WORLD'S BEST BREWS

Alumni lead rise of Vermont’s latest attraction
Soon-to-be grads Sean Davis, Katie Babione, Laura Felone, Effie Mbrow, and Danielle Dousa line up with fellow members of the Class of 2017 on May 21. UVM’s 216th commencement ceremony welcomed 3,228 graduates—hailing from forty states and twenty-one countries—to the ranks of UVM alumni. James Fallows, national correspondent for The Atlantic Monthly and one of the country’s leading journalists across more than three decades, delivered the address.

PHOTOGRAPH BY SALLY MCCAY
A Campus in Bloom

The familiar rhythm of the academic year with the graduation of our Class of 2017 now past provides us with a natural time to reflect on what has been a truly auspicious year for the University of Vermont. In multiple dimensions, our Public Ivy is on the rise. A quick walk around campus will offer a glimpse of our future with the opening of the Discovery Hall in May, phase one of our STEM Complex; the stately new residence halls on central campus, which will welcome the Class of 2021 when they arrive this fall; of Medicine at the forefront of experimental-based medical education. In this issue of Vermont Quarterly, we share the news of generous support from the Gund family to create the Gund Institute for Environment, facilitating innovative, multi-disciplinary research across the campus on critical issues faced by humankind. Michele Resnick Cohen, recently donated $5 million to the Davis Center soon. You'll read more about this effort to enhance the aesthetics of our campus with important public art in an upcoming issue of Vermont Quarterly. It has been a landmark year for philanthropy at the University of Vermont. Last fall, of course, we celebrated the $100 million historic, cumulative gift from Dr. Robert Larmer, an alumnus, a transformative gift that puts our renamed Larner College of Medicine at the forefront of experimental-based medical education. In this issue of Vermont Quarterly, we share the news of generous support from the Gund family to create the Gund Institute for Environment, facilitating innovative, multi-disciplinary research across the campus on critical issues faced by humankind. Michele Resnick Cohen, recently donated $5 million to renovate and transform the Taft School, located at the corner of South Williams and Pearl streets, to become UVM’s first integrated center for the creative arts. With more than two years remaining in our Move Mountains Campaign, we already have received commitments of more than $44.8 million toward the goal of $500 million. Our thanks to all of the alumni, parents, and friends of the University behind this great success! You also will note some more subtle changes to the look of our campus. Together with Fleming Museum Director Janie Cohen, I’m leading an initiative to feature public art across UVM’s landscape. Intriguing, diverse works by alumni sculptors Christopher Curtis ’74, Kat Clear ’01, Lars Fisk ’93, and UVM parent Gordon Gund have been installed in several locations across central campus. We anticipate a fabulous piece, “Blue Arcte” by Richard Erdman 75, gracing the west entrance of the Davis Center soon. You’ll read more about this effort to enhance the aesthetics of our campus with important public art in an upcoming issue of Vermont Quarterly. It has been a landmark year for philanthropy at the University of Vermont. 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Biomedical engineering undergraduates and graduate degrees are among our newest fields of study, providing education in a STEM field that is ripe with promise. And it’s particularly well-suited to the talents of our faculty and the interdisciplinary opportunities facilitated by having academic units in engineering and medicine and an outstanding medical center on campus in close proximity. Our curriculum and student learning will be enhanced further by the recent adoption of quantitative reasoning and analysis as a new addition to our General Education requirement. Our Class of 2021 that will arrive this fall is joining us at a wonderful time in UVM’s history. We are proud to have them! Our incoming students are the most academically talented and diverse class in the history of the University. Many of them join us with support from our new Catamount Commitment program, that guarantees that all limited-income Vermonters receiving federal Pell grants will pay no tuition and no comprehensive fee to attend the University. Financial access and affordability are bedrock principles of our mission as a land grant university. Catamount Commitment is another measure of living up to that ideal. I hope you will have the opportunity to revisit Burlington this summer or for the Alumni and Parent’s Weekend, October 6-8. Leslie and I wish you all the best for a restful and fun summer.

—Tom Sullivan

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Vermont Quarterly offers a limited amount of space for paid advertising. Here’s why you want in:

105,000 circulation includes all alumni and parents of current students.
1/3 Approximately one-third of our alumni live in Vermont. The vast majority are within a day’s drive.
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Because our advertising is limited, your message won’t be adrift in a sea of ads.

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“...I’m waiting for someone to wake me up. The last loop felt like it was forty kilometers long and not four. To shoot clean at world championships and to have unbelievable material, every single part of my race came together today. I will remember this for the rest of my life.”

—Lowell Bailey ’05 made history this winter when he became the first American skier to win a biathlon world championship. See page 58

YOU SHOULD KNOW

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Job placement rate for UVM’s Medical Laboratory Science grads since 2013. New faculty and enhanced facilities have boosted the program in this leading area for job growth nationwide. Read more: go.uvm.edu/medlab

Vermont Quarterly readers rated the magazine as excellent or good in a recent survey. (Wait a minute. Who put that in here?)

What is the University of Vermont?

School with two alumni on the May 8 Teacher’s Tournament episode of “Jeopardy.” Gail Ansheles ’78, a kindergarten teacher in New Mexico, squared off against George Deane ’01 G’03 of Colchester High School and another contestant. Gail prevailed to move on to the semi-final round, where the Catamount run ended.

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An initiative launched at UVM is among a consortium of programs treating torture survivors honored by the American Psychiatric Association. The program, called Connecting Cultures, was developed and led by Karen Fondacaro, director of UVM’s Vermont Psychological Services Clinic. Read more: go.uvm.edu/apa

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Gund Gift Elevates Interdisciplinary Research

PHILANTHROPY | A $6 million gift from the Gund family—with a challenge to raise even more from other donors—will create the University of Vermont’s first university-wide environmental institute.

Designed to catalyze interdisciplinary research at UVM, the new initiative also will connect scholars with government, business, and societal leaders to address urgent sustainability issues around the globe.

The Gund Institute for Environment at UVM will be headquartered in Johnson House on Main Street, replacing—and greatly enlarging the scope of—the internationally-renowned Gund Institute of Ecological Economics, which the Gund family established in 2002.

“The University of Vermont is recognized worldwide as a true leader in environmental scholarship, from the nation’s first environmental studies program to our pioneering research on acid rain, lake health, and nature’s true economic value,” said UVM President Tom Sullivan in announcing the gift.

“The Gund Institute for Environment brings the entire campus together to leverage these core strengths to accelerate research and solve the urgent environmental challenges facing Vermont, our nation, and our world,” Sullivan added. “I am delighted that after five years of careful and fruitful discussions and planning by a large number of people the Gund Institute soon will be a shining reality and model for other institutions.”

This extraordinary gift to UVM comes from Gordon Gund (UVM honorary degree ’95) and his wife, Llura (Lulie, UVM honorary degree ’95) of Princeton, New Jersey; Grant Gund ’91 and his wife, Lara, of Weston, Massachusetts; and Zachary Gund ’93 and his wife, Lindsey, of Concord, Massachusetts. Grant Gund serves on the UVM Foundation Leadership Council, and his brother Zack Gund is a member of the UVM Foundation Board of Directors.

To inspire further philanthropic support from other donors who also are passionate about building a sustainable future for the planet, the Gunds have committed to providing an additional gift of $1 million when UVM raises $68 million for the Gund Institute for Environment. The total goal for philanthropic support is $20 million.

Philanthropy is a fundamental principle for the Gund family. Including this latest $6 million gift, the Gund family has supported priorities at UVM including environmental economics and sustainability, liberal arts and teaching, the Fleming Museum of Art, scholarship and athletics.

Despite losing his eyesight at an early age, Gordon Gund—the CEO of Gund Investment Corporation and a former owner of the San Jose Sharks and the Cleveland Cavaliers—loved to head outside with his sons, Grant and Zack, and his wife, Lulie, to lead family hikes in the woods near their home and take the boys fishing in rivers and oceans around the world. Time spent together in nature instilled in the brothers a strong interest in preserving a sustainable future for the planet.

Founders and managing partners of Coppermine Capital, a private investment firm outside Boston, Grant and Zack’s shared passion for the environment was enhanced during their undergraduate days at UVM.

“The physical beauty not only of the campus but also the mountains, streams and lakes of Vermont make UVM the perfect setting for an environmentally-focused center of excellence,” said Grant Gund. “Conservation of the environment is closely intertwined with economic viability, and our greatest chance for a sustainable future is to gather a diverse group of incredibly smart people to find lasting solutions. That’s the new Gund Institute for Environment at the University of Vermont.”

Designed to address an evolving set of global environmental challenges, the Gund Institute for Environment will harness UVM’s strategic strengths and priorities to help address urgent issues high-lighted in the United Nation’s Sustainable Development Goals. The UN’s goals range from climate change and renewable energy to world hunger and water security. As a land-grant university, protecting the environment is at UVM’s core, with students and faculty benefiting from and contributing to the significant breadth in environmental research, teaching, and outreach.

“The new institute, drawing on interdisciplinary expertise from every corner of the campus, will propel UVM into one of the most exciting, rewarding, and productive places to research and promote environmental action and sustainability,” said UVM Provost David Rosowsky, who for years gave leadership support and keen advice to the faculty-led effort to envision the new institute.

“Satisfying human needs without destroying nature is our generation’s defining challenge,” said Taylor Ricketts, the founding director of the Gund Institute for Environment at UVM and the Gund Professor at UVM’s Rubenstein School of Environment and Natural Resources. “These issues are complex and span traditional disciplines. To solve them, we need solutions that are as cross-cutting as the issues themselves. That needs collaboration; it needs all of us.”

JOIN THE EFFORT | MOVEMOUNTAINS.UVM.EDU  
PHOTOGRAPHS BY SALLY MCCAY, IAN THOMAS JANSEN-LONNQUIST ’09, JOSHUA BROWN, ANUP SHAH  
SUMMER 2017  | 7
GEOGRAPHY | Maps and globes, likely the first images that pop in your head when you think of “geography.” Walk in the offices of UVM’s Geography Department, first floor Old Mill, and reality meets expectation. A stately globe tilting on its axis, colorful wall maps of the world, frayed around the edges. In this context, though, these old standards aren’t really teaching tools, but heirlooms of a UVM academic department that celebrates its 50th birthday this year.

Today’s geography students and faculty are more likely to be out in the world rather than poring over a scale model. Case in point, this semester’s GEOG 196 travel-study course focused on the grass paramo, a high-elevation Andean savanna. The semester-long class, led by instructor Stuart White, included a spring break trip for a high-elevation Andean savanna. The study course focused on the grass paramo, a high-elevation Andean savanna. The semester-long class, led by instructor Stuart White, included a spring break trip for an immersive week in the dramatic landscape in southern Ecuador.

"Dr. First embodies the ultimate available mentor. He is committed to making sure UVM COM graduates succeed long after their graduation date. Students and alumni alike feel they are his number one priority."

Rebecca Partell COM’12, Pediatric hospitalist, University of Utah

Medical students on Dr. Lewis First, recipient of the 2017 George V. Kidder Outstanding Faculty Award from the UVM Alumni Association, Larner College of Medicine grads: look for more on the distinguished professor of pediatrics in Vermont Medicine magazine.

The Why of Where

Kaelyn Burbey’s four years as a UVM undergraduate did not lack for rigor. Honors College, ROTC, environmental engineering major/mathematics minor, and, yes, some trips to the mountains for snowboarding or hiking when she could find the time. The Class of 2017 cadet received the ROTC Legion of Valor Bronze Cross Award, given annually for achievement of scholastic excellence in a military and academic subjects. Nationally, just thirteen cadets receive the award.

Spring semester of her senior year, Burbey reflects on lessons learned and skills honed via ROTC. Discipline, public speaking, teamwork, and working under pressure rise to the top. Many of them also come to bear, clearly, in her engineering education.

“A lot of our ROTC training induces stress, so that it pushes you to be adaptive and think on the fly. That is, obviously, applicable almost anywhere in life—whether it is a test or you’re being pushed to complete a project on a tight deadline, being able to keep a level head and keep working at it.”

Burbey didn’t apply to UVM with any thought she would graduate as a U.S. Army officer. A native Californian, who attended prep school in Connecticut, she applied to Vermont with the encouragement of two advisors at her high school, one a UVM grad, the other a parent of a UVM student. The opportunities and scale of a small research university sold her that UVM was the place.

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Waterfront Upgrade Rolls North

Older alumni remember Burlington's waterfront as weeds, train tracks, oil tanks, maybe a trace of menace. Mayor Bernie Sanders adds, "Urban Reserve" or "North 40." Aside from the Waterfront Park, visionary initiatives that have matured into the city's collective front yard. But just to the north sat the still-ragged "Urban Reserve" or "North 40." Aside from the Waterfront Park, visionary initiatives that have matured into the city's collective front yard.

That recently changed dramatically. From the Andy A. Dog Williams Skatepark to North Beach, things are looking up along Burlington's beloved strip of blacktop. Jesse Bridges '02, director of Burlington Parks, Recreation and Waterfront for the City of Burlington, says: "I thought certainly someone had written on one because he's been such a target for the right and an icon for the left, but there was nothing out there, so I started right then doodling around with the idea." Bridges there. "I come out here and run or ride my bike with my kids all the time, "It's been incredibly rewarding to be part of creating something that you can interact with and experience."
ENGINEERING | Try bending your iPhone in half. Or roll up your tablet like a scroll. Or wrap a touchscreen TV around a pole. Didn’t work out so well, did it? That’s because the ceramic material used to make many of today’s touchscreens has only two of three needed qualities: it’s conductive, it’s transparent—but it’s not flexible.

But Frederic Sansoz, professor of mechanical engineering, and a team of other scientists have made a discovery that may change that. Working with silver at a vanishingly small scale—nanowires just a few hundred atoms thick—they discovered that they could make wires that were both super strong “and stretchy like gum,” he says.

UVM’s Sansoz, his collaborator Scott Mao at the University of Pittsburgh, and their colleagues have led pioneering research on how to transform soft metals, including gold, into super-strong wires at the nanoscale. It’s part of a growing area of research that shows that as materials are engineered to be smaller and smaller it’s possible to eliminate many defects at the atomic scale. “And this makes them much stronger,” says. “They don’t know what size wire is best.” His new discovery should give chemists and engineers a target size for creating silver wires that could lead to the first foldable phones.

So Sansoz and friends explored what happens in the gap between ten and forty nanometers, the first study of this range. What the team of scientists found in the gap is that “the two mechanisms coexist at the same time,” Sansoz says. This gives silver wires in that little-explored zone both the strength of the “smaller-is-stronger” principle with the liquid-like weirdness of their smaller cousins. At this Goldilocks-like size, when defects form at the surface of the wire as it’s pulled apart, “then diffusion comes in and heals the defect,” Sansoz says. “So it just stretches and stretches and stretches—elongating up to two hundred percent.”

There has been remarkable progress since 2010 in applying silver nanowires in electronics, Sansoz says, including conductive electrodes for touchscreen displays. And some companies are working hard to apply these wires to creating cost-effective flexible screens. “But, right now, they’re manufacturing totally in the dark,” Sansoz says. They don’t know what size wire is best. “His new discovery should give chemists and industrial engineers a target size for creating silver wires that could lead to the first foldable phones.

SOCIETY | Not long after a 7.6 magnitude earthquake devastated Nepal in April of 2015, Emma Squier ‘17 sat in a classroom room seven thousand miles away studying the effects of the natural disaster on the Nepali people. A year later, she was living among them in the hardest-hit villages learning first-hand how they were surviving.

Squier spent two weeks in the remote villages of Paragang, Ghangyul and Sathul, interviewing and photographing forty-eight women for a research project about the experiences in the aftermath of the earthquake that killed nine thousand people. Many of the women from the Helambu region were left homeless, without running water or food, and little else to keep themselves and their children alive.

“The stories of the women hit me hard,” says Squier. “One woman was a year younger than me and three months pregnant when the earthquake struck her house and crushed her and her unborn child. She was helicoptered out, but tragically, her baby didn’t make it. Somehow, she and the other women in the village still seemed grateful for the little that they still had.”

Squier turned the interviews with the women into a research paper that will become part of a chapter, “The Vulnerability of Children and Women in the 2015 Earthquake in Nepal,” in a forthcoming book, published by Spitzer, titled, Living Under Threat of Earthquake: Short- and Long-Term Management of Earthquake Risk and Damage Prevention in Nepal. Her co-author is sociology professor Alice Fothergill, an international expert on the disproportionate effects of natural disasters on vulnerable populations such as women and children.

Squier, who minors in art and is a talented photographer, added a powerful visual element to her research with photo portraits of the women, which are woven into her research paper.

“One of the things that really struck me about Emma’s work was how much rapport and trust she established with the women in the villages,” says Fothergill. “She used ethnographic methods that are on a doctorate level, where you immerse yourself in another culture in a really remote setting and collect data that no one else has gathered. The data she collected is rare for any researcher, much less an undergraduate.”
INNOVATION | In a city and state known for its innovative spirit, it’s no surprise that student entrepreneurs at UVM are trying to get in on the action. To help these students bring their ideas to market, Andrew Dazzo ’17 developed a new innovation fund, which offers financial support and expertise.

“We want to be the entity that helps students flesh out their ideas, figure out their market, distill their pitches, and whatever else they need to turn their idea into a successful business,” says Dazzo. “We looked at models at other universities that choose to take equity stakes in startup companies and we think our model, which relies on a grant structure and does not take equity, will be very effective.”

Self-starter Dazzo offers a fine example to his fellow undergrads. The economics major/business minor’s thorough networking led to a summer 2016 internship with Wells Fargo, an opportunity to learn about investment banking and prove his merit, eventually leading to a job offer. Dazzo began as a staff analyst at Wells Fargo after graduation.

Here’s how the innovation fund works: a student brings an idea to the Student Analyst Team, run by Dazzo and other students. If it shows promise, the team would provide support and potentially a $2,000 grant to create a prototype through UVM and local facilities. Students who go through the prototype process may then win a $10,000 grant to further develop, market, and potentially launch a startup.

Student analysts receive training from faculty including Erik Monsen, the Steven Grossman Endowed Chair in Entrepreneurship, and alumni. Guidance from a board of advisors, comprising alumni in business and other relevant fields, will also be available to students and analysts to provide expertise and support.

“If we’re going to be providing strategic and operational guidance for startups we want to have some sort of background, so we’re planning a training session led by startup leaders in the Burlington community and faculty,” Dazzo said, as the fund was getting off the ground during spring semester. “At the end of the day we realize we’re just students, so we want to rely on the expertise of local entrepreneurs, faculty, and the alumni we’re continuing to build.”

The fund, financed by alumni donations and the Student Government Association, is administered by the Office of the Vice President for Research.

YUTAKA KONO, music, playing the tuba in ways you have likely never heard the tuba played.

MAJOR JACKSON, English, reading from a recent poem and speaking about the power of the medium.

ELLEN MARSDEN, fisheries biologist, on Lake Champlain research and behavior of the sculpin fish.

JACQUES BAILLY, classics, on his long association with the Scripps National Spelling Bee, from childhood champion to adulthood official pronouncer.

WOLFGANG MIEDER, German & Russian, on the wisdom packed into proverbs. [Coming attraction] go.uvm.edu/facultyfeature
SALIL MCCAY

SOCIETY | When news first broke in 2014 about the Flint, Michigan water crisis, Katrinell Davis was as surprised as the rest of America, but for a different reason that it took so long for a public health disaster to happen in her hometown.

Davis, assistant professor of sociology, knew inadequate public services first-hand while growing up in Flint; life experience at the root of her motivation as an expert on how public policy disproportionately affects lower-income communities. Her research examines the intersection of race, gender, and work trends within the American labor market and how it negatively affects working people.

Students in Davis’s “Race Relations in the U.S.” course learn about these issues through the lens of her Flint study, however. Davis’s prior research has been a combina-
tion of both qualitative interviews and quantitative data. Her Flint study, however, is based heavily on public records.

“My book is about the Flint community’s response to environmental racism and the truly historic legacy of pushback there—and the degree to which citizens have any real power or voice to make change,” Davis says. “It won’t be about the spectacle we saw unfold on TV after Flint and Hurricane Katrina and the anec
dotal studies that followed. That’s not my study. I’m relying on archival data from federal and state agencies that speaks to the history of this particular problem and the health conse-
quences of environmental racism as measured by lead exposure.”

Davis’s students are also reading her just-released Hard Work is Not Enough: Gender and Racial Inequality in an Urban Workplace (University of North Carolina Press, 2017) based on her doctoral dissertation at University of California, Berkeley. Davis spent months riding buses with African American women transit work-
ners in the San Francisco Bay area to document their struggles in dead-end jobs with intolerable work conditions following the Great Reces-
sion of 2008. The employment experiences of those women, Davis found, were undermined by workplace norms and administrative prac-
tices designed to address flagging workplace morale, and ultimately weed out employers who couldn’t withstand it.

Katrinell Davis was as surprised as the rest of America in 2014 about the Flint, Michigan water crisis, but that’s not why Davis spent months riding buses with African American women transit work-
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tices designed to address flagging workplace morale, and ultimately weed out employers who couldn’t withstand it.

In the Water

Four years in the making, the volume contains 855 entries from 325 contribu-
tors in thirty-five countries. Donnelly devised all the categories the entries cover—ranging from cheese regulations and cheese-making techniques to cheese history and cuisines—established the twelve-member editorial board, worked with editors and contributed their work.

Donnelly’s book was informed, in part, by her leadership at the Vermont Institute for Artisan Cheese, which she co-directed. At the UVM-based institute, her expertise in food safety intersected with the work of cheesemakers, cheese mongers, and other cheese experts.

In the spring of 2013, Donnelly was asked to edit The Oxford Companion to Cheese. With a sabbatical scheduled, she had another project in mind, but that quickly changed. “I just shifted gears,” Donnelly says. “This is such an impor-
tant book.” She framed the scope of the volume, assembled an editorial board, and committed to making a book that represents the international breadth of cheese—in content and contributors.

“Cheese is so global,” Donnelly says. “What we know about cheese here in the United States is really a short history compared to the rest of the world.”

The Definitive Word on Cheese Catherine Donnelly ’78, professor in UVM’s Department of Nutrition and Food Sciences, was recently honored with a James Beard Foundation award for her encyclopedic work, The Oxford Companion to Cheese, published in 2016 by Oxford University Press, won in the reference and scholarship category.

Lea Gossard

 escape from Shawshank

Enthusiasts of the film The Shawshank Redemption may be familiar with the verb “shawshanked,” as in “be shawshanked.” If the word had a dictionary definition it might read: “Fatigue caused by impulsive viewing of a popular 1994 American movie on late-night cable TV.”

“Shawshank” appears on most “best movie” lists and is the high-
est rated film on the Internet Movie Database, which uses a formula to compute popularity based on broad public feedback. So what explains our love affair with this film? English professor Anthony Magistrale and Maura Grady ’96 delve into this ques-
tion in their new book The Shawshank Experience, published by Palgrave Macmillan.

Magistrale has been teaching hor-
or film and gothic fiction at UVM since 1998, so authors like Edgar Allan Poe and Stephen King are chief staples in his classes. The screenplay of the movie is based on a novel by King, Rita Hayworth and Shawshank Redemption, which puts the movie right in his wheelhouse.

“When the twentieth aniver-
sary of the film came around in 2014, Maura flew me to Mansfield to deliver the keynote address at the university,” Magistrale says. “I went there think-
ing I would get to see the great OSM, and by the time I flew back to Burling-
ton, I also had the outline for the book. Maura was on board from the get go.”

Most of Shawshank was filmed at the Ohio State Reformatory (OSR) in Mansfield, Ohio, the forbidding limestone prison that provides so many gothic overtones to the movie. The old reformatory is now the offi-
cial home of the Ohio Corrections Museum, which attracted 110,000 visitors last year. The Shawshank Trail guides fans through a series of attrac-
tions related to key scenes or artifacts from the movie.

Alumna Grady took Magistrale’s senior seminar on Gothic fiction and now teaches in the heart of Shaw-
shank country at Ashland University in Ashland, Ohio. “I’ve taught students about King’s fiction and develop-
ment of the film since 2005—history of the film came around in 2014, Maura flew me to Mansfield to deliver the keynote address at the university,” Magistrale says. “I went there think-
ing I would get to see the great OSM, and by the time I flew back to Burling-
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“Cheese is so global,” Donnelly says. “What we know about cheese here in the United States is really a short history compared to the rest of the world.”
“It’s amazing to me that I walk the same halls as athletic director in 2017 that I walked as a first-year student-athlete in 1985,” says Jeff Schulman ’89 G’02. “Part of that is fun and nostalgic. But as the person who is now responsible for advancing athletics and recreation on our campus, it’s my responsibility to ensure that our facilities are evolving and keeping pace. When I became the AD, I knew it was important to take a fresh look at this whole issue.”

Indeed, the need to upgrade UVM’s athletic, recreation, and fitness facilities is a discussion that Schulman, a former Catamount hockey player, has been hearing since returning to his alma mater in 1993 as assistant athletic director. After he was named athletic director in April 2016, it became his mission to finally end that discussion and move forward with a plan to bring UVM athletics and fitness facilities into the twenty-first century.

Such a plan was presented to the Board of Trustees in February, where a resolution was passed to provide conceptual and financial support for the creation of a full schematic design of a new multipurpose center. The approximately $80 million plan to overhaul the Patrick-Forbush-Guterson Athletic Complex calls for a new events center/basketball arena on the site of the parking lot between Gutterson Fieldhouse and Patrick Gymnasium; the modernization and preservation of Gutterson for UVM Hockey; and an 86,000-square-foot health and wellness zone (only 15,000 square feet of fitness and recreation space currently exists) to be located at the north, Patrick, end of the project.

BY | JON REIDEL G’06

Enhancing the Future, Preserving the Past

Keeping character of “The Gut” key in major facilities plan

The plan emerged from extensive discussions with students, faculty, donors, alumni, and other campus constituents. One key finding people wanted athletic events to remain on campus, which removed from consideration off-campus proposals in downtown Burlington and South Burlington. There was also strong support for preserving historic Gutterson Fieldhouse.

“For a lot of people, there was a really strong emotional connection to The Gut,” Schulman says. “It’s one of the true iconic college hockey facilities in the country and possesses a character and an energy that’s really unique—like our version of Fenway Park or Wrigley Field. So we wanted to find a way to preserve The Gut, yet upgrade it so the fan experience is modernized and the student-athlete experience is enhanced.”

Another major question that needed to be resolved was right-sizing the seating capacity. Previous proposals called for a shared basketball and hockey arena ranging from 6,500 to 10,000 seats, but they never gained traction. UVM officials looked at peer institutions that built larger shared hockey/basketball arenas and found that most have struggled to fill seats and effectively meet the needs of both sports. This is consistent with recent data showing a nationwide decline in attendance at sporting events.

“It’s important that our facilities continue to be full, and I don’t mind if that means it’s a tough ticket to get,” says Schulman.

While final seat counts and configurations have not been determined, it’s likely that both facilities will have slightly larger capacities than can currently be found in Gutterson (4,035) and Patrick (3,228). Both will have the flexibility to expand capacity significantly for non-athletic uses such as concerts, speakers, and other entertainment events.

At the February meetings, trustees also began discussion of a funding model that will likely be a combination of institutional sources and private donations. Pending final approval from the trustees, construction could start as soon as early 2019 with various components coming online in 2021 leading to a full completion date in 2022.

“The magic of this concept, in my mind, is how Gutterson and the new events center will be fully integrated, allowing for multiple shared spaces and a highly efficient design,” Schulman says. “And by consolidating the varsity sport components in one area, the northern zone is freed up for dramatic enhancements to health and fitness, as well as classrooms, group exercise studios, demonstration kitchens, and even a juice bar. The space will be truly multi-purpose and designed very much with student engagement in mind.”

“I think we’ve arrived at the right place with a project that is achievable, right-sized for UVM and Vermont, and capable of gaining the philanthropic support needed to make it happen.”
“How Long?”
Why Thoreau Matters Now

“How long?” “How long?”

BY | KEVIN DANN G’85

““How long?” “How long?”

This question, which punctuated an extraordinary number of Henry Thoreau’s journal entries throughout the growing season every year as he sauntered about Concord’s fields and forests, was prompted by Thoreau’s perennial desire to live deeply into the unfolding biological activity about him. How long since a plant he encountered had flowered, fruited, or leafed out? He wished to be a silent witness at the birth of every natural phenomenon in the local landscape, and in his brief life, went a long way to meeting such a desire. But his question carried an existential ache as well, a prophetically straightforward plea that things far beyond Concord, into our own time and place. How long before America becomes naturalized, becomes, like the plants and animals whose life histories he tracked, symbiotically imbedded within its physical surround? How long until the democratic ideals of the founding fathers are truly realized, protected, defended, and extended? How long before America discovers its true destiny?

At the very historical moment when America seemed to be gaining its full independence from Europe, to realize what many felt to be its “Manifest Destiny,” Thoreau’s cranky voice kept insisting that America had an altogether different destiny. Seeing his country’s task as one of redeeming its dark colonial past by forging a new relationship with Nature and History, he called attention to this task by way of his own personal lifslong pilgrimage. His daily meanderings within a tightly circumscribed corner of a rapidly expanding nation made him an acute observer of the civil contingency of the local society of pickerel, turtles, and field mice. Thoreau’s entire biography can be conceived of as an avant-garde attempt to “go native,” to meet the “expectations of the land,” both as to how Americans would live in relationship to the land, and to each other. His life and words have become a measure against which America rests uncomfortably. The perennial challenge for America has been to balance the rights and desires of the individual with those of the wider community. At a time of rampant—and at times, misconceived—social reform, Thoreau and his fellow Transcendentalists championed the principle of self-transformation as a necessary precursor to any social transformation. More than any other American of the antebellum era or since, Thoreau cultivated a rhythmic and rigorous practice of solitude as complement to easy sociality. “How long?” was also a question that Thoreau asked in his capacity as surveyor. Thoreau took stock of the boundaries of his neighbors not only when hired to do so because of legal disputes, but more often when he was not asked, continually measuring the limits within which his contemporaries lived their lives, and provoking them to jump out of bounds with him. Statesmen, scholars, farmers, laborers, merchants—indeed, all of his neighbors—fell within his philosophical compass. How long would it be until these fellow citizens might take their own honest measure of themselves, that they might meet the expectations of the land? To ground his inner impulse toward naturalization, Thoreau constantly pulled out his notched walking stick or some improvised device, to measure the height of the spire of Notre Dame cathedral in Montreal, the width and length of a moose hide in Maine, or in his native Concord, the Canada lynx skin and the depths of Walden Pond. This is an exalting appetite for everyday detail is the very method that allowed him to help answer the existential question regarding America’s destiny Immersed in an era of “truthiness” and “fake news,” we would do well to follow Thoreau’s example of faithfulness to truth.

Contemporary historical explanation, which, like modern ecological science, hews to a contingency over certainty, allows for little room for the expectancy of “destined” events. Rarely does one hear the word “destiny” these days, whether in academic circles or in popular parlance. One is more likely in America to speak of “karma,” though mostly in a flippant, dismissive manner that again collapses cosmic fatedness into facile accident. When Thoreau spoke of the “stars,” he was not surrendering to determinism, but fighting his way toward a view of the future that let freedom ring within the admitted constraints of certain undeniable natural laws. Surrounded by a millenialist culture that saw doomsday or divine deliverance around every corner, he did not go up on his roof to await the Rapture. He championed the sovereignty of the individual, while fully expecting the individual’s progressive divinization. He believed in America as a yet-to-be-fulfilled promise to all humanity, not just an entitled few.

The heroic life called for in Walden was above all a courage, not for its author’s having walked off a village to the village to live in a cabin of his own construction for two years, but for its undeniable confidence in the human imagination. If men were to escape from leading “lives of quiet desperation,” they had to make those lives meaningful. The men and women born generation after generation had but one transcendent task—to seek out annually meaningful. The men and women born generation after generation had but one transcendent task—to seek out annually meaningfulness. “The men and women born generation after generation had but one transcendent task—to seek out annually meaningfulness.”

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As a young man, Henry Thoreau dreamed chivalric dreams, inspired by his reading in chapbooks, poetry, and myth. Though in adulthood he dismounted, adopting the manner of the foot-bound soldier, he continued to dream chivalric dreams for both himself and his country. Without ever identifying the high table-land of his dreams along any doctrinal lines, Thoreau aspired to a personal and national mythology of grand proportions. If he could not see to which chivalric stream he belonged, which pennant he walked under, perhaps we can, and in so doing, recover the sort of enlarged view of life which was his particular talent. No doubt Thoreau, the indefatigable measurer of trees and truth, would ask—100 years after his birth—that our measurement of life’s task to the facts, but that we then read those facts with an enlarged sense of meaning.

Before Henry Thoreau took his string and plumb bob out into the Walden Pond, his townsman almost to a person spoke of the pond as bottomless. With simple instruments, working from facts to law, Thoreau put his foot through illusion and hearsay to touch bottom. Let us do the same.

Let us take facts—which admittedly have grown exceedingly hazy to us earthbound denizens—and strive toward law. There are great covering rhythms, perennial, elemental rhythms undulating around and through us which we hear not. “How long?” this great American spirit asked. Why not now?

Kevin Dann is the author of Expect Great Things: The Life and Legacy of Henry Thoreau, which was just published by TarcherPerigee on the bicentennial of Thoreau’s birth.

Billy Renkl is the author/artist of Field Notes: a response to the journals of Henry David Thoreau, 2014.
Bill Keeton points ahead into the forest. “There’s one of the tip-up mounds we made,” he says, walking over to a ten-foot-high wall of torn tree roots that have yanked up soil and rocks, leaving a shallow hole behind. “Trees like to den under these in the winter,” he says, and winter wrens make nests here.” Keeton points to a ten-foot-high wall of torn tree roots. “The more carbon an acre of trees holds, the more valuable it will be in these new carbon markets.”

Keeton, who co-directs the Forestry Program at UVM’s Rubenstein School of Environment and Natural Resources and serves as a fellow in the university’s new Gund Institute for Environment, says, “This is a great new tool for foresters and landowners to have in their tool box.”

“NEW OLD GROWTH”
Keeton calls his approach “structural complexity enhancement,” or SCE. It’s a suite of forestry techniques designed to imitate the ingenuity of the Northern Forest—old-growth forests in managed timberland can increase biodiversity (including notable increases in mushrooms, herbaceous plants, and amphibians), enhance the ecosystem services that forests provide to people (like clean water), and, ultimately, restore old-growth forests—“a vastly underrepresented forest type in the Northern Forest,” Keeton says, due to the lingering effects of forest clearing in the eighteenth and nineteenth centuries.

Now his team’s newest results point to another benefit: imitating old-growth forests enhances carbon storage in managed forestland far better than conventional forestry techniques.

As the planet warms, carbon markets are getting hot, too. Forest landowners have been looking for ways to enter these markets, making money from their commercial timberland not just by selling logs—but also by demonstrating that their land is absorbing climate-warming carbon dioxide from the air. The more carbon an acre of trees holds, the more valuable it will be in these new carbon markets.

Keeton and his students report that they leave behind. As the climate warms, that goal becomes increasingly urgent—and the definition of old growth itself becomes increasingly complex.

With warmer temperatures and many new invasive pests, “the baseline is shifting,” Keeton says. Restoring old growth to the Northern Forest “does not mean going back to the forests we had four hundred years ago,” he explains. Instead, he says old growth restoration as a form of adaptation for the future. The characteristics of old forests—“like their structural complexity, closed canopies, high levels of biodiversity, mixed-age trees, and microclimates,” Keeton says—can give land resilience against drought, higher temperatures, diseases, storms, and rapid ecosystem changes.

“We’ll need more old growth in the future,” Bill Keeton says.
It's the 2017 season-opening series at Fenway Park. But as a quaintly New England brew of cold, wind, and rain lashes the city, the day game is called. The concession stands on Yawkey Way are shuttered—no Luis Tiant Cubano for you. Fans console themselves browsing the seemingly infinite variations on Red Sox caps for sale at the official store across the street. Out-of-towners wearing Pirates jerseys and forlorn faces head to the refuge of Back Bay shopping malls.

But through a side door off Yawkey, up a few flights of stairs, the work of the Boston Red Sox front office quietly hums along. Zack Scott’s office is spare and windowless, buried somewhere in the sprawl of Fenway along the third base line. Past success, a huge photo of the 2007 World Champions banner being unfurled on a blue-sky opening day 2008, hangs on the wall behind his desk. Present and future is in full view on the opposite wall. A white board displays the 2017 game schedule, and the names of players on the active roster, optioned, and 10-Day Disabled List in three tidy columns.

A small corner bookshelf holds pictures of Scott’s wife, Molly, their two kids, Zoe, six, and Perry, three; a bright splash of kid’s art; and dense stacks of baseball stats and analytics books. Among the volumes, works by Bill James, godfather of sabermetrics and a consultant to the Red Sox. The wonkish world of baseball statistics had its spotlight moment with Michael Lewis’s 2003 bestseller Moneyball, the story of Oakland Athletics’ general manager Billy Beane’s quest to leverage innovative analytics and turn a cash-poor team into a winner. The book vaulted the work of Beane, his assistant Paul DePodesta, and the pioneering James into the public consciousness. Scott says that, to some extent, he and colleagues in the field owe their careers to Moneyball. The book opened eyes and eventually doors in pro baseball’s front offices.

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Scott became a baseball fan with that 1986 season. A few years later, he took the deep dive into baseball statistics when his older brother introduced him to Stat-O-Matic, a dice-and-cards baseball game grounded in MLB player statistics. Reflecting back on Little Zack, Big Zack expresses some bemusement and confesses to something close to obsession. He played out the entire Red Sox season on Stat-O-Matic, kept extensive stats, his patents suggesting he might want to get outside a little more.

Scott did, indeed, get outside. Focused on soccer when other kids were playing Little League, he later switched to baseball in Babe Ruth League and high school. He offers a straightforward assessment of his prospects as a high school JV lifer: “I was a good defender I could catch the ball. But I had no arm strength. And I couldn’t really hit. I was just a singles hitter with too many strike outs for a singles hitter.”

Scott sent himself to the bench when he offered to keep the stat book for the coach, then did too good of a job, and earned the duty full-time. “I was like, ‘Uh-oh, I just made a bad decision.’”

Scott spent his first year of college at the University of Texas-Austin, charting a computer science major as the route to a career in creating computer-based sports games. But a family emergency back in hometown Natick, Massachusetts, made him reconsider college closer to home, coinciding with a shift towards following his “comfort with numbers” into business. Scott personifies a Red Sox guiding principle—draft picks, player evaluations, front office job with the Red Sox in May 2004. They were heady times as the organization honed the analytics and confesses to something close to obsession. Scott and his team of analysts strive to sort the stuff out. “The thing I love about it is, it was 24/7. You have to keep going.”

Scott is there to offer data, discuss what needs to be addressed, anticipate what’s next. Scott is there to offer data, discuss what needs to be addressed, anticipate what’s next. Scott is there to offer data, discuss what needs to be addressed, anticipate what’s next. Scott is there to offer data, discuss what needs to be addressed, anticipate what’s next. Scott is there to offer data, discuss what needs to be addressed, anticipate what’s next. Scott is there to offer data, discuss what needs to be addressed, anticipate what’s next. Scott is there to offer data, discuss what needs to be addressed, anticipate what’s next. Scott is there to offer data, discuss what needs to be addressed, anticipate what’s next. Scott is there to offer data, discuss what needs to be addressed, anticipate what’s next.

“Oddly enough, in January 2003 that Popper alter ego provided a ‘networking’ opportunity in an unlikely localization, back at Boston’s Paradise Rock Club. That’s the way Popper, fresh out of the boy wonder GM of the Red Sox (and a guitar slinger in his own right), was in the house for a fundraiser as Scott tells the story of their first meeting, his somewhat introverted, networking-averse side made him reluctant to approach Epstein and share his background. At the time, he worked for Diamond Mind, a stats-based, health care company headquartered in Lexington, Massachusetts. But a friend kept nudging him, then it took upon himself to break the ice with Theo and suggest, more or less, ‘You should talk to that guy over there.’ As it turned out, Epstein knew Diamond Mind’s work, and had thoughts about how they might help the Red Sox’s consultants. One of his first questions to Scott that night concerned a player named David Ortiz, a left-handed outfielder from the Minnesota Twins. Though he seemed worthy of signing, Scott admits that back then neither he nor Epstein saw Big Papi developing into a future Hall of Famer.

Crazy days, but visionary leadership and hard work at long last brought the MLB Championship trophy to Boston in 2004 and again three years later. As Epstein, Hoyer, and others eventually moved to the Cubs and other organizations, Scott was among the few 2004 front office originals still on board for 2015’s World Championship. That makes three championship rings to Zack Scott’s name. But don’t expect new opportunities to use others in the organization, walking around flaunting them. You also won’t find the bling under glass on Scott’s desk or on the fireplace mantle at home. The rings are tucked away in a bank safe deposit box. That reflects, Scott says, an organizational focus on looking forward, driven by a clear sense of mission measured with the most primal of sports statistics—wins and losses. Also fundamental to the Red Sox way, a belief in team concept, shared work and credit, that applies to vice presidents and analysts as sure as it does to pitchers and catchers. Scott won a bit at that “no one more vital to the future of the Red Sox” line in the Herald’s “That’s not really how things work,” he says. With an afternoon status meeting on Beacon, the organization’s new web-based information platform, fast approaching, Scott gathers with his team of analysts for a quick lunch. Heading out to South End, they descend a narrow set of stairs, walking beneath a large black-and-white photo of Ted Williams uncoiling a home run swing.
Vermont is known worldwide for brews with a bite. UVM alumni have a lot to do with that.

BY ANDREA ESTEY
PHOTOGRAPHY BY ANDY DUBACK

Home to Heady Topper, The Alchemist brewing facility in Stowe, Vermont.
ONE NIGHT IN 2011, while sitting on their living room floor, Jen Kimmich ’94 and her husband, John, designed their first can of beer tall, with a whimsical black-on-silver illustration and an invitation to “drink from the can.” Within two years, the beer, Heady Topper, would become top-ranked in the world, and one of the most sought after.

Heady was the first Vermont beer to generate a cult-like following. “Because it’s only available in limited quantities within state lines, customers queue up, sometimes for hours, to buy it.” Heady Topper changed the attitude of the craft beer world,” says Adam Krakowski G’10, author of Vermont Beer: History of a Brewing Revolution.

Today, Vermont’s known as craft beer Mecca. People travel from all over the world to get a taste of what’s called the “Holy Trinity,” the three breweries widely considered to be the state’s best, two of which are owned by UVM alumni: The Alchemist, owned by the Kimmiches, and Lawson’s Finest Liquids, owned by Sean and Karen Lawson (’92 G’99 and G’97). (The third brewery in the trilogy, Hill Farmstead, is not alumni-owned, but has been voted best in the world for the past three years.)

ECONOMIC UPPER
By all measures, Vermont’s beer scene is booming. From 2011-2015, the number of breweries in the state doubled, making Vermont first in the nation for craft breweries per capita. The Vermont Beer Association (VBA) boasts fifty-four members, and expects to double, making Vermont first in the nation for craft breweries per capita. From 2011-2015, the number of breweries in the state doubled, making Vermont first in the nation for craft breweries per capita. The Vermont Brewer’s Association (VBA) boasts fifty-four members, and expects to double, making Vermont first in the nation for craft breweries per capita.

By 2011-2015, the number of breweries in the state doubled, making Vermont first in the nation for craft breweries per capita. According to a study done by VBA, in 2015, beer brought $367 million to the state. According to a study done by VBA, in 2015, beer brought $367 million to the state. According to a study done by VBA, in 2015, beer brought $367 million to the state. According to a study done by VBA, in 2015, beer brought $367 million to the state.

“CRAZED FOR HAZE
It only takes one sip of Heady Topper to know it’s different. Hoppy and ultra-flavorful, the hazy, unfiltered double IPA was one of the pioneers of what’s now called the New England-style IPA.

Jen Kimmich appreciates customers’ enthusiasm. “Just don’t call Heady ‘special.’ "We just don’t think of it that way," laughs Kimmich. "John makes great beer, but we focus on consistent quality and getting the best ingredients. All those years it was rated top beer in the world, it was tabas. You have to have that stuff out because you can get sidetracked.”

Kimmich has both a pragmatic and people-focused approach to the business, a combination that can be traced back to her days at UVM. “A Barre native and second-generation Catamount, she studied business administration for three years before falling in love with sociology. “That’s what grabbed me,” says Kimmich.

The late Professor Stephen Berkowitz had a particular impact on her growth; she remembers him as both mentor and friend. Kimmich worked her way through college at Vermont Pub & Brewery, where she met future husband John. He migrated to Burlington after graduating from Penn State to work with the late Greg Noonan, then-owner of the pub and a pioneer in the state’s craft beer scene.

Soon after marrying, John and Jen got to work on their business plan, with Jen focused on finances and logistics and John honing recipes. They studied the business from the inside-out, working for breweries in Jackson Hole and Boston before returning to Vermont in 2001. Their Alchemist Pub & Brewery was quickly a hit in Waterbury Village. “When we opened the pub, we were content, that’s kind of all we dreamed of doing,” says Kimmich. “But I knew that our beer would do great on the market because there was nothing like it. John finally gave in when I showed him the numbers.”

The first cans of Heady Topper came off the line in August 2011, the day before Hurricane Irene slammed Vermont, destroying the pub. “The timing was crazy. It was just a horrible day. But we knew we could overcome it.”

Fast forward to today: In addition to a Waterbury production facility, the couple operates a brewery/visitor’s center in Stowe, a massive, 16,000-square-foot warehouse on four acres that offers expansive views of the surrounding slopes.

In total, The Alchemist employs forty-nine people; forty-eight are salaried. “Our base salary is twenty-eight dollars an hour,” says Kimmich. “When you’re given the opportunity to create jobs and make good, positive impact, you have a responsibility to follow through.”

—Jen Kimmich ’94, above, is founder/owner of The Alchemist with her husband, John.
Thirty-five minutes south of Alchemist HQ, Sean and Karen Lawson of Lawson's Finest Liquids are poised to make a similar impact in the Mad River Valley. For the past decade, Sean's been cooking up standout brews in a tiny sugar shack on his property. Now, the Lawsons are working on opening a tasting room and brewery in downtown Waitsfield next summer.

"It's exciting, but daunting. We're really the morn and pop," says Lawson, who swiftly labels bottles by hand as he talks. "We just hired our first employee, and we're going to need to hire between twenty and twenty-five people next year. We're going to create some really good jobs."

A New Jersey native, Sean grew up visiting family in Vermont, including his uncle, professor emeritus Bob Lawson, now retired from the psychology department after forty-four years at UVM. "From a young age, I felt like Vermont was a place I wanted to be," says Sean. He graduated in 1992 with a degree in environmental studies and ecology, around the time he cooked up his first batch of homebrews; a maple wheat beer made in a big turkey pot in his off-campus apartment. He worked as an environmental researcher, naturalist, ski patroller, and even at a few brewpubs before returning to UVM for his master's in forestry. Sean was a researcher for about fifteen years, including stints at UVM's Proctor Maple Research Center and the Vermont Monitoring Cooperative. Through it all, he never gave up homebrewing. "All these great breweries were opening around me, and people for years had been saying, 'your beer is so good you should sell it,'" says Sean. He finally took the leap with a one-barrel system in 2011. "but the beer was still dirty, an industrial place," says Hale. "I have this image of when I was a kid, walking on the railroad tracks before there was a bike path and looking through the railroad ties at the water below. In the business plan, I said, 'I want to be down in that end of town.'"

Hale grew up in Burlington, raised by a single mom who worked for IBM for thirty years. He remembers the city's grungier days with fondness. "It wasn't a hipster college town, it was real down and dirty, an industrial place," says Hale. "I have this image of when I was a kid, walking on the railroad tracks before there was a bike path and looking through the railroad ties at the water below. In the business plan, I said, 'I want to be down in that end of town.'"

Hale did just that when Queen City opened its doors on Pine Street in June 2014. The walls contain hints of history, like bricks stamped with "Queen City" from a local brickyard and a vintage pick-up overlooking the bar.

But returning to Burlington wasn't always the plan. "I left Vermont, I never thought I would come back," laughs Hale. He met his wife, Ellen Zeman '81, when they were studying chemistry at UVM as undergraduates. Both went on to earn doctorates in chemistry from Northwestern and work in New York before coming back to Vermont when Paul landed a job with BioTek Instruments.

Seven years later, he returned to UVM. "The university wanted to get more involved in economic development," says Hale, and he brought a unique mix of lab experience and local connections. He served as associate vice president for research and economic development for fifteen years, and was the director of the Vermont Technology Council. In that time, Hale estimates he reviewed hundreds of business plans, setting him up for success when it came time to develop his own.

On the side of all of this was homebrewing, a hobby since 1986. "My wife calls it an obsession, but it was a hobby," says Hale. In the early days, he was mentored by the late Greg Noonan; unlike many brewers, Noonan freely shared his recipes. "When I started homebrewing, it was hard to find information," says Hale. Today, Hale brews a strong scotch ale called Gregarious, based on Noonan's Mad Success

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In Vermont, the beer industry exceeds maple syrup and has drawn even with on-mountain skiing.

367M Economic Impact

In terms of economic impact in Vermont, the beer industry exceeds maple syrup and has drawn even with on-mountain skiing.
GREEN MOUNTAIN HOPS

We know beer can thrive in Vermont, but what about hops? Most U.S.-grown hops grown come from the Pacific Northwest, and while that’s unlikely to change, Heather Darby, an agronomic soils specialist with UVM Extension, led a six-year-long growing trial with twenty-four different hops, and says certain varieties of hops do have the potential to thrive in the Green Mountains. “Our biggest challenge is moisture,” she says, “but we’re proving that what we can put out here is just as good!” Darby estimates there are about a dozen Vermont farmers growing hops commercially, but with the trial’s findings and a growing local knowledge of hops, she expects this number to continue to grow. Creating jobs was totally in Hale’s mind, because I had worked in economic development for so long.”

You won’t find a barrage of hops or trendy beers at Queen City. “We’re kind of oddballs because of that,” says Hale. His inspiration is pulled from more traditional, international beer styles (the brewery’s slogan is “World-class beer without the jet lag”). He traveled to Europe a bunch of times and visited small breweries. It was in my mind since the early nineties that man, I could do that,” says Hale. He still has the tasting notes from visiting spots like Larkins and Samuel Smith in the U.K. and Pilsner Urquell in the Czech Republic.

Now three years old, Queen City has three full-time employees and a handful of part-time employees. Hale recently purchased bottling machinery, which will enable him to start selling six packs, and he hopes to hire more employees this year. “It takes time, but I think we’re building a reputation for making these really high-quality beers.”

A NEW CROP

Unaudited by growing competition, young UVM alumni are also taking the plunge. One such alum: Mark Babson ’06, owner of River Roost Brewing in White River Junction, named one of the best breweries of 2016 by Beer Advocate.

“Look at the model in Europe, and every body has a community brewery,” says VRAX Melissa Corbin. “The locals aren’t going to go an hour and a half to get their growler filled. They’re going to go ten minutes down the road.”

“That’s exactly what Babson’s banked on, in a town that hasn’t had a brewery since one of the region’s first, Catamount Brewing, closed years ago. “People have been receptive and open. I still get customers coming in and thanking me for opening,” he says. After earning his degree in environmental studies and working in the field for several years, Babson decided to see if he could turn his homebrewing hobby into a career. He worked at Magic Hat and New Hampshire’s Woodstock Inn before venturing out on his own. It’s been a year of hard work, and Babson is still finding his footing; he just hired his first part-time employee, and his mom makes the long drive from his native Williston one day a week to help fill growlers. He points to the pastel-colored dish mat sitting behind the bar. “Those were a gift from mom,” Babson says with a laugh.

Another entrepreneurial young alum is Sam Keane ’12, a nutrition and food sciences grad who credits his UVM advisor, Dr. Todd Fitchard, with first sparking his interest in brewing. Keane worked at Switchback Brewing until he opened Foam Brewery on the Burlington waterfront in April 2016 with four other partners, including John Farmer ’13.

“We’re pushing the limits of what beer can be,” says Keane; in the year they’ve been open, the team’s made sixty different beers, ranging from sours and double IPAs to saisons and palinurs. Foams seasonally driven, experimental approach earned them a spot alongside River Roost on Beer Advocate’s Class of 2016 list, and the brewery was recently ranked sixth in the world among new breweries by RateBeer.

James Branagan ’07, operations manager at Battleboro’s Whetstone Station, took a leap of faith to align his profession with his passions when he quit his job as a special educator, moved back to his hometown, and started working his way up at the brewpub.

“Being a teacher and all the skills that come with that served me well when I got into this role,” he says. He convinced Whetstone’s owners, who started the brewery in 2012, that he could do a server training course on beer, and put his lesson plan skills to work. Although Whetstone’s brewing capacity is small, the larger brewpub employs eighty people in the winter and more than 150 in the summer when their beer garden overlooking the Connecticut River is open, a magnet for tourists and locals alike. “A lot of people come up for beer hunting adventures,” says Branagan. “But that’s not the reason I fell in love with craft beer. It’s the romanticism of it. It’s a connection to how the whole world drinks beer. I like the idea of continuing those traditions.”

“Of the things I wanted, other than making beer, was for people to think about the history of Burlington.” — Paul Hale ’82, left, founder/owner of Queen City Brewery.
‘ENGINEERS ARE PEOPLE WITH HAMMERS LOOKING FOR NAILS.
AND IN MEDICINE, WE’VE GOT A LOT OF NAILS.’

ENGINEERING MEETS MEDICINE

THE POINTS WHERE ENGINEERING MEETS MEDICINE ARE RIPE WITH PROMISE.

Think cardiac pacemakers, smart prosthetics, radiation therapy, laser surgery. At UVM, where the engineers at Votey Hall and white-coated physicians and research scientists of the Larner College of Medicine share the same small corner of campus, simple proximity helps foster collaboration. Coupled with new degree programs and major investment in facilities and faculty, the university is poised to dig deep in this vital twenty-first-century field.

For a case study in current success and future potential, consider Rachael Oldinski, a rising faculty star in biomedical engineering in the College of Engineering and Mathematical Sciences.

Oldinski and a group of faculty at the Larner College of Medicine’s Vermont Lung Center are hard at work on an ingenious invention she calls a “lung Band-Aid”—a patch of organic matter derived from seaweed that can be used to repair the hole of a collapsed lung and “potentially save a life,” she says.

But if a post-doctoral student at the med school, Darcy Wagner, hadn’t wandered over to Votey Hall to catch a seminar Oldinski was teaching, then talk with her afterwards about a challenge she and her advisor, Dr. Dan Weiss, a pulmonary specialist at the Lung Center, were facing, the invention may never have been conceived.

Kiki Cunningham ’18 in Professor Rachael Oldinski’s lab
“She came to my seminar and said, ‘This is what we’re having trouble doing,’ and I said, ‘Well, I have something that will probably solve your problem.’” Oldinski says. “And then she came back to me and said, ‘You know I think your solution would actually be good for something else.’”

One thing led to another and to another (if you’ll allow me a wee simplification of the scientific process), and the lung Band-Aid was born.

“It happened only because of the people and the location,” Oldinski says. “David Rosowsky sensed the need for people and location.”

Rosowsky was further impressed by the talent of the UVM provost position in 2013. In his previous role at Rensselaer Polytechnic Institute, Rosowsky presided over a college of engineering.

“People and location,” Oldinski says. “David Rosowsky sensed the need for people and location.”

It was Rosowsky who, after being impressed with the talent of the UVM provost position in 2013, brought the concept of a biomedical engineering program to the university’s highly ranked medical school—and by how many faculty in both academic units had educational backgrounds and active research programs in biomedical engineering.

“Looking back, it seemed like a natural extension of the existing programs,” Bates says. “We had a lot of momentum with the CMMI proposal from 2010 to 2014. Bates and Jeff Frolik, professor of electrical engineering in the College of Engineering and Mathematical Sciences, are co-directors of the new undergraduate program.

The growth is being driven along two tracks, says Bates. “There’s the talent and profusion of pulmonary medicine in the Larner College of Medicine, who helped launch the biomedical engineering program in 2012,” she says. “And then there’s the technology involved in making diagnostic tools like CAT scanners to the safe and comfortable” within engineering? she asks. “I think others guess that it’s ‘because of the more immediate social implications of being able to directly help people.’”

“This was a huge opportunity to invest in an area that was very compelling to students, very compelling to federal agencies supporting research, and very attractive to employers,” Rosowsky says. “It’s also a great fit for the university.”

A Ph.D. program in bioengineering, launched in 2010, was joined by a new undergraduate major in biomedical engineering during the 2016-2017 academic year: A master’s degree track in the discipline will follow within two years.

“The degree programs and faculty research are undergirded by the impressive bricks-and-mortar investment in the STEM complex, part of President Tom Sullivan’s 2013 Strategic Action Plan. Phase one of the project, the new Discovery Building, opened adjacent to Votey Hall this year. Following the raising of the Cook Building, construction on the Innovation Building will begin next year. A state-of-the-art biomedical engineering teaching and research lab will be housed in Votey, much of which will be gutted and rebuilt as part of the STEM project.”

The proximity of engineering and medicine at UVM is rare in American higher education. At the vast majority of the fifty universities that have both accredited biomedical engineering programs and medical colleges, the two units are located across town from one another (think Tufts in Medford and Tufts Medical School in Boston’s Chinatown) or even across the state (Cornell in Ithaca and Weil Cornell Medicine in Manhattan, for example).

“Being out in Silicon Valley a lot and just picking up as much as I can on all the blogs, I certainly think there is more and more demand,” he says. Nardi also mentors healthcare startups in the Chicago area and notes that future biomedical engineering graduates can anticipate being welcomed by fresh waves of start-ups where their skills and versatility will make them ideal hires.

The attractiveness of the new undergraduate program and the popularity of the major across higher ed should help the College of Engineering and Mathematics continue its strong enrollment growth, a strategic goal of the university and the state of Vermont. The unit has more than doubled its enrollment in the last decade.

It will also help with another challenge facing UVM and universities everywhere: tipping the scale toward gender balance in the male-dominated field of engineering.

“Biomedical engineering nationwide is about 40 percent female,” says Luis Garcia, dean of the College of Engineering and Mathematical Sciences. “We’re confident our program will get to that level,” which should boost overall engineering enrollment well above its current ratio of 21 percent female to male, a figure higher than the national average for engineering schools but not where the college wants to be.

Why more women are attracted to biomedical engineering is a complicated question. Bates and others guess that it’s “because of the more immediate social implications of being able to directly help people.”

Oldinski says role modeling plays a large part.

“Where did a lot of women start to become comfortable” within engineering? she asks. “I think biomedical engineering was one place. And as soon as you have one biomedical engineering professor, there’s your pipeline of female students.”

The path of Kiki Cunningham, a junior in biomedical engineering who started at UVM in mechanical engineering, suggests that these reasons may be intertwined.

While in high school at Emma Willard in Troy, New York, Cunningham took a tour of the General Electric facility in nearby Schenectady and talked with a young woman there who told her about a project she was working on to make synthetic skin for burn victims. Cunningham was inspired by the role model and drawn to the field’s ability to make a human impact.

“Originally I wanted to go into internal medicine to help people,” she says. “After that presentation and after doing more research, I saw more ways I could help people as a bioengineer than as an M.D.”

From Rachael Oldinski’s perspective, students like Cunningham and her fellow majors in the new degree program are in a classic right place, right time circumstance. “They have the ability to get into the classroom, to go over to the hospital, to volunteer, to work with faculty in the College of Medicine and the College of Engineering, the Material Science program in the College of Arts and Sciences, the College of Nursing and Health Sciences,” she says. “UVM has everything you’d want for the degree.”

A version of this article originally appeared in Vermont Quarterly, a publication of UVM’s College of Engineering and Mathematical Sciences.
NPR STAR
Managing editor and co-host of WNYC's On the Media Brooke Gladstone and her sidekick Bob Garfield draw an audience of 1.2 million to the weekly radio show, a staple for many National Public Radio listeners. Along the way, she's won two Peabody Awards, a National Press Club Award, and an Overseas Press Club Award.

Given daily accusations of fake news and dishonest reporting from on high, is it a good time to be managing editor of a program called On the Media? “I've had friends who say, 'Doesn't it feel like you spent twenty-five years preparing for this moment, so you can be effective and relevant and maybe make a difference?' It's an interesting time to be a reporter,” Gladstone says.

ROYALL TYLER DAYS
As a UVM theatre major, Gladstone spent nearly every waking hour of her college career in a renovated gymnasium newly named Royall Tyler Theatre. She honed the art of storytelling in classes, in performing, and in watching others perform.

“The sense of pacing,” the need to be “specific and concrete” in acting is much like writing an effective news story or conducting an engaging interview, she says. “It requires crafting; UVM helped me with that.”

Classmate and fellow thespian David Godkin ’78 remembers Gladstone, whose family moved to Vermont from Long Island when she was in high school, as “just brilliant … We knew she was going places, we just didn’t know where.”

ROAD TO RADIO
You never know where waitressing might lead. After graduation, Gladstone accepted an invitation to room with a classmate in Washington, D.C., and found a restaurant job to pay the rent. A customer put her onto her first not-particularly-glamorous freelance writing assignment. “Initially it was real bottom feeding,” she says.

But Gladstone marshalled her clips and began to build a career. Her big break came in 1986 when Scott Simon, then a rising talent on a new NPR show called Weekend Edition, asked her to fill in on the program while the show's editor was away.

That foot in the door would lead to Gladstone becoming Simon's senior editor, then senior editor of All Things Considered, and a three-year stint in NPR's Moscow bureau.

After returning to the United States, she reported on the media beat for six years, overcoming an initial reluctance to narrow her focus.

Gladstone’s work earned the attention of New York’s flagship public radio station, WNYC, which wanted her to relaunch a failing show called On the Media, which had promise but was under-resourced and lacked an editor.

She agreed in 2000, but on her terms: “I realized, ‘well, if I am more-or-less destined, or doomed, to cover media, then I will define media as broadly as I possibly can.’”

Media would be “any means by which we speak to each other or reflect our view of the world or take in our view of the world,” she says, an ecumenical approach that helped quintuple the size of the show’s audience over the next seventeen years.

IN PRINT
Not content with the rigors of producing a weekly radio program, Gladstone is also an author, of The Influencing Machine, an acclaimed non-fiction graphic novel on the history of media starring a cartoon version of herself and, most recently, The Trouble with Reality, A Ruminations on Moral Panic in Our Time, prompted by President Donald Trump's electoral victory. The new work counsels both sides of the ideological divide to venture out of their bubbles to at least attempt to understand the other's reality.

“It isn’t about agreeing,” she says. “It’s just about seeing.”
inner cheese—or you’re one of those eat-it-all types who enjoy the meaty texture of a rind—pay close attention. Notice a slight crunchiness when you bite down? Or a kind of after-effect, like a pleasant toothpaste grittiness on your teeth? Those are cheese crystals. And many of those cheese crystals—a team of UVM scientists has discovered—are cold-water ikaite.

“It shouldn’t be there,” says renowned UVM mineralogist John Hughes. “But it is.”

“This was very surprising,” says Gil Tansman, who completed his doctorate in food science at UVM this spring and led the discovery.

In Europe, people have been making washed-rind cheeses since at least the Middle Ages and the first scientific explorations of crystals in cheese began more than a hundred years ago. But very little is understood about the crystal phases of cheese and other foods. And which crystals contribute to the noticeable grittiness of many washed-rind cheeses had never been known—until Tansman thought “minerals are rocks,” and marched across campus to speak with Hughes, professor of geology and past UVM provost. Together with Paul Kindstedt, a professor of nutrition and food science, they launched some of the first-ever explorations of crystals in food with advanced X-ray techniques.

“We’re discovering rare crystals that, it turns out, people have been eating for centuries,” says Tansman, who submitted the team’s findings about cheese—to the geology journal *Canadian Mineralogist*.

Ikaite is unstable at room temperature. “So how in the world is it forming and staying on cheese?” says Kindstedt. At first, when Tansman and Hughes removed these crystals from the rind, they “turned to mush,” Hughes says, before they could finish studying them under the X-ray beam in the university’s single-crystal diffractometer. Only after the scientists learned to quickly coat the crystals in glue could they collect data.

Something is happening on the surface of the washed-rind cheese that neither food scientists nor geologists yet understand. “And that’s what makes this exciting,” says Kindstedt. In this complex smear, ecosystems of microbes and yeasts draw proteins and mineral elements, including magnesium and potassium, from within the aging curds below and carbon dioxide and ammonia from the air above the cheese, the near-magical “headspace.” This microscopic

**PHOTOS AND STORY BY JOSHUA BROWN**
A spring blizzard, Paul Kindstedt, Pat Polowsky, Gil Tansman, and I drive down the driveway at Jasper Hill Farm, past a deep-space-blue barn painted with flying cows and a giant moon of cheese. Soon we are in one of their custom-built caves—The Cellars at Jasper Hill, seven arching concrete vaults blasted into this Greensboro hillsides—filled with thousands of ivory and orange and gorgeously mold-and-microbe-encrusted wheels and blocks of cheeses.

Mato Kehler—one of the co-owners of Jasper Hill with his brother Andy Kehler, UVM Class of 1993—is standing beneath a towering wooden rack of cloth-wrapped cheddar, talking passionately with the visiting scientists about crystals. While the slight crunch of a fine cheddar has been appreciated by cheese-lovers for a very long time, the sensory character called grittiness is a complex issue. And tastes change. Cheese crystals in some markets are getting to be hot. “Cheesemongers, that are cutting at the counters, yes, they’re getting questions about crystals and they’re asking us,” Kehler says.

“Maybe ten years ago,” Kindstedt says, if consumers tasted cheese crystals, “they would’ve freaked out about sand or said ‘something’s wrong with my cheese.’ And it’s still considered a defect in cheddar cheese. And crystals of any kind were hardly studied in the U.S. cheese industry, except as a problem to be eliminated. Having just completed his sweeping history, Cheese and Culture, Kindstedt reoriented his research program to seek a deeper understanding of crystals.

A graduate student, Pat Polowsky, are working in the Carrigan Wing of Marsh Life Science Building, looking at short videos they made with a geological microscope. Against a purple background, spartapped, rainbow-edged crystals of ikate and more-blunt crystals of the bacteria loving mineral struvite appear and disappear as they rotate under polarized light, confirming their genuine identity as crystals, and “not just cheese gunk,” says Polowsky.

The scientists’ goal is to take the definitive results from their X-ray studies and use them to corroborate lower-cost microscope techniques that could give cheesemakers a tool to ID crystals in their own products. They are launching an effort to collect washed-rind cheeses from cheesemakers around the country. “There may be other really interesting crystals that we haven’t seen yet,” Kindstedt says.

Since arriving at UVM in 1986, Kindstedt has been a leading figure in the development of a scientific understanding of cheese. He started his career helping industrial-scale cheesemakers improve the stretch in mozzarella, and spent years finding methods to prevent calcium lactate crystals from forming in cheddar, since many consumers misinterpret surface crystals as unwanted mold. He’d always enjoyed the pop and crunch of crystals in a nicely aged parmigiano-reggiano, an old gouda, or a three-year-old cheddar.

But in Sicily, in 2012, Kindstedt had “an epiphany over double espresso,” he says. Meeting with traditional cheesemakers from Europe, he realized that crystals were not just an incidental aspect of some older hard cheeses, but were “deep signs of authenticity” in many styles of cheese, he says—and that “the crystal reveals the conditions that are making the cheese.” In white-mold cheeses, like brie and Camembert, there’d been research, particularly in France, to understand the softening process, how they ripen from too-firm, to perfectly oozy, to an unpalatable condition. “It’s driven by crystals that form at the surface,” he says. However, no one had taken a hard look at crystals in the washed-rind cheeses, a very profitable category of artisanal cheese. And crystals of any kind were hardly studied in the U.S. cheese industry, except as a problem to be eliminated. Having just completed his sweeping history, Cheese and Culture, Kindstedt reoriented his research program to seek a deeper understanding of crystals.

Under a steel-gray March sky, awaiting the arrival of a spring blizzard, Paul Kindstedt, Pat Polowsky, Gil Tansman, and I drive down the driveway at Jasper Hill Farm, past a deep-space-blue barn painted with flying cows and a giant moon of cheese. Soon we are in one of their custom-built caves—The Cellars at Jasper Hill, seven arching concrete vaults blasted into this Greensboro hillsides—filled with thousands of ivory and orange and gorgeously mold-and-microbe-encrusted wheels and blocks of cheeses.

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Since arriving at UVM in 1986, Kindstedt has been a leading figure in the development of a scientific understanding of cheese. He started his career helping industrial-scale cheesemakers improve the stretch in mozzarella, and spent years finding methods to prevent calcium lactate crystals from forming in cheddar, since many consumers misinterpret surface crystals as unwanted mold. He’d always enjoyed the pop and crunch of crystals in a nicely aged parmigiano-reggiano, an old gouda, or a three-year-old cheddar.

But in Sicily, in 2012, Kindstedt had “an epiphany over double espresso,” he says. Meeting with traditional cheesemakers from Europe, he realized that crystals were not just an incidental aspect of some older hard cheeses, but were “deep signs of authenticity” in many styles of cheese, he says—and that “the crystal reveals the conditions that are making the cheese.” In white-mold cheeses, like brie and Camembert, there’d been research, particularly in France, to understand the softening process, how they ripen from too-firm, to perfectly oozy, to an unpalatable condition. “It’s driven by crystals that form at the surface,” he says. However, no one had taken a hard look at crystals in the washed-rind cheeses, a very profitable category of artisanal cheese. And crystals of any kind were hardly studied in the U.S. cheese industry, except as a problem to be eliminated. Having just completed his sweeping history, Cheese and Culture, Kindstedt reoriented his research program to seek a deeper understanding of crystals.

The scientists’ goal is to take the definitive results from their X-ray studies and use them to corroborate lower-cost microscope techniques that could give cheesemakers a tool to ID crystals in their own products. They are launching an effort to collect washed-rind cheeses from cheesemakers around the country. “There may be other really interesting crystals that we haven’t seen yet,” Kindstedt says. The scientists’ goal is to take the definitive results from their X-ray studies and use them to corroborate lower-cost microscope techniques that could give cheesemakers a tool to ID crystals in their own products. They are launching an effort to collect washed-rind cheeses from cheesemakers around the country. “There may be other really interesting crystals that we haven’t seen yet,” Kindstedt says. The scientists’ goal is to take the definitive results from their X-ray studies and use them to corroborate lower-cost microscope techniques that could give cheesemakers a tool to ID crystals in their own products. They are launching an effort to collect washed-rind cheeses from cheesemakers around the country. “There may be other really interesting crystals that we haven’t seen yet,” Kindstedt says. The scientists’ goal is to take the definitive results from their X-ray studies and use them to corroborate lower-cost microscope techniques that could give cheesemakers a tool to ID crystals in their own products.
Opiate addiction hits rural Vermont communities, like UVM junior Rory Butler’s hometown of Coventry, hard. The sociology/history double major is determined to make a difference, initiating an Addiction Awareness Week on campus this spring and taking to the road this summer in a hard-to-miss van, brightly painted with messages for his cause.

Rory’s studies, advocacy, and post-UVM dreams of law school have been greatly boosted by the Hope Scholarship. He is the inaugural recipient of the award, established by David Godkin ’77 and Pamela Haran, which provides free tuition for one Vermonter for four full years.
Charles “Chuck” Perkins writes, “Life is very good for Jann and me. We travel a lot, and we own places in Vermont, Florida, Colorado, Utah, and Wyoming. We also still ski and hike the Hanks. Our twin grandchildren are all doing well. UVM is in our backyard, and we take advantage of all that it has to offer. My only problem is that I am now 84 years old. Where have the years gone? Thank heavens I married a younger woman. Jane and I have been married 61 years. We had a party for 200 on our 60th anniversary at our Stone House. Life is good!”

Robert A. Baldwin shares that his beloved wife, Judith Macslash Baldwin, BS, of Cosmopol, passed away on February 26, 2017. Judy’s circle included the post of director of medical records at Mary Fletcher Hospital. After meeting Bob, she moved to Hartford, Connecticut, and became the assistant director of medical records at Hartford Hospital, where she served for 24 years. Judy and Bob loved hockey and were Hartford Whaler season ticket holders. She also loved jazz and attended many jazz concerts throughout the Northeast. Judy had many hidden talents which included her lead singing role in Judy Pochele and the Buzzards. Judy was a devoted wife and stepmother and very proud of her Scottish heritage. Howard A. Bouve passed away peacefully on February 18, 2017. He is survived by his wife of 60 years, Sylvia, their four children, Sarah, Elizabeth, Ted, and Amy, and their nine grandchildren. Howard’s entire career was at the First National Bank of Boston, retiring as a senior vice president. Howard was long active as a community volunteer and was an avid sailor. He and Sylvia traveled extensively.

Send your news to—
UVM Alumni Association
411 Main Street, Burlington, VT 05401
alumni.uvm.edu/classnotes

Bobbette Cameron writes, “Still enjoying island living with tennis and golf. Volunteer jobs keep me busy with local land trust and working at a thrift shop to benefit a local animal shelter. Managed to have a winter break with a trip south this winter. Would love to have classmates and UVM friends visit anytime!”

Martin “Marty” Louis Warren passed away on February 13, 2017. Marty loved his family, was an avid golfer, and a passionate Nebraska football fan. He served in the First Radiological Safety Unit Support Unit monitoring fallout at both the Nevada test site and in the Eniwetok and Bikini atolls after which he moved to Omaha as a sales rep in Nebraska and Iowa. Following eleven years of traveling, Marty decided upon a more settled life and in 1969 began his 30-year career in retail with Dillard’s Department Store’s corporate office.

Ollie “Peter” Ribauo retired from playing polo on September 1, 2016, after being an active player and member of the United States Polo Association for 35 years. He owns two polo clubs, Buddleigh Farms in Pine Bush, New York, Nataning two polo fields, and the other club in Asheville, South Carolina. Peter has played globally and was recently honored at a dinner in Chestesh, England, with ten players; he has competed with them all over the world. Peter can be contacted at peterribauo@blueseaconsustruction.com.

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Bill Pickens ’58

Generations of UVM student leaders gathered on a late April weekend to mark the seventy-fifth anniversary of student government at the university. Among the alumni returning for a visit, Bill Pickens ’58, the first African-American student elected to the top job. Pickens circled up with six current student leaders to share memories, the advice of an elder, and talk today’s issues. He spun out the story of an effort to bring Kakenlewill’s blackface rituals to an end.

Pickens, including his grandfather, a founder of the NAACP, was well connected to many African-American leaders nationwide, including baseball pioneer Jackie Robinson. Pickens brought some of these leaders to campus in the fall of 2015 and launched an awareness effort: the UVM force of delivering Robinson was thwarted by a snowstorm that stranded him at LaGuardia Airport.

And Kakenlewill endured for many more years.

Mary Bell writes, “Roger and I are enjoying our retirement life in Santa Fe, very close to our alma mater. We welcomed our fourth great-grandson in June. When I have time, I enjoy painting and showing my work at local galleries. We have many happy memories of our years at UVM.” Sandra Bailey Dibbell completed 50 hours of training to become a Stephen’s family, including his grandfather, a founder of the NAACP, was well connected to many African-American leaders nationwide, including baseball pioneer Jackie Robinson. Pickens brought some of these leaders to campus in the fall of 2015 and launched an awareness effort: the UVM force of delivering Robinson was thwarted by a snowstorm that stranded him at LaGuardia Airport.

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In her notebook, the class of 61. "My husband and I are planning a family celebration on Cape Cod, our annual summer vacation spot, in July. Madeline Wishnie Brachler emailed, "I am happy to report that I am still very much in good health. The United States representing an international N.G.O. and working on the status of women's issues. It is 11 long years now and my involvement continues to be a remarkable experience. The Mexican-American-Centennial Community Center from across the globe on the crucial issues of gen- der equality and women's empowerment. In addi- tion, I have joined a life plan community filled with interesting people. Visit our website or call for more information about life plan communities. On Wednesday, we were in Boston to enjoy a couple of days and explore the city. Best to all of you.

Send your news to—
Kathleen Nunn McGuckin
416 San Nicolas Way, St. Augustine, FL 32080
kmcguckin@prodigy.net

The deck at camp looking at the Adirondacks. Though Lake Champlain was at risk for a record low last summer, its waters were back up due in part to April snows. We are here to open up and enjoy a couple of days and continue to volunteer with the Boston Marathon, assisting one of the June issue due out in April, titled "A Sergeant's Life in Vietnam Magazine". The recollections of other soldiers were taken from oral histories compiled by the Battalions' ALPHA and Headquarters Companies. One can view it at historysem.com, and scroll down to "The Black Lions Crew up with At My! The next event was when he still was country, but he was no lon- ger with his men. He got some of his men to work on oral histories about the two events. They have an orange Violent Day. One will be published in the June issue due out in April, titled "Sergeant's Prayer is Answered." Jeff says his English literature instructors would be amazed that he's a "pub- lished author!" Those of us living in the northeast have an advantage of getting together in New York City where it's an impromptu lunch as Lola Digg- ees, the radio host, and organized a planned event such as the UVM reception held at the Penn Club in New York City. Sandra Timmerman and I attended two such events in the past and enjoyed meeting many of the alumni who recently graduated and live in the city. The two were in no class; mates in attendance. However, this past November, we met with Don Noble, Mark Berson, and talked about Bob's wife, Nina, Sigma Nu Brother, and, above all, the most important thing, helping each other.

We also take time to enjoy our four grandchildren and watch lots of baseball at this time of the year. Have lived in Westminster for nearly 39 years and hope to stay in our home for a few more with contin- ued good health. Hopefully you all had a good win- ter thing it was a crazy up and down one. Maybe summer will be better. Right now I am sitting at our desk in the house oh so long ago where Ken served as dish- washer. Ah, memories of the best time! Welcome to our new online living apartment building, is scheduled for completion in 2018. Maple will include 38 apartments, 7 new open floor plans, and 1 unique opportunity. Live the life you choose in a vibrant lifestyle community filled with interesting people. Visit our website or give us a call to schedule a personal tour.

200 WAKE ROBIN DRIVE, SHELBURNE, VERMONT

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80 Oakmount Circle, Lexington, MA 02420 stevenbowray@hotmail.com

Travel journalists Jules Older and Effin Lawes Older '64 make mini- marriners, most of which are at YouTube.com/joidolster. Among their most recent are Russel Tolke's Aide and Helpdesk in Moon. Both are available on youtube.com. When the pair were shopping for plants for daughter Amber Older's '91 garden, the knowledgegable associate who advised them at Kings Plant Barn turned out to be none other than Tony Galgally '68. Jules also writes, "This spring, just as we were about to start our summer gig at SFUC, San Francisco, Jewish Community Center, we spotted a table with a green banner that read University of Vermont. We made our way to it, and there in a small table, said "Jules" was Henry and Lincoln '81, G'92 of the University of Ver- mont Foundation. We chatted until our respective time and made this year's Reunion. " Small UVM world, eh?"

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For the Love of Water

Jack Lear ’55 was not a graduate of the Rubenstein School of Environment and Natural Resources—and that’s not because it didn’t exist yet. Jack’s degree was in applied technology and agricultural engineering, following years later by a master’s in business from Temple University. He then spent most of his career in marketing with AT&T Bell.

As savvy philanthropists, the Lears chose to establish a UVM Charitable Gift Annuity (CGA) that will ultimately cover the tuition costs for their grandchildren. Thank you, Jack and Ann, for thinking of this Harvard with the annuity in mind.

In the fall, the Lear Fund was created. Once Jack and Ann pass away, the balance of their CGA will be added to the Lear Fund which supports research and student scholarships.

James Betts, "Still in full-time pediatric surgical practice, completing 34 years at Children’s Hospital of Oakland. Looking at past (and present) than the ending of this year in my spare time, I serve as a social worker in pathfinders for Big Sib. I have a small home there when I retire a few weeks a month. I am also a clinical psychologist with the FBI, San Francisco SWAT team."

In 2017, "Women Worth Watching in STEM" was selected by the Association for Women in Science. Despite low pay and long hours, Rosie Lee writes, "I am still excited about my job and enjoy being a professional in STEM. It gives me some control over my career, and in my current field of public policy and climate change, I can have an impact on the issues that matter to me most. Happy to be joined by Alicia Betits, "At the groundbreaking for the new UVM Rescue quarters, a group of friends invited to participate in the groundbreaking for the new UVM Rescue quarters, I was pleased to see a large crowd of people there, including some old friends and others here year long. This winter, I went to a UVM basketball game in Fort Myers. It was a tourney with all the investment early into the game. The wind is right. We have seven grandchildren that we love to see and hang with." Michele Garew writes, "I returned to Vermont after many years residing in Danville, I am currently providing telephone triage for Vermont LifeLine and working with Dr. John Langs writes, "Retired from 10-year financial management and later returned to the accounting and bookkeeping profession. Engaged in volunteer work, I am a member of the Dementia Support Group in Rutland and support the needs of our elders.

"I feel very blessed to be here with such pleasant weather. I love the water and more and more UVM alumnae are interested in the surrounding area. What about the spring and fall and spend most summers in Italy and traveling throughout Europe. Walked the Camino de Santiago a few years ago and looking for new and interesting walks in UK and the world. A long time ago I said the wind is right. We have seven grandchildren that we love to see and hang with." Michele Garew writes, "I returned to Vermont after many years residing in Danville, I am currently providing telephone triage for Vermont LifeLine and working with Dr. John Langs writes, "Retired from 10-year financial management and later returned to the accounting and bookkeeping profession. Engaged in volunteer work, I am a member of the Dementia Support Group in Rutland and support the needs of our elders.

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For information on including the University of Vermont in your estate plan, Palmer Ellis, Office of Gift Planning The University of Vermont Foundation 411 Main Street, Burlington, VT 05401-3411 PHONE 802-656-9936 FAX 802-656-8879 E-MAIL: amy.palmer@uvmfoundation.org
**PEACE CORPS REUNION**

**September 6, 2023**

Returned Volunteer alumni and student gathering.

**alumni.uvm.edu / peacecorps**

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Pete Beekman is good. I referee field hockey every fall (40+ years) for non-profits. I am re-connected with two UVM colleagues, development board members, and on boards for two non-profits. I write, “My biggest wish is retirement after 35 years in Vermont public service, but...” Looking forward to meeting some other UVM grads living in the area. Everyone allegedly graduated in the early years, especially in the late 70s. We do a lot of the same things that we used to do, just at a slower pace. And where we used to go out at 10, now we are going to bed. Lots of people have gone back to school, for higher degrees, taking the days of our youth, and we are now watching our children grow up and find their ways. Some are even now UVM alumni! Blake and I have good kids. We still love it!”

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Catherine Cover Wilson says, “I’m writing on behalf of myself and five alumni, Barb Rosenblatt Ehrenstein, Karen Yacov, Sue Dixon, Ruth Eisenhower and Mary Cantwell. We have gone back to school, for higher degrees, taking the days of our youth, and we are now watching our children grow up and find their ways. Some are even now UVM alumni! Blake and I have good kids. We still love it!”

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The Penn Club of New York, located in the heart of midtown Manhattan, is an excellent place for alumni, friends, families, and parents of students to come together to form lasting memories. The Club hosts a wide range of facilities and services to enhance our members’ time at the Penn Club.

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The Penn Club is a great home away from home for all of our members.

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Shelley Carpenter Spillane

spillane@acme.com

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After 17 years working for the federal government in D.C., Dave White and his family relocated to Knoxville, Tennessee. Dave left the associate dean of research position at the University of Tennessee. Buff Blanchard’s graduate work was a general interest and oversaw the M.D. program here.” Robin Edelstein writes, “I went out to my wonderful friend, Janie, with hopes for a great chapter including North Carolina. To Marc Deluca and Nicole I hope this is all well with work and family. To Dave Blanchard and his wife, Marc, let’s connect you two! I’m sure you’ll have another kid. I can’t believe you guys!” Shawnee, Round Pond, Me; Flagstaff Lake/Mount Bigelow, Maine; Savannah, GA; D.C.; Newport, Rhode Island; Lake Winnipesaukee; and Sarasota is on the agenda for this October. I’m getting ready to visit UVM, but long for the days when students walked around campus talking to each other rather than texting...”

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78

**40th Reunion**

October 6-8, 2023

If you are interested in planning your upcoming reunion, email alumni@uvm.edu. Gerhard Losel writes, “My husband, Bob, and I have become Florida residents. I retired recently after 40 years as an operating room nurse. Still using my art degree by doing house portraits on plates. Five children, five grandchildren. Life is busy and good!”

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A Class Notes
88 Andrew Buerger shares, "It's been a great year for our family. We love our rela-
actively new business, B'More Organic, and our organic produce smoothies made with
their veggies in n4 states. My wife, Jennifer, and I will be celebrating our 16-year wedding
she keeps busy with her psychotherapy practice. Oh, and she also chases our six-year-old around.
Last summer our climbing organization, Jax's Climb for Hope, an expedition on Mount Rainier and we were greeted with 50-mph wind, trapping us in our tents for 30+ hours. Hoping to get back
and we were greeted with 50-mph wind, trapping

89 Maureen Kelly Gonsales caught up with Emily Katz Moskowitz, Kate Barber Swindoll, Swindoll's
dale Fallon Croteau and Sue Mooney Noonan during the holidays. She writes, "It is always a fun time when we can get our group together even if it's not even when it's the whole family. Diane Pelli-

90 Upon retiring after 30 years in the mil-
aj. "I grew up in Champlain Valley Weatherization
services, providing energy efficiency services to
low-income Vermonters. Jane Racocie and Brian

91 Andrea Kasten Tange, has received
tenes at Macalester College. Her interests lie in 19th-century English literature and culture, including travel narratives, colonialism and empire, gender and class identities, visual and print culture, domesticity, childhood, Anglo-Jewish life and migrations. After almost
afraid of doing some extreme fund-raising. Any ideas?" Ted

92 25th Reunion October 6-8, 2017

93 Karen Heller Lightman writes, "As of July 1, I will be the associate dean of the Williams

94 Sean Tyrrell "I have seen so many parents get their kids to
come home for the weekend! It is always nice to hear from those who have graduated and how they
are doing. It is a good way to know that our efforts are making a difference and that the CATAMOUNT
NATION is doing well!"
Lowell Bailey ’05

WORK: Lowell Bailey made history in February when he became the first American skier to win a biathlon world championship. With strong skiing throughout the race’s twenty kilometers and perfect twenty-for-twenty shooting, he took the top step of the podium at the championship in Hochfilzen, Austria. Next winter’s Olympics in South Korea will be his fourth Games.

HOME: Lake Placid, New York.

UVM DAYS: One of Catamount Skiing’s all-time greats, Bailey took second in two successive NCAA Championships and was a three-time All American skier and three-time NCAA Academic All American during his college years.

IN HIS WORDS: “I’m waiting for someone to wake me up. The last loop felt like it was forty kilometers long and not four. To shoot clean at world championships and to have unbelievable material, every single part of my race came together today. I will remember this for the rest of my life.”

Watch the final minutes of Bailey’s championship race: go.uvm.edu/lowell
After spending time training on both floats (at the University of Stanford and University of Utah), Ana Guichon has migrated to the Midwest to start working at two hospitals in Chicago. She is the clinical assistant professor of ophthalmology at Loyola University Medical Center working at the Ynez, Vir- ginia, and has a full time appointment as an ophthalmic and orbital surgeon at John H. Stroger Hospi- tal of Cook County. Prior to her bayouing at UVM, she continues to volunteer time teaching abroad, 2016 took her to Mozambique and Ethiopia and this year, she will return to Ghana and Nepal to con- tinue training the next generation of ophthalmic surgeons. Seeing the country population she fre- quently remembers her microbiology and molecu- lar genetics roots which come in handy for some very unique tropical disease presentations.

Send your news to——
Kelsy Kislay
kelsykislay@hotmail.com

Benjamin Mark Weisberger and Eli- zabeth Eberle Beckler were mar- ried Saturday, May 14, 2016 at the North Garden of Blithewold Mansion, in Bristol, Rhode Island. Benjamin, is Chef de Cuisine of No. 1 Park in Boston, Massachusetts. In addition to his bachelor’s in political science from UVM, he holds an associate degree in Culinary Arts from the Cal- lery Institute of America in New York. The newly- weds enjoyed a mini-moon in Nantucket, Massa- chusetts. They will honeymoon in Asia next spring and continue to live in Cambridge. Henry Wain- house recently transferred to Columbia Law School. He will be working at Jones Day in New York City this summer.

Send your news to——
David Volan
davidvolan@gmail.com

Kristof Grina ’12

Work: Grina is one of the founders of Up Top Acres, which is transforming rooftops in and around the nation’s capital into thriving organic farms. The word landed Grina and his co-funders a place on 10 under 30 Social Entrepreneurs of 2013.

HOME: Metro Washington, D.C.

UVM DAYS: A plant and soil science major, Grina focused on ecological agriculture, studied food systems abroad in Oaxaca, Mexico, and got his hands in the dirt with the UVM Horticulture Club and the Common Ground Student-Run Educational Farm.

IN HIS WORDS: “During an urban agriculture course at UVM, I was able to connect the dots between my experience as a city kid and all of the knowledge around plant and soil science that I was accelerating in school. After that class, I started to look everywhere I went with a keen eye towards adapting it to the urban setting.”

Read more: go.uvm.edu/grina

Emma Grady
gradyem@gmail.com

Elissa Johnson was appointed interim- ly to fill the position of coordinator in the food studies program at S. Parker War- ren Hall. Elissa holds a master’s degree in systems from UVM, where her graduate research explored connections between interactional iden- tities, and practice through a focus on gender and politics.

Meg Ziegler writes, “Look at the Alumni Association website flickr photo to see the photo of me with a fellow UVM alumni students Chadwick ‘98, who meet while at Event Base Camp in Nepal Octo- ber. I heard him mention Vermont while on the trail and we realized we were both UVM alumni!”

Send your news to—
UVM Alumni Association
ebreece@gmail.com

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IN MEMORIAM

George E. Mattson ’50, G’51
Carlos R. Dunn ’50, of Jericho, Vermont,
Jane Gates Capizzi ’50
Harry S. Blanchard ’50, of Vergennes,
Geoffrey Ware Pelletier, Jr. ’49, of Tampa, Florida, March, 7 2017.
John Willard Wesley ’49, of Middlebury,
William John Murray ’43, of Tucson,
Lorraine Jaques Jones ’47, of Arizona, September, 30 2016.
Eleanor Berig Bloom ’43, of Canton,
Lorraine Mahar Calvi ’41, of California, April, 20 2017.
A. Robert Twiss ’50, G’54, of Craftsbury,
Sheldon W. Williams G’34, of Sanford, Florida, September, 11 2016.
Mary Dow Bassett ’53, ’81, of Saco, Maine,
Douglas M. Black ’53, MD’56, of Canton, Ohio, January, 3 2017.
Eleanor Louise Norrie ’50, of Vermont, December, 31 2016.
H. Stephanie Arno Mayo ’74, of Burlington,
Giannina Burnett Radcliffe ’62, of West Bend, Wisconsin, December, 31 2016.
John D. Edwards ’61, of Essex Junction,
Robert W. Lord ’64, of Vero Beach, Florida,
Jane Dorfman Kreisler ’56, of Las Vegas,
Norman Jay Snow ’66, MD’70, of Vermont, December, 22 2016.
Sheila Anne Granger ’58, of Hastings-on-Hudson,
Roy C. Haupt, Jr. ’74, of Riverside,
Christopher J. Labounty ’97, of Crested Butte, Colorado,
Marylen Ann Grigas G’87, of Richmond, Vermont, September, 24 2016.
Marylin Crowden ’80, of Keene,
Brenda Gonyeau ’80, of Ellington,
Elisabeth Burnside ’47, of Burlington,
Eugene C. Main ’52, of West Bend, Wisconsin, January, 16 2017.
Joan Dorfman Kreisler ’56, of Las Vegas,
Suzanne Davis ’49, of Vermont, January, 9 2017.
Mary Gustafson ’49, of Burlington,
John Clark Kendrick ’59, of Ellenton, Florida,
Anna Fraser Krush ’46, of Fort Collins, Colorado,
Renee K. Fitzgibbons ’45, of Columbus, Ohio, December, 17 2016.
William C. Plumb ’49, of Pittsford, Vermont,
Daniel Albert Boakes ’49, of Las Vegas,
Lester A. Goodspeed ’45, of Vero Beach, Florida,
William G. Granger ’43, of Glen Head, New York, February, 10 2017.
Mary C. Westfall ’43, of Tuscaloosa, Alabama, January, 30 2017.
Anna May Witte ’44, of Kansas City, Missouri,
David A. Youtz ’44, of Broomfield, Colorado,
Edward Carpenter Perkins ’52, G’58, of Rutland, Vermont, January, 4 2017.
Joan Dorfman Kreisler ’56, of Las Vegas,
Suzanne Davis ’49, of Vermont, January, 9 2017.
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Edward Carpenter Perkins ’52, G’58, of Rutland, Vermont, January, 4 2017.
Joan Dorfman Kreisler ’56, of Las Vegas,
Song as Abridged Thesis of George Perkins Marsh’s Man and Nature

by Major Jackson

(Invited on the Occasion of the Centenary of the National Park Service)

The pendulous branches of the Norway spruce slowly move as though approving our gentle walk in Woodstock, and the oak leaves yellowing this early morning fall in the parking lot of Marsh-Billings-Rockefeller. We hear beneath our feet their susurrus as the churning of wonder, found, too, in the eyes of a child who has just sprinted toward a paddock of Jersey cows. The fate of the land is the fate of man. Some have never fallen in love with a river of grass or rested in the dignity of the Great Blue Heron standing alone, saint-like, in a marshland nor envied the painted turtle sunning on a log, nor thanked as I have, the bobcat for modeling how to navigate dynasties of snow, for he survives in both forests and imaginations away from the dark hands of developers and myths of profits. The fate of the land is the fate of man. Some are called to praise as holy, hillocks, ponds, and brooks, to renew the sacred contract of live things everywhere, the cold pensive roamings of clouds above Mount Tom, to extol silkworm and barn owls, gorges and vales, the killdeer, egret, tern, and loon; some must rest at the sandbanks, in deep wilderness, by a lagoon, estuaries or floodplain, standing in the way of the human storm: the fate of the land is the fate of man.

Copyright © 2016 by Major Jackson, UVM professor of English. Originally published in Poem-a-Day on November 15, 2016, this poem was commissioned by the Academy of American Poets and funded by a National Endowment for the Arts Imagine Your Parks grant.
A SELECTION FROM OUR FAVORITE INSTAGRAMS THIS SEMESTER (INSTAGRAM.COM/UNIVERSITYOFVERMONT). LEFT TO RIGHT, TOP TO BOTTOM: @CARPENA94'17, @TINYEYES7'18, ALEXANDRA SHAFFER '19 @UVMDAILY, @JUSTJILLASSELLE '20, @LOUNS88563 '19, @SMOKIETOMOKI'20, @EMMERDUCKS '17, @CRWALKER74, @UNIVERSITYOFVERMONT