two-thousand twelve was a banner year for athletics at Northeastern. The women’s hockey team garnered the most wins in ten years, winning the East Regular Season Championship and the Beanpot Championship, and the men’s soccer team won the CAA Championship for the first time ever. In addition, many individual players and coaches from a range of teams distinguished themselves with an impressive array of honors, awards and accomplishments, including Northeastern’s Athletic Director Peter Roby’s appointment to the NCAA Division I men’s basketball committee. Nowhere is the importance of physical well-being more understood than at Bouvé College, where students are dedicated to improving human health and health care delivery. “The six athletes featured in this issue reflect the passion and excellence that goes with world class athletics and the obvious connection to health and exceptional health science academics,” says Bouvé Dean Terry Fulmer.

Cultivating Nurse Leaders  page 3  
Celebrate 50 Years of Nursing  page 4  
Mastering Science  page 6  


Sound Mind, Sound Body
Bouvé: Where Tomorrow’s Health Care Leaders Flourish

The achievements of this academic year have been plentiful and illustrate the extraordinary talent of our students and faculty. Among the objectives that have framed our work this year has been our focus on the academic experience of our students. As you will see from the stories selected for this publication, we are proud of the multi-faceted engagements that comprise a Bouvé education. Students excel in the classroom with nationally and internationally recognized faculty; they participate in purposeful co-op placements with a multitude of organizations; they excel in sports; and they are mentored through research opportunities.

Bouvé is home to leaders who work tirelessly to ensure that our students acquire the expertise to make a difference in the world. We are blessed with a multitude of alumni, parents, and friends who take seriously their commitment to Bouvé as invaluable members of our extended community. Their companies provide co-op placements, internships, and positions upon graduation; they serve as volunteers mentoring students; and they share their resources. Examples of their philanthropic commitments are illustrated through their investment in scholarships, programmatic support, and student-faculty research funds.

The vision for our future has been captured in our strategic plan and we are moving ahead every day to make Bouvé best in class in our areas of excellence. Thank you for all you do to support our enterprise. Lastly, I hope all Bouvé alumni will join us on November 2nd as we celebrate the 50th anniversary of the School of Nursing and its distinguished legacy (see page 4).

Terry Fulmer, PhD, RN, FAAN
Dean, Bouvé College of Health Sciences
What does abstract expressionist art have to do with the nationwide shortage of nurses and nursing faculty? A lot.

Private art collectors Barbara and Donald Jonas put 15 of their most valuable artworks on the auction block to seed the Jonas Family Fund, established to fund a variety of philanthropic initiatives in the arts, education, and medicine. Intrigued and concerned by the national shortage of nurses, the Jonases launched a first-of-its-kind philanthropic program dedicated to advancing the nursing profession in New York City.

After learning that the Institute of Medicine estimates that more than 70,000 qualified candidates for nursing school are turned away every year due to a lack of faculty, they expanded their efforts to addressing that shortage as well. In 2008, they created the Jonas Nurse Leaders Scholar Program to increase the number of doctorally prepared faculty in nursing schools nationwide. This competitive, state-based program is intended to propel candidates with promise and leadership ability to a higher level of service.

This year, three Bouvé College PhD candidates who have demonstrated leadership qualities were chosen as Jonas Scholars: Ann Malley and Daniel David, in Massachusetts, and Kerry Nolte, in New Hampshire. Each scholar receives tuition support of $10,000 a year and funding to attend the 2013 Jonas/AACN Leadership Conference in Washington, DC.

Nolte received her BS in Nursing from Bouvé College in 2006 and her Master’s in Family Nurse Practice from the University of New Hampshire. She returned to Northeastern to pursue her PhD in part because of the Jonas Scholar Program, for which her mentors are Bouvé Dean Terry Fulmer and Professor Rachel Jones, whose area of expertise is HIV risk reduction in urban women.

For Nolte, the biggest perk of being a Jonas Scholar is the opportunity for leadership development. “It’s incredible to have such access to Dean Fulmer and Professor Jones. They have taught me how to advocate, how to reach my goals, and how to look at the big picture, which is crucial to long-term success in any program.”

Jonas Scholar Daniel David echoes her sentiments. “Terry Fulmer is a powerhouse and very generous with her time.” He describes his advisor, Elizabeth Howard, as “a mentor for what an academic should be.” After spending ten years as a biomedical scientist, David switched careers and completed his BS in Nursing at the University of Virginia. Since 2007, he has been a research nurse at Beth Israel Deaconess Medical Center (BIDMC) in Boston. A friendly conversation with a nurse practitioner in cardiology there led to his current research, which looks at the impact of nurse practitioners on cardiac patient outcomes.

David chose Northeastern because of its top-notch, patient-centered faculty. Thanks to the Jonas Scholar Program, he is attending faculty meetings, conferring with public health officials at the state and local level, and learning how to be an academic. “They have just opened the doors wide and said, ‘Come on in and watch how we do this,’” said David.

Ann Malley earned her BS in Nursing from Salem State College and an MS in Adult Primary Care from Bouvé. Deans Carole Kenner and Terry Fulmer serve as her leadership mentors. Her goal after finishing her PhD is to conduct research on quality and safety issues impacting nursing and patient care and to contribute to the formal and informal education of future nurses. “I am thrilled to be at Northeastern, to study with a nursing faculty whose expertise and commitment to nursing education is unparalleled.”

Dean Fulmer could not be happier that the Jonas Scholars Program has come to Northeastern: “Barbara and Donald Jonas are visionary philanthropists and the Northeastern University School of Nursing is honored to be a part of such an esteemed academic nursing network. Our three Jonas Scholars are dedicated to advancing the Jonas family’s vision for the next generation of nurse educators.”
Dr. Afaf I. Meleis will deliver the keynote address at the School of Nursing’s 50th Anniversary Celebration. Dr. Meleis is professor of nursing and sociology, the Margaret Bond Simon Dean of Nursing, and Director of the World Health Organization’s Collaborating Center for Nursing and Midwifery Leadership at the University of Pennsylvania School of Nursing.

Dr. Meleis has dedicated her more than 40-year career as a nurse,
Dr. Afaf I. Meleis, PhD, received dozens of awards and recognitions, including the Distinguished Faculty Award at the School of Nursing’s 50th Anniversary Celebration on November 2nd. She has devoted her career to educating future nurses and has been a treasured colleague, mentor, and friend to the students, faculty, and members of the broader community with whom she works. Professor Aroian arrived at Northeastern University in 1971 after serving as the director of nursing at Lourdes Hospital in New York. Her research focus is the development of nurse leaders by teaching, implementing, and testing the “Leader as Developer” model. Professor Aroian has also studied experiential education in depth and is currently validating the Nursing Administration Standards of Practice and Professional Performance and its learning outcomes in graduate education. She has published numerous articles and papers on nursing leadership. Professor Aroian received her BSN from the University of Bridgeport, an MSN from Catholic University of America, and an EdD from Northeastern University.

In recognition of her more than four decades of teaching and research at Bouvé, Associate Professor Jane Aroian, EdD, RN, will be presented the Distinguished Faculty Award at the School of Nursing’s 50th Anniversary Celebration on November 2nd. She has devoted her career to educating future nurses and has been a treasured colleague, mentor, and friend to the students, faculty, and members of the broader community with whom she works. Professor Aroian arrived at Northeastern University in 1971 after serving as the director of nursing at Lourdes Hospital in New York. Her research focus is the development of nurse leaders by teaching, implementing, and testing the "Leader as Developer" model. Professor Aroian has also studied experiential education in depth and is currently validating the Nursing Administration Standards of Practice and Professional Performance and its learning outcomes in graduate education. She has published numerous articles and papers on nursing leadership. Professor Aroian received her BSN from the University of Bridgeport, an MSN from Catholic University of America, and an EdD from Northeastern University.
Graduate education at Bouvé is thriving—with innovative programs designed to meet the needs of the health care, business, education, and public sector communities using the most advanced research and technology available. Bouvé had the first physician assistant graduate program in the country, and the innovation continues in our graduate programs in nursing, psychology, and the newly developed Professional Master of Science degrees created to address the demands of the growing biotech and pharmaceutical science industries. “Our graduate programs at Bouvé enhance our contributions to cutting-edge research in all areas of the health sciences, the educational experience of our students, and our reputation as a nationally recognized research institution,” said Dean Terry Fulmer.

Department of Pharmaceutical Science doctoral candidate Brendan Harmon is just one example of the many post-graduate students attracted to Bouvé’s cutting-edge programs. Harmon is collaborating with Professor Barbara Waszczak on gene therapy research that has been gaining recognition. Delivery of genes encoding therapeutic proteins to the brain is thought to have potential for treatment of neurodegenerative disorders, including Parkinson’s disease. Most studies, which so far have been conducted on animals, have used intracerebral injections of viral vectors to deliver genes to cells. However, safety concerns exist about invasive surgical methods to introduce genes to target brain areas as well as the current practice of using deactivated viruses as vectors to introduce genetic material into cells. Harmon’s research involves using non-viral vectors administered nasally. The work relies heavily on collaboration with Copernicus Therapeutics, Inc., a company that has developed a non-viral DNA nanoparticle delivery technology to transport genes to cells in the brain. The technology is non-immunogenic and non-inflammatory.

“My research shows that intranasal delivery can provide a non-invasive shuttle for Copernicus’ nanoparticle vectors directly to the brain, allowing a safe and effective means for GDNF gene therapy,” said Harmon.

Yailka Cardenas is a graduate of Bouvé’s Master of Public Health in Urban Health Program. The graduate program has a long-standing partnership with the Boston Public Health Commission’s (BPHC) Bureau of Addiction Prevention, Treatment, and Recovery Support Services. Thanks to that partnership, in 2011, Yailka received an internship that allowed her to apply her training and skills in assisting the bureau’s leadership with the implementation of new research programs and initiatives aimed at substance abuse prevention and treatment.

Cardenas was recently hired by the BPHC as the manager of their PAATHS Program, a one-stop shop for individuals and families looking for information and support related to substance abuse treatment. In her new role, she is responsible for overseeing the development and operation of this new service designed to better connect Boston residents with available treatment. “The education I received from Northeastern definitely prepared me for my work in this area,” says Yailka.
Drug Targeting Research Lauded

Chemotherapy drugs are known as much for their negative side effects as for their ability to treat cancer. That’s because the small molecules used to kill tumor cells also kill healthy cells. Targeted drug delivery diminishes chemotherapy’s side effects by delivering drugs directly into the diseased cells, leaving the healthy ones unharmed.

One of the pioneers in this field, Bouvé’s Distinguished Professor of Pharmaceutical Sciences Vladimir Torchilin, was recently awarded the 2012 Lifetime Achievement Award by the Journal of Drug Targeting, which will publish a special issue highlighting his groundbreaking work and the research it inspired.

As director of Northeastern’s Center for Pharmaceutical Biotechnology and Nanomedicine, Torchilin is the second-most-cited scientist in his field. He is best known for developing liposomal drug carriers, microscopic “passenger trains” that transport drugs to their desired final destination. This method is used in gene therapy to replace mutated genes or to turn off troublesome genes and in anti-cancer therapies. Torchilin compares the liposomal carriers to “Trojan horses, delivering chemotherapy directly to the cells we want to destroy.”

According to Torchilin, tumor cells have many more receptors for particular molecules than healthy cells. For example, they can have at least a dozen times more receptors for folic acid than noncancerous cells. So when Torchilin’s liposomes are tagged with folic acid, they bind to cancer cells much more often than to healthy cells.

Torchilin’s method can also be used to target defective cells associated with other diseases. His work is particularly relevant for lysosomal storage diseases, a collection of inherited diseases that affects one in every 5,000 to 10,000 people worldwide. The lysosome contains enzymes that break down unwanted particles in the body and turn them into usable forms. Lysosomal storage diseases result when one or more of these enzymes is absent. Torchilin’s method allows for the targeted delivery of the depleted enzymes directly to the lysosome.

The current treatments for these diseases are very expensive. “If you can utilize much less of the enzyme, the delivery system becomes more cost effective and you can save more lives,” Torchilin said. “And that’s the goal of this lab, to save lives.”

This much-lauded scientist may be modest, but his goals are not.

Pharmacy Scholarship Continues to Grow

Melvin and Martha Aronson established the Melvin Aronson Family Scholarship endowment in 2006. Recently they added to this endowment with another generous gift of $50,000. This scholarship supports an undergraduate student enrolled in the School of Pharmacy based on his or her academic performance and financial need. This year’s recipient is Susanna Chang ’13. An endowed scholarship of this kind celebrates the potential of a worthy young person each year and serves to educate them about philanthropy and the power of giving back later in their own lives.

Melvin and Martha Aronson have led the way over many years as devoted volunteers and supporters of Northeastern University. Melvin received a degree in pharmacy in 1956. He is particularly passionate about the value of the co-op experience for students and remembers fondly his own co-op placement. Among Melvin’s many achievements in support of Bouvé was his participation in the initial committee that came together to envision the Health Sciences Entrepreneurs Program in 2006. Mentoring is central to the work of this program and is truly a hallmark of what Melvin has valued most over the years.

The Aronsons are definitely a proud Husky family with a son who graduated in 2008 and a granddaughter, Jennifer, who plans to commence as a graduate student in the Physical Therapy Program in 2013. Bouvé College is proud and grateful for the engagement of Melvin, Martha, and their family in the future of Bouvé and its students.

“That’s the goal of this lab, to save lives.”

Professor Vladimir Torchilin
Growing up on a farm in Southwest-ern Ontario, Deanna Kerkhof, ’13, has been playing basketball since the third grade. She’s played for a number of different teams in Cana-da and the U.S. and was a member of the U15 Team Ontario that won the gold at the Canadian Nation-als. Deanna chose Northeastern for its combination of location, aca-demics, and athletics. “I wanted to step out of my comfort zone… and experience the city.” Over the past few years, the Northeastern women’s basketball team has be-come a contender in the CAA and Deanna has been no small part of that transformation. This year she was picked as one of three cap-tains of the team. Hoping to pursue a career in medicine, Deanna, a Health Sciences major, has con-sistently made the Dean’s List and was a member of the CAA Com-missioner’s List (2010, 2011, 2012, 2013), Northeastern Women’s Basketball Scholar Athlete (2011–2012), and the Jeanne L. Rowlands Award (2010–2011, 2012–2013).

Award-winning cross country and track and field athlete, as well as consistent Dean’s List nursing stu-dent, Meegan Joly, ’13, hits the ground running every day—literally. Having been offered an NCAA Division I Cross Country and Track Scholarship, Meegan chose Northeastern because of the emphasis its athletic depart-ment places on balancing one’s athletic and academic careers, its urban location, its co-op program, and its accessibility to some of the country’s top medical institutions. As a nursing student, Meegan has completed three co-ops at Mass. General Hospital and Beth Israel Deaconess Medical Center—with her most memorable being a co-op at the Neonatal Intensive Care Unit at BIDMC. “Co-ops are key,” explains Meegan. “My co-op ex-périences have helped solidify my career choice and given me more clinical practice than any other nursing program could offer.” She attributes her academic success in the nursing program to the discipline and work ethic she developed competing as an athlete during her adolescent and early adult years.

The opportunity to combine Divi-sion I sports with great academics and co-op also attracted Euro-pean swimming champion Anna Schegoleva, ’17, to Northeastern’s School of Pharmacy. This former National Champion of Cyprus, Champion of Greece, European Junior Champion, and finalist in the Junior Olympic Games in Singapore already has five school records at Northeastern and has been awarded “CAA Swimmer of the Week” while making the Dean’s List the last two years in a row. While balancing athletics with academics can be tiring, Anna finds satisfaction in meeting the challenge and is looking forward to her first co-op experience this summer.

Academic and athletic scholar-ship recipient Stephen Sollowin, ’17, decided to pursue a career in physical therapy after working with his mother, a physical thera-pist. A native of Weymouth, MA, Stephen explains: “Northeastern attracted my attention because it had one of the best physical ther-apy programs around, the co-op
program increased my chances of getting a job placement right after school, and I loved the small campus feel in the middle of the city.” For Stephen, physical therapy and athletics naturally go hand in hand. “I ran cross country for three years in high school and track and field all four years. I was captain of my team for both my junior and senior years.” While juggling academics and athletics on the collegiate level can be challenging admits Stephen, “I try to be smart with time management.”

Growing up in San Leandro, CA, Megan Kehoe, ’16, never thought she’d leave the West Coast. But she did know she wanted to study physical therapy and after learning about Bouvé College’s Doctorate of Physical Therapy Program and its co-ops, she decided it suited her professional goals. She also finds Boston a “beautiful, fun, lively city that reminds me of home and San Francisco.” Megan plays volleyball—a sport she’s played since she was ten years old—for Northeastern’s varsity team. She finds her athletic and academic pursuits mutually beneficial and enriching: “When I am working out or just at practice, I sometimes get lost in thinking about what muscles I am using … my teammates ask me questions about injuries they think they have…how to stretch certain muscles, etc.” This past fall, she did her first co-op at the Spine Center of the Dedham Health and Athletic Complex. “I was able to work directly with patients, helping them through their exercises on machines and free weights, taking their range of motion, and leading stretch classes.”

Paralympic swimming champion and physical therapy student Kelley Becherer, ’15, has won three gold medals and four bronze medals from the London 2012 and Beijing 2008 Paralympics. She is also the holder of many American and Pan American records, as well as a world record. A native of Sheboygan, WI, Kelley says many things drew her to Northeastern: “The fact that the PT program is a doctorate program was a big selling point. But mainly I fell in love with Boston. I had never been anywhere in New England before looking at colleges. I love the campus and the fact that it is a hiatus in the middle of a big city. I was ready for new things, new people, and to move out of the Midwest. Plus, the swim team and coach here are amazing.” In terms of negotiating the demands of being both an athlete and full-time student, says Kelley: “The support that I have gotten from my teachers and the athletic support staff has been unreal. Both are willing to work together to help me do my best with minimum stress about managing my time.”

“Northeastern has one of the best physical therapy programs, and the co-op program increased my chances of getting a job.”

Stephen Sollowin
A Team Effort

A team of three pharmacy students took first place in a national clinical pharmacy challenge, besting student teams from 90 other U.S. schools of pharmacy in a test of their clinical knowledge and ability to solve complex patient cases. Sixth-year pharmacy students Matt Lord, Libbi Rice, and Adam MacLasco credited team chemistry — having been friends since their freshman year — as a critical factor in their ability to work together to successfully meet the challenge.

Modifying Accents

Northeastern University draws students from 125 countries around the world. To address the communication needs of these students, the Speech-Language and Hearing Center at Bouvé is offering an accent modification program. The aim of the program is not to completely eliminate the accents of foreign speakers, but to make their speech more understandable. Completion of an accent modification program can have beneficial effects on job performance, educational advancement, and self-esteem.

For more information, contact Sarah Young-Hong at s.young-hong@neu.edu or 617-373-3046.

Faculty Distinction

Congratulations to the following faculty who have been elected as Distinguished Scholars and Fellows in the National Academies of Practice (NAP): Steve Alves, School of Nursing; John Devlin, School of Pharmacy; Elizabeth Howard (not pictured), School of Nursing; Dean Carole Kenner, School of Nursing; Laura Mylott, School of Nursing; and Jenny Van Amburgh, School of Pharmacy. The recipients of this honor are considered the most accomplished practitioners in their fields. The formal induction into the academy took place in Alexandria, VA last month.

Alumni Entrepreneurs Make an Impact

Bouvé is proud of an active alumni and friends base willing to volunteer their time and talent to our Northeastern community. One exceptional example of this is our Health Sciences Entrepreneurs (HSE) group focused on educating and mentoring alumni, students and faculty in the creation of new business ventures. The educational component of the work focuses on important topics including our March program, “Funding your Venture” presented by Dr. Roy Miller, E ’62, entrepreneur and HSE mentor. Our next event, “Anatomy of a Business Venture” will be held Thursday, May 30. The program, open to all alumni, will feature Carl Lebel, PhD ’89, Chief Scientific Officer, Otonomy, Inc., as moderator, with speakers Joseph Sansone, CPS ’74, Founder & CEO of Pediatria HealthCare LLC; Steven Picheny, E ’64, Founder, St- epic Medical Corp.; and Kathleen Hagan, President, Hagan & Company.

WooFood — The Healthy Choice

We’ve all been there. We walk into a restaurant with every intention of ordering a healthy salad and walk out with a bacon, cheddar, and chili cheeseburger drenched in Russian dressing. But, according to Bouvé Health Sciences alumnus Mitchell Li, ‘09, it’s not our fault. “We live in an obesogenic society,” he says. In response, Mitch Li and fellow UMass Medical School students Matt De Wolf and Adam Chin have started a company called WooFood (woofood.org), which continued on page 11.
The Robert Schiesske Scholarship Fund

Caring for an aging parent can be a daunting task for family members. Ensuring comfort and dignity during this stage of a person’s life are paramount concerns for the caregiver. Nurses play an invaluable role supporting the needs of the older adult in various care settings, while simultaneously giving strength and knowledge to families.

Robert Schiesske, a friend of Northeastern University, turned this kind of personal experience into an opportunity to recognize the importance of nursing education with a generous bequest in support of the School of Nursing. The Robert Schiesske Endowed Scholarship Fund celebrates the education of future nurses who pursue their studies in the School of Nursing. The curriculum these students experience during their five years of study ensures that they acquire the essential skills and knowledge required to provide expert care to people of all ages, with a special emphasis on the unique needs of an aging population. While Mr. Schiesske did not attend Northeastern as a full-time undergraduate, he is proud to note that his ties to the university include his father’s pursuit of night courses in the 1950s and his own attendance at computer sciences classes offered at Weston High School in the 1970s. He is proud of this history and hopes that his gift will make an impact on generations of students in the future.

Mr. Schiesske’s vision for his bequest to endow a scholarship recognizes the centrality of the nurse’s role and the importance of an education that takes great care in providing a rigorous curriculum, research opportunities with faculty, and experiential learning through clinical placements and co-op experiences—many of which are designed specifically to impart a deepened understanding of the care of the older adult. The fruits of Mr. Schiesske’s investment will be a permanent part of the Bouvé School of Nursing community, impacting current students and in time, grateful alumni. This fall, the School of Nursing will celebrate its 50th anniversary and we welcome the engagement of our alumni, parents, and friends in this landmark moment for the school.

To learn more about making a bequest, please contact Elizabeth Hill in the Office of Gift Planning at el.hill@neu.edu or 617-373-3502.

continued from page 10

works with restaurants to develop healthful dishes and innovative strategies to put those dishes in front of us.

Using insights from behavioral economics, choice architecture, and choice psychology, WooFood works with restaurants to make healthy eating attractive. According to Li, for a restaurant to get certified, the food must be delicious, creatively named, and easy to order. So far, they have certified over a dozen restaurants in the Worcester, MA area.

WooFood has been so successful that demand for its services is already too much for the three busy medical students. Li has applied to Bouvé’s Health Sciences Entrepreneurs (HSE) Program to get advice and mentorship on how to balance it all.

Noël Appel Joins Bouvé College

Bouvé College welcomes Noël Appel as its new associate dean and director of development. Formerly assistant vice president for development at Fairfield University in Connecticut for 15 years, Appel was responsible for raising funds from private foundations and securing support for faculty research, financial aid, and university-wide initiatives. Appel worked collaboratively with administrators and faculty to launch and manage development-focused advisory boards in the College of Arts and Sciences, the School of Nursing, the Center for Faith and Public Life, and the Graduate School of Education and Allied Professions. She also managed a portfolio of 300 major gift prospects in Washington, DC, Long Island, and New York City.

Previously, Appel served as the executive director of the Westchester/Putnam School-to-Careers Partnership for the Southern Westchester Board of Cooperative Educational Services in Westchester, NY. She began her career in human resources at Booz and Company, the international management-consulting firm. She holds a BA with a major in English and an MA in Communications, both from Fairfield University.

Noël has been visiting since January with alumni in Florida, California, New Jersey, New York, Connecticut, and Massachusetts. She looks forward to meeting you. Please contact her at m.appel@neu.edu or by phone at 617-373-2637.
A Florida Reunion

Alumni and friends gathered for a mini Boston-Bouvé reunion in St. Petersburg, Florida in February.


Contact Us

To learn more about supporting Bouvé College of Health Sciences, please contact:

Noël Appel
Associate Dean & Director of Development
215 Behrakis Health Sciences Center
Northeastern University
360 Huntington Avenue
Boston, MA 02115
617-373-3547
m.appel@neu.edu

For contributions and story ideas for fall 2013 issue contact Julie Norton, Editor, at j.norton@neu.edu

visit us at
www.northeastern.edu/bouve

Has your address changed?

Send changes to:
Office of Alumni Records
118 Cushing Hall
Northeastern University
360 Huntington Avenue
Boston, MA 02115

or online at
www.neu.edu/alumni/update.html