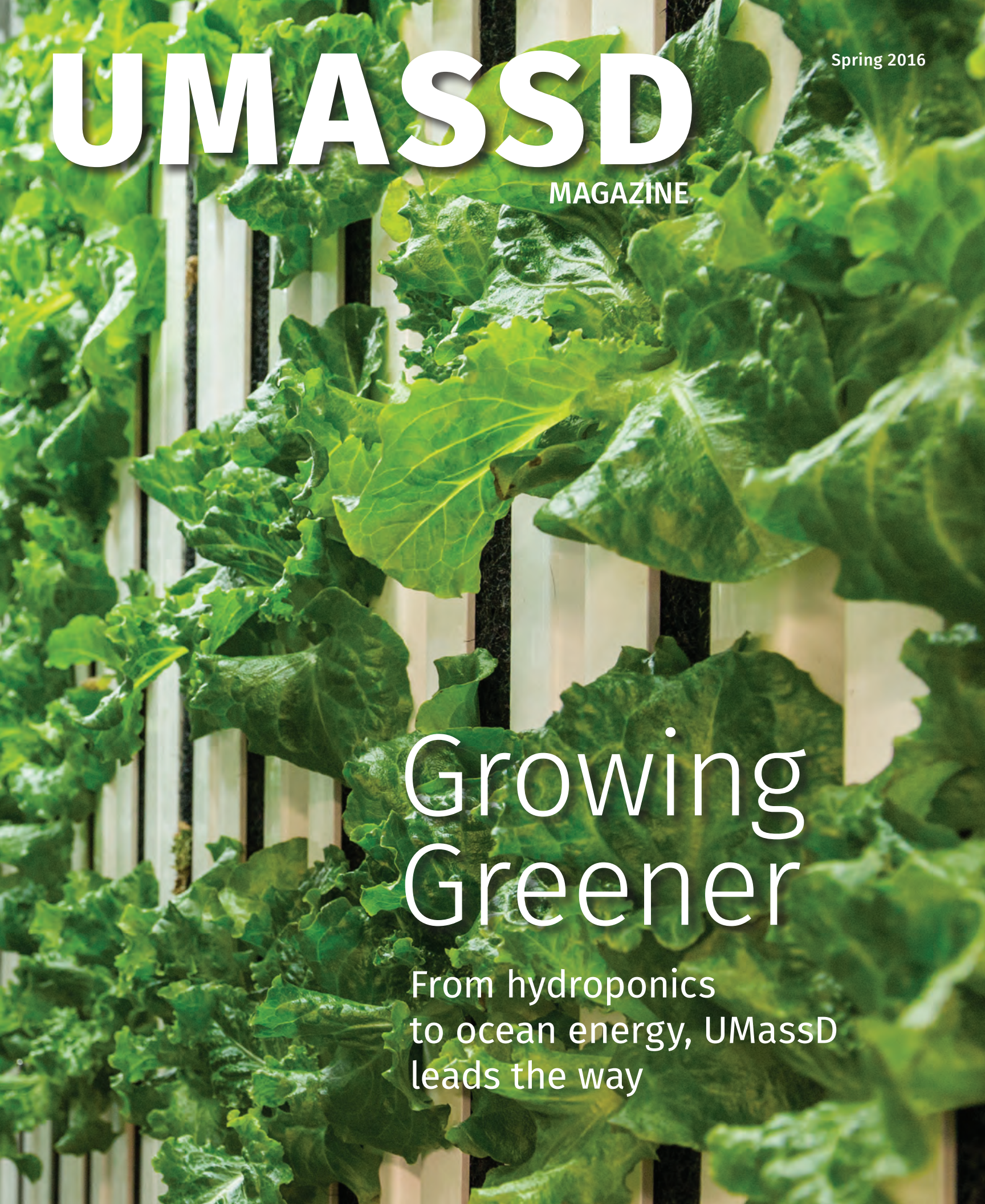




UMASSD

Spring 2016

MAGAZINE

Growing Greener

From hydroponics
to ocean energy, UMassD
leads the way



Feeding green-conscious Corsairs

UMass Dartmouth is one of the first campuses nationwide to use the hydroponic, vertical growing technology developed by Freight Farms, a Boston-based company. The climate-controlled ‘freight’ container enables Chartwells, which operates UMassD Dining Services, to provide students with home-grown lettuce and herbs year around.

Dining Services also has initiated other sustainability and waste reduction projects. In fact, much of the food used on campus comes from within a 10-mile radius, and they measure and track how much food gets wasted. Even the oils used by the kitchen are being recycled into biofuels.

Cooking with locally sourced food is just one of the ways UMassD prioritizes sustainability. See more examples in the features section of this issue.

On the cover

A close-up of UMassD-grown lettuce in a hydroponic trailer on campus. Cover photo by Deirdre Confar.

Dining Services’ Executive Chef Kevin Gibbons checks on lettuce growing in the Freight Farms trailer between the Marketplace (dining hall) and the Campus Center.

UMASSD

UMASSD Magazine is produced for the alumni, students, employees, and partners of the University of Massachusetts Dartmouth. The information contained in this publication is intended to engage readers in the mission of UMassD, which is critical to the social and economic development of the region.

We welcome letters from our readers and encourage you to email your comments to editor@umassd.edu, or mail them to:

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Message from Interim Chancellor Peyton R. Helm

Peyton R. (Randy) Helm
President Emeritus Muhlenberg College

Yale University, B.A. 1970
*Magna Cum Laude; honors in major (Archaeology);
Phi Beta Kappa*

University of Pennsylvania, Ph.D. 1980
Doctorate in Ancient History

Dear Members of the UMass Dartmouth Community,

I am so pleased to have joined your community as Interim Chancellor on March 15, 2016. As you know, the leadership transition at UMass Dartmouth was swift. However, conversations with President Meehan and with student, faculty, and staff leaders at UMass Dartmouth have articulated what I believe is an important opportunity for leadership and service on your campus.

My conversations have testified to an institution committed to transforming lives through the power of higher education, a purpose to which I have dedicated my career. UMass Dartmouth students are clearly motivated, determined, pragmatic, and focused on their future. Your faculty speak eloquently of their respect for their students, their passion for teaching, and their commitment to research.

I look forward to working with administration, faculty, students, alumni, and friends to continue the positive momentum at UMass Dartmouth. As an interim over the next year or so, my role will be to strengthen the University in ways that will support progress and smooth the way for the recruitment of the next Chancellor. (By the way, I am not and will not be a candidate for that position).

Finally, I'd like to share a bit about myself. Although my academic training, research, and teaching have been in the fields of archaeology and ancient history, my primary work throughout my career has been in college administration, including student affairs and development at the University of Pennsylvania, development and alumni relations at Colby College in Maine, and as President of Muhlenberg College in Allentown, Pennsylvania. I enjoy movies (the more car chases and explosions the better), reading historical fiction while lying in a hammock in my backyard, and canoeing and kayaking on a favorite lake in Maine. You can find out more about me at: www.umassd.edu/chancellor.

Until we meet in person, I wish you all the best.

Cordially,

Peyton R. (Randy) Helm

UMass Dartmouth achieves national doctoral research status

UMass Dartmouth has been officially designated as a doctoral research university, achieving a major milestone for the 9,000-student university and the region.

"UMass Dartmouth's designation as a doctoral research university is an extremely impressive achievement for the university's faculty and students," UMass President Marty Meehan said. "From marine science that supports our historic fishing industry and protects our fragile coastline to the study of our economy and global cultures, UMass Dartmouth faculty members are creating and sharing new knowledge that strengthens society and adds tremendous value to the education students receive."

"We are especially proud that our research faculty engage our undergraduate and graduate students in their work, preparing our students to excel in a rapidly changing society and adding great value to a UMass Dartmouth education," said Provost Mohammad Karim.

UMass Dartmouth received its designation as a "Doctoral University—Higher Research Activity" from the national Carnegie Classification of Institutions of Higher Education at the Center for Postsecondary Research at Indiana University. This designation elevates UMass Dartmouth from its previous designation as a Master's University.

Doctoral University—Higher Research Activity (R2) is the second of three levels for research classifications. UMass Dartmouth joins the following New England research universities so designated: UMass Boston, UMass Lowell, University of Maine, University of Rhode Island, and University of Vermont.



UMass Dartmouth's research enterprise has grown from \$21.2 million to \$28.2 million since 2005, with most of the sponsored research activity in marine science and engineering. The university now offers 12 doctoral programs, and the number of annual PhDs awarded has grown from 3 to 26 since 2010.

UMass Dartmouth researchers have recently secured federal, state, and private funding for research related to fisheries management, concussion-preventing materials, health benefits of cranberries, coastal preservation, climate change impacts, transportation system improvements, and other activity that is critical to the economic, social, and cultural development of the Commonwealth.

In addition, UMass Dartmouth researchers have emerged as national and statewide experts on the economy, social networking, global terrorism, community health, the Portuguese-American experience, the law, and other issues.

The Carnegie Classification has been the leading framework for recognizing and describing institutional diversity in U.S. higher education for the past four and a half decades. Starting in 1970, the Carnegie Commission on Higher Education developed a classification of colleges and universities to support its program of research and policy analysis. This framework has been widely used in the study of higher education, both as a way to represent and control for institutional differences, and also in the design of research studies to ensure adequate representation of sampled institutions, students, or faculty.

In parting...Chancellor Divina Grossman



Chancellor Divina Grossman officially stepped down from her leadership position at UMass Dartmouth on December 24, 2015.

She leaves a legacy of action. She undertook a comprehensive strategic planning initiative that resulted in UMassDTransform2020, a plan that involved the entire UMassD community and external constituents. Major priorities were identified and strong progress was made on a number of fronts.

Under her watch, the University broke ground on the expansion of the Charlton College of Business and an additional building for the School for Marine Science and Technology. The Living Gallery project was implemented to transform the campus into an artistic and architectural destination. Other facilities projects were also completed, including the Claire T. Carney Library, the Dean Elisabeth Pennington Nursing Simulation Lab, the Hall-Hildreth

IDEAStudio, and an expansion of the Tripp Fitness Center.

Academically, the student retention rate improved from 74% in Fall 2012 to 79.4% in Fall 2015 and out-of-state enrollment increased by 4%. UMassD launched new undergraduate, graduate, and doctoral programs. Online program registrations increased by 72% over the past three years.

The University increased the efficiency of its energy systems through use of solar panels and a power co-generation system that generated close to half of its energy.

In her final Monday Message, Chancellor Grossman reflected on her time here. "I am unendingly grateful to all of you for your abiding belief in our collective vision," she said. "It is an honor and a privilege to have served as your Chancellor."



A vision of the future at SMAST

It's happening. Fall of 2017, the School for Marine Science and Technology (SMAST) will officially expand to include a 76,000-square-foot building next door to its 35,000-square-foot facility on Clark's Cove in New Bedford.

The destination space for marine science will include flexible wet and dry labs, a state-of-the-art computational facility, classroom space, break rooms, high-bay storage for large equipment, and an expanded seawater research facility. The seawater lab will offer various water conditions to address current and future research initiatives requiring a range of water temperatures and degrees of filtration. The expanded campus, which is a collaboration with the State Division of Marine Fisheries (DMF), will feature offices and research space for the DMF as well as SMAST faculty, technical staff, and students. The lobby area will encompass dynamic and electronic storytelling content of the research being produced by scientists at SMAST and DMF.

The three-tier building, designed by Ellenzweig, will prominently feature glass-based designs to allow light to flow through the entire building. "Even the labs themselves will have glass walls, so the idea is to allow visitors to view the research being produced at SMAST," said SMAST Dean Steven Lohrenz.

The work will be performed in compliance with the U.S. Green Build Council's Leadership in Energy Efficient Design (LEED) requirements and procedures to obtain a minimum LEED Silver rating, satisfy requirements of Massachusetts Executive Order 484, and meet the intentions of UMass Dartmouth's Climate Action Plan.



Business is booming at UMass Dartmouth

The Charlton College of Business is expanding.

A new 22,000-square-foot Learning Pavilion is under construction, and well timed to match innovative new degree programs at the college and continued growth in the ever popular core majors of accounting, finance, marketing, and management.

Scheduled to be open for the Fall 2016 semester, the Learning Pavilion will solve critical space needs for the business school, providing classrooms, meeting spaces, a graduate lounge, an auditorium, and technology-enhanced areas. The project is expected to cost a total of \$15 million.

Construction on the pavilion began last summer and is well underway. The structural framing is complete. All interior concrete floors are in place. The main focus for construction crews over the coming months is window installation, interior framing, roofing, and site work.

The Learning Pavilion will be the newest "green building" on campus and is scheduled to attain a LEED Silver rating. It may even reach the higher LEED Gold rating, which would be a first for the Dartmouth campus.

Charlton's academic expansion includes three new Master of Science degree programs: Accounting, Technology Management, and Healthcare Management.



Innovation incubator evolves to seize new opportunities for SouthCoast region

UMass Dartmouth's Advanced Technology Manufacturing Center, a tech-business incubator that emerged from the ashes of the devastating Kerr Mill fire in 2001 to launch more than 40 companies, has taken on a new mission and name.

Now called the Center for Innovation and Entrepreneurship (CIE), the Center has expanded its outreach to southeastern Massachusetts entrepreneurs, including faculty and students at UMass Dartmouth. The CIE will act as a "virtual incubator," providing services to start-ups located throughout the region, thus accelerating their growth.

Over the next three years, the CIE expects to incubate 25 companies on-site and 30 off-site, with hopes to graduate 10 companies, create and sustain 150 high-wage jobs, and generate \$24 million of economic activity for the region.

"This institution has long been a hub of ingenuity and progress in the region, spurring economic development and growth," said State Senator Michael Rodrigues, whose efforts played a huge role in securing the \$11.5 million state grant to purchase the facility. "I am pleased with the direction the Center for Innovation and Entrepreneurship is taking, and look forward to seeing all that it can continue to offer the greater Fall River area."



The new Learning Commons

If you build it, they will come

Students returning to campus after winter break found a brand-new study space welcoming them back to school, and they filled it instantly.

Located on the second floor of the Liberal Arts building near the Writing and Reading Center, the Learning Commons has four meeting booths, or Learning Pods, that can be reserved for 4-5 people. Because of their collaborative design, the learning pods provide multiple levels of interaction and allow for group study, casual conversation, and productive meetings. To reserve the booths, students use the new Crestron touch screen pad at each pod. The pad connects directly to ReservIt and displays availability in real-time. There is also signage indicating how to contact Computing and Information Technology Services (CITS) with questions, comments, or training.

"I've been watching the new space take shape over the last month and I love it," said Dr. Amy Shapiro, Associate Dean for the College of Arts and Sciences. "Our hard-working students deserve a great space like this to work, collaborate, and socialize."

The Learning Commons is for students, faculty, and staff to use as a "touch down" spot, and is open when the building is open. It also offers 10 open-model computer stations and a multi-function device that prints, copies, and scans documents. The new area is controlled and managed by CITS.

Internationally celebrated conservationist Jane Goodall visits UMassD



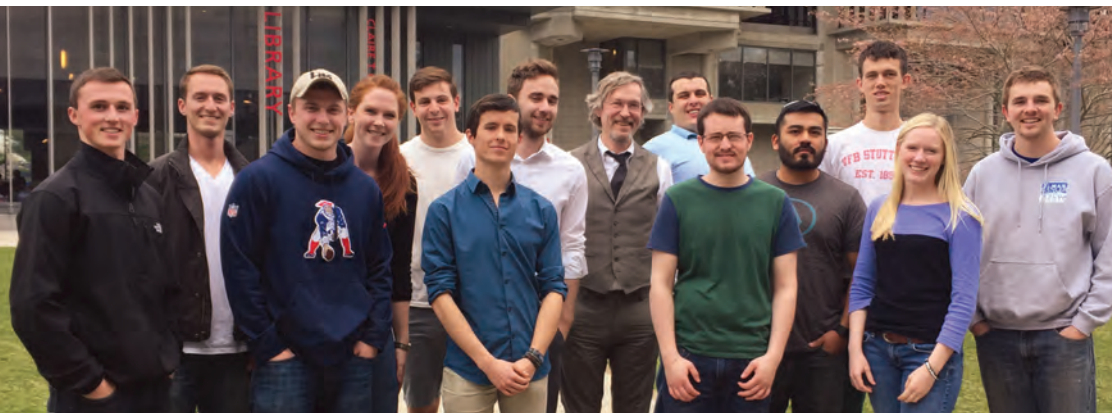
Dr. Jane Goodall, founder of the Jane Goodall Institute and a UN Messenger of Peace, visited the UMass Dartmouth campus on Thursday, April 7 for a Green Exhibit Fair, Eco Float Parade, evening talk, and book signing.

Goodall initially gained recognition in the 1960s for her work researching chimpanzees in Tanzania’s Gombe National Park. Today, she speaks internationally, inspiring individuals to recover the planet’s resources for people, animals, and the environment. Her program for young people, Roots and Shoots, was started by 12 adolescents in Tanzania who wanted to make authentic changes in their own community. The program now has thousands of participants around the

world, with children taking the first steps toward solving sustainability problems in their communities and serving as examples of hope for a more compassionate future.

The Green Exhibit Fair kicked off the event showcasing projects related to sustainability and the mission of Goodall’s Roots and Shoots program for young humanitarians. Students from neighboring towns, community members, and local organizations participated in the fair. Goodall’s evening lecture was held in the Tripp Athletic Center. The sold-out event was webcasted and can be viewed at umassd.edu/janegoodallevent.

Melanie Martin



Student funds	2014 returns
UMass Dartmouth	14.12%
UMass Lowell	10.88%
UMass Boston	7.1%
UMB grad students	3.95%
UMass Amherst	2.04%

“We don’t speculate.”

—Professor Michael H. Anderson

Student investors win with long-term, value investing

Buy low, sell high. That standard investment advice is hard to follow, as any victim of a bear stock market will testify.

But year after year, students who manage the UMass Dartmouth Student Investment Fund close with a gain. Last year, they also bested their competitors at UMass Amherst, UMass Boston, and UMass Lowell by achieving a 14.12% increase. UMass Lowell gained 10.88%, UMass Boston, 7.1%, UMass Boston graduate students, 3.95%,

and UMass Amherst, 2.04%.

That first-place win followed a strong performance in fiscal year 2014, when the fund value shot up 21.03%—second only to UMass Boston’s 23.97% rise, said Professor Michael H. Anderson.

The investment fund started in 2008 with a \$25,000 grant from the UMass Foundation to each of the four campuses. Since then, UMass Dartmouth has generally ranked second or third in performance, bringing the fund to nearly

\$50,000 with about two dozen stock positions.

For the past two years, the fund has been managed through Finance 301, a class co-taught by Anderson and Associate Professor Duong Nguyen. Students of any discipline can learn investments basics by joining the Student Investment Club, which initially ran the fund and meets twice monthly after the finance class. Anderson now sees the Club as an opportunity for students to learn enough to join the class.

To manage the fund, students are charged with outperforming the S&P 500. They take only long positions. No shorts, margin buys, foreign stocks, derivatives, or commodities are allowed.

“The philosophy is long-term value investing,” said Anderson. “We don’t speculate.”

Barbara LeBlanc



(Left to right) Bristol County Savings Bank President Patrick Murray and Michele Roberts, Executive Vice President & Community Relations Officer, join Dean of UMass Law Mary Lu Bilek and New Bedford Mayor Jon Mitchell at the opening of the New Bedford Justice Bridge.

UMass Law Justice Bridge incubator expands to New Bedford

UMass Law Dean Mary Lu Bilek and Justice Bridge Executive Director Len Zandrow joined the SouthCoast legal community on December 7 in celebration of the Law School's Justice Bridge incubator expansion from Boston to 257-259 Union Street in New Bedford, made possible by a three-year \$225,000 grant from the Bristol County Savings Bank.

Since its launch in New Bedford, the incubator has taken on 100 legal matters in New Bedford alone, ranging from housing and family court matters to bankruptcy and consumer cases. Since the program's launch in Boston last August, Justice Bridge attorneys from 170 communities have handled approximately 1,700 matters.

The attorneys provide discounted, quality legal help to individuals and small businesses with previously unmet needs, especially in matters involving housing, child custody, debt consolidation, and other civil cases.

Justice Bridge provides mentors, office space, technology, and support staff for newly minted attorneys to launch their own successful small and solo practices. It supports 14 attorneys (7 based in Boston, and 7 based in New Bedford), in addition to 42 legal mentors with more than 30 years of experience on average and more than a dozen of whom provide in-residence help in Justice Bridge offices on a regular basis. There is also a satellite operation in Taunton.

First UMass Law student awarded Rappaport Fellowship

The Rappaport Fellows Program in Law and Public Policy provides paid summer internships to talented law students from seven Greater Boston law schools interested in public service. In 2015, Megan Beyer became the first UMass Law student ever to be awarded a Rappaport Fellowship.

"It was wonderful to see her representing UMass Law among this very accomplished group of law students," said Leslie Becker Wilson, Esq., who serves as UMass Law's Director for Legal Career

Services. "Megan is interested in ways to combat human trafficking, and through her fellowship, she interned in the Mayor's Office of Women's Advancement (MOWA) where she was able to work on several projects, one of which focuses on gender equality in Boston and closing the wage gap between men and women."

During her internship, Megan worked with Local 26 Boston Hotel & Food Service Union, the largest hotel union in Boston, to identify specific areas that could

be changed through the union that would help decrease human trafficking—by implementing video cameras at the front desk, and training hotel staff on the issue of human trafficking.

"Working with the team, and our leader Megan Costello, I felt that I was instantly a part of a bigger picture," Megan said. "Life moves fast in City Hall, especially in Boston. When



you are able to see how changes in a concrete building can really impact the entire city, you work a little harder."

Megan chose to attend UMass Law because of its strong mission of public interest. Wherever she lands after earning her law degree, she knows it will include work for those who need the most help. Her Rappaport internship is a great example: MOWA has continued the work she began.

UMass Law continues growth of 3+3 programs

UMass Law signed an articulation agreement with the Massachusetts College of Liberal Arts (MCLA) to establish a joint program leading to a Bachelor's Degree and a Juris Doctor Degree. The 3+3 Program allows students to substitute their first year at law school for their senior year as an undergraduate, thus earning their Bachelor's Degree and Juris Doctor Degree in six years as opposed to seven.

MCLA joins Fitchburg State University, UMass Boston, UMass Lowell, and UMass Dartmouth as the fifth Massachusetts public college/university to establish this agreement with UMass Law.

This partnering academic program allows both institutions to better serve the citizens of the Commonwealth and lend an advantage to their individual efforts to recruit outstanding students.

"We are very pleased to see this program expand to another institution of public higher education in Massachusetts," said UMass Law Dean Mary Lu Bilek. "Our 3+3 Program supports our mission to ensure access to an affordable legal education for students who hope to pursue justice and serve others through the practice of law."

The 3+3 Program is for MCLA students with a strong interest in law, or who develop an interest

early in their undergraduate education, and whose career goals and legal education needs can be well-served by UMass Law. Students may be admitted to the program as juniors upon meeting a number of requirements, which include a cumulative grade point average of 3.0 or better, a minimum score of 150 on the Law School Admission Test (LSAT), recommendations from the College's members of the Joint Programs Committee, fulfillment of all admissions requirements normally imposed by the Law School, and at least two semesters of undergraduate pre-law advisement.



Headed for a brighter future on roads made with recycled asphalt mixture

Civil and Environmental Engineering Professor Walaa Mogawer has received \$550,131 in grant funding from the Massachusetts Department of Transportation (MassDOT) to evaluate the performance of a New England asphalt mixture designed using asphalt binders modified with Re-Refined Engine Oil Bottoms (REOB). REOB is recycled engine oil that has been experimented with in asphalt mixtures for more than three decades.

Dr. Mogawer, director of the UMass Dartmouth Highway Sustainability Research Center (HSRC), will test whether REOB can meet certain performance grades and withstand the low temperatures of Massachusetts and surrounding states.

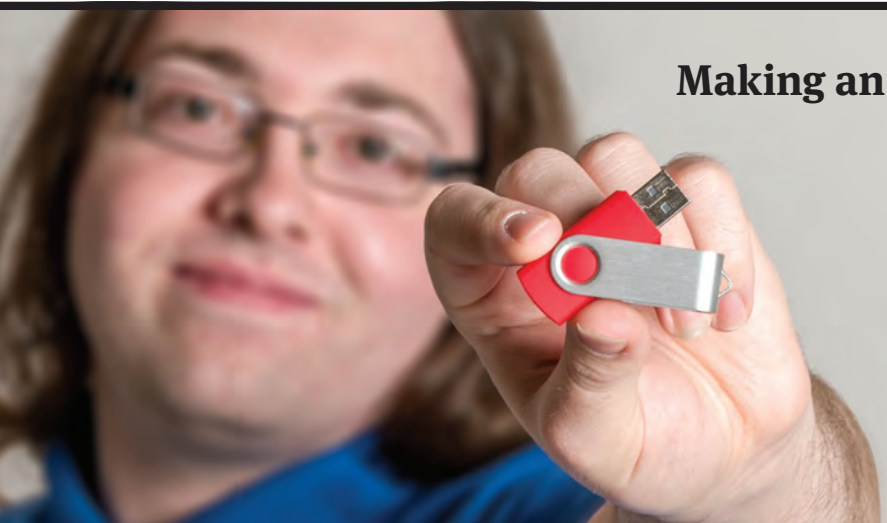
“The goal, as is the case with all research done at the Center, is to maximize the use of recycled material without compromising performance,” said Dr. Mogawer. “This funding allows us to further explore how we can

“The goal...is to maximize the use of recycled material without compromising performance.”

improve the roads, bridges, and highways we drive on every day. The work of HSRC is committed to a future of pavement construction attained through sustainable, eco-friendly, and economical means.”

Utilizing the latest asphalt and pavement testing equipment and technology, Dr. Mogawer and his team will put two REOB sample binders through stress tests to see if they meet the short- and long-term standards set by the American Association of State Highway and Transportation Officials (AASHTO). The two-phase study will help address the minimum and maximum REOB dosage required to reach

the target performance grade, the effects of the maximum dosage on New England roads after short- and long-term aging, and how REOB compares to other similar products.



Making an impact outside the classroom

Daniel Noyes BS '15, MS '16

won one of just two awards in the student poster competition at the Advanced Cyber Security Center's conference in Boston this past November. His research analyzes the security of USB technology and was inspired by a project for a network security course. Electrical & Computer Engineering Professor Paul Fortier served as one of Noyes' advisors and worked with him over the past year to help refine the concepts and potential solutions for his research. “If he takes the project to a desired goal of constructing a hardware implementation, this could become a real product to solve a real-world problem.”



Undergraduates conduct marine research in new summer program

UMass Dartmouth has received a \$343,070 grant through the National Science Foundation's (NSF) Research Experiences for Undergraduates (REU) Site Grant Program to provide hands-on research opportunities. UMass Dartmouth faculty mentors will work with undergraduate students interested in marine biology, fisheries oceanography, and estuarine and ocean science. Led by UMass Dartmouth Biology Professor Nancy O'Connor, the "Integrative Marine Biology for the 21st Century" project will support 10 students for 10 weeks during the

"This is a wonderful opportunity to spark interest and engage the next generation of marine biology researchers"

summers of 2016-2018.

"This is a wonderful opportunity to spark interest and engage the next generation of marine biology researchers," said O'Connor, who will be joined in overseeing the program by UMass

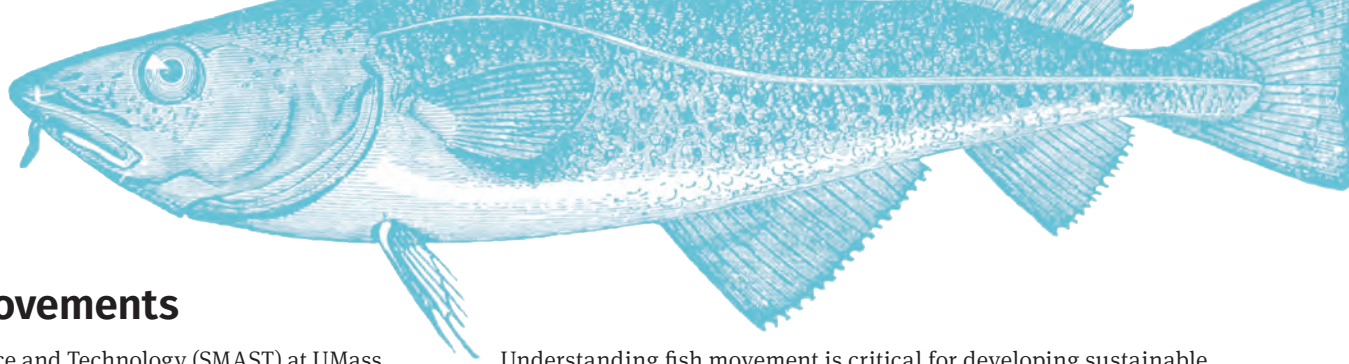
Dartmouth Biology Associate Professor Tara Rajaniemi.

Student participants will be recruited from schools in southeastern Massachusetts, as well as from a national pool of applicants.

Those enrolled in the program will attend weekly workshops that focus on research proposal development, research ethics, and career preparation. The students will learn how research is conducted and keep blogs of their work over the course of the 10-week program. Many will be invited to present the results of their work at scientific conferences at the end of the summer.



Biology Professor Nancy O'Connor (top) and Associate Professor Tara Rajaniemi (above) are teaming up to offer undergraduate research opportunities in "Integrative Marine Biology for the 21st Century," funded by an NSF grant.



Tracking fish movements

The School for Marine Science and Technology (SMAST) at UMass Dartmouth focuses on interdisciplinary marine sciences and developing related innovative technologies.

Researchers at SMAST interact with regional industry, the scholarly marine science and technology communities, and government and non-governmental agencies on compelling regional marine-related issues and technological development.

Geolocation is the process of taking data recovered from a fish archival tag and estimating positions between release and recapture. This data can provide insights into catchability and fishery interactions.

Understanding fish movement is critical for developing sustainable fishery management practices, while also improving the cost-effectiveness and capacity for observations.

The resulting geolocation methodology will be made available to other scientists by public distribution of an open source, web-based tool, thereby improving collaboration between fisheries researchers from a variety of research institutes and continuing to advance the field of geolocation.

The project is funded through the NOAA Fisheries 2014-2015 Saltonstall-Kennedy (SK) Grant Program, focusing mainly on the Gulf of Maine/Georges Bank.

Assessing stock and habitats

SMAST researchers have received funding from the Environmental Defense Fund (EDF), Mid-Atlantic Fishery Management Council, New England Fishery Management Council, and the Science Center for Marine Fisheries (SCeMFIS) respectively for collaborative research focused on improving stock assessment and understanding fisheries habitat.

Analysis of fishery dependent data use in stock assessment

Amount: **\$20,116**

Principal Investigator:

Catherine O'Keefe

Developing and testing stock assessment models for black sea bass using stock synthesis

Amount: **\$68,768**

Co-Principal Investigators:

Steve Cadrin and **Gavin Fay**

Mapping the distribution of Atlantic cod spawning on Georges Bank using fishermen's ecological knowledge and scientific data

Amount: **\$74,536**

Co-Principal Investigators:

Steven Cadrin, Gregory DeCelles,
and **Douglas Zemeckis**

Reducing the catch of juvenile haddock

Professor Pingguo He is joined by other researchers at SMAST, the Massachusetts Division of Marine Fisheries, and the fishing and fishing gear technology industry in a research effort to design and test a new system for reducing the catch of undersized haddock.

The research, funded through the 2014-2015 Saltonstall-Kennedy (SK) Grant Program, will test a modified Norwegian grid system on the Georges Bank haddock fishery. Adapting this system to the fishery will help improve the size of haddock caught by fishing vessels by allowing juvenile haddock to be released from the trawl before reaching the ocean surface. The catch reduction of juvenile haddock will lead to a healthier stock of haddock and robust fisheries resources.

Professor He and the research team will conduct comparative fishing trials using a commercial fishing vessel, and will utilize video observations of the grid system to understand the behavior of fish and their escape from the grid during different phases of fishing operations.



Pingguo He
Professor, Fisheries Oceanography



Timothy Walker
Associate Professor, History

Sailing to Freedom: New Bedford and the Underground Railroad

The National Endowment for the Humanities (NEH) awarded Principal Investigator Timothy Walker and Co-Principal Investigator Lee Blake a \$178,000 grant for their project “Sailing to Freedom: New Bedford and the Underground Railroad.” Two one-week workshops bring together distinguished historians, literary scholars, art and architectural historians, and anthropologists to highlight the national influence of New Bedford within the 19th-century abolitionist movement, the town’s unique role in the Underground Railroad, the development of its prosperous African-American community, and its maritime history and culture.

“This is a collaborative project between UMass Dartmouth, the New Bedford Historical Society, the New Bedford Whaling Museum, the Rotch-Jones-Duff House Museum, and the National Whaling Historical Park,” said Walker. “The workshops tell the story of African Americans, the maritime trades, and the abolitionist movement in New Bedford between 1800 and 1865.”

The project initially received a \$178,000 “Landmarks in American History and Culture” grant by the NEH in 2010 to support workshops in summer 2011, and has since been successfully awarded two additional “Landmarks” grants in comparable amounts to present the “Sailing to Freedom” program in 2013 and 2015.

What’s trending now?

Nora Ganim Barnes, director of the Center for Marketing Research at UMass Dartmouth, recently released the 2015 annual report of social media usage trends among Fortune 500 Companies. The study demonstrates use tendencies of platforms and tools (Google+, Instagram, YouTube, and Pinterest), business networking platforms (LinkedIn and Glassdoor), and indicators of engagement such as the number of Twitter followers.

2015 key findings:

- **103 corporations (21%) had corporate blogs, down 10% from 2014.**
- **Twitter is more popular than Facebook (78% vs 74%).**
- **Glassdoor (87%) has joined LinkedIn (93%) as a popular business tool.**
- **The use of Instagram has increased by 13%.**

“America’s largest companies are actively reevaluating the social media tools they employ,” said Barnes.

“These changes should be of major interest to social media platforms—who rely heavily on corporate advertising and use—and to smaller companies, who typically follow the lead of their larger competitors and partners.”



Nora G. Barnes (center)
Chancellor Professor of Marketing

Diversifying the nursing workforce

Professor Barbara Weatherford and a team from UMass Dartmouth’s College of Nursing plan to increase the pipeline of diverse nurses entering the workforce to more closely reflect the increasing diversity of the New Bedford community, which has a 34 percent ethnic population.

“We need a workforce that reflects the population changes in the U.S. in order to deliver cost-effective, quality care and improve patients’ satisfaction, reduce health disparities and improve health outcomes,” said Weatherford. “Practicing person-centered care requires understanding where each patient is coming from. If you have a mix in your workforce, you’re better able to understand patients’ needs.”

The Diversity Nursing Scholars Program will engage community partners, including St. Luke’s Hospital and LifeWorks, to support employees interested in nursing as a career. On campus, nursing students will be supported with additional academic coaching, scholarships, and enrichment activities to increase the number of diverse undergraduates who graduate and enter the profession.

A “school to career” summer employment program in partnership with UMassD’s Upward Bound Program will help area teens interested in nursing and health become college ready and competitive in the pool of candidates applying for the nursing program at UMass Dartmouth.

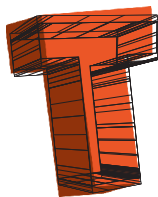


Barbara Weatherford
Program Director
Diversity Nursing Scholars Program

This project is supported by the Health Resources and Services Administration (HRSA) of the U.S. Department of Health and Human Services (HHS) under grant number D19HP28490.



Designing for Industry CVPA's new Innovation Learning Collaborative



here is a third industrial revolution happening right now. It's 3D printing and it's transforming virtually every industry right before our eyes, from architecture to automotive to fashion, jewelry, eyewear, even food.

"Students need to know there is a paradigm shift that's changing how we relate to things, art, objects, even to nature, and that it offers an incredible opportunity to shape the world through their creative endeavors," said Professional Technician Shingo Furukawa, who is leading the efforts to create 3D digital fabrication studios at the CVPA Star Store. "CVPA is producing the next generation of artists and makers. It is extremely important to expose students to the available options."

Enter the Innovation Learning Collaborative

To train students in the job skills they'll need, the Innovation Learning Collaborative (ILC) at the Star Store campus opened in September 2015. The ILC builds on the

Hall-Hildreth IDEASstudio on the main campus, which has high-quality equipment and initiated 3D digital processes at UMass Dartmouth in Fall 2013. The IDEASstudio primarily serves students from Engineering and CVPA who want to produce 3D prototypes.

"I felt it was important to give support for setting up a second facility at the Star Store since many studios here emphasize fabricating with materials such as wood, metal, and ceramics," said Artisanry Professor Susan Hamlet. Last August, she donated \$11,000 to the ILC in her mother's name, Marion Hamlet. With the funds, CVPA purchased two laser-cutting machines and three 3D printers.

"The equipment I've donated to the ILC is modest with only small-scale capabilities," said Hamlet, "yet this does provide an initial learning experience for 3D digital design and being able to see results produced directly here."

From sketchpad to table

Students see their production results in Furukawa's Digital Fabrication class. They learn modeling and making in three

dimensions, design projects using the industry standard Rhinoceros modeling software, and learn basic techniques in Computer-Aided-Design (CAD) and Computer-Aided-Manufacturing (CAM).

In a slightly advanced CAD class this semester, students focus on the translation from the CAD model in the computer to an actual product that uses the 3D printers. At its most fundamental level, it's a drawing class, as students start their project from a sketch. On another level, it's a production class, and students manufacture their artwork, such as custom-designed flatware.

In a special projects class, a new 4' x 8' CNC router—a cutting machine controlled by computer—was used to generate the wood parts of six hand-weaving looms for the *Weaving with Light* exhibit selected for the SOFA CHICAGO Expo this past Fall. The router was co-funded by the College and Campus Master Planning/Capital Projects.

"Almost all the components in this installation were designed and mapped out on the computer using CAD software, and cut



(Left) Professional Technician Shingo Furukawa demonstrates the new 3D resin printer to students in his Digital Fabrication class. (Above) Students produce flatware from initial design (bottom) to 3D production (top).

using the CNC router,” said Furukawa. “We use the new digital fabrication equipment as an extension of whatever other tools are already available, while teaching students different ways to approach design, production, and new possibilities. We encourage students to try new things out, fail, learn, and apply what they’ve learned. We encourage them to come and propose special projects that they couldn’t quite manage before without those tools.”

Absolutely essential technology

While Hamlet believes that continuing to make by hand is still significant and must continue, especially as students are losing contact with material ‘touch,’ she said the 3D digital technology fills many gaps. “It gives them the tools for making prototypes, and developing thinking for connecting with industry toward employment ahead. It’s the bridge between handmade, hand-designed, and machine-made with potential for industrial applications.”

Sherri Miles



news from CVPA | art seen



Students use the new CNC router to build weaving looms for CVPA's booth at the SOFA CHICAGO Expo.

CVPA returns to prestigious SOFA CHICAGO art fair

For the second year in a row, UMass Dartmouth's College of Visual & Performing Arts (CVPA) faculty and students presented at SOFA CHICAGO, a premier art fair in Chicago dedicated to Sculpture, Objects, and Functional Art (SOFA). Held on November 5–8, 2015 at Chicago's landmark Navy Pier, UMass Dartmouth's installation once again paid tribute to the nearby city of New Bedford, this year with the exhibit *Weaving with Light*. The interactive exhibit reflects on New Bedford's textile industry and immerses visitors in the actual production of cloth. Several operational single-person looms are arranged in a

semicircle facing a wall. The warp yarns that feed each loom rise to a rattle gathering at the top and create the illusion of an enclosed space. Opposite the looms, vintage still photos of mill buildings, interiors, and workers are projected on the wall to illustrate some of the actual operations and conditions of historic mill life.

Students who worked on the installation include MFA Ceramics student Hanna Vogel, MFA Graphic Design student Kate Dickinson, MFA Wood/Furniture Design student John Middleton, MFA Digital Media student Alec Andersen, BFA Textile Design/Fiber Arts student Christopher Rodgers, and BFA Textile Design/Fiber Arts student Tony Beal. Artisanry Professor James Lawton was the faculty advisor to the group.

UMass Dartmouth was one of six entries selected for the art exhibition, including Illinois Institute of Technology, Pratt Institute, San Diego State University, University of Cincinnati, and University of Iowa. SOFA CHICAGO ranked #7 in the *USA Today* Reader's Choice 10 Best Art Events. During the past two decades, SOFA CHICAGO has grown to attract more than 35,000 visitors every year and exhibitors from the U.S. and around the world.



TRACKING EVIDENCE of

UMass Dartmouth
puts policy and
science into action

Sherri Miles with Eileen Marum '16

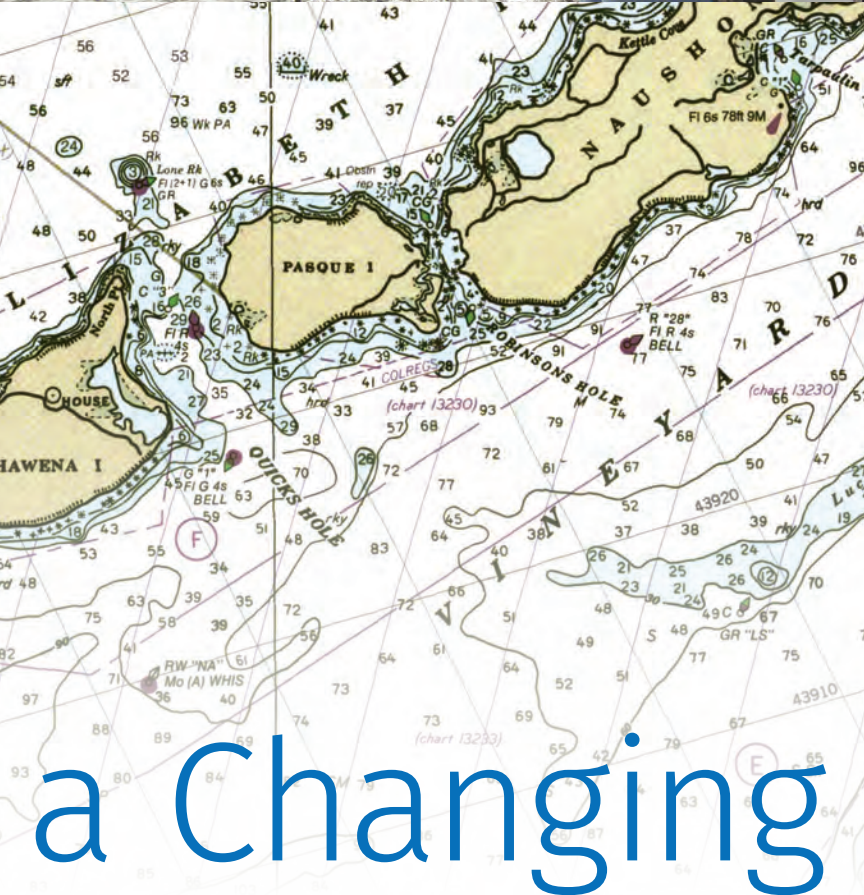
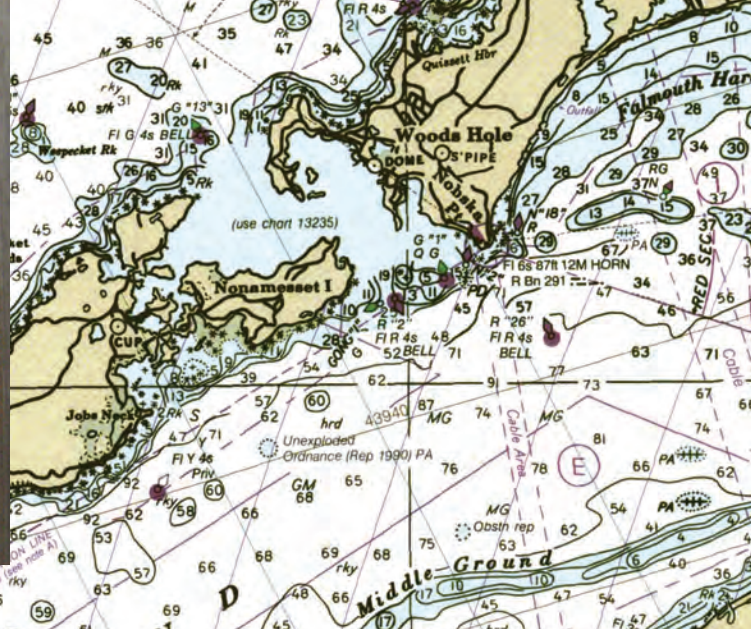
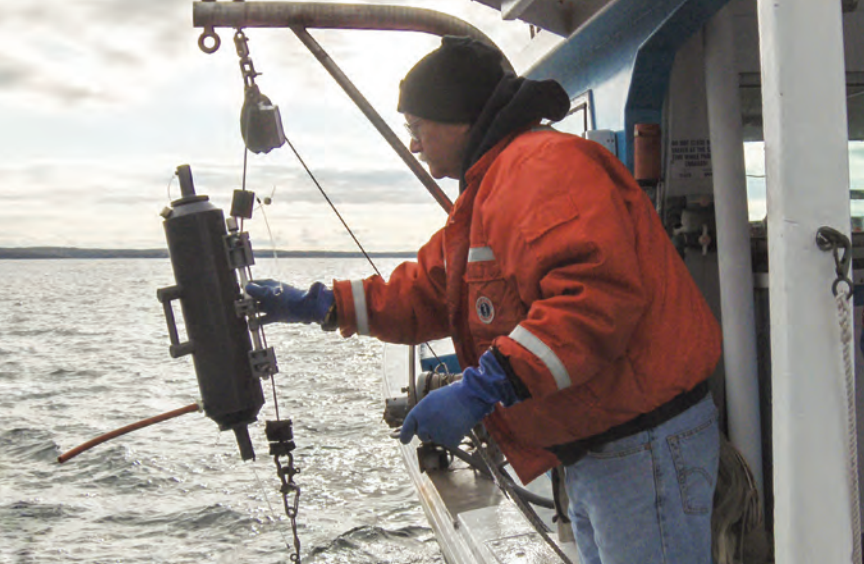
In offices and labs across UMass Dartmouth, on board a research vessel in Buzzards Bay, and at field sites near and far, scientists, engineers, policy analysts, and alumni are responding to the impact of climate change on water systems—warming seas, changing fisheries, retreating shorelines, vulnerable salt marshes, and fresh water supplies.

Monitoring the health of Buzzards Bay

The world's oceans are warmer now than at any point in the last 50 years, according to the Environmental Protection Agency. Scientists at UMass Dartmouth's School for Marine Science

and Technology (SMAST) have been sampling local waters for nearly three decades and have found evidence of warmer waters in our own backyard.

"We have been monitoring Buzzards Bay on a monthly basis since October of 1987," said Jefferson Turner, Chancellor Professor jointly in the Biology Department and in Fisheries Oceanography at SMAST. From the University's research vessel, *R/V Lucky Lady*, researchers collect samples at eight stations throughout the bay to establish monthly and yearly patterns in salinity, water chemistry, phytoplankton plants, zooplankton communities, and temperature.



(Above) The UMass Dartmouth research vessel R/V Lucky Lady leaves the New Bedford Harbor for a sampling cruise; (top) Professor Jefferson Turner collects water samples from the deck; (facing page) Dr. Christian Petitpas filters water samples for chemical measurements.

a Changing Climate

“We have seen a significant increase in May surface water temperatures over the last 28 years,” said SMAST Research Technician Christian Petitpas BS ’02, MS ’11, PhD ’15. “This significant warming trend occurs at a time of year when we are transitioning from winter/spring to summer conditions—generally the average increase in temperature from April to May is around 5°C (9°F), but we can see jumps as much as 12°C (21.6°F).”

“What the effects of this are going to be on the biology is not clear,” said Turner.

Scientists do know that changes in water temperature can alter ecosystems. Species

expand or contract their ranges as a result, or go extinct. “We’ve observed changes in the local plankton community that suggest there are potential impacts from warmer water,” said Petitpas.

Gathering data on marine life

Professor and Chair of the SMAST Department of Fisheries Oceanography Kevin Stokesbury is tracking shellfish on Georges Banks. “The first sign of climate change and ocean acidification is going to be changes in distribution. The primary reaction of animals to adverse conditions is movement.”

Using a video survey system developed for the local scallop industry, Stokesbury takes samples from the sea floor, then works with graduate students to count and identify the species in every image. “We want to know the abundance, density, size distribution, natural mortality, and the impacts of fishing.” This data can also inform climate change researchers.

“With this kind of work, you’re not going to be able to tell climate change right away. But we have absolute measures of animals per meter squared, associated with a latitude and longitude and temperature. Twenty years from



(L-R) Paul Schmid, State Representative; Paul Kirschen, Professor, UMass Boston School of the Environment; Beth Perdue, Editor, The Standard-Times; Ellen Mecray, NOAA Regional Climate Services Director for the Eastern Region

GLOBAL AWARENESS EDUCATION AND ACTION (GAEA) SUMMIT

As world leaders met in Paris at the United Nations Conference on Climate Change, concerned experts and citizens from 54 cities and towns in the region met locally in Woodland Commons to discuss the science of climate change and its impact on our region.

Guest speakers included Dr. Anthony Janetos, co-author of the *White House Climate Report*, and Amy Schatz, producer of HBO's climate change documentary *Saving My Tomorrow*. Issues ranging from "Climate Change Effects on Marine Life" to "Coastal Adaptation and Mitigation Planning" were presented by UMass Dartmouth scientists from the School for Marine Science and Technology, as well as faculty from the Charlton College of Business and the Department of Public Policy.

Regional planning agencies discussed resiliency work underway across southeastern Massachusetts, the SouthCoast, and Cape Cod and the Islands. State officials offered perspectives on measures state agencies are now executing and those being considered for the future.

"We are already seeing the impacts of climate change beginning to emerge in the form of coastal erosion, shifting fishery habitats, and flood insurance costs," said former UMass Dartmouth Chancellor Divina Grossman. "We are hopeful that this summit served as the beginning of a region-wide dialogue among citizens, policymakers, and scientists that creates awareness and action that preserves our quality of life for generations to come."

Sponsors included the Island Foundation, *The Standard-Times*, New Bedford Whaling Museum, and New Bedford Whaling National Historic Park. Partners included the Southeastern Regional Planning and Economic Development District, Old Colony Planning Council, Cape Cod Commission, Martha's Vineyard Commission, Offshore Wind, and Buttonwood Park Zoo.

now, someone can go back to the exact same spot and say, in 2004 this species was here, and now there isn't any of it," said Stokesbury.

Stokesbury also tests scallops for signs of ocean acidification, which is worsening due to increased carbon dioxide in the water as the oceans absorb greenhouse gases trapped in the atmosphere. When combined with water, carbon dioxide forms carbonic acid.

"Our two most valuable fisheries on the eastern seaboard are the Atlantic sea scallop and the American lobster," said Stokesbury. "They need calcium to build their shells for protection and growth. They have to undergo calcification, which is affected by carbonic acid—the animal has to use more energy to produce the shell." This extra energy reduces the energy available for the animal to grow or reproduce. Ocean acidification has a real impact on marine animals, including extinction.

Living on the coast and planning for the worst

Current international scientific reports estimate sea levels will rise 1-4 feet by the end of the century. Internationally, low-lying island nations such as the Marshall Islands in the Pacific Ocean are already disappearing, and on the U.S. coasts, shorelines are changing by the year.

"Sea level rise and higher storm surges are already heavily impacting coastal communities," said UMassD Associate Professor of Public Policy Chad McGuire, an environmental lawyer and policy analyst.

If residents do not retreat from the coastal zone, they will lose their property to the sea. Land-use planning in coastal areas is a first step toward mitigation and within the authority of local governments.

McGuire recommends identifying and mapping coastal erosion hazard areas and adopting regulations to control certain activities and development in those areas.

UMass Dartmouth alumnus Carl Andreassen '76, a principal hydraulic engineer and certified floodplain manager employed by Somerset County, NJ, agrees that we must retreat from floodplains and at-risk coastal zones to reduce loss of life and property damage resulting from floods, coastal storms, and the effects of climate change. In order to provide sound floodplain management, "We need to change our thinking, and move infrastructure out of flood plains," Andreassen said. He encourages a proactive approach, which includes building resilience as well as relocating at-risk infrastructure. Without such efforts, we can expect to see an increase in both the severity and frequency of flood damages.

Protecting saltmarshes from drowning

That sea level change also is affecting our wetlands. "Wetlands are our local equivalent of coral reefs," said Brian Howes, professor of Estuarine and Ocean Sciences at SMAST. Howes is particularly interested in the survival and persistence of wetlands as sea levels rise.

Salt marshes are dynamic systems that flood twice a day. They keep up with sea level rise by depositing inorganic and organic matter and growing vertically so they don't drown. However, the ability to grow vertically is finite, said Howes. And they are threatened by an accelerated rate of sea level rise.

"If the sea level rises too fast, then the plants will eventually be underwater



The new video system uses a mounted camera to capture images of fish passing through an open-ended fishing net. Researchers then review the video to count the different species, and estimate the size of each fish.

too long and they literally drown, and then you lose your marsh,” said Howes. “That’s a problem because it affects so many aspects of the coastal system. We get more than a trillion dollars of free ecological services from these systems in the United States.”

For example, salt marshes protect against coastal erosion and serve as carbon sequestration systems.

All is not lost, however, if marshes can retreat inland. This too has land-use planning implications, but also occurs naturally. Howes gives a regional example: “When you see marsh plants growing around dead trees, they weren’t there when the trees were happy and growing. Marsh plants are there now because sea level has risen. Sea level has been rising for 18,000 years and it’s rising now. The only argument that we’re having is how fast will it rise.”

Keeping fresh water safe

Fresh water is “is expected to become increasingly scarce in the future,” said Sukalyan Sengupta, professor of Civil & Environmental Engineering at UMass Dartmouth. “As surface water sources become contaminated by microbes and agricultural/industrial effluents, there is greater push to access groundwater.”

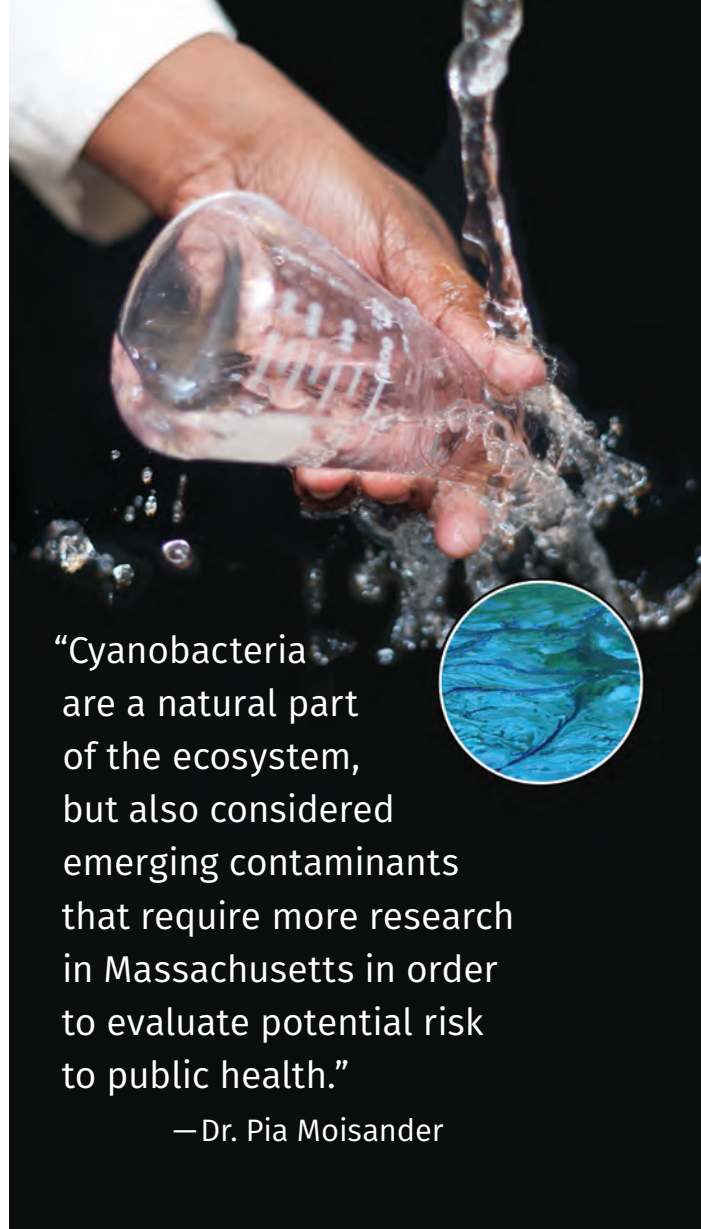
Inorganic compounds occurring

naturally can contaminate groundwater as well and become a serious issue for humans who drink it. Sengupta is developing innovative technology that removes naturally occurring arsenic and harmful levels of fluoride from groundwater. The process employs a special filtration system that meets the demand for potable and irrigation water. Countries most affected by arsenic contaminated groundwater include India, Bangladesh, Nepal, and Southeastern Asia.

Arsenic is not the only threat to water quality. Cyanobacteria, a type of microscopic photosynthetic bacteria that inhabit freshwater, coastal, and marine water, have the potential for toxicity and environmental problems, according to Pia Moisander, assistant professor of Biology at UMass Dartmouth. “If conditions are suitable, cyanobacteria can increase to excessive levels and form visible ‘blooms’ that can adversely affect water quality.”

Cyanobacteria could potentially disrupt drinking water supplies and water-dependent industries, and pose a risk to livestock, wildlife, and human health.

“Cyanobacteria require more research in order to evaluate their potential risk to public health,” said Moisander.



“Cyanobacteria are a natural part of the ecosystem, but also considered emerging contaminants that require more research in Massachusetts in order to evaluate potential risk to public health.”

—Dr. Pia Moisander

Rego engineers sustainability

Carol A. Rego, P.E. '82, vice president of CDM Smith, takes the long view of how her work today will affect future generations.

Joining CDM Smith as an environmental engineer in 1982, Rego has moved up the ranks of this full-service engineering and construction firm that works with municipalities and private clients to design and develop comprehensive water, environmental, transportation, energy, and facilities solutions.

“Currently, I am evaluating the impact of climate change on the drinking-water supply for a large city in Massachusetts,” noted Rego. “Every community we work with is different and no two situations of water-system issues are ever the same.

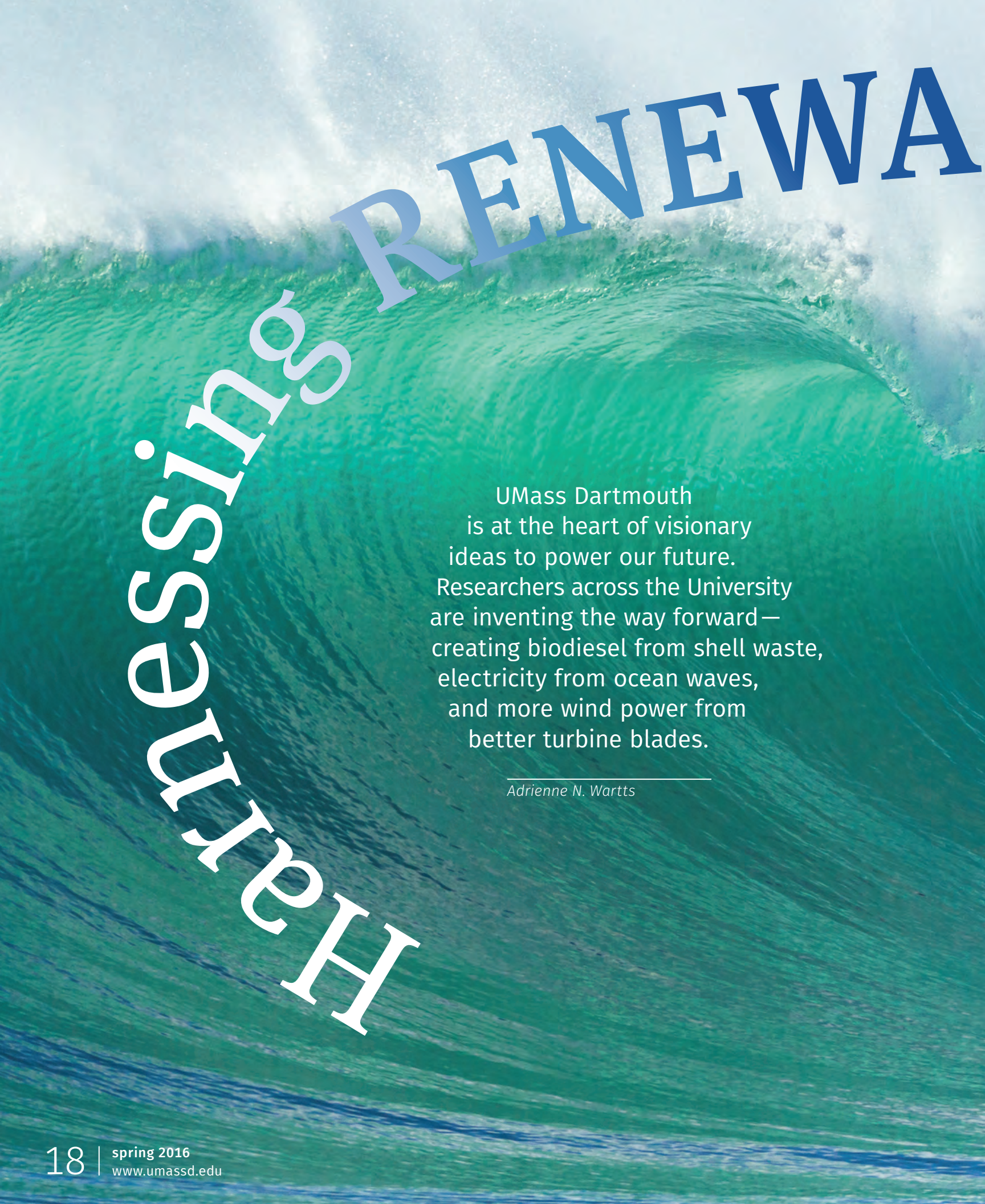
“We help clients consider interconnectedness and integration—the relationship between wastewater and available clean and safe drinking water is more symbiotic than ever. We look at how one

community’s welfare depends on a neighboring community. All sources need to be considered as resources—water supply, aquifer recharge and groundwater, stormwater, wastewater and reclaimed/reuse water.”

CDM Smith takes a two-step approach to understand whether communities are vulnerable or resilient with regard to climate change. First, they apply the latest Global Climate Models to predict local climate impacts and determine how these impacts might disrupt a community. In the second step, they develop specific adaptations to make climate-vulnerable areas into climate-resilient areas. These strategies can be infrastructure improvements, zoning or ordinance changes, planning projects, public outreach, and construction projects.

“What we do makes a difference in the quality of people’s lives,” said Rego. “I enjoy helping communities plan and implement more sustainable systems.”





Harnessing RENEWA

UMass Dartmouth
is at the heart of visionary
ideas to power our future.
Researchers across the University
are inventing the way forward—
creating biodiesel from shell waste,
electricity from ocean waves,
and more wind power from
better turbine blades.

Adrienne N. Wartts

BLE ENERGY

How do you capture energy from ocean waves and convert it into another form of useful energy? That's the question Dr. Dan MacDonald, associate professor of Civil and Environmental Engineering, posed to a group of engineering students during their capstone senior design project.

Now those students, along with principal investigator MacDonald and former graduate student Brandon Green, are inventors of a wave energy converter (WEC) design that is in the process of being patented.

"I challenged the students to come up with the design of a device that would be easy to maintain, low cost, and attachable to something already in the shore—such as a dock, breakwater, or other type of fixed infrastructure—to allow for the capture of small amounts of energy," said MacDonald.

After several designs were proposed, MacDonald said, "They finally came up with this really nice variation on a point absorber WEC, which captures ocean wave energy if you have two objects moving against each other. So one object is held to the ground or attached to the dock, and then a buoy, which moves up and down in the water, can be attached to that fixed part to capture energy."

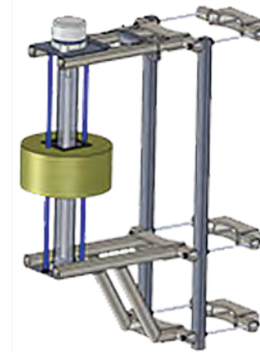
The same WEC design could be used on a mooring where it would generate enough energy to power ocean sensors so batteries don't have to be replaced as frequently. The device also could provide small amounts of power to telecommunications stations in coastal areas.

MacDonald is also in the process of pursuing a second wave energy patent. This point absorber technology method involves replacing underwater-mounted steel spars with a much simpler design using a tether WEC device. "This tether design overcomes some of the complexities involved with both construction and deployment of the heavy steel spar, which can typically be 50 feet or more in length," said MacDonald.

Additionally, the design drastically lowers the cost of point absorber systems by eliminating the large amounts of steel necessary to form the spars. "This new method will drive down the cost a lot, and still provides electricity from waves."

While both of these distributed energy systems currently provide a trickle of power, with more research and advanced designs, the WEC and point absorber technology may soon become an environmentally friendly way of acquiring large amounts of electricity. "Right now, the designs can only capture a limited amount of energy from waves. But we are finding that this is broad technology that can actually be applied on a much larger scale," said MacDonald.

Mehdi Raessi, assistant professor in the Department of Mechanical Engineering, and a collaborator with MacDonald on



Dr. MacDonald's low-cost WEC device captures small amounts of ocean wave energy as two objects move against each other.



these projects, said, "Using wave energy converter devices to capture ocean wave energy is a significant resource for renewable energy." Raessi teaches a wave energy conversion class that focuses on the mathematics of wave energy. "The resource is vast if we look at the exploitable wave energy. It can supply one-third of the electricity demand in the United States, but it has remained untapped for several reasons, mainly cost."

Design and development of a WEC requires very expensive testing. "Because of this, we have developed an advanced computational tool with funding from the National Science Foundation that can simulate a real-life scenario and can be used to complement and leverage the experimental efforts," said Raessi. "With computational modeling, if a designer has five different ideas, before diving into the experimental step, the designer can study these five models computationally and select the idea believed to be the most promising versus testing all of the experiments."

This spring, the Seaport Economic Council awarded UMass Dartmouth \$239,898 to support more research and development in wave energy conversion technology. As noted by the Commonwealth of Massachusetts, "The research has the potential to dramatically reduce manufacturing and deployment costs associated with traditional wave energy generators, making devices smaller, easier to use, and more cost effective."

"In the future, ocean wave energy may be used for more than just producing a little electricity to run something local," said MacDonald. And UMass Dartmouth is at the crest of this wave.



From shellfish to biodiesel

The Corn Belt region of the Midwest has greatly benefited from the biofuel boom. The next biodiesel frontier may be here in Massachusetts.

Chris Brigham, UMassD assistant professor of Bioengineering, has developed a process that modifies soil bacteria and then uses that bacteria to convert shellfish waste into biodiesel. The process involves taking the fats from bacteria and adding genes, which then allows the bacterium to consume the carbon from shellfish wastes.

The project is concentrated in the New Bedford region, where, Brigham said, “There is a lot of lobster processing and shell wastes. As bioengineers, we are interested in looking at seafood-processing wastes, and converting shells from lobsters, shrimp, and crab into something that is sustainable.”

Brigham works with undergraduates and graduate students in his laboratory to refine and enhance process efficiency. In terms of sustainability, Brigham said the idea is to produce a local carbon cycle from the breakdown of shells so fisherman can basically fill their fuel tanks with what comes from lobster shells and other shellfish. Biodiesel is cleaner burning because there are not the sulfur-containing additives that are present in petroleum-based fuels.

Bioengineering Professor Chris Brigham (right) brought UMass President Marty Meehan (left) on a tour of the recently renovated bioengineering laboratories. Undergraduate and graduate students work with Brigham and other faculty on cutting-edge research.

Better blades, more wind power

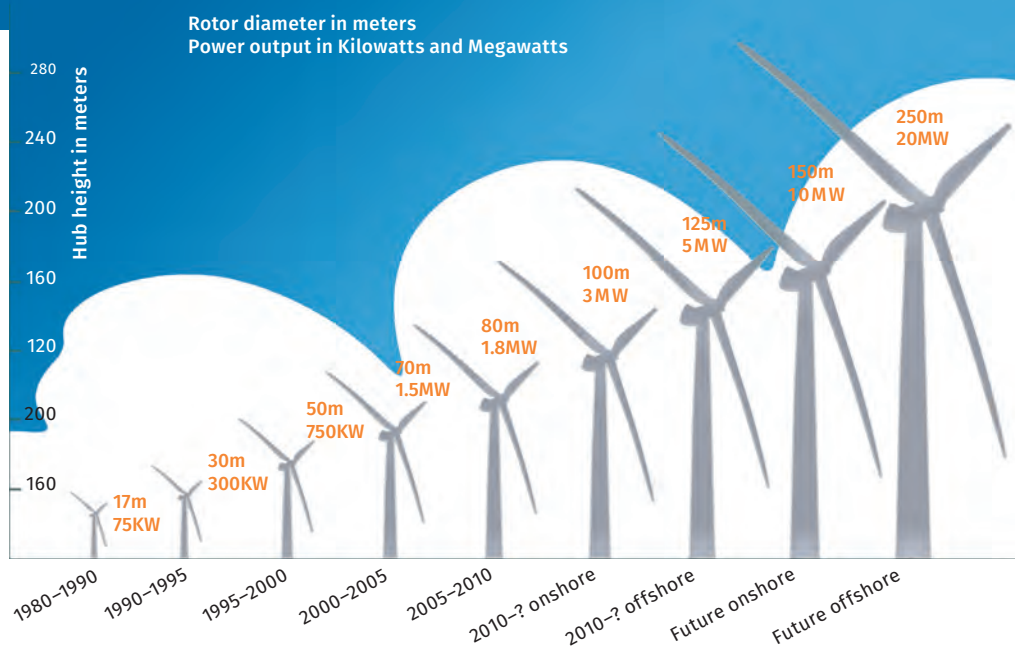
UMass Dartmouth professors are developing ways to keep adverse weather from affecting the efficiency and safety of wind turbines. In the 1980s, wind turbines were approximately 40 meters high. With considerable improvements in composite technology, manufacturers can now build large-scale wind turbines with larger blades lightweight enough to rotate and strong enough to withstand high winds. Today’s wind turbines can reach 240 meters high, with blades 100 meters long.

While these larger-scale turbines rotate faster and harvest more energy, the blades are susceptible to damage. “When raindrops, sand particles, or hail droplets hit the turbine blade surface, they cause erosion, which in turn lowers the hydro-dynamic performance of the blade,” said Dr. Mazdak Tootkaboni, assistant professor in the Department of Civil and Environmental Engineering and principal investigator on the rain-induced erosion project. “Wind turbines with eroded blades don’t perform as well, and disposal of the eroded blades can be damaging to the environment.”

Dr. Mehdi Raessi, assistant professor of Mechanical Engineering and collaborator on the project, said one option is to tape on the blade. However, “the main solution involves replacing the whole blade-set, which is costly.” Removed blade-sets can be dumped in a landfill, or recycled. “But only 10 percent can be recycled. Or, it can be burned and used as chemical energy, but these solutions aren’t environmentally friendly.”

Seeking an alternative, Tootkaboni and Raessi began working with UMass Lowell

The increasing size and power of wind turbines



professors who design protective coatings for wind turbine blades. Raessi brings his computational fluid dynamics proficiency to the project, and Tootkaboni brings his skills in stochastic computations and computational solid mechanics expertise. “The only way to test designs for rain-induced erosion is to develop a computational model that uses mathematical modeling to build realistic models of rain texture,” said Tootkaboni.

In addition to protecting wind turbine blades from erosion, blades must be protected from cold climates, particularly in the north where there is more wind energy to capture. Raessi, in collaboration with professors at UMass Amherst, is principal investigator on a project funded by the National Science

Foundation, which explores combating ice formation on wind turbine blades. “In Finland, studies show that nearly every wind turbine site has to be shut down due to ice formation in the winter,” said Raessi. If the blades are turning with ice formation, and the ice detaches from the blade, not only is the efficiency of the turbine significantly reduced, the detached ice can damage buildings or result in injury.

“There are different ways of tackling this issue, such as using electric heaters to melt the ice,” said Raessi. “What we are doing in this project is developing a super-hydrophobic surface that repels water and avoids ice formation. This involves reducing the contact time between the water droplets and wind turbine surface to reduce the chance of ice formation.”



Students in Action

Engineering ingenuity helps Panamanians

Water. A necessity. A basic human right.

In Summer 2015, a group of UMass Dartmouth engineering students traveled to Panama to continue the vital water project that will support the 500 indigenous Ngobe People of Valle Las Perlas.

Casey Snook '16, Johnnie Gomez '17, Zachary Aaronson '16, and Christopher Griffin '16 were developing the schematics partly designed by UMass Dartmouth's last group of students. Working through muddy and mountainous terrain, the four helped survey the land and assess the distribution of water.

These calculations were vital in determining the exact pressure of water that will flow through the pipes, which will soon be installed. While better pipelines will improve the water delivery to the village, the students also had the important task of testing and ensuring the water's quality. They used special equipment to document pH levels, turbidity, and *E. Coli* counts.

The project provided the students with valuable practical experience, a greater world view, and a chance to use their ingenuity. Breaking from the traditional meetings previously held in town, this group went door-to-door in the village with trip translator, Jacqueline Buenrostro '14. They developed a stronger, genuine, international communication between UMass Dartmouth and the village of Valle las Perlas.

The network of alumni and students involved in this project continues to grow and continues to pass on important information to the next team. Next year will mark the fifth trip of UMassD students participating in this Engineers Without Borders project to help the village of Valle las Perlas rehabilitate their water distribution system.

Aubrie Brault '15

Clockwise from top: Chris Griffin '16 and Water Board President Fernando admire the islands of Bocas del Toro; the team hikes in the jungle to follow the pipeline; Casey Snook '16 puts bacteria culture growth medium on sterile pads in petri dishes to test bacteria levels in water samples; and the team examines technical drawings of the village.





Greener by Degree

Students minoring in Sustainability address a timeless question: how can communities and economies meet the needs of the current generation in a way that future generations can also thrive?

Too large for a single field of study to answer, the question has implications for every walk of life—from how buildings are designed and products are manufactured to how resources are procured and goods and people transported. It affects how ideas are communicated, policy is made, and even how societies are organized. And it requires experts in all those fields to work together.

The big, interdisciplinary picture

“Students majoring in science, for example, should know something about how sustainability interacts with running a business or promoting women’s rights or designing an advertising campaign,” said Tara Rajaniemi, associate professor of Biology. “When those students graduate and get jobs as scientists, they will be able to collaborate with business people, advocates, and designers because they’ll understand where those people are coming from.”

Established in 2008, the Sustainability minor is the University’s largest and fastest growing minor, said Robert Darst, program director and associate professor of Political Science. Nearly 70 students from fields including engineering, arts and sciences, and business are enrolled.

“Climate change is central to the lives of millennials and post-millennials,” he said. “They are really interested in it.”

Darst expects the program to continue to expand, as businesses increasingly seek employees who can help them meet growing pressure from investors, government regulators, and consumers for green, sustainable practices. In fact, UMass Dartmouth is hoping to add an Environmental Science and Sustainability major as early as Fall 2018.

A curriculum for all majors

Students in the minor study sustainability as it relates to transportation, design, the business supply chain, alternative energy, and public policy. Engineering and science students learn how sustaina-

bility and climate change affect communities. Humanities students learn the science behind climate change and sustainable practices, and how to communicate it in a way that non-scientists can understand.

Jerry Blitefield, associate professor of English, said he started studying the rhetoric of the environmental debate when he found he could not refute a colleague’s claim that climate change was a hoax. Now, he helps students analyze those arguments in his Principals of Sustainability and Environmental Communications classes. “We need to know how to read or hear discourse from others and challenge it critically,” he said.

Effective communication has a concrete purpose in Professor Pamela Karimi’s class, Architecture and Sustainability in the American Post-Industrial City. Using New Bedford as a laboratory, students are learning to plan a historical park, from grant writing through design. “The course promotes the historical consciousness of the built environment while also advocating a better future with sustained life,” Karimi said.

Rachel Kulick, associate professor of Sociology, challenges students to imagine a different world in her Sustainability in Action class—a world that is “less about stuff and more about relationships and communities,” she said.

Chad McGuire, associate professor of Public Policy, has his students researching the policy implications of subsidized national flood insurance. They are preparing a white paper connected to his research on the impact of sea level rise on coastal communities. “We want students to have a broader understanding of the field they are going into,” he said. “A business major may be interested in expanding corporate success. Sustainability helps them consider what corporate success means in a broader, social context.”

Fast fashion, for instance, may produce t-shirts that can be sold profitably at \$5 apiece. But companies don’t account for the hidden costs of making that shirt, such as the environmental degradation caused by processing cotton, he said.



Students learn about renewable energy, urban development, transportation planning, natural resource and land use, and the food system.

Applied knowledge makes an impact

Students are challenged to put what they learn into action, both through class and the campus sustainability program. They have designed trail guides for the trails on campus, established a food pantry for students, and worked on community gardening through the Cedar Dell West Community Garden on campus and a garden they are establishing at New Bedford High School.

Students also have researched ways the University can reduce its carbon footprint and save money through sustainable practices. One group discovered that 54% of trash thrown out on campus could be recycled or composted—but only after examining more than a ton of trash, said Rajaniemi.

Students who take the minor are finding that they are in demand. Brittany Doherty '14, who majored in business and minored in sustainability, works with the Sustainability Roundtable Inc., a Cambridge firm that helps major corporations develop sustainable practices. She also earned a graduate certificate in Environmental Policy from UMass Dartmouth.

"The executives of these companies tell me they wish they could have received that training when they were in college," she said. "I really like the big picture approach to both economics and human rights—and how sustainability practices can make lives better."

Barbara LeBlanc



Recycle, Resell, and Redistribute

- 6,000 pounds of clothing
- Two 40-foot trailers full of household goods
- 27 shopping carts full of food

The New2U Program collected an impressive array of reusable items last spring from students moving out of the residence halls—enough for a giant yard sale when school reopened in the fall.

"The students, especially first-year students, are the big winners," said Katrina Martel '16, who planned the New2U Program over the past two years. "They get useful items at 20 percent of the retail price, and the upperclassmen working the yard sale can advise them on what they will and won't need."

"But really, everyone wins. The students get items they need for less money, New2U creates jobs for the student workers at the yard sale, the environment benefits from the tons that don't end up in a landfill, and the University saves money from the reduced trash load."

"We could not have run this project without Katrina," said Jamie Jacquart, assistant director of the Office of Campus Sustainability and Residential Initiatives, the sponsoring body for New2U. "She spent two years sweating all the details, from determining the optimal placement of collection bins, to measuring elevators to make sure the bins fit, to advertising the program, to scheduling 40 people to work in 14 buildings over 18 days. It was an enormous amount of work, and her meticulous planning put us on a firm foundation for this program to continue for many years."

Katrina and her team sorted and



And a giant stuffed gorilla hand.

organized the items they collected. They donated most of the clothing to Gifts to Give, a local charity, and donated the food to the UMassD Students Helping Students Food Pantry to distribute.

"But we held on to the winter jackets, and sold them to the International students," said Katrina. "Many of them have never experienced winter, so they not only didn't have proper clothing, they didn't know what proper clothing looks like. So we were able to sell them coats that will serve them well. That was an unforeseen program benefit."

And the giant gorilla hand? "It was the weirdest thing that anyone left in the collection bins," said Katrina, shaking her head. Then she laughs. "But someone bought it!"

Mike Mahoney



Jacob Vaillancourt
at his Waste Hub site

Green makes \$ENSE

Green. It is the color of environmental stewardship. It is also the color of money. Recent UMassD grads Jacob Vaillancourt '12 and Ellisha Alexina '11 are proof that these two pursuits, far from being mutually exclusive, are actually supporting each other in new and inventive ways.

At the hub of waste management solutions

When Waste Hub Chief Operating Officer Jacob Vaillancourt '12 conceived his business, little did he know the company would provide a platform that sets a new global standard for managing industrial waste.

The UMass Dartmouth alum pursued his studies at the Charlton College of Business and earned a degree in Operations Management.

After graduating, he co-founded the technology and waste management company with a vision of a green and sustainable future.

One facet of the business involves Waste Hub acting as a marketplace to help companies reduce the multiple costs of waste by using a transparent yet efficient transaction method.

But primarily, Waste Hub delivers personalized and unique solutions for waste reduction for a broad range of clients. Waste Hub signs a master service agreement with a manufacturer, who then assigns one or more waste streams to Waste Hub to analyze and identify elements within the material that can be used in other industrial processes.

"We then sell it to other industries as is, or help to implement production changes to get the waste stream into a more salable form," said Vaillancourt. In essence, Waste Hub converts a disposal cost into a material that is sold and generates revenue. "So we not only save companies money, we also make them money," said Vaillancourt.

One of the projects the company managed last summer involved a very strong personal connection for Vaillancourt. In June 2015, he partnered with his alma mater on its efforts to improve its sustainable presence. This recycling challenge involved managing the diversion of a waste stream from UMass Dartmouth, an effort that led to preventing approximately 650 pounds of used mattress pads from filling the landfill. The solution? "The used mattress toppers were recycled into carpet pads," said Vaillancourt.

When asked what transformed his entrepreneurial spirit into a reality, the 27-year-old said that the Indic Studies 444 course he took "really opened my eyes to the need of sustainable business practices in the global marketplace, including in emerging markets."

Consistent with the growing need for sustainable measures, Charlton has become a leading initiator. In 2010, UMassD became the first public university in the world to publish an A-level Global Reporting Initiative report, an accomplishment that continues to this day. This was accomplished with the University's business chapter of NetImpact.

Also, under the leadership of Dr. Steven White, professor of Management and Marketing at Charlton, a graduate certificate in Sustainable Development was launched.

"As a college, we believe that social responsibility and sustainability are becoming the foundation on which all future economic



and business ventures will be built,” said White. “The Triple Bottom Line (Social, Ecological, and Economic) focus leads to best practices in protecting the 3 P’s: people, planet, and profits.”

This mission is evident in young entrepreneurial graduates of Charlton such as Vaillancourt, who said, “We are finding success in the industrial world and the mattress recycling project at UMassD is one of the many examples.”

The young visionary of the fledgling, yet burgeoning, Waste Hub company said his objective is largely environmental. “Our primary goal is to help the environment,” said Vaillancourt. “For us, though, the best way to do that is to make it profitable for others.”

That vision is achieved by blending ideology with practical business sense that provides environmental and monetary returns.

Vaillancourt’s connection to his alma mater continues. Starting in April, Waste Hub will have lab space at UMassD’s Center for Innovation & Entrepreneurship in Fall River.

Visit: www.waste-hub.com

Adrienne N. Wartts

Designing success

Near the end of her senior year, textile design major Elisha Alexina ’11 was totally frustrated with her thesis project. So she took a deep breath, and deliberately broke every rule she’d been taught. “And she produced some of the most beautiful fabric I’ve ever seen in my life,” said her professor, Charlotte Hamlin MFA ’98, coordinator for Graduate Studies at CVPA.

Since graduating, Alexina has turned the technique she invented that night into a thriving fabric business, supplying high-end, handcrafted fabrics to showrooms all over the country.

Alexina is working on her third collection in her western Massachusetts studio. It will explore the theme of texture, using more of her “fiber side.” She designed and built her studio with a little help from friends and family, and with an eye toward sustainability as well as functionality.

She uses only water-based inks to produce her hand-mixed colors, and uses a cleaning system that turns tap water into what she considers the best cleanser available. “It’s called an Alkaline Cleaning system. It alters the pH of water, turning normal water into the most effective cleanser on the market. Normally, cleansers used in textiles are quite toxic, and you have to use gloves and goggles, and it smells awful. Now, I can literally drink the cleanser. It really is just water.”

Alexina’s enthusiasm for her craft is palpable, and she exudes the quiet confidence of someone completely at home with their abilities.

“I get the same reaction whenever I show my fabrics,” she said. “It’s ‘Oh my God, that’s so gorgeous; how do you do that?’” Her process involves hand painting right onto the silkscreen, so that while the pattern repeats, the coloration does not. It means that nearly every yard of fabric is different. “I used to guard the ‘secret’ closely, but it turns out that it is a skill I possess; it isn’t just a process.”

Alexina’s technique produces fabric so unique, so impressive, that when she showed her college portfolio to world-renowned fabric designer Peter Fasano at a job interview, he refused to hire her—instead he insisted that she start her own company.

“Peter took me under his wing, introduced me to the right people, and was instrumental in getting my business off on the right foot,” she explained.

“But I’ve always believed that you create your own success. I knew I was going to make it on my own when I cold-called the biggest showroom in New York City. They fell in love with my work, and signed me up. That told me the fabrics were speaking for themselves; it wasn’t just Peter’s connections.”

Her collections are available in seven showrooms across the country, which is “a very big deal,” said Hamlin. “Establishing your own business so soon after graduation is rare; having your fabrics featured in seven showrooms is unheard of, and she is far from done growing. But it’s hardly surprising; she was the consummate textile design student. Refined. Meticulous. She did everything well and thoughtfully.”

Alexina said, “My time at UMass Dartmouth was great. They not only taught me how to do my craft—how to screen print—but I learned there’s an actual history to fabrics. So when I reference an 18th-century Ottoman design in my work, because of its history, it makes the design relatable—familiar and comfortable. It is successful to the eye.”

What’s next? “I will be launching an e-commerce site soon, so people can purchase my fabrics online. I don’t see manufacturing in my future—I’ve always had the desire to work with my hands; I’m a fan of the process. I like to start and finish everything I do.”

Visit www.ellishaalexina.com

Mike Mahoney

dashboard

Leading by Example

With the support of the Office of Campus Sustainability and Residential Initiatives and its Assistant Director Jamie Jacquart, UMassD will continue to work toward **reducing our greenhouse gases by 80% in 2050, and becoming a Zero Waste campus by 2025.**

2007 UMassD signed the American College and University Presidents' Climate Commitment pledging to reduce our greenhouse gas emissions

2014 UMassD received its second Leading by Example Award from the Commonwealth of Massachusetts for:

- **on-campus energy generation**
- **doubling the recycling rate**
- **implementing a \$40 million energy project**
- **adopting a voluntary Green Fee to fund sustainability projects**



One of the most environmentally responsible colleges in the U.S.

The Princeton Review's Guide to 332 Green Colleges



466,586

plastic water bottles have been kept out of landfills by 24 in-wall filter/water bottle filling stations, saving the community nearly \$700,000

24

million gallons of water

saved per year, by low-flow devices installed in campus bathrooms, equivalent to the annual usage of 730 people

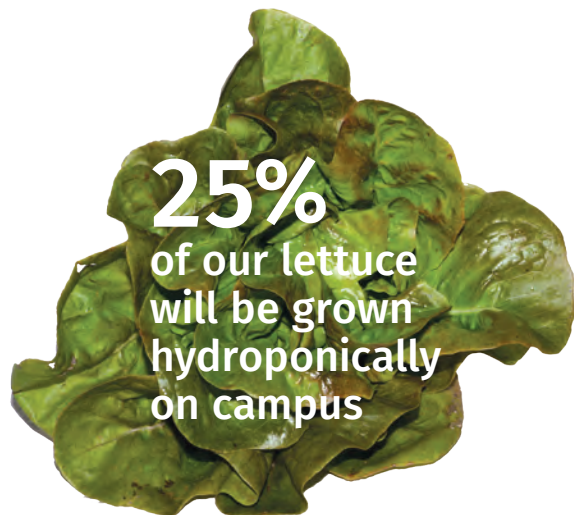


50%

reduction in garbage hauling contract



269 kW solar panels generated **291,845 kW** hours in 2014, enough to power **27** average U.S. homes that year



(Left to right) Sean D. Duarte's parents Frank and Priscilla Duarte, Arnie, and Katrina Martel '16



spotlights



2015 Sean D. Duarte Memorial Scholar, Katrina Martel '16

Civil Engineering major Katrina Martel '16 wants to build skyscrapers. She's fascinated by the "complex systems that have been developed to counterbalance the effects of high winds on tall buildings," so occupants don't become seasick from excessive swaying.

When she received the Sean D. Duarte Memorial Scholarship in 2015, it was proof that life sometimes provides a counterbalance to tragedy.

"The scholarship relieved a lot of stress for me. After my Mom died my freshman year, and we had our house burn down last year, and considering I'm already funding my own education, I wasn't sure I could afford to come back for my senior year. So the fact that I got this scholarship lifted all that weight from my shoulders. . . it's the reason I am able to come back and graduate. I am beyond grateful for the opportunity."

Sean Duarte's best friend, Matt Gallant '04, was instrumental in establishing the memorial scholarship. He has been impressed by all four of the scholarship's recipients, but thinks that Katrina is especially worthy. "Her story is so touching. And it's especially fitting because she can appreciate the scholarship from both sides."

"Sean's story touched me in personal way," said Katrina, "because when my Mom passed away we created a scholarship at our local high school in her name. It was really helpful, just in the process of grieving and continuing her memory. So I understand it from both perspectives, and I appreciate it even more."

The scholarship also comes with an internship to CDM Smith, an engineering firm that takes pride in being environmentally

conscious. "They are not only giving me the funds to be able to graduate, but they are giving me this experience that I couldn't really get anywhere else," she said. "CDM is a fantastic firm to work for; the experience and the knowledge that I've gained are invaluable."

An internship at a "green" company was a good fit for Katrina, who has been a work-study student in UMass Dartmouth's Sustainability Office since her sophomore year. Tasked with "creating something new," she spent two years researching and finally implementing the New2U Program, which operates a yard sale of donated items at the residence halls during move-in weekend in August. (see story on page 23)

"I'm proud that I took the raw idea and was able to get it off the ground and see it work," Katrina said. "I had a lot of help; my staff was great."

"And I'm really glad I made the choice to come to UMass Dartmouth. We have a good educational system, but that isn't the only important consideration. We have such a diverse population, students with different interests, backgrounds, and situations. It really gives you the chance to expand yourself."

After she graduates in May, Katrina will be looking for ways to pay her good fortune forward. "The Duartes reached out to me and said 'we'll help you achieve your dreams.' They changed my life. I want to be able to do that for other students."

Catrina Longo '17 is the 2016 recipient of the Sean D. Duarte Memorial Scholarship. She will be starting her internship at CDM Smith in May.

Mike Mahoney

A scholarship in memory of Sean Duarte '04

Sean Duarte graduated from UMass Dartmouth with a degree in engineering in 2004. So did his best friend Matt Gallant. Sean and Matt landed jobs at CDM Smith, an engineering firm known for being environmentally conscious. In 2010, they were still best friends, doing great, in the prime of their lives, when tragedy struck.

Upon finishing a 5K race, Sean—who was always healthy, active, and athletic—collapsed, and passed away on the spot. Those closest to Sean had their lives turned upside down.

Later that night, Matt recalled, he was at the Duarte family home, talking with Sean's dad. "We were telling 'Sean stories,' you know, trying to make sense of what happened. I finally got him to laugh somehow. And I brought up the idea of a memorial scholarship as a way to honor Sean. He was all for it. We never dreamed it would take off like this, though."

The Sean D. Duarte Memorial Scholarship is awarded each year to a deserving civil engineering student. In addition to financial assistance, the scholarship provides an internship at CDM Smith.

"Sean had a sharp sense of humor, he was a sharp engineer, but the word I keep coming back to is unique," Matt said. "He had friends from all kinds of backgrounds; he could relate to anyone. So, the idea that he is still helping others, even now. . . well, he would just love that."

Mike Mahoney



Georgia Sparling photo / Wareham Week

Battling human trafficking in Mexico

Passion and commitment. For UMass Dartmouth alumna Kathleen Delgado (née Kathleen Gately), these words fuel her mission to help combat human trafficking in Mexico.

Kathleen's interest in the issue arose when fellow students on her dorm floor, who happened to be former Sudanese child soldiers, enlightened her about the practice. Kathleen took her interest in it further when, after graduation, she went on to spend several years in Mexico working with the Christian Ministry, Cru. During her time there, she saw more cases of human trafficking and realized they were not as isolated as she once thought, but rather, it was she who had been isolated.

Human trafficking is a consistent, international issue, something her husband, Oscar Delgado also came to realize. "Once I started to open my eyes," Oscar said, "I felt like I had to do something."

Following their mutual desire to be a part of the solution, Kathleen and Oscar spend much of their time together working with El Pozo. Founded by Americans Benny and Janice Yu, El Pozo is a dedicated program with the mission to save and improve the lives of prostitutes. The center offers women an education, life skills, good hygiene practices, medical care, and counseling. Kathleen finds it deeply satisfying to see the women grow and heal.

There to help those from all different backgrounds and ages, El Pozo enables women to transition out of their desperate lifestyles and create meaningful futures. Most importantly, this process helps them understand that, as Oscar puts it, "their past is a part of their story but not their identity."

The Delgados continue to be heavily involved with the cause, as they take every opportunity they can to educate more people about trafficking, prevent youth from getting involved, and help those affected make a better life.

Aubrie Brault '15



Exploring biodiversity in Colombia

Summer 2015 proved to be exciting for nine UMass students (eight from UMass Dartmouth and one from UMass Lowell), who travelled to Colombia to study the different climates and ecosystems of distinct tropical regions.

The experience was made possible through an international collaboration between faculty from UMass Dartmouth, the University of Reading (UK), Universidad EAFIT (Colombia), and Universidad de Antioquia (Colombia), who teamed up to develop this research-based study abroad course for credit.

"Field sites were chosen to expose the group to the 'true tropics' showing them that the tropics is not just about rain forests, but instead comprises many different climates and thus ecosystems," said Biology Assistant Professor Mark Silby, who helped organize the international course and field work.

The three sites, Santa Fé de Antioquia, Parque Arví, and Urabá, each provided unique weather and thus contrasting plant and microbial life.

This field course provided students an opportunity to explore the abundance and diversity of microbial life, and then test the bacteria for traits that have relevance to biotechnological applications.



UMassD History Professor Brian Williams takes a selfie with students at Charmo University in Chamchamal city, Kurdistan, Iraq. Williams was invited to meet with the second-highest ranked priest of the non-violent Yazidi faith, Baba Chawish, and tour the ancient shrine.



Focusing on the importance of public higher education in Massachusetts



Secretary James Peyser

Secretary of Education James Peyser visited with UMass Dartmouth students and faculty in September.

Dean Cassell, a Charlton faculty member and a member of the Chancellor's Advisory Council, invited Peyser to see the impact of a UMassD education.

Peyser visited Professor Catherine Neto's lab, where she and her student, Sarah Frade, presented findings on the effect of the intake of cranberries on the colon cancer in mice.

Peyser also visited Professor Hong Liu's lab in the College of Engineering where students Matthew Crossman, Daniel Noyes, and Brent Rubell discussed their work in cybersecurity and their entrepreneurial endeavors.



Commissioner Carlos Santiago

Massachusetts Higher Education Commissioner Carlos Santiago visited campus in October to discuss the role of public higher education in the Commonwealth's knowledge-based economy.

Dr. Santiago helps shape state-level policies that maximize the benefits of higher education for the Commonwealth and its citizens.

In December, when UMass Dartmouth and Cape Cod Community College announced a plan to offer a \$30,000 four-year associate/bachelor's degree option to Massachusetts students, Dr. Santiago praised the initiative.

"This is an excellent strategy for incentivizing college completion, at a time when Massachusetts needs more college graduates for its high-skilled workforce," he said.

William Hayden honors local history

In October, William Hayden '62, Hon.'06, an accounting alumnus and managing director of PNC Capital Markets, spoke on campus about his distinguished career in public financing of capital projects. He also donated a personal lithograph titled "New Bedford Fifty Years Ago" in honor of his mother, Josephine Hughes Hayden, who taught school in New Bedford for many years.

Mr. Hayden is the former Chairperson of the National Association of Securities Professionals (NASP) and has been a strong voice in diversifying the investment banking industry. He has held high-ranking positions at JP Morgan, Bear Stearns, and The First Boston Corporation. He has been listed among the top 25 most successful African-Americans on Wall Street on several occasions.



President Vasco Cordeiro visits

President of the Azores, Vasco Cordeiro, made an unofficial visit to UMass Dartmouth in November and met with UMassD nursing students involved in the "Bridging the Atlantic" exchange program with the University of the Azores.

The "Bridging the Atlantic" exchange plays a key part in fulfilling UMassD's mission and strategic plan in expanding undergraduate research opportunities. The program has been supported by a pledge of \$100,000 from the DeMello Charitable Foundation.

UMassD nursing students are conducting extensive research and enhancing our understanding of the quality of life issues facing citizens of both countries.



The Ferreira-Mendes Portuguese-American Archives keeps history alive



(Above) Leaders within the Portuguese community came together at the Ferreira-Mendes Portuguese-American Archives to celebrate a donation to the Archives by Otilia (1st row, 3rd from right) and Justina Ferreira (1st row, 2nd from right); (left) the Archives entrance at the Claire T. Carney Library, and memorabilia of Affonso Gil Mendes Ferreira housed inside.



For 58 years, Affonso Gil Mendes Ferreira entertained and informed the Portuguese communities in Southeastern Massachusetts and Rhode Island.

Thousands tuned into the radio voice that now can be heard at the Archives that bears his name, the Ferreira-Mendes Portuguese-American Archives at the Claire T. Carney Library.

Otilia Ferreira, who donated her father's papers to the Archives, has a collection of his program's recordings from 1942 to 1944, which chronicle the news, regional Portuguese celebrations, and music of the time. They also are audio documents of Otilia's past. In one recording, her mother, Maria Rosa, a singer on the show, dedicates a song to Otilia for her seventh birthday.

Otilia and her sister, Justina Ferreira, listen to each recording before handing it over to the Archives. They want to hear every one. "It's a very emotional experience," she said. "We have to brace ourselves before we listen."

Affonso Ferreira, better known as Ferreira Mendes, was a pioneer in Portuguese-language broadcasting in the U.S. His program, "A Voz de Portugal," first aired in 1933 in New Bedford, MA. In

1946, he founded the country's first daily Portuguese radio station in Providence, RI. A newspaper publisher as well, Ferreira Mendes produced the biannual Portuguese newspaper, *O Heraldo Português*, from 1924-1976.

The Archives houses Ferreira Mendes' papers and artifacts—from the ticket for the steamer that brought him to Providence in 1920 as an adventurous 21-year-old, to his wedding suit. Otilia calls it "the ultimate attic."

The collection of Portuguese-American materials at UMass Dartmouth began in 1975 with the donation of a complete set of the *Diário de Notícias*, a Portuguese-language daily newspaper published in New Bedford. In 2009, the Ferreira-Mendes Portuguese-American Archives was founded at the University. The Archives is the largest collection of historical material documenting the experience of Portuguese immigrants in the U.S. Otilia wants to see that the Archives continues to grow.

"This is a place to keep Portuguese-American history alive," she said. "If we don't preserve the history, we could lose the ethnicity."

Barbara LeBlanc

Women's Tennis Captures 2015 Little East Conference Championship

Under the direction of Doug Chapman, UMass Dartmouth captured the 2015 Little East Conference Women's Tennis Championship tournament, edging Bridgewater State University 5-4. The Corsairs earned the program's fifth conference tournament title and secured an automatic berth into the 2016 NCAA Division III Women's Tennis Tournament. Senior Kristen Rose (Dartmouth, MA) was selected as the Most Outstanding Player. Seeded fourth in the six-team tournament field, UMass Dartmouth advanced to the championship round after upsetting top-seeded Rhode Island College, 5-4, in the semifinals. The Corsairs opened the 2015 tournament with a 5-2 victory over fifth-seeded UMass Boston.



Little East Conference Tennis Champs (left to right) Molina Oung, Kheylla Orival, Nicole Nault, Mollie McCaffrey, Maggie LeBrun, Jenna Lahaie, Kristen Rose, Therese Nguyen, Kerry Magoon, Amelia Ralowicz, Rocio Payes, Samantha Rollings.

Hunter Carden Little East Conference Defensive Player of the Year

For the second consecutive season and the third time in the past four years, a Corsair was selected as the top defender in the conference circuit. Hunter Carden, a junior from Branford, CT, headlined the 2015 Little East Conference Field Hockey major awards program. Carden also earned All-Little East, first-team honors, and helped UMass Dartmouth sport a 1.67 goals against average en route to earning a share of the Little East Conference regular-season championship.

Jenna Lahaie Little East Conference Rookie of the Year

Freshman Jenna Lahaie was named the 2015 Little East Conference Women's Tennis Rookie of the Year after producing a 6-2 record against conference opponents at top-flight singles. Lahaie is the third Corsair to receive the award, joining Nicole Pelletier (2010) and Kelsey Grossman (2008). From Lakeville, MA, Lahaie registered her greatest victory of the season in the finals of the 2015 Little East Women's Tennis Championship tournament, earning a straight-set win to clinch the conference title.



Record Breakers: Cory Burnham and Abbi Bamgbose

University of Massachusetts Dartmouth junior Cory Burnham (Essex, MA) and freshman Abbi Bamgbose (Fitchburg, MA) each set single-game program records in the Corsairs' 48-41 victory at Westfield State University on Sept. 19, 2015. Burnham piloted UMass Dartmouth's offensive attack, completing 24-of-40 attempts for 489 passing yards and six touchdowns. Burnham established new single-game records for passing yards and passing touchdowns, breaking the previous marks that



were held by Jay Furtado. Bamgbose established a new single-game standard for receiving yards (209), putting an additional nine yards between the previous record that was set by Ryan Bland in 1998.

Alexandra Koury Equestrian claims High Point Team at Roger Williams IHSA Show

The competition at Roger Williams University IHSA show in October marks the first time the program has secured High Point Team under current head coach Mary Charette. Senior

Alexandra Koury (Holden, MA), earned first in Novice on the Flat. With the win, Koury qualified for Region-als later in the season.

UMass Dartmouth Hosts 2015 Great Northeast Athletic Conference Championships

UMass Dartmouth hosted the 2015 Great Northeast Athletic Conference (GNAC) Men's Golf Championship at Allendale Country Club October 17-18, 2015. The Corsairs completed the two-day championship in third place. Junior Michael Byron (Bourne, MA) placed

seventh overall to lead UMass Dartmouth.

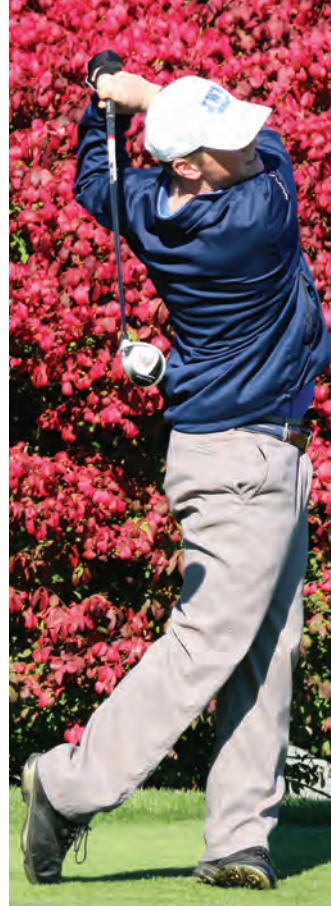
All-Conference Selections Fall: 17

Field Hockey (5)
Football (5)
Men's Soccer (1)
Women's Soccer (3)
Women's Tennis (3)
Jordan Rezendes,
Megan Ronaghan
Preseason All-Americans
Senior Jordan Rezendes
(Onset, MA) and junior
Megan Ronaghan (North
Attleboro, MA) were named
to the D3Hoops.com Pre-
season All-American teams.
Rezendes was selected to
the second squad, while
Ronaghan represented the
Corsairs on the fourth team.

CAPITAL IMPROVEMENTS

Renovations

Baseball and Softball
During Fall 2015, UMass Dartmouth supported a comprehensive renovation project to enhance the quality of the baseball and softball fields. The two-phase project was completed in the middle of December. The renovations replaced and upgraded the existing infield and warning track areas for both venues.



The work included a variety of projects: removal and disposal of materials within these areas to appropriate depths; adjusting the edge elevations and surface elevations of the warning track and infield diamonds; full reconstruction of the mound and home plate areas; installation of extended irrigation coverage to place heads along the warning track and filled material edges; installation of all new warning track and infield materials; and installation of new topsoil and sod along transition edges. In

addition, the project included fencing repairs and modifications, and the installation of bullpens and batting cages.

New Scoreboard for Swimming and Diving

The Tripp Athletic Center received a new look this past fall, when a high-definition scoreboard was installed in the Tripp Natatorium. The new scoreboard aligns with the department's branding initiatives, in addition to providing better quality of information to spectators and student-athletes.

SUPPORT ATHLETICS

Text-To-Give Campaign

University Advancement and the Athletics Department partnered to provide alumni and friends with a text-to-give option to support the Athletics Department and its 25 intercollegiate programs. More than 500 student-athletes participate on our teams. **To give, text "CorsairCrew" to 41444** and designate where you would like to direct your gift. Advancement has added a designation field for all 25 intercollegiate programs, in addition to the general account.

Students First, Athletes Second

UMassD athletes achieve as much success in the classroom as they do on the fields and courts, as evidenced by the Fall 2015 academic honors released in March.

The Corsairs receiving these honors represent eight UMassD teams—field hockey, football, women's tennis, volleyball, men's and women's cross country, and men's and women's soccer.

48

student-athletes
named to MASCAC and
Little East Conference
Fall All-Academic
Teams

143

student-athletes
on the **Dean's List**
3.2 to 3.6 GPA

54

student-athletes
on the **Chancellor's List**
3.8 GPA or higher
(highest total since 1999)



UMassD welcomes new members to the 2015 Hall of Fame

Greg McCann SMU '91 Basketball

Scored 1,169 points; ranked 31st overall on the UMass Dartmouth scoring list; averaged 12.31 points per game as a first-year player on a Regional Finalist team; averaged 13.6 points per game as a junior on a team that reached the NCAA Sweet Sixteen and averaged 18.5 points per game in his final season; named LEC Tournament Most Valuable Player as he finished his career with his third NCAA appearance in four years.

Michael Cotton UMassD '00 Football

Led the NCAA Division III in interceptions as a junior; three of his 11 interceptions were returned for touchdowns that season, while he averaged 1.1 interceptions per game with 206 yards in returns; named to First-Team All-New England Football Conference, First-Team ECAC New England Division III and New England Football Writers' 1998 Division II and III All-New England teams; earned a Golden Helmet during the '98 season after returning two interceptions for TDs in a win over Worcester State.

Meaghan Coache UMassD '07 Women's Swimming

Three New England Division II/III championships as a first-year swimmer; 10 Little East Conference championships and another 6 New England titles; undefeated in the 100-yard butterfly and 100-yard free style throughout her career; two-time LEC Champion in the 200-yard relay; undefeated at New Englands in the 50-yard and 100-yard butterfly; qualified as a junior for the ECAC Open Championships and placed 12th in the 100 butterfly in a prestigious field of top swimmers in the country.

Kyle McCullough UMassD '07 Ice Hockey

Team captain for two ECAC Ice Hockey championship teams; led the team to its first two NCAA Tournament berths, one of which reached the NCAA Division III national tournament where the Corsairs were national semi-finalists; named to the USCHO All-America team, All-ECAC First Team, and ECAC All Rookie team; was the team's co-Seventh Player Award winner and an ECAC and New England Hockey Writers All Star in both 2006 and 2007; finished his career ranked 7th all-time for the Corsair program in scoring with 65 goals and 91 assists for 156 points.

**Celebrating
30 years
of football**

TEAM CATEGORY: The 1985 SMU Club Football Team was inducted three decades after Corsair football first took the field in Fall 1985. Competing in the New England Collegiate Football Conference, SMU defeated Providence College in the opener before knocking off Merrimack, 47-0, in the first home game played at Sargent Field in New Bedford. The club team reached varsity status for the 1987 season.



Jennifer Granger '05
Alumni Association President

As the saying goes, the only constant is change

By the time you read this magazine, we will have a new Interim Chancellor, Peyton R. (Randy) Helm, who comes to UMass Dartmouth with decades of higher education experience, most recently as President of Muhlenberg College. He looks forward to meeting with alumni and friends in the coming months.

In partnership with the Alumni Association, the Advancement and Alumni teams have been working hard over the past several months to plan a number of exciting events for the spring and summer. Be on the lookout for local gatherings in your area, as well as regional events coming your way throughout the country.

You may have noticed that Advancement recently launched a new website with the goal of keeping us up-to-date on the latest news, events, and opportunities. We also continue to make enhancements to our online Alumni community at alumni.umassd.edu. I encourage you to stay connected with your friends and classmates by signing up, updating your contact information, or sending in a class note to let us know what's going on in your life.

As UMass Dartmouth continues the essential work of educating new generations of students, the Advancement division has developed more options that enable each of us to determine how we want to support the University. When you donate online at umassd.edu/give you now have a range of donation options—from specific college departments and scholarship programs to athletic teams and important campus initiatives.

The University also has implemented Sparkplug, a new crowdfunding platform that allows UMassD organizations and targeted student projects to raise money directly online. Watch for more campaigns coming your way via email and social media channels. Learn more at umassd.edu/sparkplug.

With all these changes underway, we need your support now more than ever. Participate in an event, become an alumni volunteer, show your Corsair pride. No matter how much time you can dedicate, we can help find the right fit for you to become more involved. As always, please feel free to touch base and share your ideas.

Jennifer L. Granger

We've updated a lot... how about you?

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to Stay Connected and tell us what's new.



UMass Dartmouth Alumni



UMassD_Alumni



UMass Dartmouth Alumni



Alumni Awards given to nine distinguished recipients

(Left to right) Dr. Joan Vitello '78 (Alumni Achievement Award); Caitlyn Camara '07 (Young Alumni Award); Dr. Craig O'Connell '14 (Alumni Achievement Award); Michael Joyce '85 (Alumni Achievement Award); Former Chancellor Divina Grossman; Jim French '78 (Alumni Achievement Award); Judith Lima '87 (Alumni Volunteer); Greg Paciulan '99 (University Service Award); Leslie Becker Wilson, Esq. (Alumni Ambassador Award); Robert Mellion, Esq. JD '07 (Professional Achievement Award).



Golden Graduates Summer Bash

Graduates from 50 or more years ago reunited on-campus for their annual clambake this past summer. The weather was perfect and the food was delicious. We look forward to seeing you this summer. Look for more details soon online at alumni.umassd.edu.



Class of 2014 Dream Scholarship Dinner

The Class of 2014 raised funds for a scholarship supporting students who have the courage and the action plan to share their dreams. Two students were awarded the Class of 2014 Dream Scholarship: Ausubel Pichardo and Tricia Breton. Ausubel hopes to provide access to education and human rights protection. Tricia hopes to help women and girls live more stable and productive lives. To donate to the scholarship: www.umass.edu/give.



The Don Watson Memorial Golf Tournament

Since 2007, the EMC Corporation in Hopkinton, MA, has raised more than \$175K toward the Donald Watson Scholarship. This year's Don Watson Scholar is physics major Izak Thuestad '16. (Left to right) Jean Pierre '14, Andre Keedy '14, Azzam Tannous '10, Massarra Tannous '15, Earl Medeiros '99, Jack Moynihan, and Gregory McCarthy '13 (Missing from photo: John Machairas '13).



Homecoming 2015 ..





. Staying connected



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Dr. Joan Vitello '78

UMassD alumna named Dean of UMass Medical Graduate School of Nursing

Joan Vitello, PhD, RN, NEA-BC, FAHA, FAAN, has been named the new dean of the Graduate School of Nursing at UMass Medical School.

Vitello has more than 30 years of experience in hospital organizations as a staff nurse, unit instructor, critical care clinical nurse specialist, nurse manager, nursing director, chief nurse, and vice president of patient care service.

She was most recently an associate chief nurse at Brigham and Women's Hospital in Boston, and prior to that was system vice president and CNO for Hallmark Health System. She was COO for Lawrence Memorial Hospital in Medford, MA, and the former CNO at St. Anne's Hospital in Fall River.

An internationally recognized author, lecturer, and researcher, Vitello has received numerous awards and recognitions in healthcare. She received the UMass Dartmouth Alumni Achievement Award in September 2015.

An alumna of UMass Dartmouth's BSN Program, Vitello attended UMass Dartmouth as a single parent and is a donor to the Sister Madeleine Vaillot Scholarship in support of UMassD's College of Nursing.

Vitello received her Associate Degree from Massasoit Community College and her MSN from the University of Alabama in Birmingham (UAB) in Cardiovascular/Critical Care. She received her MA in Organizational Development and her PhD in Human and Organizational Systems from the Fielding Graduate Institute in Santa Barbara, California.

the 1960s

Daniel Pacheco '64

of Libertyville, IL, a consulting mechanical engineer, is the President of Polytechnic, Inc., and Director of Polytechnic's Vehicle Laboratory. Dan was formerly manager of engineering and a chief engineer for two major off-highway vehicle manufacturers. His 18-year work experience in industry includes product reliability testing, quality control, manufacturing methods, and management of major vehicle design/development projects, as well as providing technical support to affiliate companies and licensees worldwide. He joined Polytechnic, Inc., in 1982 and is a member of several technical societies. His consulting work primarily involves vehicular accident analyses, including forklift trucks, construction equipment, industrial vehicles, heavy trucks, and automobiles.

Richard A. Pacheco '68, MFA '78 of New Bedford, MA, is an award-winning playwright, poet, artist, journalist, filmmaker, actor, and educator. He has been writing since high school but gained momentum later in college. Along with his poetry, Richard studied acting and directing at the American Theatre Training Institute; screenwriting at the American Film Institute; playwriting at the Playwrights Platform; and poetry with Pulitzer Prize nominees Daisy Aldan and George Hayden Jr. He is

also at work getting staged readings of his plays as well as getting them into productions and submitting them to competitions. His current focus is on writing poetry and playwriting. Creating the work is sheer joy despite any trials and difficulties encountered along the way; creating the work is private, marketing all too public but very necessary.

Richard C. Waring '69

of Sarasota, FL, retired Director of the Campus Center at UMass Dartmouth, published his second novel in June 2015, *Secrets, Lies, and Murder in Ancient Rome*. Both his second novel and his first, *Beneath the Well of Souls—The Fight for the Lost Treasures of The Great Temple of Jerusalem*, are available through Amazon, Barnes and Noble, or Peppertree Press.

the 1970s

Thomas R. Currin '72

Ph.D., P.E. of Marietta, GA, was named the Dean of Southern Polytechnic College of Engineering and Engineering Technology at Kennesaw State University. His focus is growing new engineering programs.

Mark E. Lima '72

of Providence has joined Children's Friend as vice president of human resources and brings more than 25 years of experience to his new role. Prior to joining Children's Friend, Lima previously held the position of vice president of human resources at the

MATLET Group in Pawtucket, RI. He will oversee all human resources functions, with a specific focus on talent management. Lima is trilingual in English, Spanish, and Portuguese. Children's Friend is the innovative leader in improving the well-being and healthy development of Rhode Island's most vulnerable young children.

Barry Hauck '74

of Fort Belvoir, VA, Deputy Product Manager, Program Executive Officer Soldier, U.S. Army, was selected by the National Infantry Association to receive the Order of Saint Maurice Civitarese medallion. The award is given to civilians who have served the infantry community with distinction in support of the infantry and represent the highest standards of integrity, moral character, professional competence, and dedication to duty. The National Infantry Association, headquartered at Fort Benning, GA, presented Barry this prestigious award for his contributions in the development and fielding of state-of-the-art personal protective equipment, including helmets, body armor, and protective eyewear. He has also earned numerous professional certifications in Systems Engineering and Program Management from the prestigious Defense Acquisition University.

Dr. Gregory Côté '77

of Edwards, IL, recently marked his 30th year as a research scientist with the U.S. Department of

Agriculture. His honors have included the 2012 American Chemical Society's Chemist of the Year Award for the Heartland Local Section, the 1996 HS Isbell Award of the ACS Carbohydrate Division, the 2008 Federal Laboratory Consortium Technology Transfer Award, and an R&D 100 Award in 1989 from *R&D Magazine*. Gregory has published approximately 100 papers, and has been granted ten patents for his work with carbohydrates.

John M. Pereira '78 of Milton, MA, the president of Combined Properties, was appointed a director by Brookline Bancorp. He was a partner with the law firm of Sherin and Lodgen in Boston. He is a registered real estate broker and is a member of the Greater Boston Real Estate Board. John is also a member of the Massachusetts Bar Association, National Association of Office and Industrial Properties, Real Estate Finance Association, Chelsea Boys and Girls Club, and the Chelsea, Malden, Medford, and North Shore Chambers of Commerce. John earned his Juris Doctorate degree from Boston College Law School.

Jennifer S. Merry '79 of Kennebunkport, ME, is a visual arts teacher at Thornton Academy in Saco and was named the Secondary Art Teacher of the Year last year through the Maine Art Education Association. Jennifer is a truly inspirational art educator who embodies constant enthusiasm and

exploration in the field. She said she was blown away when she heard she earned the recognition. "The kids were happy, and my family was really touched." The honor went beyond recognition of her work, to a chance to bring attention to the importance of art education.

the 1980s

Daniel A. Campia '80 of Lexington, MA, is the president of AHA Consulting Engineers, where he is primarily responsible for marketing and business development as well as project management on special projects. Dan has 25 years of professional experience and has directed the engineering, design, and construction on a variety of facility types including biomedical, laboratory, healthcare, manufacturing, mixed-use, commercial, parking, institutional, and educational buildings. Dan also has extensive experience in the administration of all phases of project management, including planning, budgeting, surveying existing conditions, scheduling, completing plans and specifications, and construction administration.

Richard Cormier '81 of Santa Fe, NM, after receiving his Master's degree in Counseling Psychology, has worked as a psychotherapist specializing in anxiety and trauma disorders. He is now writing his fourth book.

Richard and his wife, Judy Noyer Cormier, relocated to Santa Fe in 2013.

Bonny L. Gifford '81 of Westport, MA, was hired as the new superintendent of schools for the Town of Dartmouth. Bonny describes this as finding her dream job. Getting the job in Dartmouth brings a new professional challenge for an educator whose career has taken her all over the state. Her husband John, former police chief in Westport, was appointed assistant harbormaster in Dartmouth.

James W. Thorpe '81 of Gallatin, TN, has returned to work at Dollar General as executive vice president and chief merchandising officer. James brings 24 years of merchandising experience to the position, having increased responsibility working at Sears Home Group, Zenith Data Systems, and JW Thorps & Associates. His experience also includes more than six years with Dollar General, where he served as senior vice president and general merchandise manager from May 2006 until his retirement in July 2012.

Dave Hauver '82 formerly of Leominster, MA, has recently located to the Space Coast region of Florida to take a senior project manager position with MC Assembly in Melbourne. He will be leading the new Lean Transformation group formed to drive manufacturing excellence within the company. He



Craig P. O'Connell '14

Shark conservationist and
45th Annual Alumni Awards recipient

Marine biologist and shark specialist Dr. Craig O'Connell is protecting people and sharks in oceans around the world. A 2014 graduate of UMassD's School for Marine Science and Technology (SMAST), O'Connell studied shark magnetoreception as a doctoral student and developed a non-lethal magnetic shark deterrent—the Sharksafe Barrier, which may soon serve as an alternative to beach nets deployed in areas around Australia and South Africa.

"We hope that one day, this technology is adopted and will serve as an eco-friendly alternative form of technology to help minimize the potential of dangerous shark encounters faced by swimmers, surfers, dolphins, and other marine life," said O'Connell.

O'Connell has hosted episodes for the Smithsonian Channel and Discovery Channel's Shark Week, and is the founder and director of O'Seas Conservation Foundation, Inc.—a nonprofit organization focused on shark conservation research. "Both of these ventures are challenging but they give me the ability to continue conducting research and to educate a substantial quantity of people, which has always been my goal," he said.

O'Connell was recognized for his achievements at UMassD's 45th Annual Alumni Awards ceremony in September 2015. During the ceremony, he recalled a turning point in his studies. "My committee at SMAST went above and beyond to see me succeed, and they are largely responsible for the scientist I have become today."

In Memoriam

John J. Lyons '48
Antonio B. Gracia, Jr. '50
Bartley F. McNally '57
C. Norman Dion '59
Donald Howard Plant '61
Charles E. Arruda '63
Paul R. Theroux '63
John Paul Rita '64
Edward Viveiros '65
Lois E. Margolis '69

Stephen D. McGowen '69
Judith D. James '70
Susan M. Hinchcliffe '73
Elsie R. Mello '73
Norma G. Ginglas '74
Kathleen L. Galligan Smith '74, MS '96
Scott T. Jacobson '77
Jeffrey P. Sullivan '77
Manuel F. Tavares '77
Carol H. Ras '78

Mary Blum Schwartz '79
Bertha Rogers '80
Daniel E. Pingley '81
John F. Morrison '86
Mary Ann Ferreira '88
Joshua D. Doyle '89
Michael S. Gelbwasser '90
Edna Thoen '90
Charles S. Guenard '92
Timothy K. Hill '92

Deborah A. Lobo '96
Roberta A. Foley '98
Javon Brown '01
Lori J. O'Brien-Foeri, Esq. JD '05
Kristen Marie McLaughlin '07
Darcy E. Nientimp '10
Bruce D. Sauvegeau, Esq., JD '10
Andrew G. Duffy '11

resides in Melbourne with his wife Nancy, and both are looking forward to friends and family visiting them in their new home in the Sunshine State.

Bernadette Coelho '84 a longtime New Bedford, MA, resident who left the city's political arena to work with at-risk students at New Bedford High School, has been named the school's permanent headmaster. Bernadette, who worked in

local radio, then served as spokesperson for former Mayors Rosemary Tierney and Fred Kalisz, began working at the school in 2006 and has held a number of positions, most recently as the registration and Pathways administrator and acting headmaster. Her responsibilities have included working as a dropout prevention specialist, graduation facilitator, and head of guidance and adjustment

counselors and attendance officers.

Robert J. Gates '84 of Metuchen, NJ, works as the global marketing director, GE's Intelligent Platforms business. Robert's responsibilities include strategic direction for the manufacturing industries that GE serves. His experience and career included various leadership and engineering positions at General Motors, Hoechst

Celanese, Hoffman La Roche, and Pfizer.

Kelly L. Hughett '84 of Swansea, MA, was hired as the new town nurse for Swansea and Somerset. Kelly has 20 years of experience in nursing. She has worked in home care, nursing homes, a children's outpatient mental health clinic, and adult mental health. The job she is leaving to take the town nurse's job is as a director

of nursing at a mental health clinic.

George J. Charette III, MBA '85 of Mattapoisett, MA, was hired by Pawtucket Credit Union as the company's new president and CEO. George came to PCU in 1996, impressing everyone with his knowledge of the financial services industry. He was previously the executive vice president and chief financial officer, and has long been

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responsible for key aspects of the operation at PCU. Prior to his employment at PCU, George worked for two years at Fleet Financial Group as a vice president in the accounting policy group and for 17 years at New Bedford Institution for Savings where he was senior vice president and chief financial officer.

Pamela Mello '85 of New Bedford, MA, was hired as the new president and chief executive officer of Somerset Federal Credit Union in March 2015. Previously, Pamela worked in senior management at the McCoy Federal Credit Union in the Orlando area for 23 years. She has served on various credit union industry organizations and taught credit union executive courses.

Robert A. Pontbriand '85 of Alexandria, VA, served as a Department of Defense volunteer with the U.S. Army 1st Cavalry and Infantry Division at Joint Operations Command, Bagram Air Force Base, Afghanistan in 2012. He received the Department of the Army Achievement Medal for Civilian Service and the NATO Medal for Supporting International Security Assistance Force Operations.

Robert E. Tavares '85 of Marlborough, MA, has been named president and chief executive officer of API Technologies and will become a member of API's Board of Directors. Bob is a seasoned RF/microwave industry



C. Norman Dion 1931-2016

The UMass Dartmouth community wishes to acknowledge the generous life of C. Norman Dion '59, HD '83. Dion graduated from Bradford Durfee in 1959 with a BS in Electrical Engineering and in 1983 was awarded an Honorary Doctorate Degree. His late brother, Reginald Dion, graduated from Bradford Durfee in 1955. Norman Dion went on to develop a successful career and retired as the president and CEO of Dysan Corporation. In 1987, he gave a \$1 million dollar endowed gift to the University and the Dion building proudly bears his name today. The building was dedicated on May 5, 1989. Dion always emphasized the importance of giving philanthropically to public institutions of higher learning and was quite proud of graduating from a state university. The Dion building houses our nationally recognized College of Engineering, College of Nursing, and Medical Laboratory Science degree programs. We are grateful for this impactful gift to the University and for the generosity of the entire Dion family. Norman Dion's spirit and legacy will continue to be felt on our campus for years to come.

veteran with 30 years of leadership experience in both publicly traded and privately held electronics companies serving defense and commercial markets. Throughout his career, which includes experience at M/A-Com, Tyco Electronics, and most recently as president of Crane Electronics, Bob has demonstrated his ability to grow RF/microwave, microelectronics, and power businesses both

organically and through acquisition.

Christopher Barrett '86

of Medfield, MA, was hired by Stadion Money Management, LLC as regional vice president, with responsibility for retirement sales in New England and northern New Jersey. Christopher is a retirement industry veteran who has more than 28 years of industry experience. Prior to joining

Stadion, he worked for Transamerica Retirement Services where he was a divisional vice president responsible for managing the sales and marketing effort for defined contribution and defined benefit plans in the Northeast.

Ann O'Handley Stott '86

of Newburyport, MA, has been working in publishing for over 20 years and is currently an art director at Candlewick Press, and a children's book publisher in Cambridge, MA. Ann works closely with many artists and illustrators, including **Chris Van Dusen '82**, who is also a visual design graduate of UMass Dartmouth.

Karen Aruri-Carnes '89

of Dartmouth, MA, works as a part-time lecturer of French and Spanish at UMass Dartmouth. She has presented units which focus on Paris's monuments and museums at conferences of the Massachusetts Association of Foreign Languages. She has traveled abroad multiple times with students and coordinated exchange programs at the secondary level. Currently, in addition to her university-level work, Karen continues to develop and teach curriculum in French, Spanish, and Arabic for children, pre-kindergarten through grade 2.

Kenneth A. Hardy '89

of Fredericksburg, VA, a native of Fairhaven, MA, is a retired sergeant major having served more than 24 years in the Army and Army National Guard

(ARNG). Kenneth served in numerous administrative and operational positions during his military career, including Army bandsman, production recruiter, readiness NCO, instructor, deputy commandant, senior enlisted liaison, and operations sergeant major. He is currently the chief of the Education Services Branch for the ARNG, a position he has held since 2014. In this assignment, he is responsible for providing policy, guidance, and oversight on all education related programs and services to the 54 states and territories.

Michael Woods '89

of South Weymouth, MA, writes that he has three amazing children, Cameron, 16 and Maverick, 15, both attending Boston College High School, and Liberty, 13. Michael flips houses and is working on an inspirational children's book series. He coaches his kids' select hockey teams and still plays hockey a couple of times per week.

the 1990s

Mark F. Sanclemente '92

of Bedford, NH, a 21-year veteran, was an officer with the Los Angeles, CA, Police Department before coming to Manchester in 1999. Mark has worked patrol, been a field training officer, firearms instructor, community policing officer, and an investigator within the detective squad. He became a lieutenant in 2013, serving as supervisor of the special enforcement division, which he now



Jocelyn Almy-Testa BFA '98

Creative (Re)vision

Every day, materials go to waste—whether it's office supplies that aren't needed anymore or paper that just gets thrown away. Jocelyn Almy-Testa BFA '98 works to make sure these materials find a new home. As executive director of Lynn-based non-profit Extras for Creative Reuse, Almy-Testa has long understood the impact that reuse can have. She says it's a lesson she learned back in her undergraduate days as an art major.

"Being an art major made me stretch the way I thought about resources available in the world," she said. She would find materials at a thrift store, in the natural environment, or anywhere she could.

The work of Extras for Creative Reuse, now in its 35th year, has a wide-ranging impact, sending roughly two tons of material each week to different classrooms, programs, and other institutions. Many communities do not have enough fiscal resources to spend on new materials for education. Because of this, Extras for Creative Reuse is able to help many people in need—while also helping out the environment in the process.

Almy-Testa, a nominee for the 2013 Lydia Pinkham Businesswoman of the Year award, says that her typical week at Extras for Creative Reuse has a wide range of responsibilities, from fundraising to event planning to unpacking donations.

"There is so much waste and there is so much need," she said. "Reuse solves so many problems."

commands. He has been a member of the department SWAT unit since 2002 and was team commander. He and his wife, Wendy, have three sons: Joey, Jake, and Sean.

Karen A. Chace '93 of East Freetown, MA, has become a face of storytelling on the SouthCoast. Karen has entertained audiences with her tales at various schools, libraries, museums, festivals, camps, and AHA! Nights in New Bedford. Her new book, *Story by Story: Creating a Student Storytelling Troupe* (2014), is based on her 13 years as a teaching artist. Karen shares a step-by-step framework for creating a storytelling troupe. The book won the Anne Izard Storyteller's Choice Award from the Westchester Library Association in New York.

Kevin J. Taylor '94 of Braintree, MA, is the new golf coach at Archbishop Williams High School. Previously the head golf coach for three years at Milton High School, Kevin led Milton High to the Division 2 South Sectionals all three years and won the Bay State League Championship in 2010. Kevin spent seven years as a golf professional at Woods Hole Golf Club in Falmouth, MA, the Misquamicut Club in Watch Hill, RI, and the Jupiter Island Club in Hobe Sound, FL.

Almir F. DeCarvalho '95 of Grayson, GA, was promoted by NanoLumens to vice president of strategic accounts from the position of vice president of international sales. Almir

will be responsible for identifying and forming relationships with targeted strategic accounts across all vertical markets globally. Before joining NanoLumens in 2011, Almir served as director of sales at Adaptive Micro Systems LLC. Prior to this, he held several positions in worldwide corporate sales over a 12-year period at FedEx Corporate Services.

Derek H. Breen '97 of Wrentham, MA, is an author, designer, and instructor. He writes "be sure to check out my new book, *Scratch For Kids For Dummies*."

Aaron J. Guillemette '97 of Fall River, MA, owner of Up in Flames tattoo shop since 2001, has made an 8-year-old girl's wish come true. The 8-year-old has worn leg braces for years and wished to have images of Walt Disney villains Cruella de Vil—the evil fashion plate from "101 Dalmatians," and Ursula—the sea witch from "The Little Mermaid," emblazoned on her new braces. Aaron drew the characters freehand and painted them with acrylic paint. He was pretty happy that he was able to grant her wish and see her smile.

Manuel Leite '97 of Fall River, MA, has accepted the position of library director at the Boyden Library in Foxboro. Manuel has been the library director of the East Bridgewater Public Library in East Bridgewater, MA, since 2007.

Dr. Saminathan Ratnapandian, MS '97 of Chennai, India, worked in the U.S. textile industry

until 2001 when he returned to India. There, he switched over to teaching and obtained his PhD in 2013 from RMIT Australia. He currently works as a professor in textile manufacturing in Ethiopia.

Dina M. Brasseur '98 of New Bedford, MA, has found her dream job as director at the Russell Memorial Library in Acushnet. Dina earned her Master's degree in library science at the Pratt Institute in New York. At UMass Dartmouth, her work-study job in the university library led to a mentorship with an encouraging mentor, and an adult decision to make library service a career.

Sean J. Hagan '98 of New Bedford, MA, a former Lexington Public Schools art department administrator, brings his artistic eye to the Bedford Public Schools in September 2015 as the district's newest art director for K-12.

Adele F. Raphael '99 of Bourne, MA, has joined the Cape Cod Canal Region Chamber of Commerce as communications and membership coordinator. For the past four years, Adele has been the operations manager and volunteer coordinator at the National Marine Life Center in Buzzards Bay. Previously, she worked nearly 25 years in the utility industry for both NStar and National Grid. Adele is also a freelance writer, writing for magazines, newspapers, towns, and organizations, and has volunteered with numerous civic and cultural organizations.

Linee Mello-Frost BSN '11

Promoted to lead Field Hockey program

Linee Mello-Frost '11 was promoted to head coach of the UMass Dartmouth Corsair Field Hockey Program prior to the start of the 2015 season. Mello-Frost, a decorated student-athlete and lead assistant for the past four years, is the ninth coach in program history.

Mello-Frost inherited a UMass Dartmouth squad that has posted seven straight winning seasons, three berths into the NCAA Division III tournament, and three Little East Conference titles.

When she joined as assistant coach after her graduation in 2011, she helped sustain the team's overall success, boasting a combined record of 53-34 (.609). In 2012, the Corsairs matched the single-season record for wins (17) and raised the Little East Conference Championship trophy for the third time in four years.

Mello-Frost graduated from the College of Nursing with a BS degree. A native of New Bedford, Mello-Frost was a standout field hockey defender during her time as a student athlete and registered three goals and nine assists for 15 total points in 77 career games. She also was a record-holding hurdler for the women's track and field program and two-time captain.

"Linee has been entrenched in our field hockey traditions and long-standing success as a student-athlete and assistant coach," said Amanda Van Voorhis, UMassD director of athletics. "She earned this opportunity through eight years of hard work and commitment. I'm confident her skills and abilities as a Head Coach will produce the results we've grown to expect from UMass Dartmouth Field Hockey."



the 2000s

Richard A. Fournier '01 of Danbury, CT, who earned his BFA in Visual Design, is an animator for *The Peanuts Movie*, a film based on the classic comic strip.

Michael Mahoney '05 of Seekonk, MA, was hired as the new executive director of the Dartmouth YMCA. Michael began his career as a camp and after-school youth coordinator and worked his way to program director at the Fall River and Gleason Family YMCAs. At the Hockomock YMCA in North Attleboro, he was responsible for overseeing the member experience, including all staffing and programming. He is also a certified personal trainer, Crossfit Level 1 coach, strength and conditioning faculty member of the YMCA of the USA, and a Livestrong trainer.

Christopher D. Fager '06 of West Springfield, MA, has joined Westfield Bank following a successful six-year career at Citizens Bank, where he served as both branch manager and business banking officer. In his new role, he will be responsible for developing and managing commercial banking relationships.

Corinne M. Slaughter '06 of Dartmouth, MA, decided to become a veterinarian at age 41 with the encouragement of her husband, Michael Slaughter III, so there was never any thought of using her maiden name (Booker) professionally. After returning to college at UMass Dartmouth, she was accepted to Royal College of Veterinary Surgeons in London and at age 50, she became a veterinarian with a hearty sense of humor about her last name. She spends her days tending

to domestic pets as well as farm animals.

Nathan Jay DiPerri '07 of Lunenburg, MA, decided to bring his popular "My Guardian Grandpa" comic strip to a close. The story, which featured 16-year-old Judy and her guardian-angel grandfather, Levi, had been running exclusively in the *Sentinel & Enterprise* since August 2011. His new strip, "Mates And Dates," premiered Aug. 31. "Mates And Dates" is a joint venture between he and his wife. "She's a brilliant writer and very funny," he said.

Jennifer Lynne Cabral '08 of Dartmouth, MA, has been hired as the Town of Dartmouth's new youth advocate. A mother of three, Jennifer is licensed to work in counseling and with at-risk populations and brings 20 years of experience with at-risk youth and counseling families.

Joseph Michienzi '08 of Bridgewater, MA, was promoted by TD Bank, America's Most Convenient Bank®, to assistant vice president, store manager of the location at 127 South St. in Wrentham, MA. He is responsible for new business development, consumer and business lending, managing personnel, and overseeing the day-to-day operations at the store serving customers throughout the area.

Grace C. Morrison '09 of Wareham, MA, is an award-winning Cape Cod-based singer/songwriter. She is an incredible talent, mixing seemingly effortless musicality and original storytelling in the folk and Americana genres. Grace teaches a studio of 70 private music students by day, and by night performs with the RSO, solo, and with her cover band TGI

90's. Grace performed at the UMass Dartmouth Family weekend.

Sara Feijo '10 of Somerset, MA, a *Cambridge Chronicle & Tab* reporter, was awarded the third annual MacGregor Fiske Novice Journalist Award. Her two-part series examined the relationship between Cambridge police and local young men of color, a series that started a conversation that so desperately needed to happen. Sara won first place awards from the New England Newspaper and Press Association for two three-part series, one on English Language Learners in Dedham Public Schools, the second an extensive look at the issues facing small businesses.

Jonathan Robert Langfield '10 of Somerset, MA, and Philadelphia, PA, is an artist whose works are executed in the spirit

Upcoming events

Check our website, alumni.umassd.edu, for a complete listing of events and for more details on what is listed below.

Mark your
calendar
today

Pub Night Series

Our Alumni Board of Directors will be hosting local pub nights. Check the website (above) for dates, times and locations to see if we are in your neighborhood.

116th Commencement

Each year, Golden Graduates and Alumni Marchers demonstrate their school pride by walking in the Commencement Exercises. Pre-registration is required.

- Friday, **May 13**, 10 am, Charlton College of Business;
- Friday, **May 13**, 2:30 pm, CVPA, Engineering, Nursing and SMAST;
- Saturday, **May 14**, 10 am, Arts & Sciences
- Monday, **May 16**, 10 am, UMass School of Law



Class of 1966 50th Reunion

Southeastern Massachusetts Technological Institute Class of 1966 is celebrating their 50th Reunion. Join your classmates to catch up and share stories:

- Friday, **May 13**, Evening Cocktail Reception
- Saturday, **May 14**, Commencement
- Saturday, **May 14**, Reunion Luncheon



Golden Graduates Annual Clam Boil & BBQ

June 23

Join us in celebration of our most experienced alumni, those who graduated 50 or more years ago from BDCT, NBIT, SMTI, and Swain. Come back to campus for an enjoyable time with classmates and friends.



Homecoming 2016

September 30-October 2

To be sure you receive information about Homecoming 2016, update your contact information, including your current email address, at www.alumni.umassd.edu. Click the link "Stay Connected."

of improvisation while utilizing the ideological framework of modernism and elements of graffiti. Jonathan is a founding member of Romberg's independent contemporary painting school, SUBPLOT Atelier. He has exhibited his paintings at JAG Modern and Osvaldo Romberg Studio. His paintings have also been exhibited at the Cutlog Art Fair in New York City, FAUX REAL, Non-Fiction Gallery in Savannah, Georgia, and several art fairs in Miami.

Melanie Anne Cataldo, MFA '11 of Holden, MA, a Wachusett Regional High School art teacher, spent hours at the New Bedford Whaling Museum as a graduate student studying the anatomy of whales for a book she was creating. Her research paid off when she was asked to illustrate award-winning author Jane Yolen's latest children's book, *The Stranded Whale*, published in August by Candlewick Press. The story is about a girl's attempt to save a beached whale she found on the coast in Maine. Melanie teaches

foundations in art for beginners, commercial art, and graphic communications. She also sells her artwork at area galleries.

Emily E. Walkup '11 of Ashland, MA, has joined Access Healthcare team as a client services manager.

Zanofer Ismalebbe '12 of New York, NY, works as a specialist/head of intergovernmental engagement team for external relations and advocacy with the United Nations Development Program.

John A. McNamara '13 of Spencer, MA, spent the past year working for State Senator Stephen M. Brewer and is now State Senator Anne Gobi's administrative aide, responsible for maintaining her schedule.

Robert Lockhart '14 of Port Angeles, WA, works as the senior vice president of Evergreen Educational Society in Bremerton, WA. He writes, "UMass Dartmouth helped me become the person that I am today. The professors and the school gave me the skills necessary to advance

myself beyond where I ever could have imagined."

Lane Tobiason '14 of Acushnet, MA, works at Lockheed Martin as a mechanical engineer. He credits his career to a high school STEM class competition that was part of the Lockheed Martin Sippican/UMass Dartmouth collaboration called UMD Primes, designed to increase local graduates in STEM (Science Technology, Engineering and Math) fields, where he became hooked on engineering.

EXCELLENCE in all we do

UMass Dartmouth student-athletes are a remarkable group of individuals who understand the importance of commitment and teamwork.

They excel in competition and in class. You can support their endeavors.

SPECIAL RECOGNITIONS



1. Kevin Cutler

Men's Indoor Track & Field
3rd NCAA Division III All-America



2. Kendra Hebert

Swimming & Diving
Little East Conference
Diver of the Year



3. Nneka Iloba

Women's Track & Field
Little East Conference
Rookie Track Athlete of the Year



4. Alex MacMillan

Men's Track & Field
Little East Conference
Rookie Track Athlete of the Year



5. Nick Portelance

Men's Basketball
Little East Conference
Rookie of the Year, All-Rookie Team

6. Jordan Rezendes

Men's Basketball
D3Hoops.com Second Team All-America
D3Hoops.com First Team
All-Northeast Region
Little East Player of the Year
First Team All-Little East



7. Megan Ronaghan

Women's Basketball
D3Hoops.com Second Team
All-Northeast Region
Little East Player of the Year
First Team All-Little East



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