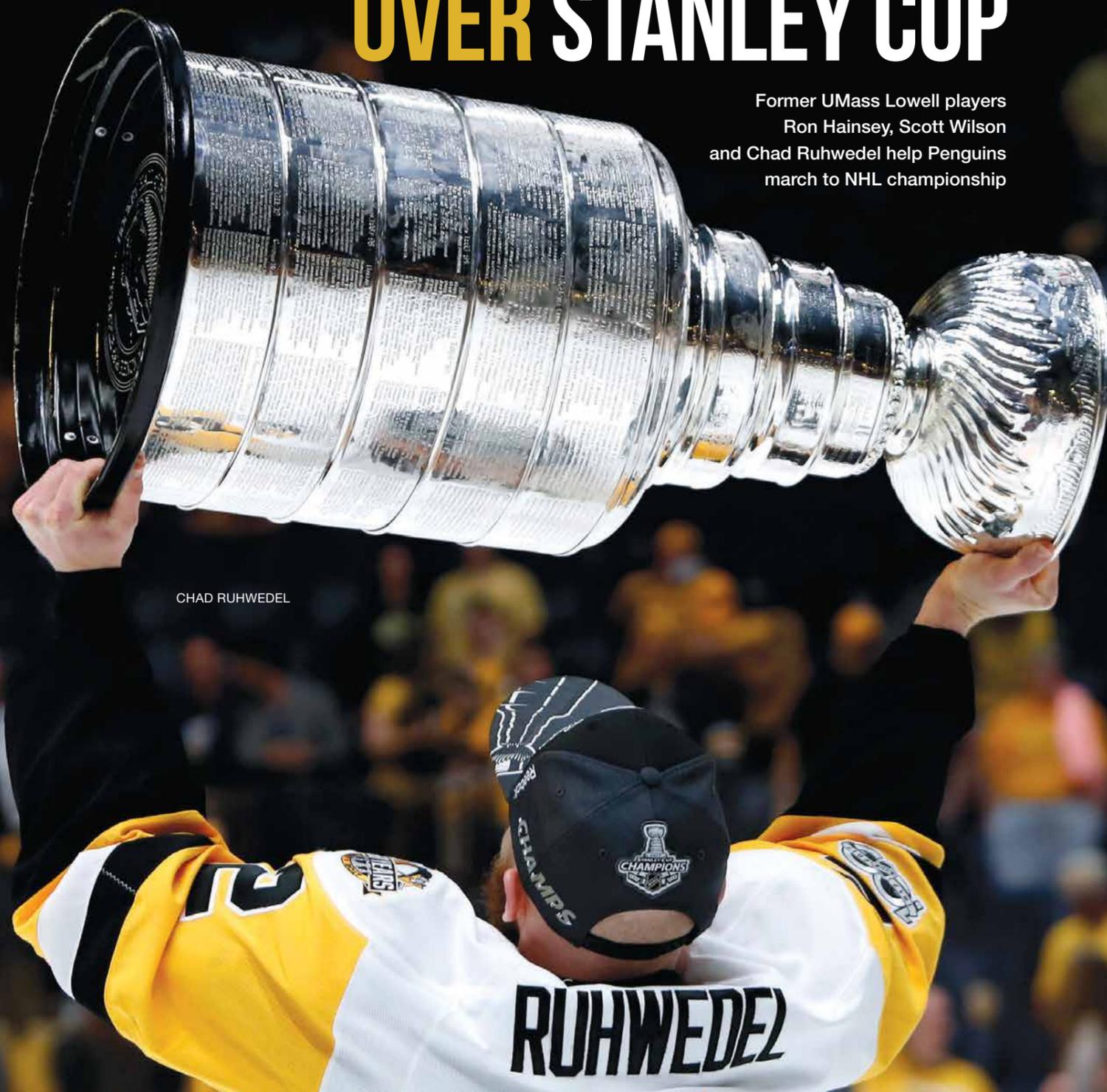
And moments like this matter, says Roy Zuckerberg. "What you are studying here is absolutely critical for our society," he told students in May. "You're really helping people. And there's nothing better in life than helping people."



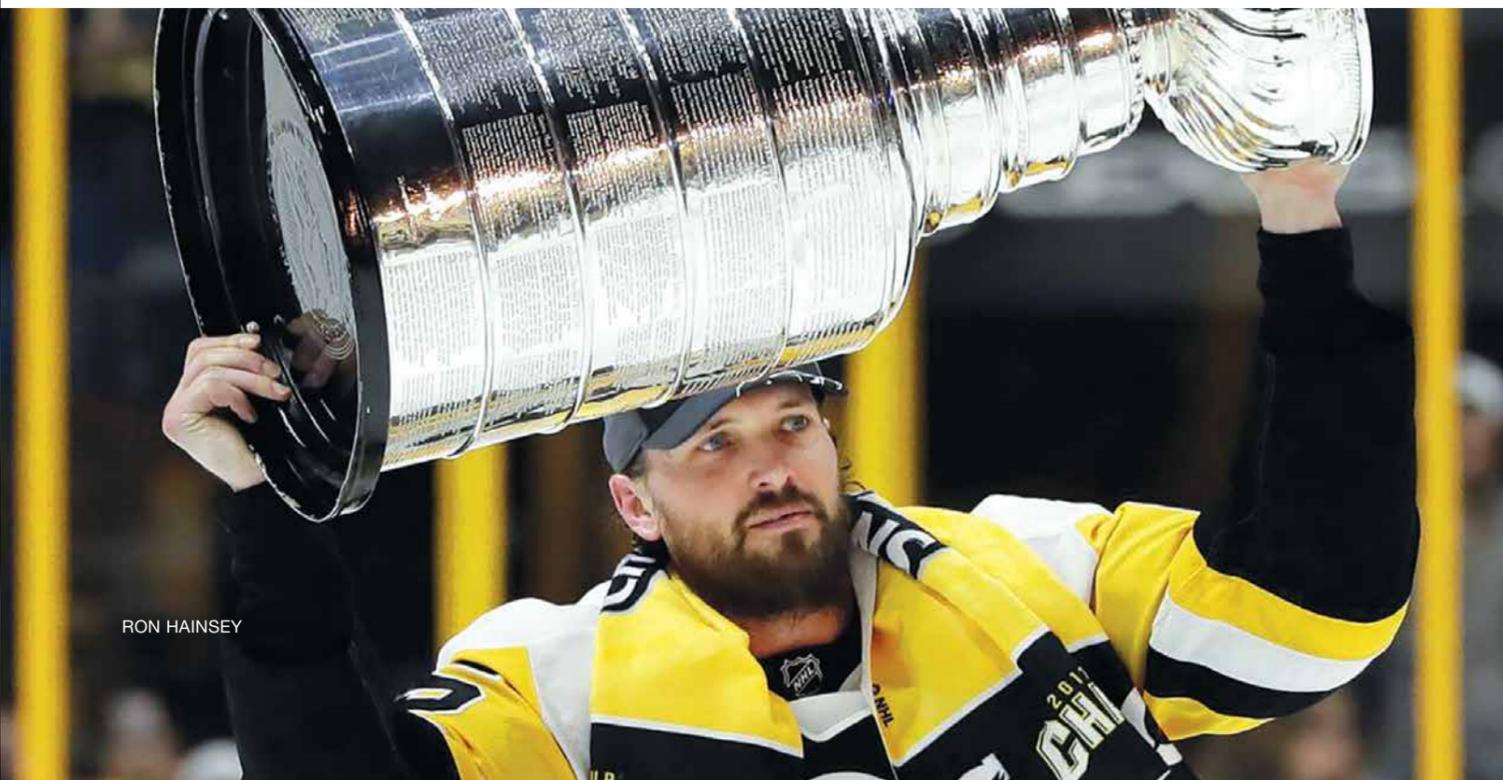
RIVER HAWKS' FINGERPRINTS ALL OVER STANLEY CUP

> BY ED BRENNEN

Former UMass Lowell players Ron Hainsey, Scott Wilson and Chad Ruhwedel help Penguins march to NHL championship



CHAD RUHWEDEL



RON HAINSEY

Former River Hawks Ron Hainsey, Scott Wilson and Chad Ruhwedel made hockey news in more ways than one by winning the Stanley Cup with the Pittsburgh Penguins in June. Not only did they get their names etched on one of the most famous trophies in sports, but their victory also marked just the fourth time in National Hockey League history that three players from the same college program won a championship together.

"It was pretty cool to see three River Hawks hoist the Cup together on the same ice," says Wilson, a left winger who played three seasons between 2011 and 2014 for UML. "UMass Lowell has been on the rise lately, and to have guys who played there go on to win the Cup says a lot" about the program.

It was technically Wilson's second straight Stanley Cup with the Penguins; he played 24 games in 2016 but missed the playoffs with an ankle injury. "Last year was tough. I kind of experienced it, but not really," says Wilson, who bounced back this season to notch three goals and three assists in the playoffs, including a goal in Game 2 of the finals.

Ruhwedel, a defenseman who also played three seasons between 2010 and 2013 for the River Hawks, signed with the Penguins as a free agent last summer after four years in the Buffalo Sabres organization. He and Wilson were teammates for two seasons at UMass Lowell, helping lead the team to the Frozen Four in 2013.

The Penguins completed their River Hawk roster hat trick in February when they acquired Hainsey from the Carolina Hurricanes. The veteran defenseman, who played two seasons for UML between 1999 and 2001, had never been to the NHL playoffs in his 14-year career. He was

the first player Penguins captain Sidney Crosby handed the Cup to after their clinching 2-0 Game 6 win over the Predators in Nashville, Tenn.

"Being a veteran in the league for so long, it was awesome to see him win one," says Wilson, who credits Hainsey for keeping the team loose during the grueling three-month playoff run. "He's one of the funnier guys I've ever met, so he's a great guy to have in the locker room."

"It was fun having another UMass Lowell guy on the team with us. We were definitely the majority," adds Ruhwedel, who says the trio kept close tabs on their alma mater during the Hockey East playoffs and NCAA tournament this spring.

Likewise, River Hawks coach Norm Bazin '94, '99 followed his former players' playoff run with Pittsburgh, sometimes texting them after games.

Continued

ELITE 8

Eight former River Hawks played in the NHL last season, including two—C.J. Smith and Michael Kapla—who made the jump to the pros just a week after their UML season ended.

1. **Defenseman Christian Folin** (2013-14) - Minnesota Wild
2. **Defenseman Ron Hainsey** (1999-2001) - Pittsburgh Penguins
3. **Goaltender Connor Hellebuyck** (2012-14) - Winnipeg Jets
4. **Goaltender Carter Hutton** (2006-10) - St. Louis Blues
5. **Defenseman Michael Kapla** (2013-17) - New Jersey Devils
6. **Defenseman Chad Ruhwedel** (2010-13) - Pittsburgh Penguins
7. **Forward C.J. Smith** (2014-17) - Buffalo Sabres
8. **Forward Scott Wilson** (2011-14) - Pittsburgh Penguins

“It was pretty cool to see three River Hawks hoist the Cup together on the same ice.”

SCOTT WILSON



“When you see one of our kids do so well, you’re proud of them,” says Bazin, who coached Wilson and Ruhwedel and, as an assistant coach, helped recruit Hainsey. “I’ll text them and tell them how much I enjoy watching them play or tell them some different ways I think they can improve. But usually I keep it very short.”

Even a few words from Bazin mean a lot to the players. “Any time you get a text saying ‘Good game’ from an old coach, it’s always a little bit of a confidence boost,” Wilson says. “You want to make coaches proud of your game.”

Wilson, 25, and Ruhwedel, 27, both credit Bazin and his coaching staff, including assistant coach Cam Ellsworth '17 and former assistant Jason Lammers '15, for helping mold them into the players—and people—they’ve become.

“I remember going out with Coach Lammers before school in the morning and working on my shot,” Wilson says. “They paid attention to little things that nobody thinks of outside of the game. Those things helped transform me into the player I am today.”

“They were all big in my success,” Ruhwedel adds. “Even with the off-ice stuff, they were really helpful. They helped me transition to the pro game and become an all-around adult.”

While a concussion early in the playoffs prevented Ruhwedel from skating in the finals, he still was able to hoist the Cup with his teammates on the ice in Nashville.

“That was just an overload of emotions, seeing all the happy looks on everyone’s faces,” he says. “It’s pretty hard to wrap your head around because it’s something you dream about as a kid. To be able to say I was on a Cup-winning team is really something special.”

Ten days after the win, Ruhwedel signed a two-year, \$1.3 million contract extension with the Penguins. A few days later, as per custom, the Southern California native got to have the Stanley Cup for a day in his hometown. It may have been the trophy’s first-ever visit to a San Diego beach.

Wilson, who has one year remaining on his two-year, \$1.3 million deal, brought the Cup home to Oakville, Ontario, on July 20. By then, he was already gearing up for the upcoming season—and a shot at a Pittsburgh three-peat.

“It’s tough having such a long season because you’re six weeks behind the offseason training, but it’s obviously worth it,” Wilson says.

However, when the Penguins open their title defense next season, they’ll be down to just two former River Hawks. With a Stanley Cup now on his résumé, the 36-year-old Hainsey signed a two-year, \$6 million free agent deal with the Toronto Maple Leafs in July.

But another River Hawk may soon be on the way to Pittsburgh. In April, the Penguins signed senior defenseman Dylan Zink to a minor league deal. [UML](#)



FIVE FORMER RIVER HAWKS HAVE WON THE STANLEY CUP:

1987, '88, '90, '94
CRAIG MACTAVISH (1977-79):
 EDMONTON OILERS (1987, 1988, 1990)
 AND NEW YORK RANGERS (1994)

2016, '17
SCOTT WILSON (2011-14):
 PITTSBURGH PENGUINS (2016, 2017)

2013
CARTER HUTTON (2006-10):
 CHICAGO BLACKHAWKS (2013)

2017
RON HAINSEY (1999-2001):
 PITTSBURGH PENGUINS (2017)

2017
CHAD RUHWEDEL (2010-13):
 PITTSBURGH PENGUINS (2017)

> ETCHED IN HISTORY <

Golden Rule

UMass Lowell hockey program celebrates 50th anniversary with another Hockey East championship and deep tournament run

What's a "Lowell"?

Billy Riley can still picture the snarky, hand-painted banner in the Michigan State University stands back in 1984. Despite winning three NCAA Division II national championships in a four-year span under Coach Riley, the UMass Lowell hockey program clearly wasn't getting much respect when it moved up to Div. I in 1983.

Today, of course, "Lowell" is a household name in college hockey. The River Hawks skated to a 27-11-3 record this season, one win shy of matching the program record for victories in a Div. I season. Coach Norm Bazin's club won its third Hockey East tournament championship (beating Boston College, 4-3, at TD Garden) and advanced to the NCAA tournament for the fifth time in his six years at the helm.

Not a bad way to celebrate the program's 50th anniversary, eh? "It was such a festive year and the team had a great season," says Riley, the godfather of UML hockey, who coached for 22 seasons from 1969 to 1991. "It was one of those things where you never want the season to end, ya know?"

The season did end with a heartbreaking 3-2 overtime loss to Notre Dame in the NCAA Northeast Regional finals, denying the River Hawks their second-ever trip to the Frozen Four.

"We fell short at the end, but when you get a chance to sit back and think about the regular season and the playoff crowns, it's great," Bazin says.

To commemorate the golden anniversary of the program, which began under Coach Richard Morrison in 1967 on an outdoor rink where the North Campus parking garage now stands, the Athletics Department put together a season-long celebration. Fans could vote online for five different All-Era teams (see graphic), which were recognized before home games throughout the season and featured on commemorative pint glasses.

"It was nice to see some of the names pop up that you haven't seen in a long time," says Bazin, who praised the marketing team's efforts. "I think it was highly beneficial from all standpoints—for the former players and alumni, and also for our current players to see what kind of legacy those kids left."

For former players like Craig Brown '00, a right winger from 1996-2000, the celebration was a chance to reconnect with old teammates at the Tsongas Center's Talon Club while watching with pride as the current River Hawks stormed to another Hockey East regular season title.

"It's really been an unprecedented run of success for the past six or seven years, and what's great is to have such success around that 50-year mark," says Brown, an accounting grad who is now

a vice president with Fidelity Investments. He lives in Lowell and is a season-ticket holder, bringing his three young kids to as many home games as possible.

A self-described "penalty-kill guy who filled a role on the third or fourth line," Brown says the same work ethic and accountability that his coach, Tim Whitehead, instilled in the River Hawks have served him well in his business career.

"I think Lowell's always had that attitude where nothing is handed to you on a silver platter. You have to go out there and fight for it," he says. "At the same time, you keep your teammates first and keep them accountable. It's probably no different in the working world when you're running a team. People appreciate assertiveness and understanding what their roles and responsibilities are."

Bazin has seen the program from three different perspectives: as a player from 1990 to 1994, as an assistant coach under Whitehead from 1996 to 2000 and now as head coach.

"I've gotten to see a lot of great players come through and have met a lot of great people," says Bazin, who played for Riley as a freshman—creating a direct link to almost a half-century of hockey history at the university.

Bazin certainly has a fan in Riley, who in May received the 2017 Legend of College Hockey award from the Hobey Baker Memorial Award Foundation in St. Paul, Minn. It was the ultimate coaching honor for the man who won 363 games behind the bench and is a walking Wikipedia of UMass Lowell hockey history. [UML](#)

SUPPORT THE HOCKEY EXCELLENCE FUND!

With a 3.4 team grade point average in 2016-17 and three Hockey East championships in the past five years, the bar for River Hawk hockey continues to rise. To help players excel both in the classroom and on the ice, the university has established the UMass Lowell Hockey Excellence Fund, which enables the program to provide:

- > Cutting-edge sports performance technology
- > Proper sports nutrition and meals
- > Academic assistance
- > Team travel opportunities

"The margin between victory and defeat is often times very small," says Athletic Director Dana Skinner. "You can help make up the difference."

Anyone interested in discussing a major gift can call Skinner at 978-934-2301.



UMASS LOWELL HOCKEY ALL-ERA TEAMS

1967-1977

Forward Tom Jacobs (1975-1979)
 Forward Gary Bishop (1967-1971)
 Forward Steve Woods (1971-1975)
 Defenseman Scott MacKay (1972-1976)
 Defenseman Gene Hayes (1975-1979)
 Goalie Mike Geragosian (1971-1975)

1977-1987

Forward Mike Carr (1979-1983)
 Forward Craig MacTavish (1977-1979)
 Forward Jon Morris (1985-1988)
 Defensemen Paul Lohnes (1978-1982)
 Defenseman Paul Ames (1983-1987)
 Goalie Brian Doyle (1976-1980)

1987-1997

Forward Christian Sbrocca (1992-1996)
 Forward Jeff Daw (1992-1996)
 Forward Craig Charron (1986-1990)
 Defenseman Carl Valimont (1984-1988)
 Defenseman Scott Meehan (1989-1993)
 Goalie Dwayne Roloson (1990-1994)

1997-2007

Forward Ed McGrane (1999-2003)
 Forward Ben Walter (2002-2006)
 Forward Chris Bell (1996-2000)
 Defenseman Mike Nicholishen (1994-1998)
 Defenseman Darryl Green (2000-2003)
 Goalie Cam McCormick (1999-2002)

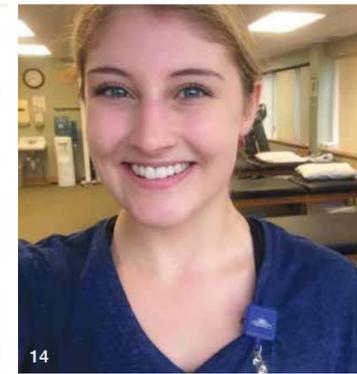
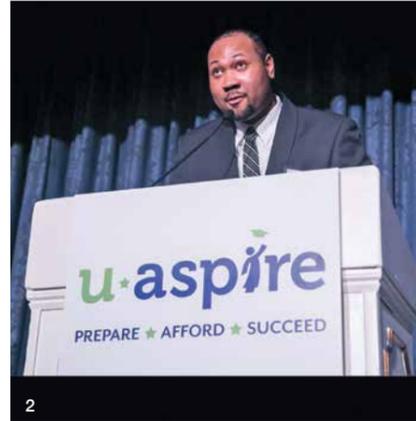
2007-2017

Forward C.J. Smith (2014-2017)
 Forward Joe Gambardella (2013-2017)
 Forward Riley Wetmore (2009-2013)
 Defenseman Dylan Zink (2013-2017)
 Defenseman Christian Folin (2012-2014)
 Goalie Connor Hellebuyck (2012-2014)



THIS IS HOW YOU WORK IT.

OUR STUDENTS DIDN'T JUST SIT AROUND ALL SUMMER; **HERE'S WHAT THEY WERE UP TO.**



1. Senior plastics engineering major Jamie Tarricone, engineering intern at Eli Lilly and Co. in Indianapolis, Ind.
2. Security studies graduate student Tastery "Tee" Reed, fraud investigator at Massachusetts State Auditors Office
3. Senior chemical engineering major Mikayla Essigmann, manufacturing technology process engineering intern at 3M in St. Paul, Minn.
4. Plastics engineering grad student Gayatri Anand, R&D intern at Velcro Industries
5. Public health grad student Bri Trainor, community Nutrition Clinician at Wright-Locke Farm
6. Junior political science and government major Ayuthaya Basuseto, intern for the U.S. Department of State - Bureau of International Information Programs
7. Junior plastics engineering major Emma Cashman, product supply engineering intern at P&G Gillette
8. Senior plastics engineering major Jonathan Cabot, process improvement engineer intern at Tri-Mack Plastics Manufacturing
9. Senior electrical engineering major Christian Taveras, failure analysis engineer intern at Texas Instruments in Dallas
10. Senior fine arts major Khand Tenney, photographer assistant to Jovelle West
11. Senior chemical engineering major Huyen Tran, process engineer co-op at Pfizer
12. Senior geological and earth sciences major Will Sommer, environmental scientist intern for the U.S. Environmental Protection Agency
13. Junior management and operations major Ian Ramsdell, co-founder of New England Warriors
14. Senior exercise physiology major Eliana Casarassima, rehab aide at Northeast Rehabilitation Hospital Clinic
15. Junior marketing major Steffen Johnson, brewery production assistant at Southern Barrel Brewing Co. in Bluffton, S.C.
16. Junior electrical and computer engineering major Allison Milliard, stage technician for the Lowell Summer Music Series
17. Sophomore liberal arts student Abigail Gentes, program intern at Community Teamwork Inc. in Lowell
18. Junior finance and economics major Linda Barg (center), identity management co-op at MFS Investment Management
19. Peace and conflict studies grad student Elizabeth Aliu, volunteer at the Middlesex Community College Law Center
20. Junior plastics engineering major Joey Pescatore, product development co-op at Bemis Worldwide

OfficeHours

A peek into some of the most interesting faculty and staff offices on campus

>WHO: Computer Science Prof. Holly Yanco, Distinguished University Professor, founder of the UMass Lowell Robotics Lab, Director of the New England Robotics Validation and Experimentation (NERVE) Center

>WHERE: Olsen Hall, Room 206

>WHAT MAKES IT COOL: In addition to her many robot toys, Yanco's office is home to her collection of over 600 Pez dispensers, which she began collecting on a trip to Martha's Vineyard in the early 1990s. One of her favorites, Yanco says, is a die-cut pumpkin, which was available in the '80s (she even uses it as her profile photo on Google).

"Whenever I see one for sale inexpensively, I will pick it up; it's one of the only dispensers that I have duplicates of," she says. "I give my Ph.D. graduates a giant Pez dispenser— it dispenses packs of Pez instead of individual candies—with the 'Lost in Space' robot on it. For prizes in classes, I give away Pez dispensers with a variety of robots on them: WALL-E and EVE, R2-D2, C-3PO and BB-8."

>HOW VISITORS REACT: "I think most people think I'm a bit nuts, especially when I tell them that I don't really like to eat the candy."



FEATURES

ON THE MAP

Since 1984, UMass Lowell students have been solving the world's problems in five days or less. Read about the evolution of the award-winning Model United Nations Team on Page 36.



REPORTING BY KAREN ANGELO, ED BRENNEN,
GEOFFREY DOUGLAS AND JILL GAMBON

WHAT IF YOU LIVE TO 100?

Blessing or Burden: UML Researchers Weigh In on What's at Stake in the Longevity Boom

The next time your birthday rolls around, pause a second before you blow out the candles and consider this: The odds have never been better that you will live to be 100.

Since 2000, the number of Americans who hit the century mark has grown by 44 percent. Nonagenarians and centenarians are no longer the outliers. By some estimates, more than half of all babies born in industrialized nations since the year 2000 can be expected to live into the triple digits.

Advances in health care, nutrition and technology are contributors to longer living. But does living longer mean living better? Beyond quantity, this new longevity raises a host of questions about the quality of life: How healthy and independent can we expect to be in our ninth, 10th or 11th decades? Will living more than 100 years force us to redefine the meaning of "a life well-lived"?

And what about the broader implications for society? What does it mean for the economy and how will it affect the environment?

Researchers at UMass Lowell are tackling some of these very issues—from the use of smart technologies for improved home health care, to high-resolution imaging for better Alzheimer's detection, to the economic and environmental challenges related to a rapidly aging population. We asked them to help us understand why we're living longer, and what's at stake.

Continued



HEALTH

We'll Stay Healthier Longer

Deaths from most major causes have decreased significantly. Heart disease—the leading cause of death among older Americans—has claimed 14 percent fewer lives since 2000. The only top-10 cause of death that is going in the opposite direction is Alzheimer's disease. Between 2000 and 2014, deaths from Alzheimer's increased by 89 percent. And as the U.S. population rapidly ages, Alzheimer's is expected to skyrocket, with as many as 16 million Americans living with the disease by 2050, up from 5.5 million today.

If UMass Lowell researchers have their way, that trend will eventually reverse itself. UML faculty in sciences and engineering are on the front lines developing tools and therapies to improve diagnosis and treatment of the progressive disease, for which there is currently no cure.



Assist. Prof. Joyita Dutta of the Department of Electrical and Computer Engineering is using high-resolution imaging to develop biomarkers to quantify abnormal proteins in the brain that indicate the presence of Alzheimer's. Dutta says the biomarkers could lead to earlier diagnosis and be used to establish baseline measures of the disease, which would in turn help monitor its progress and the effectiveness of any treatment.

Early diagnosis and intervention are key to stemming the disease's progress, says Dutta, whose research is funded through a five-year \$603,000 grant from the National Institute on Aging.

"This is a disease where the symptoms appear somewhat late. It's important to intervene early," she says.

While the research continues, there are steps people can take to boost brain health, says Prof. Thomas Shea of the Biological Sciences Department.

"If we take care of ourselves through nutrition, socialization and intellectual stimulation, we can hold back the decline," says Shea, who has spent more than three decades researching Alzheimer's treatment. "We can't cure Alzheimer's right now, but we can stave it off."

Shea says a Mediterranean diet, rich in fresh vegetables and fruit, fish and whole grains and with limited unhealthy fats and processed sugars, is a good start because the antioxidants promote brain health. Staying connected socially and engaged mentally through activities like reading or learning a language are also important, he says.

Shea's research led to the development of PERCEPTIV, an over-the-counter supplement marketed by Sevo Nutraceuticals that protects against cognitive decline.

"With cardiovascular disease, you can modify your behavior and outlive the disease. The same is true of our brain," Shea says.

Many advances in health care will help us modify our behavior and live longer, say UML researchers. Here are a handful:

CUT AND PASTE: EDITING GENES TO ELIMINATE DISEASE.

The recent development of a new gene-editing technique will make huge improvements in treating diseases like cancer, says Lecturer Brenda Geiger, graduate coordinator of the pharmaceutical sciences program. In the near future, scientists will be able to cut out genes linked to the origination of the disease and replace them with new ones that destroy cancerous cells. She also expects that with the drug companies working to take advantage of advances in areas like nanotechnology and immune-based targeting, patients will take drugs that are delivered where they are needed, which will minimize unwanted side effects. Both areas of discovery move treatment from "one size fits all" to personalized medicine.

TAKING IT PERSONALLY: CUSTOMIZED RX

Sometime in the next decade or two, annual physicals will include full DNA workups for individualized diet prescriptions, a customized mix of medicines and a personal plan for every health trajectory, says Katy Tucker, professor of nutritional epidemiology in the Department of Biomedical and Nutritional Sciences. "Within the next 20 years, every primary care physician will be able to conduct a complete DNA analysis, and then compare the results to the research on how complex interactions between genes and diet affect health and risks of



future illnesses and conditions," says Tucker, who is editor in chief of "Advances in Nutrition," the journal of the American Society for Nutrition.

NURSES WILL NAVIGATE CARE.

Nurses will be the glue that ensures safe and effective care across the continuum of services as patients age, says Dean Karen Devereaux Melillo '78 of the Solomont School of Nursing. An emerging trend of nurses helping to navigate care across inpatient, community and home settings will expand as more people use digital applications to connect with health professionals. "Nurses will connect the dots to make sure that consumers of health care take the right medications, feel safe and know where to go to prevent something from going wrong," says Melillo.



MAKING SENSE.

Soon, you will be able to constantly monitor your health with sensors—embedded in everything from your shirts to your contact lenses, says computer science Prof. Benyuan Liu, whose research focuses on digital health and mobile technologies. "They'll monitor your breathing, your blood pressure, your blood sugar levels," he says. "Eventually, we'll probably even have sensors in our scalps, which can read the brain and control movement of arms and legs—which will have significant impact for people with disabilities."

THERE'S AN APP FOR THAT.

Using applications to measure heart rate and count steps is just the tip of the iceberg, says Deirdra Murphy '00, associate professor of physical therapy and associate dean of the Zuckerberg College of Health Sciences. "In the near future, if you can't make it to a physical therapist's office," she says, "you'll be treated remotely using robotics, sensors and communications devices." The physical therapist will increase and decrease resistance depending on the data received in real time from your movements. If you're elderly, you may be wearing a bracelet or interacting with a robot that monitors the risk factors that we know lead to falls—medication, environment and decreased strength and balance.

INDEPENDENCE

Technology Will Give Us More Autonomy

Where do you want to live as you get older? The vast majority of people over age 65 agree: They want to stay in their current homes. Some like the independence of being in their own place. For others, the proximity of family and friends keeps them anchored. And sometimes the affordability factor is the attraction.

Whatever the reasons, the desire to "age in place" is a common thread, but it's also fraught with risks when health or mobility problems arise.

"People want to stay in their homes," says Julie Chen, vice chancellor for research and innovation, "but how do we provide the assistance they need?"

According to UMass Lowell faculty, here are some of the key ways:

Continued

"If we take care of ourselves through nutrition, socialization and intellectual stimulation, we can hold back the decline."

Forget the Apple Watch. Soon, you'll be able to monitor your health with sensors embedded in everything from your shirt to your contact lenses.

1) COLLECT SENSITIVE HEALTH DATA.

With the proliferation of smartphones, wearable technologies and “intelligent personal assistants” like Amazon’s Alexa, it’s becoming easier and more affordable for older Americans to live at home. In fact, aging-in-place technology is now a \$30 billion industry—and growing. For people living on their own, these gadgets and sensors generate data that allow family members, caregivers or health care professionals to respond to their needs quickly.

“For example,” says Assoc. Prof. Yan Luo of the Department of Electrical and Computer Engineering, “the data streams can help predict the risk of accidental falls or tell people if someone has been taking their medications on time.”

Luo’s “Flexware” project, which received a \$1 million grant from the National Science Foundation, supports computer-assisted independent living for aging individuals by developing ways to transport and store large quantities of sensitive data through a secure system.

Luo is also leading a project called STREAMS (Secure Transport and Research Architecture for Monitoring Stroke Recovery) to securely transmit data from a stroke patient’s home monitoring devices.

Electrical and computer engineering Prof. Vinod Vokkarane, meanwhile, received a \$1 million NSF grant to build a “high-performance cyberinfrastructure” to transfer large quantities of data from biomedical sensors, which measure things like a person’s blood pressure or sweat to monitor health.

All this new health data needs to be securely transmitted, of course, which is where the UMass Center for Digital Health comes in. Launched by Assoc. Prof. of Computer Science Yu Cao in 2016 with a grant from the UMass President Science & Technology Initiatives Fund, the center researches digital health innovations for, among other areas, aging populations.

2) IMPROVE BIOMECHANICS.

Researchers are also focusing on biomechanics, studying how bone and muscle systems work under different conditions, especially as we age. The UMass Movement Research Center, which was launched this year, has pulled together a research team of scientists, chemists, biologists, clinicians, physical therapists and public health experts from across UMass Lowell, UMass Amherst and UMass Medical School.



Led by Assoc. Prof. of Chemistry Matthew Gage, the UMOVE team is focused on improving the health of the older population, but much of its work could impact all ages.

“The potential of this combined expertise,” Gage says, “could lead to new discoveries in biomechanics, advances in rehabilitation medicine and designs of robotic devices.”

3) BUILD HOMES OF THE FUTURE.

Sensors and monitoring technologies will be key to helping people stay in their homes, says mechanical engineering Prof. Robert Parkin.

“The big thing is communication,” he says. “It’s important that somebody who lives alone has a system that can monitor them so if you don’t hear from them for eight hours, you know what’s going on.”

Such systems will be commonplace in 10 or 20 years, says Liu. “Your house will be smarter than you are,” he says, explaining that technology embedded in rugs, walls, appliances and furniture will predict necessary maintenance and sense health risks.

“Your refrigerator will know what you need based on your patterns,” he says, “and will send an order to Market Basket, where it will be picked up by your home robot, which was driven in your autonomous automobile.”

Indeed, self-driving cars are inching closer to reality, which holds out the promise of improved mobility and transportation for people who may no longer be willing or able to drive.

“They’ll pick you up at the airport, drive you to the doctor, read road conditions and talk to each other about traffic,” says Liu.

4) REFINE ROBO-COMPANIONS.

At UMass Lowell’s New England Robotics Validation and Experimentation Center, Prof. Holly Yanco and her team help develop robots and wearable assistive devices that could help older people remain in their homes.

Yanco is testing and modeling this type of technology in collaboration with Assoc. Prof. Haim Levkowitz (computer science), Asst. Profs. Pei-Chun Kao and Yi-Ning Wu (both physical therapy) and Prof. Bryan Buchholz (public health).

According to Chen, this type of interdisciplinary approach is key to making sure seniors get the most out of their assistive technology.

“If you have an elderly person who’s not an expert in robots or technology,” Chen says, “it’s important to make it a comfortable and effective interaction—and not just an expensive thing that sits in the corner.”

FINANCES

Will We Be Able to Afford Being 100?

If you watch much TV, you’ve probably noticed the proliferation of marketing targeting the over-60, thinking-about-retiring-but-anxious-about-their-nest-egg generation.

Might you outlive your money? Will you be able to retire? Can you afford your medications? These are some of the questions that underpin billions of dollars in today’s ad budgets—much of it for pharmaceuticals or financial services—and that loom over the lives of roughly 46 million U.S. seniors.

Are we as a nation set up to handle the economics of aging?

Not without some substantially transformative changes, says Senior Lecturer Ramraj Gautam of the Zuckerberg College of Health Sciences.

CAREGIVING OF ELDERS

The first casualty, he says, is already upon us: the working- and middle-class family, which bears the bulk of the load in caring for elders. Family members, especially women, either downsize their jobs or leave them altogether—nearly 40 percent of female caregivers, says Gautam, have been shown to do this—which in turn depletes their retirement savings, while at the same time lowering the U.S. Social Security benefits they can expect to receive.

There’s no sign of this trend abating, he says.



Seventy percent of people over 65 today, Gautam explains, can expect to need some form of long-term care. Once that day arrives, the family faces a choice: either tap their savings to pay the roughly \$45,000 yearly for a home health aide (or twice that for a nursing-home bed)—until the savings are exhausted, at which point Medicaid takes over—or take care of mom or dad themselves, which will often mean leaving a job.

And every year, as the ratio widens between age groups, the problem grows more acute.

“It’s not sustainable,” says Prof. Monica Galizzi, chair of economics in the College of Fine Arts, Humanities and Social Sciences: “We’ve moved away from the pension system in this country, which leaves most people relying only on themselves for their retirement. And there’s just too small a base of younger workers out there contributing to Social Security and Medicare—which is what is supposed to support the larger base of older people now retiring. And the younger group, meanwhile, are also having to care for their parents. That’s not something that can last.”

KEEPING SENIORS IN THE WORKFORCE

One issue driving the problem, says Galizzi, is that not all of the seniors leaving the workforce are doing so by choice (see “CAREERS,” below): “A lot of them would prefer to work longer, but then they find out that their skills don’t apply anymore, that they don’t know the new technologies.

“There’s a huge opportunity out there for educational institutions: teaching new skills to some of our older people, getting them back working, getting them to stay involved. I think there’s a real market for that.”

According to alumna Alice Bonner ’89, secretary of the executive office of elder affairs in Massachusetts, the government is making it a priority to keep older Americans working.

“A lot of people 60-90 want to keep working—or have to,” says Bonner, who is leading Massachusetts’

Continued

Seventy percent of people over 65 today can expect to need some form of long-term care.



The over-50 population is responsible for nearly 100 million jobs and over \$4.5 trillion in wages and salaries.

effort to become the most age-friendly state. “It’s a fast-growing group of active, productive people who contribute to the economy and benefit businesses.” The over-50 population is responsible for nearly 100 million jobs, she says, and over \$4.5 trillion in wages and salaries. “And to top it off, they have the knowledge and experience that smart employers value.”

A BROKEN SYSTEM

Underlying all these issues—the burden on families, the imbalance between generations, the overdue need for senior training—is a core reality: The U.S. health care system is broken and needs to be fixed.

“There are just no policies in place,” says Gautam of health sciences. “Medicaid is the primary provider for nursing-home care; it’s paying over half of all long-term care costs, but only after a family’s savings are exhausted. And Medicaid spending is projected to continue to increase. That’s not a system that can last.

“In other countries, you have mandatory enrollment; in Japan, for instance, everyone pays in once they reach 40. But here, when it come to long-term care, there’s no provision at all. The laws under consideration by Congress don’t even address it— they never have. It’s all so shortsighted.”

Prof. Galizzi, while no less focused on the system’s drawbacks—the “No. 1 challenge,” she says, is that we “do something to make Medicare and Social Security sustainable”—is more sanguine when it comes to the long term. If there’s to be any relief at all, she says, it may have to come from the seniors themselves.

“The 65-year-olds of today, I think, have more awareness than the 65-year-olds of 20 or 30 years ago,” she says. “They see the need, they see what’s going on. In the end, that should serve us all well.”

CAREER

What Will We Do With All the Extra Time?

Toby Hodes ’58 estimates she’s changed careers five times over the course of her working life. She’s been a textile chemist, bought jet engine parts for General Electric and was a career counselor. Now 81, Hodes has been actively involved with the Learning in Retirement Association for the past 20 years. Run in partnership with UMass Lowell’s Office of Alumni Affairs and Office of Community Relations, LIRA provides members with college-level learning experiences—taught by fellow members.

“So much research has been done on socialization among older people and how it really adds to the quality and quantity of life,” says Hodes, who served as LIRA president for six years. She joined the group when she realized she didn’t want to sit around the house all day as a retiree.

While most LIRA members aren’t looking to re-join the workforce (its oldest member is a 96-year-old woman who still drives and lives on her own), Hodes says the organization is proof that it’s never too late to learn.

“The courses I’ve taken and facilitated are all the things I wish I’d had time to learn when I was going to college but didn’t. This gives me the opportunity,” says Hodes, who has particularly enjoyed classes on comparative religion. “LIRA has been a true blessing for me.”

Hodes is not alone when it comes to not wanting to sit around the house all day. Indeed, many older Americans are staying in the workplace well into their 70s and 80s. In fact, people aged 65 and older are the fastest-growing segment of the U.S. workforce. According to the Bureau of Labor Statistics, the nation’s workforce will grow to about 164 million people by 2024. Of those workers, 13 million are expected to be 65-plus.

But as people work later in life, how does that impact their definitions of success and life satisfaction? How do they transition to second (or third) careers? With so many rapid advances in technology, is it ever too late to learn a new field?

FIND YOUR IKIGAI

Andrew Hostetler is an associate professor of psychology in the College of Fine Arts, Humanities and Social Sciences. One of his primary areas of research is adult development and aging, particularly the “emerging seniors” (ages 55-64) and the “young old seniors” (65-74).



“I’m really interested in how people think about their later years in terms of their potential to do things that are meaningful and important to them,” says Hostetler, who notes that in Japan, the concept of *ikigai* (one’s reason for living) has been linked to longer lifespans on the island of Okinawa. “Whether it’s through paid work or not, having that reason to get out of bed, having that thing that keeps you engaged and on the move, is really important.”

Traditionally, people entered their “third age” of life, or post-retirement years, with the same energy and stamina of middle age, but without all the responsibilities of child-rearing and work. They could travel, take up hobbies and maybe play some golf or tennis.

“But for a variety of reasons, whether by choice or not, the role of seniors has changed,” Hostetler says. “More older adults are working and providing for their family.”

Hostetler is concerned that in the U.S., a “bucket list” mentality is being promoted to those in later adulthood, counteracting the reality that many older people need to work.

“We’re selling what I call the ‘sexy senior lifestyle’ to older adults, whether or not they can afford it,” says Hostetler, who questions whether these pursuits lead to true fulfillment. “It’s not clear we’ve given people a whole lot of guidance around meaning, other than paid work.”

SECOND (AND THIRD) CAREERS

Thanks to new app-centric companies like Uber, TaskRabbit and Airbnb, the gig economy is often thought of as a young person’s game—something for millennials who crave the independence and flexibility of short-term work commitments.

But in reality, older workers have much higher rates of self-employment than do younger workers, according to Bureau of Labor Statistics data.

“It’s good that older people can move from job to job, but where’s the security going to come from?” Psychology Prof. Sarah Kuhn says of the trend. “As older people continue to work, they may have Medicare, but they may still have to pay for supplemental coverage and things like that. If they could live on their Social Security or pensions, maybe they

would be able to take unpaid work and contribute to nonprofit organizations and other causes.”

One way older Americans are increasingly contributing to society is in education, says John Brown, a clinical associate professor in the College of Education. Though he primarily trains teachers at the beginning of their careers, Brown says he is seeing a growing number of older adults who are looking to shift gears later in life and teachers. He says it can be good both for their financial and mental well-being.

“To get a new job, you have to have new skills. You have to have a new education and new training. And when you do that, that keeps your brain healthy,” says Brown, who notes that “there’s a lot of research that shows that could put off neurodegenerative disease like Alzheimer’s or other geriatric diseases that include memory loss or mood swings.”

SUSTAINABILITY

Can the Planet Survive Us All Living to 100?

As people live longer lives and the planet’s population grows, how will that impact the environment? What kind of strain does that put on our natural resources? Will there be enough water, food and energy to sustain everyone? Will we reach a tipping point?

“I think a lot of it is going to depend on what we do now,” says Juliette Rooney-Varga, director of the UMass Lowell Climate Change Initiative and associate professor in the Department of Biological Science. “It’s sort of a luxury to have a large portion of the population in a retired phase. It’s resource-intensive. Whether or not we’re going to have the resources to be able to do that, I think that’s an open question.”

Rooney-Varga works closely with Climate Interactive, an organization that is at the forefront of creating decision-support simulations around climate

Continued

A growing number of older adults are becoming teachers.

“It’s sort of a luxury to have a large portion of the population in a retired phase. It’s resource-intensive.”



change and the transition to a low-carbon economy. The simulators take into account a growing population and the associated “feedbacks” from climate change and resource availability.

“We already know there are feedbacks. Environmental problems are negatively impacting population growth already,” says Rooney-Varga, who recently received a \$340,000 grant from the National Science Foundation to help bring the climate change simulation to college students across the country. “And then you start to think about climate change and the potential impact on food resources.”

Right here in Massachusetts, for instance, “we’re going to face some really big, expensive and difficult questions regarding sea level rise,” says EEAS Assoc. Prof. Mathew Barlow, who recently received a \$454,000 NSF grant to study on extreme rainfall events in the Northeast. “Fifty years from now, we may feel like we’re in a somewhat different world.”

Those hoping to grow old in Florida, meanwhile, may be even worse off. “Florida’s not looking too good,” says Rooney-Varga. “Seawater is already coming into freshwater—and parts of Miami are flooding regularly. There’s no reversing that.”

Here are some other likelihoods to consider:

WE’LL HAVE MORE CARS, BUT LESS POLLUTION.

For many people, driving a car means independence. And as people live longer, the number of older drivers continues to accelerate. According to AAA, in 2009 there were 33 million licensed drivers over the age of 65—a 20 percent increase since 1999. By 2030, it’s estimated that

“It would be great if we could engage active retirees and give them an opportunity to do something that’s positive and that makes a lasting contribution.”

nearly 63 million Americans over the age of 65 will be licensed to drive. That’s a lot of extra cars, and senior drivers, on the road. But the good news, according to Energy and Sustainability Manager Paul Piraino, is that most of those cars will be electric. “Gas-powered cars are not going to be around in the next 10 to 20 years,” says Piraino, who notes that Volvo has already announced it will stop making cars with internal combustion engines in 2019—producing only electric and hybrid vehicles instead. “That’s where the world is going. It’s just a matter of time.”

FOOD FOR THOUGHT

In addition to precipitation, Barlow also looks at extreme weather events such as heat waves. And the news isn’t good there, either. “Heat waves are definitely increasing, and are going to go nowhere but up,” says Barlow.

While the elderly and poor are hit hardest by heat waves, Barlow says everyone suffers in one way or another. “It affects crops, so food prices go up,” he says. Indeed, the shifting climate is already impacting our ability to grow certain foods, Rooney-Varga says: “The climate in Kansas, for instance, is no longer appropriate for growing corn.” With production of food like chocolate, coffee and wine at risk, consumers can expect to see double or triple the prices in the future.



SUSTAINING HOPE

Despite these challenges, one potential upside to the longevity boom is that active older people could get involved in working toward solutions.

“It would be great if we could engage that population and give them an opportunity to do something that’s positive and enjoyable that makes a lasting contribution,” Rooney-Varga says. [UML](#)

> BY GEOFFREY DOUGLAS

MKS INSTRUMENTS: A PARTNER ON MANY FRONTS



One day last spring, a collection of CEOs from some of the largest tech companies in the region arrived on campus for a tour, followed by lunch with the chancellor and several members of the faculty. The idea was simple enough: to try to illustrate what UMass Lowell—with its technology-centered curricula, vast research capabilities and 5-year-old, \$80 million Emerging Technologies and Innovations Center—might have to offer them.

It was the brainchild of Jerry Colella '78, CEO of Andover-based MKS Instruments, a \$4 billion global supplier of technology solutions to the semiconductor, medical, pharmaceutical and defense industries. And it was born from experience.

A few years earlier, MKS reached out to the the university for help with a project involving the testing for chlorine gas. The testing process, conducted on-site at the ETIC, cost the company roughly \$150,000—a fraction of what it would have cost at a conventional, less-equipped testing site. There were other advantages, Colella says:

“Testing is a very capital-intensive process—and here we had a local resource with great technical support, which also served [through its exposure to UML students] as an effective recruiting tool. With all of that, it was a really excellent value for the dollars invested.”

He knew other tech companies would see similar value, and suggested the UMass Lowell luncheon-and-tour opportunity to several other CEOs: the leaders of Brooks Automation, Rudolph Technologies and Entegris, among others, all of them public companies with a combined multibillion-dollar market value.

The initiative bore fruit: “We got some commitments,” says the MKS CEO, who adds that he hopes to make the “CEOS on Campus” tour an annual event.

The potential revenue this could generate for the university, together with the exposure it would offer to students and faculty, is substantial. It’s one more

step in cementing the role of UMass Lowell as a partner with industry in testing and research.

And this is only one of several examples of the growing partnership between MKS and the university. Another, according to company Vice President of Marketing Dave Henry, has been the company’s participation in the university’s annual Biopharmaceutical Summit, where MKS engineers and technical staff interact with students, faculty and industry representatives to share the latest advances in biomanufacturing technology.

There is also the company’s internship program, which every summer brings UML students to work and learn at its Methuen plant. “And they do real work, believe me,” says Henry. “It’s work at a first-year engineering level. We don’t just have them filing papers.”

The students aren’t the only ones who benefit, he says: “They bring a different perspective, a whole new approach to things, especially when it comes to marketing. They’re very focused on mobile and social communications, which can really help companies like ours advance our social media and web presence. So it works both ways. They push us a little, and that’s good.”

Perhaps the most powerful testament to the alliance between the university and MKS is the pipeline of UMass Lowell graduates who make their careers there. There are roughly 50 of them, says Henry, at all levels of the company, from staff engineers to company executives. One of these, Wayne Cole '90, is a vice president and general manager, responsible for several of the company’s key business units. A six-year MKS employee, he credits much of his success to what he calls the “real-world experience” he got at UMass Lowell.

And he says there are others like him, UML graduates he works with every day: “Some really key people, competent, reliable, highly trained. The university, I think, is known for those types.” [UML](#)

> BY GEOFFREY DOUGLAS

It Starts at Home

In gratitude to two aunts who made college possible, Dotty Boisvert '82, '86, '92 is helping students who aren't as fortunate

Dorothy ("Dotty") Lozowski Boisvert was only two years old when she and her mother Millie, barely afloat financially, moved in with her grandmother and two aunts at their second-floor tenement apartment in the Back Central neighborhood of Lowell—where they would all later be joined by her father and her two sisters. There was food enough for everyone, but very little money—and even less room.

"It was very tight living, eight of us in only five rooms," says Boisvert '82, '86, '92. "There was always a line for the bathroom. My father would often give up and go to the one in the bar around the corner."

Boisvert would remain there with her extended family through her childhood and teens, until her marriage in 1971.

"My aunts, Rita and Dot, they took care of everything—school, food, shoes, winter coats, whatever we needed. They just took care of us. It was that way right from the start."

The arrangement was clear-cut: Aunt Dot did the cooking, housekeeping and caretaking, while Aunt Rita, who left the house every morning (as did Boisvert's mother) for her full-time secretarial job, paid the bills. But it was about much more than that—especially with Rita.

"She supported us in everything we did, especially when it came to education. She was our guide, our moral compass. When we showed an interest in something, she'd always encourage it."

Boisvert remembers, as a little girl, going with Rita for the first time to the Museum of Science in Boston: "And I loved it right away. I just looked around and thought, 'Wow, this is for me!' And from that time on, she encouraged my interest in science. Even years later, during my time in graduate school, she typed my papers and helped me with my dissertation. Whatever it took, Aunt Rita would do it. Education was important to her.

"Part of it, I think, was that she was very smart herself. In today's world, she would have gone to law school, probably. She could have done so many things with her life. But it was a different time. And she and my Aunt Dot, both—they were women of their time."

Her teenage years behind her, Boisvert pursued her scientific bent right through a B.S. from Merrimack College in clinical lab sciences. Her horizons expanded to embrace education: she earned a master's degree in educational administration in 1982, followed by a CAGS degree in educational leadership four years later, both from the University of Lowell, and finally a doctorate from the UMass Lowell College of Education in 1992.

For part of that time, she was employed at ULowell, in the Clinical Laboratory Sciences Department, prepping labs for the classes that would follow. One day, during a faculty shortage in the late '70s, as she recalls it, the department head approached her with

the question, "Do you think you could teach these labs on your own?" She did—and for the next five years she filled in as a de facto member of the faculty, while pursuing her master's degree.

In 1983, her master's in hand, she went to work at Fitchburg State University as a professor of biology. She would remain there nearly 30 years—eventually serving first as department chair of clinical lab sciences, later as dean of graduate and continuing education, and finally returning to her job as professor—before retiring in 2012.

Meanwhile, as Rita, Dot and Millie grew older, their capabilities declined. By the mid-1980s, no longer working, living on a fixed income and growing more and more frail, they all were less and less able to manage. "My aunts didn't drive," says Boisvert, "and my mother's driving skills were limited. They needed someone to take them around to do errands or to the doctor, all those sorts of things."

In 1985, Boisvert and her former husband, in a move that closed the family circle in what she views today as "the only right thing to do," put a dormer on their house and took in all three women, who would live there the next 20 years until they died, one by one, between 2001 and 2009.

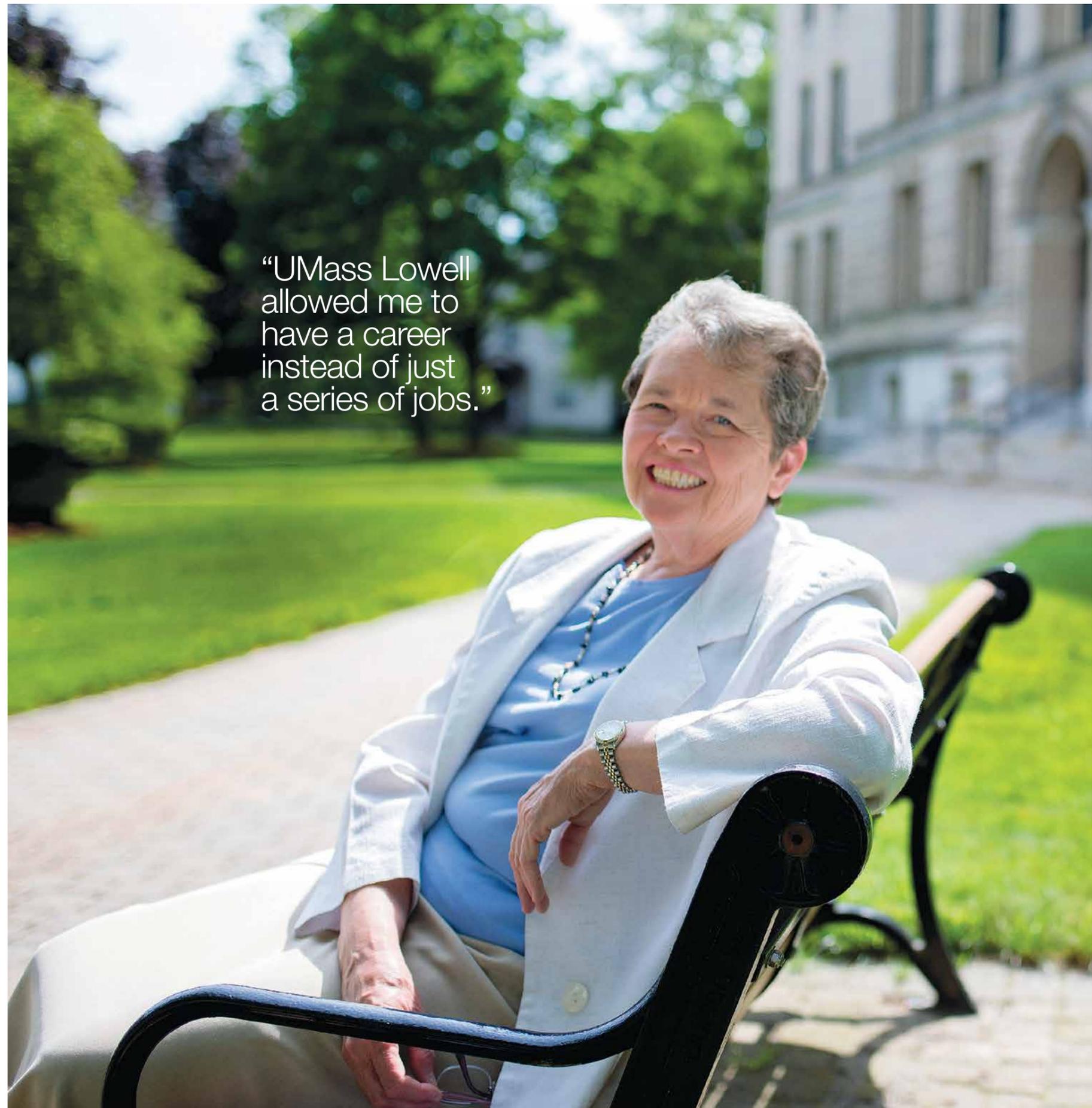
For nearly all of this time, Boisvert had been contributing faithfully, but modestly, every year to the UMass Lowell Alumni Fund. Now she wants to do more.

"UMass Lowell allowed me to have a career instead of just a series of jobs," she says. "The master's degree got me to Fitchburg State [and] the CAGS degree got me tenure, while the doctorate helped me go on from there."

Nearly as important, she says, were "the very close relationships" she had with members of the faculty in the College of Education academic advisers Dorothy Meyer, Bill Phelan and Brenda Jochums-Slez. Perhaps her closest tie was with College Dean Virginia Biggy, who died in 2006. "She took a real chance on me," says Boisvert. "I didn't meet most of the entrance requirements for the master's program, but she let me in anyway. I've always been grateful for that."

The other reason behind her giving is more personal, and is reflected in the title of the endowment she recently established with the university: The Dorothy M. and Rita C. Leary Memorial Scholarship fund, aimed at the support of students in the College of Education who, as she was all those years ago, are working toward a career teaching chemistry or biology.

"I know what it is to want to go to school, but to have to find somebody else to pay for it," says Boisvert. "Rita and Dot didn't just encourage us to go—they made certain that we could. I want them to be remembered for that, and I hope that my gift will help others not fortunate enough to have such special aunts." 



"UMass Lowell allowed me to have a career instead of just a series of jobs."

BY KATHARINE WEBSTER

SOLVING THE WORLD'S MOST IMPORTANT PROBLEMS (IN 5 DAYS OR LESS)

The year is 1984—about 15 years before today's UMass Lowell students were even born. The space shuttle Discovery has just returned to Earth after its first flight; crack cocaine is spreading through American cities; Satanic panic grips the heartland; and scientists have discovered the cause of a mysterious new disease, AIDS. The Marines have withdrawn from Beirut and Islamic Jihad has kidnapped the CIA station chief. The Cold War is ice cold. In a few weeks, President Reagan will win re-election in a landslide. Fall 1984 is also when an envelope arrives at the Department of History in Coburn Hall. It is from Harvard, and Kathleen Curtin—a junior from Chelmsford, working part time as a secretary—opens it. It's a generic invitation to a Model United Nations conference in Boston. Will UMass Lowell send a team?

Continued

Renovations planned for Coburn! Seen in this photo, Coburn Hall—which opened in 1894 as the original building of the Lowell Normal School—remains one of the most architecturally significant buildings on South Campus. But it needs a facelift (and maybe a tummy tuck). To address lack of accessibility for people with disabilities, inadequate rest rooms and other infrastructure problems, the university will begin a more than \$40 million renovation in summer 2018. Stay tuned!



Roger Cressey '87, who was on the first Model U.N. team at UMass Lowell, practices a presentation before his classmates.

Curtin might have filed the letter or thrown it away. But she liked the idea of researching other countries and pretending to represent them. She took it to History Prof. Dean Bergeron in the basement office he shared with Political Science Prof. Joyce Denning, a space affectionately called “The Clubhouse” by the politically minded students who hung out there.

Bergeron agreed to advise a delegation. On that small moment, a little piece of UMass Lowell’s history turned.

At Harvard’s conference, the kids from the Clubhouse represented Bulgaria, a nation they had researched furiously while also committing themselves to learn parliamentary procedure and debate.

They didn’t win anything. But they had started something.

With the benefit of hindsight, it’s clear that Model U.N. is one of the university’s great success stories. We’re talking about countless awards and careers—illustrious ones—launched in the fields of politics, diplomacy, security and media.

Everyone has heard of Corey Lewandowski ’95, the polarizing figure who successfully piloted the Trump campaign through the 2016 primaries. He cut his teeth representing Morocco for Model U.N., then working for U.S. Sen. Bob Smith of New Hampshire.

Others, like counterterrorism expert Roger Cressey ’87, may not be household names, but they have gone on to distinguished careers. He was in the White House situation room on Sept. 11, 2001, advising the Bush administration on how to respond (see sidebar on facing page).

Other UMass Lowell Model U.N. alumni have landed in the State Department, the Pentagon and the Nuclear Regulatory Commission.

LEARNING BY DOING

From the beginning, Model U.N. was the ultimate immersive experience.

Bergeron turned it into a class and piled on the reading—both before and after students could do research online. He was an early adopter of experiential learning techniques, such as videotaping the students giving speeches so they could analyze and correct their stutters and tics. Often, Bergeron would throw out a sticky question, then sit back and watch as the students wrestled with it. Weekends were devoted to practice sessions and role-playing.



The team that took home the first “Best Team” award at Model Arab League in fall 1985 included Kathleen Curtin ’86 (front row left), Roger Cressey ’87 (next to Curtin) and Brian Kenny ’87 (fourth from left).



Former students, like Cheryl Henry ’96, say the skills they developed have propelled their careers.

“Most importantly, I learned public speaking, negotiation and problem solving,” says Henry, president and COO of Ruth’s Hospitality Group, which has more than 150 Ruth’s Chris Steak Houses around the world. “I remember to this day the first time I had to stand up in a meeting in Washington, D.C., and defend my position in a ballroom filled with students from all over the world.”

But Bergeron also taught students to fully consider other perspectives, says Brian Kenny ’87, another in that first group of eight Model U.N. students.

At Bergeron’s urging, for example, the team applied to represent Libya at Model Arab League in 1987, around the time dictator Muammar Khadafy was accused of sponsoring a terrorist attack in a Berlin disco that killed two U.S. soldiers.

“Libya was public enemy No. 1, and we had to set our emotions aside as Americans,” says Kenny, now head of marketing and communications at Harvard Business School. “Every job where you’re engaging with other people has an aspect of diplomacy and negotiation to it, and negotiation is all about understanding what motivates the other party.”

BEGINNING OF A DYNASTY

The Libyan delegation won Best Team at Model Arab League in 1987. They had won the same award the year before as Iraq. They would win again a year later. And the year after that.

“We were a dynasty,” says Paul Geary ’91, a former radio talk-show host and campaign manager for Republican candidates who now works in business news and information.

As the Model U.N. and its affiliated student group, the International Relations Club, grew, so did the competition schedule. Lowell began sending its team to New York City—for Model U.N. at the real United Nations.

“I ended up with all these good students who went on to win awards, and the more awards that they won, the more recognition they got at the university,” says Bergeron, now retired.

Chancellor Jacquie Moloney ’75, ’92 was a fan of Model U.N. from its early days, when she was teaching at UML and working toward her doctorate. She interviewed Bergeron for her dissertation and advocated for his promotion to full professor based on his outstanding teaching.

Indeed, students adored him. Cressey tells a story about how he was planning to transfer to UMass Amherst because he hadn’t seen students going from UMass Lowell into the foreign service. “When I told Dean that, he said something like, ‘Well, Roger, if you stay here there are a lot of fun things we could do together.’” And they did.

WITNESSING AND MAKING HISTORY

Cressey became the first university graduate to win a coveted presidential management internship, going to work at the State Department. Hot on his heels was Todd Masse ’88, who worked at the Congressional Research Service and now serves on the Nuclear Regulatory Commission.

Cressey spent his two-year internship rotating through different State Department bureaus, including the U.S. embassy in Israel. He went on to work in the foreign service for several

9/11: Model U.N. Prepares Students for the Real Thing

Don Leonard ’02, ’04 showed up bright and early on Sept. 11, 2001, for the first day of his semester-long internship at the International Trade Administration in Washington, D.C. He was just settling into his cubicle when news spread that one hijacked airplane, then another, had crashed into the World Trade Center towers in New York City. Leonard huddled with his new co-workers around a computer monitor.

They were all staring at the text-only updates on CNN’s website when al-Qaida operatives flew a plane into the Pentagon at 9:37 a.m. The office window shook violently.

“Everyone jumped,” he recalls. “We wondered whether this was part of a larger attack on global trade offices. My very first e-mail as an intern was from the Secretary of Commerce, ordering us to evacuate the building.”

“MY VERY FIRST E-MAIL AS AN INTERN WAS FROM THE SECRETARY OF COMMERCE, ORDERING US TO EVACUATE THE BUILDING.”

Outside, Leonard and his co-workers stood in the shadow of the Washington Monument as F-16s flew overhead. Traffic was gridlocked and public transportation was shut down, so eventually Leonard walked across the Potomac River to Alexandria, Va., his mind filled with worry about his Model U.N. friends and fellow Washington interns.

Through UMass Lowell’s partnership with The Washington Center for Internships and Academic Seminars, he had come to D.C. along with **Barbara Rocha Williams ’02, ’05**, who was working for Sen. John Kerry at the Capitol, and **Lisa Chandonnet-Bedoya ’02, ’04**, who was working at the State Department. Early reports mistakenly claimed that both buildings had been hit. “I spent most of the morning wondering if my classmates were still alive,” Leonard says.

By afternoon, all three were reunited at the intern dorm in Alexandria. They spent the rest of the day glued to cable news.

“That day was surreal, like something out of a Hollywood movie,” Leonard says.

Meanwhile, **Roger Cressey ’87**, then director for transnational threats for the National Security Council, was in the White House situation room with his long-time mentor Richard Clarke. The pair had tried unsuccessfully to warn the new Bush administration about the increasing threat posed by al-Qaida, says Cressey. “They understood state-sponsored terrorism and Palestinian terrorism,” he says, “but they came into a world where transnational terrorism, exemplified by al-Qaida, was the true threat.”

That lesson wasn’t lost on Leonard. Earlier that year, he had traveled with Prof. Dean Bergeron and other students to Washington for a Model Arab League competition. Cressey hosted Bergeron and the students at the National Security Council and briefed them about the growth of transnational terrorism and the failed states that gave rise to it.

Cressey’s briefing altered the trajectory of Leonard’s life. At the time, he was a cadet in UMass Lowell’s Air Force ROTC program, preparing for a career in military intelligence. But not long afterward, he had an epiphany. “The nagging question before me was, ‘How do you eliminate non-state threats like Osama bin Laden by bombing failed states?’ I was trying to identify a military solution to those threats, and I couldn’t,” he says.

He headed straight to Bergeron’s office and told him he wanted to study international development instead. Leonard went on to complete a master’s degree in regional economic and social development at UMass Lowell, after which he served for two years with the U.S. Peace Corps in Bolivia. After earning a Ph.D. in government at Cornell University, he became a professor at The Ohio State University, where he teaches courses on international development planning.

His fellow interns also earned master’s degrees in regional economic and social development and pursued careers related to their Washington internships. Rocha Williams is now deputy policy director for New York Gov. Andrew Cuomo and Chandonnet-Bedoya is a senior adviser at the U.S. Agency for International Development. UML

Continued



History Prof. Dean Bergeron (left), who advised the Model U.N. team for many years, with student Brian Kenny '87.

years, including stints as a political adviser to the U.N. peace-keeping missions in Somalia and the Balkans. Much of the work already seemed familiar. "In the mid-'90s I was a delegate to the multilateral track of the Arab-Israeli peace process, and I laughed to myself because I was using some of the same skills I developed in the model leagues," he says.

Cressey invited Bergeron and the IRC students to visit him when they were in Washington to compete in the Model Arab League. Don Leonard '02, '04 remembers getting a briefing from Cressey shortly after the latter joined the National Security Council, right around the time of the U.S.S. Cole bombing,

"For a bunch of working-class kids, it was absolute nerd-candy to be given a security pass to get into the old Executive Office Building to meet with someone on the National Security Council," Leonard says.

Altogether, the IRC and Model U.N. graduated four presidential interns. But Bergeron wasn't satisfied, Leonard recalls. "Dean decided that for UMass Lowell students to compete with the Ivy Leagues, we should have more internship opportunities in Washington," Leonard says. So Bergeron started the university's partnership with The Washington Center for Internships and Academic Seminars. Now 15 to 25 students each year go to

Washington for a semester or a summer and intern for politicians, government agencies and nonprofits, while taking classes.

Bergeron also helped start the graduate program in regional economic and social development, which is now the policy track of the Peace and Conflict Studies master's program.

A COACHING TREE

The students Bergeron mentored became mentors themselves, spreading Model U.N. into high schools and middle schools.

Jana Brown '91, '93 launched a Model U.N. team and International Relations Club at Whittier Regional Vocational Technical High School, where she teaches social studies. Zachary Simmons '99, '00 called her for advice when he was starting a club at Haverhill High School, where he teaches history. When he mentioned that Bergeron had told him to call her, they got to trading stories. "Immediately, I knew we were in the same cult," Simmons says.

Brown and Simmons took turns hosting each other for conferences. Then other schools in the region asked to join. Soon, Haverhill High's Model U.N. became so popular, it hosted large regional events at Northern Essex Community College.

When UMass Lowell's IRC decided to launch a high school Model U.N. 13 years ago, Bergeron and his successors—political science Assoc. Prof. Ardeth Thawngmung and Jason Carter, a teaching assistant turned adjunct—sought Brown's and Simmons' advice. Today, a dozen high schools annually bring a combined 200 students to the university for three days of intense discussion and debate. And Simmons and Brown get the pleasure of watching their former students run UML's high school Model U.N.

"My former student Pasquale Zarro was the secretary general this year, and Zach's student, Alejandro Lopez, is secretary general this coming year," Brown says.

Lopez '18 started Model U.N. at Haverhill High as a junior—and enjoyed it so much that during his senior year, he started Model U.N. programs at three Haverhill middle schools. He chose UMass Lowell over UMass Amherst mostly because of our Model U.N. team's strong reputation.

The senior economics major now enjoys watching his former middle school protégés perform at the university's high school Model U.N. each spring. "Some of the delegates I helped train while I was in high school come to the conference here and do well and win awards," he says. "It's really satisfying."

Carter went into teaching largely because he was Bergeron's teaching assistant. He is honored to walk in Bergeron's footsteps. "Dean became way more than a teacher, way more than a mentor, way more than a friend, because he was all three of those things wrapped into one," he says.

People in business like to talk about "coaching trees," Kenny says. "I bet the Dean Bergeron-Model U.N. tree is very impressive."

Brown agrees: "It's cool how much it's spread, all because of one person: Dean taught us, and we taught them, and it just keeps going."

HISTORY REPEATS ITSELF

Today, the year is 2017—a full generation after Model U.N. began at UMass Lowell.

The space shuttles are in museums, and private companies are launching rockets into space. The opioid epidemic is ravaging American communities. A new virus, Zika, is poorly understood. Islamic Jihad has given way to al-Qaida and ISIS. Russia has allegedly meddled in a U.S. presidential election and expelled most of the U.S. diplomatic corps.

Meanwhile, the IRC's "model leagues" program is thriving. Students have more opportunities than ever before. They compete at Model Arab League at Northeastern University each fall—last year as Iraq, once again—and travel to an international Model U.N. each spring. They've debated Scottish independence and Brexit in Scotland and human trafficking and the refugee crisis in Belgium.



Last year, Roger Cressey '87 (far left) and Brian Kenny '87 (far right) visited with Prof. Emeritus Dean Bergeron and Chancellor Jacquie Moloney at a reunion of Model U.N. participants from over the years. The event celebrated the establishment of the Dean Bergeron and Joyce Denning Endowment Fund. To make a gift, visit www.alumni.uml.edu/BergeronDenningFund.

For many students, it's their first visit to another country. That's a real eye-opener, Lopez says, since even in English-speaking countries like Scotland, social norms and political opinions are very different. "It's not just the Model U.N. that's appealing," he says. "It's the ability to expose yourself to a new culture, experience culture shock and see your own country from another point of view."

The students no longer need to fundraise aggressively to travel, thanks in large part to Denning and Bergeron, who in 1995 established the Denberg Scholarship Fund. After Denning died three years ago, leaving most of her money to Bergeron, he expanded that to the Dean Bergeron and Joyce Denning Endowment Fund, which not only supports the IRC and Model U.N., but also provides scholarships and grants to individual students majoring in history and political science.

It's a different time than 1984. But the world still needs leaders. And UMass Lowell is still making them. [UML](http://www.uml.edu)





POINT, COUNTERPOINT: SHOULD THE MIDDLE EAST ABOLISH THE DEATH PENALTY?

Our Model U.N. and Model Arab League students love to suit up or dress up, then head into a debate with tons of research under their belts—and win, whether that means bringing home an award or persuading committee members from other nations to support an important resolution.

Recently, economics major Alejandro Lopez and political science major Ryan Dekeon, friends and fellow Model U.N. enthusiasts since they were students at Haverhill High School, sat down with us for a “Point/Counterpoint” style debate. Lopez represented France and Dekeon represented the United Arab Emirates (UAE) at the U.N. Human Rights Commission.

THE TOPIC: Should the death penalty be abolished in the Middle East, as has been done in Europe?

POINT

UAE: The Quran says: “Take not a life which God has made sacred except by way of justice and law.” In Islamic law, the death penalty is considered for only two types of crimes: intentional murder and fasad fil-Ardh, which means the spreading of mischief in the land. This is interpreted as undermining authority or committing acts of corruption against Allah. It includes crimes such as treason, terrorism, piracy, rape and adultery. In the UAE, we only apply the death penalty in cases of intentional murder or aggravated murder, such as rape and murder. We also exclude certain people from capital punishment: women who are pregnant or have children younger than 2 years old, minors, people who are intellectually disabled and those who are mentally ill.

UAE: Countries in the Middle East are unlikely to abolish the death penalty completely because we take Islam very seriously. Also, if we abolished the death penalty altogether, extremist groups could accuse the government of failing to follow Islamic law and use this as justification for armed rebellion. However, the UAE supports those restrictions that we believe are in line with Islamic law. Our judges also have sentencing discretion.

UAE: We have had people sentenced to death for fasad fil-Ardh. They appealed, and our judges used their discretion to commute their sentences to prison terms. We cannot tell other countries what to do, but we should continue bringing them to the table and try to persuade them to reform their policies and ensure fair trials.

COUNTERPOINT

FRANCE: France applauds the UAE for its restrictions on the death penalty. We understand that countries have a sovereign right to enact capital punishment, but we would like to point out that research in both wealthy countries like the United States and poor countries like the Democratic Republic of Congo shows that the cost of fair trials for death penalty cases is much higher than trials for the same crimes when the death penalty is not an option. Abolishing the death penalty would free up more resources to ensure fair trials.

FRANCE: The Middle East also has many governments and groups that use fasad fil-Ardh to justify jailing and executing political opponents. So they not only execute rapists and adulterers, but they put to death journalists, human rights activists, professors and government critics. Some governments and sharia courts also condemn people to death for being gay or lesbian. This goes hand in hand with a lack of fair trials.

FRANCE: We strongly recommend that Middle Eastern nations with the death penalty look toward abolishing it in the future, using the UAE’s model as a stepping-stone. We recommend that governments ensure fair trials, limit the crimes that qualify for the death penalty and limit who can be executed. We strongly believe that no one should receive a death sentence for nonviolent crimes, such as political speech and association or sexual preference. We also call on Saudi Arabia and Iran to abolish public executions immediately.

ALUMNI LIFE

INTERNATIONAL BALLER

While he was at UML, criminal justice major Danny Meas '17 started the men’s basketball club team, leading it to the nationals in both of the last two years. In August he brought his skills to an even larger court, playing for the Cambodian national basketball team in the 29th Southeast Asian Games in Malaysia. Supported by the recently formed USA-Cambodia Basketball Association, the team included five players born in Massachusetts (anyone of Cambodian descent is eligible). Though the team didn’t come away with the title at the Olympic-style event, Meas says the opportunity to travel to a new country and play a game he loves was a “win-win.”



If physical fitness is an indicator, business alum **Ronald H. Lafond '63** just may make it to age 100. Lafond, who played baseball for the university in 1962-63, qualified for this year's North Carolina Senior Games in both basketball and softball for the 75 and older age group, to be held in October. [1]

'56 David Killam was presented with a plaque at a recent concert of the Harmonie de Coaticook in Quebec. He was honored for being a dedicated teacher and mentor for all young musicians.

'57 Pauline Dyer-Cole, who was a music voice major, continued singing for many years with the Worcester Chorus. She was invited to travel to Italy this past May with The Voices of Naples, where they sang at St. Peter's Basilica in the Vatican and at two other ancient churches in Florence and Venice.

'58 Edward I. Landy retired in 2002 after 15 years of ownership of Dela Inc., a laminating, coating and fabric company with headquarters in Haverhill, Mass.

Robert H. Mack retired from his dental practice in 2014 in Bloomfield, N.J. He was active in the practice for more than 47 years.

'67 Jean E. Jacoppi '67, '92 retired in 2008 and has traveled all over the United States and Europe.

Russell E. Stoczek has been retired for more than 11 years while enjoying golf and travel.

'70 Jean R. Tremblay retired in 2007 after working as an industrial engineer (CNC programmer) for several companies in New England.

'74 Peter Barrett was tapped to lead Harvard University's Blavatnik Fellowship in Life Science Entrepreneurship, a program fostering connections between emerging business leaders and cutting-edge scientific innovators. Barrett, who will serve as faculty chair, is a partner at Atlas Venture. He serves as chairman of Obsidian Therapeutics, Synlogic and Zafgen and is on the boards of Cadent Therapeutics, Infa-Care and PerkinElmer.

Judith Burke was honored by Girls, Inc. for being an advocate for educational advancement.

Robert G. Cameron was awarded second place in the Lowland and Border Pipers' Society Overseas Division Contest in 2016 and 2017.

Robert R. Morin Jr. was appointed city commissioner and mayor of Eustis, Fla.

UMass Lowell Athletic Hall of Fame inductee **John Murphy** (baseball, 1980) "met" New York Yankee diamond legend Babe Ruth during a recent visit to the National Baseball Hall of Fame in Cooperstown, N.Y. After retiring from the pharmaceutical industry, Murphy and his wife, Pam, have made their home in Peachtree City, Ga. [2]

'75 John P. Custy Jr. was named among the Top 25 Thought Leaders in Technical Support and Services Management on the ThinkHDI website. He was also named one of the Top 20 IT Service Management People to Follow on Twitter and one of the Top 25 IT Service Management Experts to Watch in 2017 by Cherwell Software.



'77 William G. Hanley retired after working 37 years in the government service industry as lead meteorologist at the National Weather Service Forecast Office in Burlington, Vermont.

'78 James A. Byrnes teaches math at the Academy of Notre Dame, where he implemented and refined the academy's Math REACH program for grades 4-8. He also has an impressive tie collection given to him by co-workers and students. [3]

Stephanie A. Henry-Eberhart was a member of the music faculty at UCLA and California State University. For 13 years she directed and toured with the UCLA Campus Choir, traveling to Ireland, the Czech Republic and Carnegie Hall. In 1990, she founded the annual West LA Community Chorus Festival. In 1999, she founded the Kansas City Women's Chorus and directed various musical theater productions and programs. Since 2013, Henry has worked with the East Hill Singers at Lansing Men's Correctional Facility as accompanist and associate conductor.

'80 Richard S. Danforth was named chief executive officer for Long Range Acoustic Devices Corp.

Mark Kowlzan, '80, '81, chairman and chief executive officer of Packaging Corporation of America (PCA), has been named the 2017 North American CEO of the Year by the RISI, an information provider for the global forest products industry. The award will be presented at a conference in October in Boston.

'82 Deane L. Prouty is a professional musician in New York City and currently works in the Juilliard School as a percussion department coordinator. He has been performing with many artists, including a recent performance on "Good Morning America" as a percussionist for Josh Groban.

'83 Gail Beaudoin '83, '92 retired from the Chelmsford Police Department after a 32-year career in which she broke many barriers in the department. She was one of the first women officers hired, was the first woman to be named detective and was the only woman to be promoted to sergeant and then to lieutenant. Beaudoin has also taught criminal justice classes at UMass Lowell. [4]



Lisa DeMeo '83, '94 has been appointed head of public works in Salisbury, Mass. Previously, DeMeo was the lead engineering in the city of Lowell's Department of Public Works.

'84 Susan A. Bruno Thifault has written her first book: "Woburn High School - History, Pride, Tradition." In October 2016, she hosted a book launch sponsored by the Woburn Historical Society where over 500 people enjoyed an evening full of memories. She recently held book signings at Barnes & Noble and the Woburn Public Library. [5]

'85 Wayne Jalbert was named president of Hancock Associates in Danvers after being with the company for more than 30 years.

Stephen J. Lemire '85, '87 and **Ann Marie Lemire '85** were best friends in the Health Services Administration program in the mid-1980s. After more than 30 years apart, Stephen found Ann Marie and proposed on South Campus where they last said their goodbyes. They were married in February 2017.

Craig Schermerhorn of Lincoln, R.I. was named vice president of commercial lending at Centreville Bank, West Warwick, R.I. Schermerhorn, who earned a degree in business management, has more than 30 years of commercial lending experience.

Susan M. Schueller '85, '13, '14 is volunteering in UMass Lowell's Kennedy College of Sciences Dean's Office as the community outreach coordinator. She is a senior member of IEEE, a member of the Society of Women Engineers (Boston section) and IEEE/Women in Engineering. Susan was featured in the June 2016 IEEE/Women in Engineering magazine article "Women to Watch."

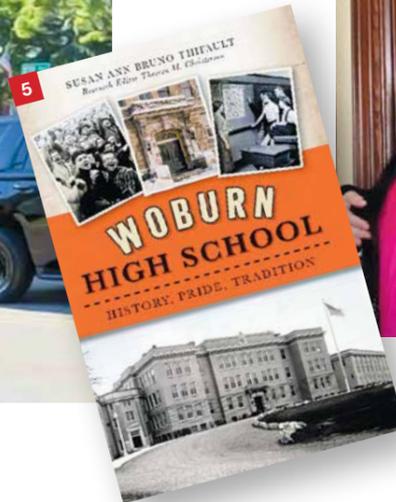
Sean T. Sullivan has been appointed to the position of executive director of the Tampa Bay Regional Planning Council. He has 29 years of management experience working in transportation, land use and environmental protection in both local and federal government.

Kevin T. Wayne published two books in 2017, "Deconstructing Management Maxims: A Critical Examination of Conventional Business Wisdom," volumes I and II. Both books were published by Business Expert Press, New York, N.Y.

Elena T. Yee received her master's degree in clinical mental health counseling at Rhode Island College with a 4.0 GPA. She was the founding president of Chi Sigma Iota at RIC, which is an international honor society for counseling. She is currently the elected member-at-large for graduate students and new professionals for the American College Counseling Association. [6]

'86 Carol A. O'Leary has been working at Perkins School for the Blind for more than two years. She continues to work evenings at Harvard Vanguard Medical Associates in the Pediatric Telecomm Center.

Continued



1: RONALD H. LAFOND '63
2: JOHN MURPHY '74
3: JAMES A. BYRNES '78
4: GAIL BEAUDOIN '83, '92
5: SUSAN BRUNO THIFALT '84
6: ELENA T. YEE '85

CLASS REUNION

This year, we're celebrating all class years ending in 2 and 7. Learn more about how we're celebrating you all year long by visiting alumni.uml.edu/Reunion2017

> CLOSE-UP CLASS OF 1978

He Weathered Storms for Over Three Decades

After 34 years as chief meteorologist at NBC Connecticut, Kennedy College alumnus Brad Field '78 retired this summer to spend more time with his family and friends.

"My biorhythms are already changing," he says. "After working until midnight for 34-plus years, and going to bed around 2 a.m., it's nice to go to bed in the evening and be up for the day by 7 or 8."

Field—who served as a meteorologist at WLNE in Providence, R.I., before joining NBC Connecticut—says one of the standout memories from his long career was when he covered the blizzard of 1978 while a student at UMass Lowell.

"I was interning at Weather Services Corporation in Bedford, and my good friend and fellow meteorology major Fred Gadomski would not let me drive alone to my shift as the blizzard was getting underway," he recalls. "We made it in, but Governor Dukakis had essentially closed the state, so there we were, mere college students doing radio broadcasts on WEEI Boston for what was the worst storm in any of our lives."

The pair was trapped at WSC for four days, and ran out of food after two, Field says. But when it was over, "Chief Meteorologist Bob Rice asked me what I was doing in May, after graduation, and followed up with, 'You're working for me!'" Field says. "I never had to send out a single résumé."

Field credits Prof. Robert C. Curtis for teaching him "how to be tenacious, how to 'hang in.' I do not mind telling you there was a high mortality rate of meteorology majors," he says, explaining that six semesters of calculus weeded out many students.

"I admired him always, and later found out he was a decorated, courageous World War II hero," says Field, who named the older of his two sons Curtis. Both sons are in college, Curt at UConn and Connor at WPI. Curt is an assistant football coach for Granby High School in Granby, Conn., where the Fields live, and Connor is a running back for the football program at WPI.

"So, my wife, Sandy, and I will be watching a ton of football this fall," Field says. And come this winter, he hopes to weather some storms from home.

"In our 25 year marriage, not once have we walked in the snow, or sat around the fireplace and enjoyed a storm!" he says. "It's high time." **UML**



> CLOSE-UP CLASS OF 1990

Transplanting Kindness



He hadn't felt right in months, he recalls now, looking back. Then he noticed the bloodshot eyes, which might have been just the price to pay for a few too many beers the night before—it wouldn't have been the first time. But then came the heart palpitations. And when he looked in the mirror, he saw a jaundiced face; there were bruises where there hadn't been before. He suspected a heart attack.

An emergency-room blood test told an even grimmer story: acute liver failure, his organs shutting down. "The doctor said I could die that night," says Terrance McMahon '90.

It was May 26 of last year, the Thursday before Memorial Day. McMahon, known by most as "T-Mac," was an active, successful 47-year-old CEO of Mass Mutual of Northern New England. He had a full life, two kids, a home in New Hampshire and a full slate of plans for the weekend. But all that was flipped on its head.

The next eight months for T-Mac were hellish. Four more emergency hospital stays, multiple transfusions, steroids and fluid drainings, endless pain and constant fear, nearly 100 pounds of weight lost by the end. And with all that, the news was still bad: he would need a new liver, the wait was sure to be long, and there was no guarantee they would find a donor in time or that he would survive the transfer if they did. His chance of survival was put at 30 percent.

The week before Thanksgiving, he flew to Jacksonville, the site of the Mayo Clinic's Florida campus, known for its transplant program. He moved into an apartment and waited—for what, he had no way of knowing.

Not long after he got there, he had a pair of visitors: UMass Lowell baseball coach Ken Haring (T-Mac had played baseball there on a scholarship 25 years before, "although I was never all that good") and Assistant Athletic Director Eric Allen. "They came as friends, out of nowhere, just to wish me well. I can't tell you how much that meant."

He'd been there two months when the call came, at 1 a.m. on Jan. 18: "I was eating a sandwich. My mother was in the next room sleeping, basically waiting for her son to die."

They had found a donor. T-Mac was at the hospital 10 minutes after the call, and was wheeled into surgery 24 hours later. The new liver was implanted, and has so far served him well. He splits his time today between Jacksonville and New England, on his way to full recovery. "I get tired sometimes," he says, "and I'll be on these meds the rest of my life, and I haven't had a drink since it happened. But I've been blessed. And I'm grateful like you can't believe."

When he was at his sickest, he says, he made a pledge to himself: "If I live through this, I'm going to help other people." He has kept the promise. Visit www.mrshuttlesworth.com and you'll see the fruits of his efforts and his dollars: three spacious Jacksonville apartments, accommodating 24 beds, "a beautiful beach environment, a comfortable 'at-home' setting, and full transportation services to and from the transplant center ... for families awaiting life-saving treatments."

"I know how sick those people are," he says, "the pain and the fear they're going through, and how long that wait can be. I've been there, I've lived that. If I can give them a comfortable, affordable place to do their waiting—well, at least I've done something for the world."—GD

Continued on Page 50

'88 Christine Chisholm is the new president of the board of directors for the Lowell Humane Society. Chisholm is a regional planner and project manager for the Massachusetts Department of Agricultural Resources, working with farmers in the region to place agricultural restrictions on their properties.

Dennis F. King II was elected to the Chelmsford School Committee. He has 29 years of experience working in education.



'89 Alan T. Beland's son Brandon recently started at UML and joined the men's lacrosse team. Alan now lives in Granite Bay, Calif.

'90 Paula F. Bradbard and her husband, Leland, were featured in an article in the Hartford Courant for their tireless community volunteer work, from knitting clothing for the local Head Start program to helping in a soup kitchen. The Bradbards also volunteer for History Unfolded, a project of the United States Holocaust Memorial Museum in Washington, D.C., checking newspapers for articles about Holocaust-era events in the U.S. and Europe and submitting them to a national database. They also participate in inter-generational discussions, called Better Together, with students from Hebrew High School in West Hartford. Paula worked as a teacher in Medford, Mass., and Leland was a psychologist for the U.S. Veterans Administration in Boston. They have been married for 62 years and are currently living in Manchester, Conn., to be near family.

Joel F. Dube was named vice president of finance at EXA Corp. in Burlington, Mass.

Mechanical engineering alumnus **Mark Reed** is superintendent for the U.S. Capitol Building in Washington, D.C., where he's responsible for the day-to-day structural, mechanical and domestic care of the building and the Capitol Visitor Center. Reed was previously deputy superintendent of the congressional House Office Buildings. **[7]**

Brian R. Sheehy is the new vice president of marketing for Alliance Tire Americas in Wakefield, Mass.

Amit B. Sheth '90, '92 runs marathons all over the world. He ran the Comrades Marathon, which is an 89-kilometer race in Africa, and was awarded the Spirit of Comrades Award. An author, Sheth also wrote the book "Dare to Run." **[8]**

'91 Archna Haylock has been named community director of the Open Compute Foundation. The nonprofit organization was founded by Facebook, Intel and Rackspace with a mission of applying the benefits of open source to hardware to rapidly increase the pace of innovation at data centers. Haylock brings to her position more than 15 years of experience at IBM working in customer relations and business development.

Robert F. Landry was recently promoted to chief investment officer at USAA Investment Management Company in San Antonio, Texas.

Joseph D. Luis was named the new baseball coach at Saugus High School.

'92 Derek R. Badala was named director of sales Americas at Synthax.

John M. Hardy is working as a project manager for a business owner in Las Vegas.

John T. O'Leary has been working for Comcast for several years. He enjoys living on the North Shore and boating in the summer.

Richard C. Peck is the new vice president of development and philanthropy services at the New Hampshire Charitable Foundation in Concord, N.H.



'93 Pamela W. Beckwith '93, '97 has joined UMass Lowell's Office of Sustainability. She got married on June 25, 2017.



'94 Criminal justice double alumnus Steven DiNoto '94, '97 is an administrative officer for the San Jose Police Department in San Jose, Calif. He leads one of the largest crime analysis units in California.

Daniel Faircloth was named the new assistant principal at Wilmington Middle School in Massachusetts. He previously held various positions in the Haverhill Public Schools, where he was employed for 17 years. Most recently, he was assistant principal of Haverhill High School.

Edward A. Hake married Susannah Hall at the Flower Fields in Carlsbad, Calif. He is currently the vice president of music at 20th Century Fox Television. **[9]**

> CLOSE-UP CLASS OF 1985

BY BETH BROSNAN

THE DIPLOMAT

Throughout his career, James Costos '85 has espoused that 'we all rise together'

When James Costos concluded his tenure as U.S. ambassador to Spain, he and his partner, Michael Smith, decided to spend their first weekend relaxing with friends who, coincidentally, had just completed their own government assignment.

That's how, just hours after the Jan. 20 inauguration, Costos and Smith found themselves flying to their California vacation home with President Barack Obama and his wife, Michelle. Says Costos, with diplomatic understatement: "Spending those first days together after leaving office was pretty memorable."

Costos' life has been filled with memorable moments. A second-generation Greek-American, he grew up in the Lowell Highlands and Belvidere, the son of a U.S. Marine who, as a young man, was stationed at Camp David. "My father worked his way up into the middle class to support his family," Costos recalls. "Both my parents instilled in us the values of hard work, self-reliance and service, and whatever I did, I always kept those values in mind."

Costos carried those values with him to the University of Lowell, where he became the first member of his family to graduate from college. "Even though I lived at home, I was on campus from morning to night," he says. "I loved the whole college experience." He majored in political science "because I knew it would provide a general liberal arts education that would prepare me for anything—and it did."

His entry into politics would have to wait a few decades. First came a successful career in the retail and entertainment industries, as a senior executive with Tod's of Italy, Hermès and HBO. In 2001, he met Smith, a celebrated interior designer who was later chosen to redecorate the residential quarters of the Obama White House. The pair became close to the Obamas, as well as major fundraisers for the president's 2012 reelection campaign. In August 2013, Costos was appointed ambassador to Spain and Andorra, succeeding UML alumnus Alan Solomont '77, '94 (H).

The economy, international security and human rights were the focus of Costos' work as ambassador, as well as a commitment to "respect for our partners and allies." Diplomacy, he says, "is not a relationship based on one winning and one losing. We all rise together when we encourage transparent dialogue. Maybe we don't always get the best deal every time, but we all win when everyone benefits."

Costos will carry that spirit forward in his work with the Obama Foundation, and as a board member of the global investment bank PJT Partners, where he now advises multinational companies with ties to Spain. [UML](#)



Liz Olivera-Mustard was named vice president of quality management at The Bridge of Central Massachusetts, a Worcester-based human services agency. Olivera-Mustard was previously a privacy officer and compliance director at Worcester health insurer Fallon Health. She is a former board member at The Bridge of Central Massachusetts.



'95 George Fulk of Norwood, N.Y., has been promoted to professor of physical therapy at Clarkson University. Fulk, who is chairman of the Physical Therapy Department, has been a member of Clarkson's faculty since 2002.

'96 David A. Southard has been an alto sax player in the Concord Band since 1988 and performed in two songs during the Concord Band Winter Concert.

Kevin B. Whitney was named chief nursing officer and senior vice president, patient care services at Newton-Wellesley Hospital.



'99 Dong Ho Choi is married and currently working in South Korea.

'00 Ryan J. Stoddard '00, '03 is a physical therapist at Emerson Hospital and helped answer questions about injuries and rehab strategies at a free workshop in Concord.

'01 Scott D. Ouellet is the head coach of both the boys' cross-country and boys' indoor track and field teams at Lowell High School.

'03 Matthew L. Beyranevand '03, '10 wrote a math education book "Teach Math Like This, Not Like That: Four Critical Areas to Improve Student Learning," which was released in July. It is the first of three books for Matthew related to mathematics and was published through Rowman & Littlefield.

'05 Tyler L. Carter '05, '11 married Lindsay York. The couple celebrated to the live music of Chris 'n' Rol and later honeymooned on a cruise to Nova Scotia.



Laura Chesson '05, '11 was named superintendent of Massachusetts' Gorton-Dunstable Regional School District, effective July 1. Chesson, who was previously a manager and programmer with IBM, went on to earn master's and doctoral degrees in education, holding a fellowship with the National Science Foundation and Coalition of Essential Schools. She was an assistant principal in Leominster and a principal at Maynard High School before becoming assistant superintendent in Arlington five years ago.

'06 Kim Brandvold is the new head coach of the boys' hockey team at Central Catholic High School in Lawrence, Mass. He was an assistant coach for the past eight years.

Tim DiFrancesco left his job as head strength and conditioning coach of the Los Angeles Lakers to focus on TD Athletes Edge, a company he founded in 2007 with his younger brother and a childhood friend. TD Athletes offers strength training advice to athletes of all levels. [10]

Framingham, Mass., Assistant Superintendent **Frank Tiano** is serving as interim principal of McCarthy Elementary School in Framingham. He will continue to oversee the district's community development and engagement department while he temporarily leads McCarthy. Tiano came to Framingham in 2015, after serving as superintendent of Chelmsford Public Schools.

'07 Nick C. Lavery joined the U.S. Army Special Forces right after college. After multiple injuries and saving lives during combat, he lost his leg during a firefight in Afghanistan. He now trains future Green Berets as a tactical combat instructor at Fort Bragg. [11]

Reading, Mass., police officer **Brian Lewis** was named the new Reading Public Schools resource officer. Lewis joined the Reading Police Department last May after serving over six years with the Portsmouth, N.H., police.

'08 John Williams exhibited his collage work at Gallery 444 Ptown in Provincetown in July. An artist with Asperger's syndrome, Williams is a member of the Asperger Autism Network Artist Collaborative, an organization that allows artists on the autism spectrum to develop their skills, showcase their work and navigate the business of the art world. [12]

'10 SRT alumnus Nick Dragoni was named technical assistant in noise at the Cambridge, Mass., headquarters of Acentech, a global multidisciplinary acoustics, audiovisual, IT and security system design and vibration consulting firm.

Former River Hawk goalkeeper **Jamie Gillis** signed on with the Boston Breakers of the National Women's Soccer League. Gillis previously played for the Boston Breaker Reserves in the Women's Premier Soccer League, leading the team to an 8-0 regular season to win the New England division. The Reserves advanced to the WPSL National Championship Final Four and finished the season with a 9-1 record. In 10 games, Gillis allowed just seven goals. [13]

Nicole K. Graceffa started a new job at NWN Corp. in November 2016. She was engaged in June 2016 and wed in September in Falmouth, Mass.



'11 Devin Ferreira won a New England Emmy Award for outstanding musical composition for his work on the 2016 Boston Marathon anthem "Unstoppable." The song was created in collaboration with CBS-WBZ for its 2016 Boston Marathon campaign. Devin dedicated the award to the runners, community and all those affected by the 2013 Boston Marathon bombing. Ferreira is currently director of performing arts at the Mattapan Teen Center in Boston's Mattapan neighborhood, where he teaches music production, songwriting, recording and performing. [14]

West Newbury, Mass., police officer **Justin Lindahl** was appointed the department's school resource officer. Lindahl, who has been with the department since December, will spend about 40 hours a week in the schools during the school year. He will work with faculty and students in the high school's law enforcement class, as well as conducting safety programs at the elementary and middle schools, focusing on topics that include anti-bullying, bicycle safety and Halloween safety as that time nears. He will also give advanced law enforcement rapid response training, or ALERRT, to faculty and staff at all schools, teaching them how to make themselves and their classrooms secure during an emergency.

Daniel J. McGrath is now an associate at the law firm Burns & Levinson.

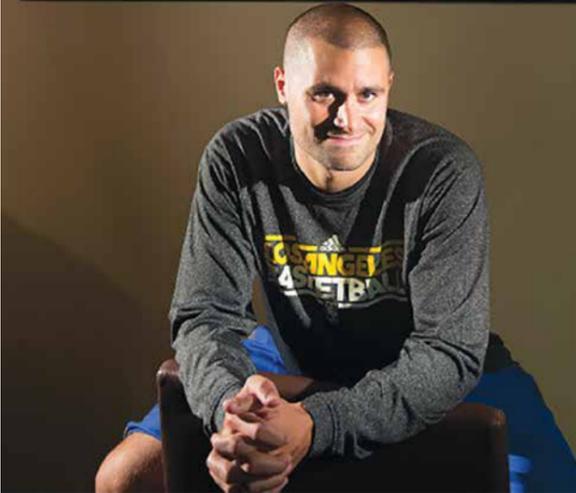
Shayna Phillion joined New Hampshire's SAU 24 in Weare, Henniker and Stoddard as a board-certified behavior analyst. She received a bachelor's degree in psychology from UMass Lowell and a master's degree in behavior analysis from Simmons College.

'12 Sophie E. Hansen works as a per-diem clinical social worker for the care coordination team at Brigham & Women's Hospital. In addition, she is also the training and services coordinator at the nonprofit Massachusetts Children's Alliance. Sophie now lives in "Camberville" near Porter Square.



Governor Charlie Baker named **Lydia Sisson** one of five gubernatorial appointees to Massachusetts' Cannabis Advisory Board. The board will be charged with studying and making recommendations to the Cannabis Control Commission on the regulation and taxation of marijuana. Sisson, who is a founding co-director of Mill City Grows—an urban food production and sustainability initiative providing increased access to fresh, locally grown produce in Lowell—is also a founding member of Lowell's Food Security Coalition. She has been a member of the Collaborative Regional Alliance for Farmer Training in eastern Massachusetts since 2007. [15]

Continued



CLASS REUNION

This year, we're celebrating all class years ending in 2 and 7. Learn more about how we're celebrating you all year long by visiting alumni.uml.edu/Reunion2017



7: MARK REED '90
8: AMIT B. SHETH '90, '92
9: EDWARD A. HAKE '94
10: TIM DIFRANCESCO '06
11: NICK C. LAVERY '07



> CLOSE-UP CLASS OF 1998

Pay it forward

MENTORS MEANT THE WORLD TO STEFANIE DELUCA '98 AT UML. SO SHE BECAME ONE.



Stefanie DeLuca '98 learned the importance of mentorship from UMass Lowell staff and faculty like Thomas Taylor, Larry Siegel, Annie Ciaraldi and Robert Tamarin. Now, more than 20 years later, DeLuca is passing those lessons on.

A commuter student from Tewksbury who spent long hours in the biology lab, DeLuca says she felt detached from campus life during her first two years at UML. Her older brother, Peter Kushnieruk '89, suggested she follow in his footsteps and become an orientation leader.

"That opened up a whole new world for me," says DeLuca, who went on to become a resident adviser at Eames and Bourgeois halls and resident director at Concordia Hall. "It gave me a sense of belonging."

It also introduced her to Taylor, then associate dean of students. They hit it off immediately.

"She was so committed to helping students and was always so positive," says Taylor, now dean of enrollment and student success. "It doesn't surprise me to see her still helping people today."

Raised in a religious family, DeLuca remembers feeling conflicted when her biology studies turned to genetics and evolution.

"I mentioned something to Dean Taylor one day and we sat down and had a long chat," recalls DeLuca, who learned that Taylor also majored in biology at Colorado College before going to seminary. "He told me you can believe in multiple things, which was eye-opening to me. I realized I could start to make my decisions and analyze things at my own level."

After graduating with a bachelor's degree in biological sciences, DeLuca landed a job at Charles River Laboratories in Andover, where she's been for the past 17 years. She and her husband, Dan DeLuca, live in Lowell and have an 8-year-old son.

This year, Charles River Labs began taking part in the "Stand & Deliver" mentorship program run by Family Services of the Merrimack Valley. DeLuca was one of 15 employees chosen to serve as a mentor to a local high school student. She was matched with Thelma Ortiz, a senior from Greater Lawrence Technical School who was interested in engineering.

Every Wednesday afternoon from January to June, Ortiz visited DeLuca at Charles River Labs to get help on her schoolwork and learn about her work. Soon, they began talking about Ortiz' college plans. DeLuca helped Ortiz apply to Northeastern University, the Wentworth Institute of Technology and UMass Lowell. Ortiz got into all three—but was wait-listed at UMass Lowell since she had applied late. DeLuca called the admissions office and explained that UML was Ortiz' first choice. Ortiz was offered admission just before Memorial Day (DeLuca got to call her with the news) and became a River Hawk this fall.

"I am so excited for her. It's almost like it's supposed to happen," says DeLuca, thinking back to those who helped her more than 20 years ago, including Siegel (now associate vice chancellor for student affairs and university events), Ciaraldi (now associate dean of student affairs for compliance and violence prevention) and Tamarin (emeritus professor of biology and former dean of the Zuckerberg College of Sciences).

"If it wasn't for them, I guess this chain reaction never would have happened. They made me realize how important mentoring was. It's just natural that that's what you do."—EB

'13 Olamide A. Adeyinka received an MBA and a master's degree in international development and social change at Clark University. She was elected to present the graduate school address.



William Scholtz has been named police chief in Amesbury, Mass. Scholtz is a 35-year veteran of the law enforcement profession.

'14 Andres Guzman '14, '15 earned an M.E.D. in mental health counseling at Cambridge College. He has been accepted at Merrimack College to start this summer in the M.S. program for criminology and criminal justice.



'15 Karen Cronin has been named principal of the North Street School in Tewksbury, Mass.

'16 Diana D. Dagostino recently started a photography business named Patria Photography (www.patria-pgh.com).

Alex Peters was hired to teach the new advanced manufacturing course at Minuteman High School in Lexington, Mass. Peters, who has a master's degree in mechanical engineering, will train students on cutting-edge technology and advanced computerized equipment to support high-precision product manufacturing of various materials.

Nicholas Quigley released his first album of original chamber music and contemporary songs in June. Called "Interventions 1-5," the collection of new works was recorded in Lowell with several alumni pitching in. **Sean Patterson '15, '17** was the lead audio engineer and mastering engineer. **Nick Campbell '17** provided additional audio engineering and **Jon Kohen '17** contributed vocals. The album was released by Quigley's Boston-based arts management firm, Q Music & Arts Management, which

he started after graduating from UML. Quigley is currently pursuing a master's degree in music education at Boston University. He hopes to land a job teaching music in a K-12 setting and to eventually become a professor of music.

'17 Nicholas Salema is the new research intern/associate at Cox Capital Management.

Former UMass Lowell basketball walk-on **Tyler Livingston** signed a contract to play in the 2017-18 season for Spain's Arcos Albacete Basket in LEB Plata, the third tier of the Spanish basketball league system. The 6-foot-6 Hudson, N.H., native averaged 6.9 points and 3.1 rebounds in 26.6 minutes per game as a River Hawk.



LEGACY SCHOLARSHIP AVAILABLE!

New scholarship benefits children of out-of-state alumni

Live out of state, but want your child to follow you to UMass Lowell? Our Legacy Scholarship can help.

This one-time \$1,000 scholarship is available to students whose parent or legal guardian attended UMass Lowell (either as an undergraduate or graduate student). Both freshmen and transfer students are eligible for this nonrenewable scholarship.

For more information, contact Michael Belcher, director of outreach and recruitment, at Michael_belcher@uml.edu or call 978-934-3929.



12: JOHN WILLIAMS '08
13: JAMIE GILLIS '10
14: DEVIN FERREIRA '11
15: LYDIA SISSON '12

CLASS REUNION

This year, we're celebrating all class years ending in 2 and 7. Learn more about how we're celebrating you all year long by visiting alumni.uml.edu/Reunion2017



Chris Nihan, right, recently at Solar City headquarters.

> CLOSE-UP CLASS OF 2013

There's no accounting for passion

One day in the summer of 2014, when Chris Nihan '13 was in California preparing to take his CPA exam (his UML degree is in accounting), he came upon a man on the side of the road in a Tesla, the electric car designed by Elon Musk. The two got to talking about the car; the man asked him if he'd like to take it for a drive. "No thanks," he told the man, "I'm not a huge car fan."

"No, you don't get it," the man replied. "*Just drive it.*" So he did. And that was the moment, says Nihan, when his plans for a career in accounting pretty much went up in smoke.

By September of that year, he had signed on for an entry-level job at SolarCity, the leading provider of residential solar power in California, which was launched by cousins of Elon Musk. Several promotions followed; by January 2016, he was the company's regional sales manager for the state of Vermont. "I just came to believe in the vision," he says. "Right from the start, it's never felt like work to me."

Then, late last year, when Tesla acquired SolarCity for a reported \$2.6 billion—creating a sustainable-energy company that now embraces both homes and cars—Nihan's path from that California roadside came full circle. Today he is regional sales manager for Tesla Energy, the home-energy side of the business, in charge of a territory that covers New York and New England.

Nihan—who, during his student days, also knew a brief career as Rowdy the River Hawk ("You get dressed up in that outfit, and people just see you as this big lovable bird—they pat you, they hand you their babies") is also busy personally. He just bought a house in Beverly, and an engagement ring for the woman he's dated since his early days at UMass Lowell.

Meanwhile, the job, he says, keeps getting better.

"It's really amazing what Elon Musk has done for the world. And there are a lot more exciting things coming [in the energy field]. I feel lucky to be a part of it."—GD



Special thanks to our most generous sponsors of the 2017 Commencement Eve Celebration.

This celebration is an important part of our efforts to raise money for scholarships—your support helps our students continue their studies and keeps a world-class education affordable and within reach for all.

FELLOWS CIRCLE (\$25,000)

Aramark Corporation
Nancy Donahue '13 (H)

PRINCIPALS CIRCLE (\$5,000)

Enterprise Bank
Johanna Bohan-Riley
Circle Health (Lowell General Hospital)
Richard Denning
George '09 (H) and Carol Duncan
Martha Mayo '89

PATRONS CIRCLE (\$2,500)

Lawrence Ardito '69 and Linda Carpenter '89
Norm Bazin '94, '99
Casella Waste Systems, Inc.
Thomas Costello and Kary Robertson '76
Stuart Mandell '11 (H)
Pepsi Bottling Group LLC
Sheila Riley-Callahan '80, '88
William Riley Jr.
Donald and Patrese Pierson '05

Thank you to Jack and Thérèse O'Connor from Commencement Photos, Inc. for donating photography services this evening.



> CLOSE-UP CLASS OF 2013

ASTRONOID TAKES OFF

Brett Boland '13 doesn't much care for being pigeonholed by categories, especially the ones that tend to dog "metal" bands.

Pop metal, punk metal, thrash metal, death metal, power metal, black metal, Norwegian black metal ...

Whatever brand of metal you call his five-piece band, Astronoid (which includes bassist Dan Schwartz '13), their sound—which mixes the blast-furnace force of thrash with Boland's dreamy vocals and spacey soundscapes—is gaining traction in the music world.

Astronoid was born at UMass Lowell, when Boland and Schwartz turned a Sound Recording Technology project into a pair of songs. "We met in SRT," says Boland. "We literally had every class together."

On that final project, Schwartz played bass while Boland played everything else.

Boland posted the songs and eventually, "they got a lot of traction," he says. "Someone loaded them onto YouTube and more people found them."

They issued an EP. More people found it. "We just continued to grow," says Boland.

They played some live shows—New Hampshire, Boston, New York, even Philly. "We didn't play too often," says Boland. "We had other obligations, but it just continued to fall together."

Now, Astronoid is touring with the likes of Ghost.

"We're sort of getting bigger everywhere, and we're doing it on our terms," Boland says. "We're starting work on another album, writing songs. We have unbelievable support, and awesome team behind us."

He is focused on Astronoid for the long haul.

"We just bought a van and a trailer," he says. "We recently became an LLC. So we're doing things smart. We've been asked to play lots of places, but we've only toured the U.S. so far. I toured Europe with another band, and you've got to go over there with money. You have to rent the equipment, and get it around. You really need an endorsement deal. It's in the cards at some point, I think."—DP



> **CLOSE-UP** CLASS OF 2016

HIGH-TECH HEELS

Marcelle Durrenberger '16 may not be the first Francis College of Engineering graduate to work alongside rocket scientists and former astronauts. But she's definitely the first to work with them on designing \$925 high-heel shoes.

As a mechanical engineer at Thesis Couture, a "fashion-tech design house" based in Marina Del Rey, Calif., Durrenberger is working with a cross-disciplinary team from the worlds of fashion and engineering on a "high-performance" four-inch stiletto that they hope will revolutionize the world of women's footwear.

"It's a little surreal sometimes," says the Hudson, Mass., native, while giving a tour of Thesis Couture's chic home office, located minutes from the Pacific Ocean. "I look at who I'm surrounded by here, and I'm grateful I've been picked to join them."

Founded in 2013 by Dolly Singh, a former talent acquisition executive with SpaceX and Oculus VR, Thesis Couture's "secret sauce" is a wider foundation made of high-grade polymers called Thesis LIFT (Load-balancing, Interlocking Footwear Technology).

"Even though I'm not inventing a new medical device that's going to save millions of lives," Durrenberger says, "I am helping to invent a new shoe that will save millions of feet. We are making a difference, in our own way."—EB



Alumni Events Calendar



OCTOBER

UMASS LOWELL ON THE ROAD: NEW YORK CITY

Thursday, Oct. 26, 6 p.m.
Morgan Stanley, Times Square
Network with alumni in NYC at the headquarters of Morgan Stanley.

FACULTY SHOWCASE: JULIETTE ROONEY-VARGA

Thursday, Oct. 26, 6:30 p.m.
Moloney Hall, University Crossing
Join us for an evening of interactive simulations and discussions about transitioning to a low-carbon economy with Juliette Rooney-Varga, director of the UMass Lowell Climate Change Initiative.

DECEMBER

TRACK & FIELD ANNUAL KICK-OFF BANQUET

Friday, Dec. 1, 6:30 p.m.,
UMass Lowell Inn and Conference Center, 50 Warren Street, Lowell, Mass.

This event includes a celebration of the class reunions of those with graduating years ending in 8 (2008, 1998, 1988...)

UMASS SYSTEM GAME AND BBQ: PATRIOTS VS. DOLPHINS

Monday, Dec. 11, BBQ, 6 p.m.,
George M. Steinbrenner Field and game at 8:35 p.m.,
George Raymond James Stadium, Miami, Fla.

Join alumni and friends to watch the Patriots play against the Dolphins.

UMASS SYSTEM ALUMNI RECEPTION

Tuesday, Dec. 12, Miami, Fla
Connect with alumni and friends across the UMass system and learn more about what's happening across all the campuses.

HOLIDAY POPS 2017

Sunday, Dec. 17, 1 p.m.
Lowell Memorial Auditorium
Join alumni and friends for an afternoon of holiday music favorites and pops sing-a-longs with Conductor Keith Lockhart.

JANUARY 2018

UMASS LOWELL HOCKEY VS. ARIZONA STATE UNIVERSITY

Friday, Jan. 12- Saturday, Jan. 13
Join senior UMass Lowell leaders to cheer on the River Hawks against the Arizona State Sun Devils. Games take place in the Phoenix area.

APRIL 2018

GEORGE DAVIS INVITATIONAL TRACK MEET

Saturday, April 21,
Cushing Field Complex
Join us for the George Davis Invitational Track Meet, named in honor of UMass Lowell's first track and field coach. Seniors will be honored at the event.

MAY 2018

50TH, 60TH AND GOLDEN ALUMNI REUNIONS

(Classes of 1968 and 1958, and all alumni from 1967 and prior)
May 18 & 20
UMass Lowell

SAVE THE DATE!

Reconnect with classmates and visit your old stomping grounds during Reunion Weekend, taking place during one of the university's most exciting occasions of the year: Commencement Weekend.

ON the ROAD ARIZONA

Save the date for a weekend of River Hawks ice hockey and alumni gatherings in the Phoenix area. Connect with fellow alumni and senior UMass Lowell leaders while cheering on the River Hawks as they take on the Arizona State Sun Devils!

UMass Lowell Hockey vs. Arizona State University
Friday, Jan. 12- Saturday, Jan. 13

To register, or for more information, go to alumni.uml.edu/arizona2018.

OUR LEGACY OUR PLACE
THE CAMPAIGN FOR UMass LOWELL

To register or for more information, go to www.uml.edu/alumni or call 978-934-3140.

> BY DAVID PERRY

> CLOSE-UP CLASS OF 1986

SOUND MAN

Emmy- and Grammy-winning SRT alumnus Jim Mitchell '86 credits hard work for his success



Jim Mitchell '86 was finally going to take a break. He and his wife headed for Yosemite, six hours from their Los Angeles home. Sequoias, peace, quiet. Escape.

He told no one where he'd be. "We were out in the wilderness, on some trail, probably 10 miles from any place," Mitchell says. A park ranger, well-worn from his trek, approached. "Are you Jim Mitchell?" he asked. "Yeah, I am."

"Well," said the ranger, "you need to get to a phone right away to call Slash and Michael Jackson."

Mitchell was, in the eyes of the artists, the only one who could do justice to engineering Slash's guitar work on "Give in to Me" from Jackson's 1991 album "Dangerous."

Mitchell was indispensable. That's what they taught Mitchell to strive for in the Sound Recording Technology program: be so good, it's you they need.

Mitchell was the first of more than 200 graduates from the program to land a recording studio internship. He ended up at the famed Record Plant in Hollywood, where the Rolling Stones, Stevie Wonder, Van Morrison, Black Sabbath, Fleetwood Mac and the Eagles had all recorded. He was also their first intern.

You don't graduate without an internship, says William Moylan, who brought the SRT program to life more than 30 years ago.

He remembers well Mitchell's thirst for recording knowledge.

"He was creative in using technology in the sounds of his recordings and was tenacious in learning the things that gave him trouble," says Moylan. "He stuck it out when others might have folded."

Mitchell is also tuned in to "helping artists realize their visions—part of tuning in to others and being willing to do all one can to help another."

"The man is a genius," says Mitchell of Moylan. "I loved that program. I could never thank him enough."

During Mitchell's senior year, Moylan directed him toward possible internships, which often take place during the summer after commencement.

Two weeks before graduation, Mitchell's phone rang. It was Chris Stone, owner of Record Plant.

Mitchell's résumé had landed on Stone's desk "and apparently he saw something there, a young kid, just starting," says Mitchell, who had sent "a tape of some of the recordings I did, a personal reel of stuff. Pop-rock stuff with a band, a lot of faculty-student stuff from recitals."

Stone said he'd give Mitchell a chance. Mitchell didn't know a soul in L.A., but he left his hometown of Marlborough, Mass., and on the

appointed Monday, he showed up at the studio and began making himself indispensable.

For six months, he did whatever anyone needed, always keeping an eye on the details. He polished tile and cleaned bathrooms. When the TV show "Fame" began recording there, he parked the actors' cars, making sure not to cause any scratches. He picked up dry cleaning for Record Plant honchos. He took food orders for 20 people, taking care to get everything right and deliver the food while it was still piping hot.

Over time, he found his way to the music. He pitched in when a studio needed to be changed over for a Rod Stewart session. If a studio had 10 microphones, Mitchell memorized which six worked best. He knew how to drive a truck, so when the mobile unit went on location, he got behind the wheel. And, he got a crack at working inside it, too.

He volunteered for everything, adhered to studio etiquette and skipped his peers' partying, knowing there was "plenty of time for that later."

He soaked up every move of some "amazing" sound engineers before finally getting his own shot, engineering sessions at the Paramount Pictures orchestral stage. He racked up assistant engineering credits for the likes of Ratt, Diana Ross and on Bonnie Raitt's Grammy-magnet, "Nick of Time," produced by Don Was.

He met Guns N' Roses during a Record Plant session. The bond was immediate, especially with guitarist Slash.

"At some point, I became their guy. When Slash was asked to play on Michael Jackson's and all these other records, I'd be the guy to record him," says Mitchell. "It's still like a great, extended family. We're all friends. Everyone's kids know each other."

He worked with Slash's solo band, Snakepit. He worked with Black Crowes and Billy Bob Thornton and on records by Bob Dylan. He was there to help record Warren Zevon's final album, sharing a Grammy for his work.

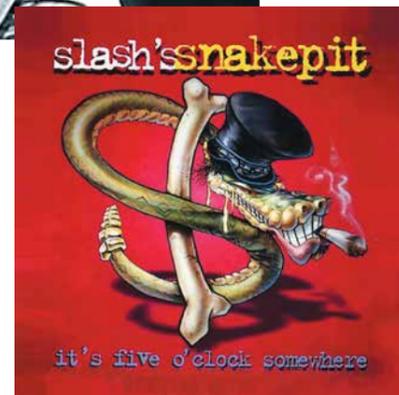
In 2004, his kids growing up, Mitchell took a job with Fox.

"I'm not on tour, I'm mostly in town this way," he says. "It's kind of 9 to 5, but it's not. I wind up working a lot of weekends." He has worked on every Super Bowl since 2004, including, he beams, "the ones the Pats won."

He has won four Emmys (and has been nominated 14 times), including a win for this year's Super Bowl opening "Greatness" collage on Tom Brady.

Speaking of greatness, Mitchell—like most UML students—knows that it doesn't come without hard work.

"I was trying to get myself out of the hallway and into the studio, so I made myself indispensable," he says. "And that had a lot to do with all of this." **UML**



> CLOSE-UP CLASS OF 2009

JUSTIN LAWLER '09 HIKES ALL 48 OF NH'S 4,000-FOOT PEAKS IN TWO MONTHS

Hiking all 48 of New Hampshire's 4,000-foot mountains can take people many years, if not a lifetime. Justin Lawler '09 did it in just two months this summer. "It was a little insane, but I love a challenge," says Lawler, associate director of campus recreation, who celebrated the feat with a well-deserved sip of prosecco atop Mount Washington on Aug. 2. "This was such a humbling experience. It's given me a new perspective on things," says Lawler, who didn't even consider himself a hiker when he began his quest on June 2 by tackling 4,802-foot Mount Moosilauke.

Lawler squeezed all 250 miles of hiking into just 14 days (mostly weekends), averaging more than three mountains (and nearly 20 miles) each day. His longest day was literally a marathon: 26.2 miles. "I had a lot of time to think and be mindful of my surroundings," says Lawler, who often left his home in Townsend, Mass., by 4 a.m. to get on the mountains by 7. He fueled his hikes with peanut butter and jelly sandwiches, trail mix and countless gallons of water.

Lawler suffered a few injuries along the way, including a blister on his heel that turned into tendinitis, a broken toe, a bruised tailbone, poison ivy and sunburns. He didn't

encounter any dangerous wildlife (unless you're afraid of chipmunks), but he did have to cross a few raging rivers. "Although a piece of me is sad this challenge is over," Lawler says, "my body, and probably my doctor, are thanking me that I am finished." [UML](#)



MOUNTAIN MAN

> BY ED BRENNEN



Justin Lawler '09 enjoyed breathtaking views from atop all 48 of New Hampshire's 4,000-foot mountains this summer. What did he do for an encore? On Labor Day, he completed New Hampshire's 31.3-mile "Pemi Loop" in just under 14 hours. "It was a cool way to end the summer," he says.

Ice Hockey Alumni Appreciation Nights



1. Russell Bedell '81 and his wife Mary Bedell '81 are ready for their close-ups at the photo booth during the College of Education's alumni night before UMass Lowell's hockey game against Northeastern.
2. Alumni are recognized for their contributions to the track & field program during an annual reception honoring former coach George Davis, held prior to a River Hawks hockey game. Pictured from left: Head Coach Gary Gardner, David Cremin '92, Jacqui Barrett '10, Bobby Hodge '90 '95 and George Davis.
3. Alumni, friends and faculty of the Zuckerberg College of Health Sciences gather before the River Hawks hockey game against Providence College. Pictured from left: Past Chair of the Nursing Advisory Board Christina Larson, Interim Dean Karen Devereaux Melillo '78, Peg Fitzgerald '86, Nursing Lab Manager Christine Repsha, Nursing Chair Lisa Abdallah, Baccalaureate Program Director Laurie Soroken and Clinical Asst. Prof. Valerie King '81, '88, '98, '12.
4. River Hawk lovebirds Brooke Ingram '04 and Jacky Ingram '04 enjoy their mutual alumni appreciation nights for Engineering and Fine Arts, Humanities and Social Sciences.

UMass Lowell On the Road



5. Back row: Professor and Faculty Director of HEROES Ramaswamy Nagarajan, Vice Provost for Innovation and Workforce Development and Associate Professor Scott Latham, Dean of the Francis College of Engineering Joseph Hartman, Professor Emeritus of Plastics Engineering Nick Schott and Vice Chancellor of University Advancement John Feudo visit with alumni and friends in Delhi, India.
6. Dallas, Texas-area alumni and friends connect at the Magnolia Hotel.
7. Scottsdale, Arizona-area alumni and friends Keith March '99, Lisa Dobrin '14, Michael Koenig '90, Brittany Cannon and Miles Beccia '96 join fellow alumni at the home of Janice '78 and Tom Grady for a sunset social.
8. Bob Foster '81 and his wife, Josephine, pose for a photo in front of the U.S. Capital Building while attending an alumni mixer in Washington, D.C.
9. Thomas Burke '63, John Zappala '66, Chris Hoeske and Jerry Lydon '66 gather among fellow alumni and friends to celebrate Saint Patrick's Day during the annual parade in Florida.

UMass Lowell On the Road



10. Chancellor Jacquie Moloney '75, '92 greets Michael Xavier '15 and his children during a reception before the Red Sox game against the Blue Jays in Florida.
11. Stewart Lane and Bonnie Comley '81 show their likeness to caricature sketches of themselves at Sardi's Restaurant before heading to the Palace Theatre with alumni and friends for a limited engagement of "Sunset Boulevard" on Broadway.

UMass Lowell Dedications



12. Alumni, students and friends of the university celebrate the dedication of the Solomont School of Nursing and the Manning Endowed Chair in Nursing. From left: Chancellor Jacquie Moloney '75, '92, Robert Manning '84, '11 (H), Donna Manning '85, '91, '11 (H), Alan Solomont '77, '94 (H), Susan Solomont and UMass President Marty Meehan '78.
13. Alumni, students and friends of the university gather to celebrate the dedication of the Zuckerberg College of Health Sciences. From left: Dean Shortie McKinney, Roy Zuckerberg '58, '99 (H), Tara Kelleher, Chancellor Jacquie Moloney '75, '92 and UMass President Marty Meehan '78.
14. Several members of the Manning School of Business Advisory Board join together during the grand opening of the Pulichino Tong Business Center. Back row, from left: Mike Zuccaro '83; Jon Geanakos '84; Jim Regan '88; Bob Dudley '74; Senior Vice Chancellor for Finance, Operations and Strategic Planning Joanne Yestramski '76; Kathy Allen '77; Lorna Boucher '86; Christine Cournoyer '71; Mark Forziati '78; Manning School of Business Dean Sandra Richtermeyer; and Mark Coccozza '71. Front row from left: Senior Director of Development Steve Rogers; Associate Professor and Chair Saira Latif; John Pulichino '67, '14 (H); Professor Emeritus Stuart Mandell '11 (H); Chairman Jerry Colella '78; and President Emeritus and University Distinguished Professor Jack Wilson.
15. Stephen Kender, a student at UMass Lowell, and Joseph Hartman, the dean of the Francis College of Engineering, present Lawrence Lin '90 with a framed antique map of the city of Lowell, which incorporates 3-D-printed objects representing the different fields of study at the Francis College of Engineering. It was designed by MassMEP Program Director John Mulligan and MassMEP Program Assistant Robyn Goodner.

Reunions



16

Chancellor's Leadership Society Reception



18



19



17



20



21

Celebrations and Milestones



24



25



26



27

Celebrations and Milestones



28



29



30



31

Faculty Showcase Events



22



23

REUNIONS

- 16. Marjorie Landry '67 and Marjorie Miller '67 enjoy their 50th Reunion as they reunite with old friends and tour the campus they once called home.
- 17. Miriam '57 and Bob Smith celebrate her 60th Reunion from Lowell State.

CHANCELLOR'S LEADERSHIP SOCIETY RECEPTION

- 18. Deb Dandeneau, Jim Dandeneau '80, Ed Keon '77 and Jim Shannon gather to enjoy the CLS reception.
- 19. President Meehan '78 and Rick Hoeske '66 listen to Chancellor Moloney's remarks.
- 20. Andrew Ambrosino '15 addresses the crowd of CLS members and talks about why he is a member.
- 21. Petr Honcu and Dorothy Boisvert '82, '86, '92 take in the gorgeous view of Boston at the UMass Club.

FACULTY SHOWCASE EVENTS

- 22. Political expert faculty members from UMass Lowell's Center for Public Opinion Frank Talty '77, John Cluverius and Joshua Dyck gather before offering a panel discussion analyzing the new Congress and president.
- 23. Steve Tello '80, '02, associate vice chancellor of entrepreneurship and economic development, greets David Vatalaro '90, '93, '15 after his discussion on how the university is supporting the launch of new businesses.

CELEBRATIONS AND MILESTONES

- 24. UMass President Marty Meehan '78 and Chancellor Jacquie Moloney '75, '92 are accompanied by alumni and friends during a barbecue before watching the New England Patriots face off against the Miami Dolphins in Florida.
- 25. Center from left: UML alumni Steve Ducharme '81, Kristen Drescher '90 and Holly Rea '11 pose with finance students, along with Associate Professor Ravi Jain and Dean of Manning School of Business Sandra Richtermeyer, during their trip to meet with Warren Buffet in Omaha, Neb.
- 26. Alumni, students and friends of Men Achieving Leadership and Excellence (MALES) gather to celebrate and fundraise for the Jordan-Jones Endowed Scholarship to benefit MALES students.
- 27. Rowdy the River Hawk greets Adeja Crearer '17 after she makes a contribution to UMass Lowell during the university's first-ever Days of Giving.
- 28. Young Alumni kick off the summer with an event at Lowell Beer Works.
- 29. John Reilly '10, Mahati Mukkamala '09 and Nicole Graceffa '10 gather at the UMass Club in Boston for the first senior and young alumni networking night.
- 30. Lifelong friends Carol Russo Bonfanti '68 and Linda FitzPatrick '68 reunite during the College of Education High Tea reception with Dean Anita Greenwood '84, '92.
- 31. Novelist and English Prof. Andre Dubus III (far right, next to Chancellor Jacquie Moloney) moderated a discussion with Commencement honorees during this year's Commencement Eve Celebration. From left: Distinguished Alumna Ned Barrett '58, Honorary Degree recipients Frank '66, '17 (H) and Mary Jo '66, '17 (H) Spinola and Commencement speaker Steve Kornacki.

IN MEMORIAM

BY GEOFFREY DOUGLAS

Robert Francis Dudley III (1952-2017): ‘One of UML’s Closest Friends’



It would be next to impossible to count the lives Bob Dudley '74 touched, or the many ways in which he touched them. He filled so many roles for so many people: partner, mentor, financial advisor, philanthropist, hockey booster, chorale tenor, husband, father and friend. He ran some companies and restructured others; offered his time, advice and resources freely wherever there seemed a need; hired students, launched careers and established scholarships. His legacy at UMass Lowell is incalculable.

“Bob Dudley, in so many ways, was a friend to UMass Lowell,” says Chancellor Jacquie Moloney. “From his mentoring of our students to his family’s financial support, he has long been an invaluable ally.”

Dudley, who died in April at the age of 64, was a local boy from the start: Born in Lowell and raised in Chelmsford, he was a member of the last graduating class of the Lowell Technological Institute, where he earned his degree in accounting. His first job was as a mergers and acquisitions analyst for Johnson & Johnson, followed by 14 years at Data General, where he finished as CFO of a \$600 million division.

Everything after that was about running, reshaping, buying or merging businesses: CFO in the late '90s of Inso Corp., a \$70 million software company; in 2000, co-founder and CFO of Base Six, an IT services company; then, in 2002, the restructuring and recapitalization of Synamics Corp., a multinational communications company.

In 2004, in a move that must have seemed the logical career culmination, he became a partner in Venture Advisors, a then 2-year old company that provides outsourced, temporary CFO and financial-advisory services for startup or early-stage companies.

His work with UML, and with its students, gained traction as time passed. In the early days of M2D2 (the university’s Massachusetts Medical Device Development Center), he set up a program through which his company hired UMass Lowell’s accounting students and trained them to work with the Center’s startup companies. Later, working with the Center for Innovation and Entrepreneurship’s DifferenceMaker program, he lent his expertise to several student teams.

“Bob was a committed mentor to our students,” says Prof. Steven Tello, senior associate vice chancellor for entrepreneurship and economic development. “Always eager to support their growth and development—whether discussing a student DifferenceMaker team, an M2D2 start-up, or the most recent River Hawk hockey game—I can’t remember him ever saying no to a student’s request for assistance.”

He intersected with the university at any point where he could be useful. Long a member of the Manning School of Business Advisory Board, he was an adviser to the Nanamanufacturing Center as well as the Center for Irish Partnerships. In 2015, he and his wife, Susanne, established the Robert and Susanne Dudley Family Endowed Scholarship Fund, to provide financial aid to business students; a room in the Jack M. Wilson Center for Entrepreneurship, named for them, commemorates their legacy.

“Bob was one of UML’s closest friends,” says Manning School Senior Development Director Steven Rogers. “He will be sorely missed.”

YEAR	NAME	YEAR	NAME
1935	Euleta C. (Gray) Johnson	1974	Arthur W. Iworsley
1938	Nelson F. Getchell	1974	Robert F. Dudley
1941	Basil G. Skalkoas	1974	John C. Boutsellis
1946	Martha C. (Basile) Maloney	1974	Daniel Burpee
1948	Katherine M. (Moran) Sullivan	1976	Barry J. Kittredge
1948	Jean R. (Cirillo) Creegan	1976	William A. Krol
1949	Florence P. Savas	1977	Donald P. Provencher
1951	Francis P. Tully	1977	Ernest J. Descheneaux
1952	Milton J. Bernstein	1977	William F. Murphy
1952	Charles E. Watt	1977	Barbara Wilkins
1952	Eric Singer	1978	Alan P. Hicks
1954	Doris D. (Donovan) Kelley	1979	Brian D. Sheehan
1954	Charles A. Smith	1979	Kenneth Ravenelle
1955	Mary J. (Wilson) Donnelly	1980	Paul P. Beninato
1958	Marjorie A. (Crossman) Signorelli	1981	Edward M. Cawley
1958	John J. Carter	1982	Roland W. Crowl
1959	Eleanor A. (Condon) Durant	1982	Edward F. Doughty
1959	Jules J. Deschamps	1982	Richard A. Slavit
1960	Herbert F. Lyons	1983	Clifton A. Hall
1960	Robert E. Orff	1983	Gaylord MacCartney
1962	Charles H. Miller	1984	Timothy Michael Carroll
1962	Stanley C. Mann	1992	Christine M. Giordano
1963	Margaret A. (Nicoll) McAnern	1992	Stephen J. Prochniak
1963	Irene D. Fournier	1997	Louis Friedman
1966	William J. Long	1999	Wayne K. Upham
1967	Kathleen P. (Cullinan) Gaudette	2000	David Piccolomini
1967	John A. DeFrancesco	2005	Melissa F. Vazquez
1969	Ruth A. (Boehm) Faucher	2006	Paul F. Courtney
1969	Paul M. Inamorati	2010	Nicole M. Erb
1969	Robert C. Reinhausen	2014	Charles Joseph Lawless
1970	Sharon M. Wilson		
1970	Robert E. White	Faculty and staff	
1970	Pamela E. Parkinson	William T. Hogan	
1972	Joan (Judkins) Henich	Jacqueline T. Kral	
1972	Robin B. Moore	Lawrence R. Martin	
1972	Eleanor Kalfin-Royte	James Kenneth Stys	
1973	Anne Doriski	William F. Dunn	
1974	Gloria R. (Belanger) Belanger	Ralph A. Rieth	
		Giampiero Pecelli	



Behind every gift made to UMass Lowell, there is a story, a personal reason for giving. For some donors, it's the chance to impact a student's life. Other donors feel strongly about giving back to a university that has given them so much. By giving back, all donors are contributing to our shared value of keeping public higher education accessible and affordable.

Thank you to each of you who gave back to the university this year. You are helping to provide ambitious students with the financial means and educational opportunities that empower them to pursue their goals and transform our communities.

We celebrate you and thank you for your continued support.



At the turn of the 20th century, Lowell Normal School students used the north light of the large drawing room on the third floor of Coburn Hall to sketch during a drawing class. The adjustable desktops served as easels during art classes.

NOW...



Art and design students blend art and technology in the new Expanded Media Fabrication Laboratory in Dugan Hall. Using the lab's equipment—which includes a 3-D printer, a 3-D scanner, a long-form laser cutter and an industrial sewing machine—students can fabricate prototypes and handheld objects. Up next: interdisciplinary courses and activities featuring both the Art & Design and Computer Science departments.

Office of Alumni Relations
Charles J. Hoff Alumni Scholarship Center
1 Perkins St.
Lowell, MA 01854-2882

Change Service Requested



2017-2018 Hockey Pre-Game Events for Alumni and Friends

All games start at 7:15 p.m. at the Tsongas Center,
300 Martin Luther King Jr. Way, Lowell, unless otherwise noted.

Date	Opponent	Alumni Program
11/3	vs. Maine	
11/4	vs. Maine @ 4 p.m.	Manning School of Business/ DifferenceMakers Night
11/11	vs. Northeastern @ 7 p.m.	College of Education Night
11/17	vs. UConn	
11/28	vs. Bentley @ 7 p.m.	
12/8	vs. Boston University	Zuckerberg College of Health Sciences Night Greek Alumni Council Reception Fraternity & Sorority Alumni Reunion
1/5	vs. Vermont	
1/6	vs. UMass Amherst @ 7 p.m.	Sigma Phi Omicron Reunion
1/26	vs. Boston College	Kennedy College of Sciences Night
2/6	vs. American International @ 7 p.m.	
2/17	vs. Providence @ 7 p.m.	Track & Field/George Davis Night Delta Kappa Phi Reunion
2/24	vs. Merrimack College @ 7 p.m.	Francis College of Engineering Night

Register online at alumni.uml.edu/hockey.

For more information, contact: Office of Alumni Relations • Alumni_Office@uml.edu • 978-934-3140