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2014 YEAR IN REVIEW

medicine

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- ▶ New UVM Health Network:
Interview with John Brumsted, M.D.
- ▶ Department, Center & Gift Reports for 2014





UNIVERSITY OF VERMONT COLLEGE OF MEDICINE

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The UVM College of Medicine Fund

Annual giving to the College supports programs and projects that directly benefit medical students. Each year, the College of Medicine Fund not only funds medical student scholarships, but also student research projects, grants for conferences and international experiences, wellness initiatives, white coats, and more.

The Ira Allen Society

Named for the University's founding father, the Ira Allen Society represents the pinnacle of philanthropy to the University of Vermont. Ira Allen Society members believe in the importance of creating educational opportunities and transforming the lives of our students. As an Ira Allen member, your support is essential to the future of the UVM College of Medicine. A gift of \$2,500 or more in any one fiscal year (July 1–June 30) qualifies you as an annual member of the Ira Allen Society. This includes all cash gifts and corporate matching gifts, as well as credit for donor-advised funds and private foundation gifts.



The University of Vermont
COLLEGE OF MEDICINE

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New appointments at the College and Medical Center; an academy of extraordinary educators; white coats for first-year students, and more.

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Tying it Together

The College's main clinical teaching partner changed its name in November to The University of Vermont Medical Center. One of the lead figures in that effort, medical center CEO John Brumsted, M.D., talks about the ways this new approach will benefit the University, the medical center, and the region in the years to come.



Insight & Inspiration

For first-year medical students, days are filled with intensive integrated learning of basic science and clinical application. Along with that comes Professionalism, Communication & Reflection: a course that leads students toward a more effective understanding of themselves and their relationships with their patients.

By Erin Post



The Hidden System

Vermont Center on Behavior & Health researchers explore the choices people make that can have as much effect on people's health as disorders that arise from the recognized systems of the body. Finding ways to work within this hidden system and guide patients toward positive change is the mission of these physicians and scientists.

By Joshua Brown

WebXtras in this issue:

- The College Catalogue of 1885
- White Coat Alumni Note Project Video
- Full coverage of Class of 2018 White Coat Ceremony
- An extended talk with UVM President Tom Sullivan and John Brumsted, M.D.

Go to: uvm.edu/medicine/vtmedicine



ON THE COVER: Isobel Santos '17 talks to a patient at The University of Vermont Medical Center. Photography by Andy Duback.



The College of Medicine is on Facebook, Twitter, and Instagram. Check in to see what's happening today!

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FROM THE DEAN

2014 was truly a year of notable change and improvement across our medical campus and at our partner institutions. Closest to home — literally at the edge of our campus — our clinical teaching hospital, Fletcher Allen Health Care, changed its name to The University of Vermont Medical Center, and its system of affiliated facilities across Vermont

and northern New York officially became The University of Vermont Health Network. As my colleague, medical center and health network CEO John Brumsted, M.D., describes in this issue, this change has been talked about for years, and is the natural outgrowth of the close working relationship of our institutions that stretches back for 135 years. I believe the College and University gain from this change an increasing national awareness of our unified academic medical center.

Our research efforts continue their strong results. Despite the continuing challenges faced by researchers nationwide in securing National Institutes of Health research support, scientists and physicians at the College secured \$81.4 million dollars in funding in fiscal year 2014. One of the highlights of our research success has been the work of Virginia H. Donaldson M.D.'s Professor Stephen Higgins, Ph.D., and his colleagues at the Vermont Center on Behavior and Health. This new center has been a model of interdisciplinary research, bringing together investigators from across the University to explore the relationship between personal behaviors and chronic disease, and to develop effective interventions. Not only is this center an example of effective cooperation within the University, it also serves as a model of community and public policy engagement.

This past year has also seen another class of vibrant, enthusiastic students join our ranks. In November, at one of the most significant ceremonies at the College, the Class of 2018 received their first white coats and began their clinical education. This year there was a special new dimension to the ceremony: each student found in his or her white coat pocket a message of encouragement from an alumnus of the College. I know this was appreciated by the students and I'm pleased that so many of our busy alumni took the time to write down their thoughts and send them in. I'm not surprised that they did so — we've always had one of the most engaged alumni bodies in the nation, as projects such as this clearly demonstrate.

I would also like to thank those alumni, and the many other friends and supporters of the College, for their generous philanthropy over the past year, which is reported in this issue. This record achievement is a wonderful measure of our connection as a community that shares the mission of the College, and we are deeply grateful.

Frederick C. Morin III, M.D.

Dean, University of Vermont College of Medicine

VERMONT medicine

2014 YEAR IN REVIEW
PUBLISHED JANUARY 2015

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COLLEGE NEWS

Whalen Named President and COO of UVM Medical Center

Eileen Whalen, M.H.A., R.N., was appointed President and Chief Operations Officer of The University of Vermont Medical Center on January 2.

Whalen has more than 35 years of experience in health care. She comes to the UVM Medical Center from Harborview Medical Center in Seattle, Wash., where she served as the chief executive. Harborview is the largest public hospital in the State of Washington and an academic medical center part of the UW Medicine Network. Prior to her tenure at Harborview, she served as executive vice president at the University of Arizona Medical Center in Tucson.

Whalen is a nationally recognized trauma systems expert and a founding member and past president of the Society of Trauma Nurses, and she served as editor of the *Journal of Trauma Nursing*



Eileen Whalen, M.H.A., R.N.

Kirkpatrick Appointed Interim Associate Dean for Clinical Research

Beth Kirkpatrick, M.D., professor of medicine and founding director of the Vaccine Testing Center, has been appointed to serve as interim associate dean for clinical research at the College of Medicine. She succeeded Richard Galbraith, M.D., Ph.D., who served as associate dean for patient-oriented research, and was appointed UVM Vice President for Research earlier in 2014.



Beth Kirkpatrick, M.D.

Kirkpatrick reports to the senior associate dean for research, and has responsibility for exploring new and expanded opportunities for clinical research projects and programs, developing internal and external collaborative relationships, facilitating career development for faculty pursuing such research, and overseeing clinical research administration. Kimberly Luebbers, M.S.H.S., R.N., B.S.N., O.C.N., assistant dean for clinical research administration, reports to Kirkpatrick.

An internationally recognized scholar in the field of infectious diseases, Kirkpatrick specializes in translational immunology and vaccine development. She has served on a number of national committees, including the Infectious Disease Society of America and the American Society of Tropical Medicine, which awarded her the 2012 Bailey K. Ashford Medal for distinguished work in tropical medicine. She has also served as a reviewer for numerous journals in her field and is a section editor of the *American Journal of Tropical Medicine and Hygiene*.



from 1993 to 2006. Whalen will report to John Brumsted, M.D., who will retain the position of chief executive officer at the medical center as well as his position as president and chief executive officer of the University of Vermont Health Network, the four-hospital integrated health network serving Vermont and northern New York. Whalen's position combines the role of president with that of the chief operating officer.

Larner Classroom Debuts

The Larner Classroom celebrated its grand opening November 5, with a gathering in the new space and remarks from several College of Medicine officials. Also on hand were family members of **Robert Larner, M.D.'42**, the alumnus whose \$1 million gift made the classroom possible. Located at the front of the Dana Medical Library, the classroom gives the active and team-based learning already happening at the College of Medicine a more fitting home with cutting-edge technological support.

The 2,820-square-foot classroom accommodates 120 students with flexibility for both small- and large-group functions. Unlike a lecture hall with stationary chairs and tiered seating, students in the new classroom can work as teams in small groups at tables around the room, and easily transition to instruction as a larger group when necessary.



The ribbon is cut to open the Larner Classroom on November 5.

Student Notes

Shear and Cipri Develop Sexual Health Texting Service for LGBTQ Youth

Schweitzer Fellows and University of Vermont medical students Leah Cipri and Matthew Shear are partnering with Outright Vermont to empower LGBTQ+ youth throughout Vermont, New Hampshire, and upstate New York to start getting “sassy” about their sexual health. LGBTQ youth ages 13 to 22 can now get confidential answers to their questions by texting 724-888-SASS (7277). Shear and Cipri were supported by Outright and an Albert Schweitzer Fellowship.



Matthew Shear '17 and Leah Cipri '17

Two Students Receive VMS Scholarships

Class of 2016 medical students Tara Higgins and Whitney Thomas, were each recognized with a Vermont Medical Society Foundation Scholarship of \$5,000 at the Society's annual fall meeting. Offered through the VMS Education and Research Foundation (VMSERF), the scholarship is awarded annually to medical students who are committed to practicing medicine in Vermont and caring for Vermonters.



Dean Morin with Whitney Thomas '16 and Tara Higgins '16.

Sen. Bernie Sanders and VA Secretary at the College

A new Federal law has infused billions of dollars in funding into the U.S. Department of Veterans Affairs (VA) to support increased VA hospital residency slots and provide substantial debt assistance to physicians. On October 13, U.S. Senator Bernie



Senator Bernie Sanders, left, and U.S. Veterans Administration Secretary Robert McDonald, meet UVM Class of 2017 medical students Carl Nunziato and Christopher Mayhew during their visit on October 13, 2014.

Sanders and U.S. Department of Veterans Affairs Secretary Robert McDonald presented a special session, titled “Federal Loan Forgiveness Program and Veterans Affairs Employment Opportunities,” to a standing-room-only crowd in Carpenter Auditorium at the College of Medicine. UVM President Tom Sullivan, and College of Medicine Dean Rick Morin, as well as several representatives from the White River Junction VA, were in attendance.

Red Wheelbarrow Features Literature & Art

The College of Medicine student-edited literary and arts magazine, The Red Wheelbarrow recently published its 2014 issue. Named after the title of a poem by American poet and physician William Carlos Williams, the magazine can be viewed online at uvm.edu/medicine/mededucation.



COLLEGE NEWS

Teaching Academy Hosts Inaugural Event, Inducts Charter Members

The College of Medicine Teaching Academy was formally launched at the annual Office of Medical Student Education Stick Season Retreat, held in early December, with presentations, workshops, a poster session and the induction of charter members into the Academy.



at the University of Vermont College of Medicine

Professor of Pediatrics Ann Guillot, M.D., serves as interim director of the Academy, which aims to foster a scholarly approach to medical education, nurture faculty professional development and advancement, and guide curricular innovations through a collaborative, cross-departmental process.

“There has always been respect for teaching here, but the way that the academy will be a game-changer will be to elevate the scholarly work of medical education to a level that parallels the importance of patient care and basic science research, and to provide a very rich context for improvement and articulation of that work for faculty members,” says Guillot.

The Stick Season Retreat kicked off with an evening reception and poster session that showcased more than 40 educational scholarship projects. College of Medicine Dean Rick Morin noted that the retreat's record attendance of more than 135 faculty demonstrates the commitment to the College's education mission, and acknowledged the work of event co-chairs Timothy Fries, M.D., professor of neurological sciences, and Judith Lewis, M.D., professor of psychiatry. Dean Morin also announced a \$1 million commitment from alumnus Robert Larner, M.D., for an endowed professor of medical education who will serve as Director of the Teaching Academy.

The Academy, with funding from clinical chairs, the general fund and gifts, was launched after four years of planning by a task force and input from more than 100 people from all College departments.

“We tapped into a pent-up demand among the faculty to recognize, reward and nurture teaching,” says William Jeffries, Ph.D., senior associate dean for medical education.

Dr. Guillot announced the charter members of the Teaching Academy, a group of faculty from the Steering Committee and Task Force who piloted and refined the process of submitting portfolios for internal and external review at the different membership levels. More information can be found at uvm.edu/medicine/teachingacademy.

Research Notebook

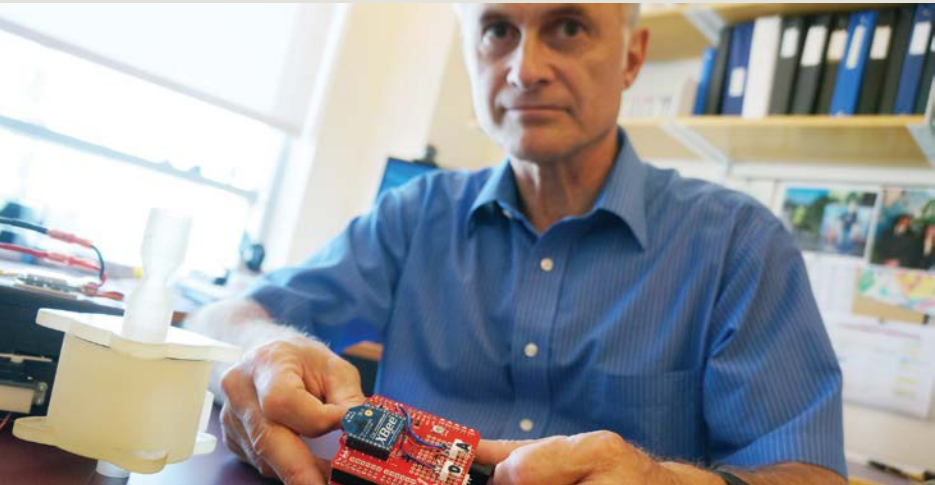
UVM VTC Receives Gates Grant for Dengue Work

Researchers Sean Diehl, Ph.D., and Beth Kirkpatrick, M.D., of the UVM Vaccine Testing Center (VTC), along with UVM colleagues Jon Boyson, Ph.D., and Jason Botten, Ph.D., recently received a three-year \$2.2 million grant from the Bill and Melinda Gates Foundation to study the immunological basis of protection from dengue fever, a mosquito-borne viral disease that affects as many as 400 million people annually. No directed therapeutic options or licensed vaccines currently exist for dengue, says Diehl, an assistant professor of medicine. In addition to UVM VTC investigators, the team includes researchers from the Johns Hopkins Bloomberg School of Public Health, the National Institute of Allergy and Infectious Disease, the La Jolla Institute for Allergy and Immunology, the University of North Carolina, and



From left: Sean Diehl, Ph.D., Jason Botten, Ph.D., Jon Boyson, Ph.D., and Beth Kirkpatrick, M.D.

Atreca, Inc. Diehl and Kirkpatrick, UVM professor of medicine and VTC director, and colleagues will be conducting and coordinating research that examines how the immune system recognizes dengue virus in an effort to confirm the protective effects of new vaccines in development.



UVM professor of medicine and a 2014 SPARK-VT grant awardee Jason Bates, Ph.D.

UVM Expands SPARK-VT Program

SPARK-VT, an initiative that helps bring promising research discoveries to the marketplace that was began in 2012 by the Department of Medicine, was expanded this fall to call for proposals from faculty across the University. UVM Provost David V. Rosowsky, Ph.D., and Vice President for Research Richard Galbraith, M.D., Ph.D., are champions of the SPARK-VT program, which will accelerate the translation of new knowledge into tangible benefits to society. Designed to facilitate the discovery-to-innovation-to-commercialization process, the program connects UVM faculty with leading experts from the biotech, pharmaceutical, business and legal fields and provides seed grant funding to move the best project ideas forward.

Professor Polly Parsons, M.D., E.L. Amidon Chair of Medicine, modeled the UVM pilot program after the Stanford University School of Medicine's SPARK program. A key element of the SPARK-VT program is a series of workshops that help researchers hone their ideas into viable proposals for clinical translation and commercialization. In addition to the UVM Office of the Provost and UVM Office of the Vice President for Research, collaborators in the university-wide initiative include the UVM Office of Technology Commercialization, as well as the Vermont Center for Emerging Technologies, and the Vermont Agency of Commerce and Community Development.

COLLEGE NEWS

Playing Music Can Improve Children's Brains

Children who play the violin or study piano could be learning more than just Mozart. A UVM child psychiatry team has found that musical training might also help kids focus their attention, control their emotions and diminish their anxiety. Their research is published in the *Journal of the American Academy of Child & Adolescent Psychiatry*. James Hudziak, M.D., professor of psychiatry and director of the Vermont Center for Children, Youth and Families, and colleagues including Matthew Albaugh, Ph.D., and graduate student research assistant Eileen Crehan, call their study “the largest investigation of the association between playing a musical instrument and brain development.” The research continues Hudziak's work with the National Institutes of Health Magnetic Resonance Imaging (MRI) Study of Normal Brain Development.



James Hudziak, M.D.

Study Finds Blood Type and Memory Loss Link

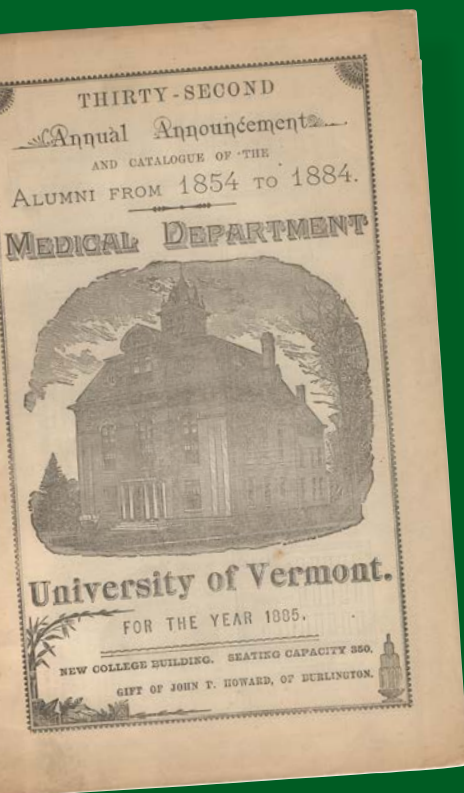
People with blood type AB may be more likely to develop memory loss in later years, according to a study published by Kristine Alexander, Ph.D., postdoctoral fellow in medicine, and Mary Cushman, M.D., M.Sc., professor of medicine, and colleagues in a September issue of *Neurology*, the medical journal of the American Academy of Neurology. AB is the least common blood type, found in only about four percent of the U.S. population. The study found that people with AB blood were 82 percent more likely to develop the thinking and memory problems that can lead to dementia. Previous studies have shown that people with type O blood have a lower risk of heart disease and stroke, factors that can increase the risk of memory loss and dementia.



Kristine Alexander, Ph.D.

Looking Back

THE COLLEGE AT-A-GLANCE IN 1885



The year 1885 was a turning point for the UVM College of Medicine. Thanks to the generosity of Burlington philanthropist John Purple Howard, the school opened the doors that year on its second home, a renovated mansion at northern end of the University Green that would house the school for 20 years, till its destruction by fire in 1904.

This recently discovered copy of the Annual Announcement and Catalogue of the "Medical Department" of UVM contains in its 32 pages a review of the entire curriculum of the College at that time, and a host of details of daily life of the medical student of the 19th Century.

The 12-week lecture session ran from March

through June. The cost: \$115 in tuition and fees, plus \$3.50 to \$5.00 per week for board. All medical students received half-fare discounts on steamboat and railroad travel to and from Burlington. The faculty consisted of nine men, some of whom traveled from as far as New York City and Washington, D.C. to present their lectures. The catalogue writer took particular pride in noting that doses of medicines would be taught entirely in the metric system: "This, it is believed, is not only the first but the only school in which this system has been systematically taught."

The booklet also contains a listing of all alumni of the College from its reorganization in the mid-1850s till the mid 1880s.



Read the entire 1885 Catalogue.
Go to: uvm.edu/medicine/vtmedicine

COLLEGE NEWS



From left, UVM College of Medicine Dean Frederick Morin, M.D., Wanda Heading-Grant, Ed.D., Tiffany Delaney, and Margaret Tandoh, M.D.

College's Efforts Recognized in UVM HEED Award

The University of Vermont was recognized with a 2014 Higher Education Excellence in Diversity (HEED) award by *INSIGHT Into Diversity* magazine, the oldest and largest diversity-focused publication in higher education. The HEED Award is a national honor that recognizes U.S. colleges and universities that demonstrate an outstanding commitment to diversity and inclusion.

"I am honored that the University of Vermont is being recognized for our more than two decades of engagement in strategic diversity work," said Wanda Heading-Grant, Ed.D., vice president for Human Resources, Diversity and Multicultural Affairs. "Our success is made possible through the support of our many campus partners and institutional leadership."

INSIGHT Into Diversity magazine selected UVM based on its exemplary diversity and inclusion initiatives and ability to embrace a broad definition of diversity on its campus, including gender, race, ethnicity, veterans, people with disabilities and members of the LGBTQ community as well as all other identities.

A number of the UVM initiatives and events recognized by *INSIGHT Into Diversity* are generated by the UVM College of Medicine, including the College's Statement on Diversity & Inclusion and establishment of the Office of Diversity and Inclusion; Dean's Advisory Committee on Diversity & Inclusion; Vermont Integrated Curriculum's diversity and health equity content; admissions application; hiring practices; faculty and staff training; demographic survey; summer research outreach programs for undergraduate minority students; "Health Equity Film Series;" Annual Family Medicine Diversity in Healthcare Conference; among other efforts.

"Through collaborations across our academic medical center and the greater UVM community, the College of Medicine Office of Diversity & Inclusion is working hard to foster and maintain diversity, equity and inclusion in all aspects of our mission to provide culturally competent medical education, discovery and patient care," says Margaret Tandoh, M.D., associate dean for diversity and inclusion and assistant professor of surgery. "This award provides recognition for that collaborative work, which is helping cultural transformation take place at UVM."

COM Design & Photography

Notables

New Vermont Oxford Network Agreement

Based on a long history of collaboration and support, the University of Vermont College of Medicine and Vermont Oxford Network (VON) formalized their relationship on November 14, when Dean **Rick Morin** and **Jeffrey Horbar, M.D.**, VON chief executive and scientific officer and holder of UVM's Lucey Chair in Neonatal Medicine, signed an Educational and Scientific Cooperation Agreement. Founded in 1988 by UVM Professor of Pediatrics Emeritus Jerold Lucey, M.D., VON is a nonprofit voluntary collaboration of health care professionals representing neonatal intensive care units and level I and II care centers around the world. The VON Database, which currently enrolls 90 percent of all very low birth weight infants born



Jeffrey Horbar, M.D. (right) shakes hands with Dean Morin at the signing of the agreement.

each year in the U.S., serves as a crucial driver of quality improvement.

Frymoyer Scholars Recognized



Left to right: Hiram Der-Torossian, M.D., M.P.H.; UVM College of Nursing and Health Sciences Dean Patricia Prelock, John Brumsted, M.D.; John Frymoyer, M.D.; Dean Rick Morin, M.D.; Charlotte Reback, M.D.; Anne Dougherty, M.D. '09; and Senior Associate Dean for Medical Education William Jeffries, Ph.D.

Three faculty members from the University of Vermont College of Medicine were named Frymoyer Scholars in 2013 and 2014 for project proposals that stand to improve the doctor/patient relationship and enhance clinical education. **Charlotte Reback, M.D.**, **Hirak Der-Torossian, M.D., M.P.H.**, and **Anne Dougherty, M.D.'09**, were celebrated at a Frymoyer Scholars luncheon held at the College on September 19. Founded in 1999 and supported by the John and Nan Frymoyer Fund for Medical Education, the Frymoyer Scholars Program supports innovative projects that promote teaching that emphasizes the art of patient care.

College Holds Inaugural LGBTQ Events

The first **Vito D. Imbasciani, M.D.'85** and **George DiSalvo** LGBTQ Health Equity Lecture took place at the College of Medicine on December 12. Presented by the Office of Diversity & Inclusion, the inaugural lecture, titled "It's a Rainbow World: Caring for a Diverse Population," was presented by Dr. Imbasciani. Established through a generous gift from Imbasciani and his spouse, George DiSalvo, M.D., the Imbasciani-DiSalvo Lectureship Endowed Fund aims to ensure the preparation of culturally-competent

physicians who can provide medical care and prevention services that are specific to LGBTQ populations. In conjunction with the lecture, students at the College hosted medical students from four schools in the Northeast with a goal to form a coalition dedicated to improving LGBTQ+ health through medical education.



Dr. Imbasciani, right, meets with students

COLLEGE NEWS

Webster New Cancer Center Administrator

The University of Vermont Cancer Center welcomed **Kate Webster** on September 15 as the new Administrative Director, reporting to center co-directors Gary Stein, Ph.D., and Claire Verschraegen, M.D. Webster returns to her native Vermont from the Massey Cancer Center at the Virginia Commonwealth University, where she was senior research administrator.



Kate Webster

Little Named Physician of the Year

David Little, M.D., professor of family medicine, received the Vermont Medical Society's Physician of the Year Award for 2104.

Little was recognized for the exemplary and respectful care he has given to his many patients and families and serving as a role model within the physician community.



David Little, M.D.



Cutting the ribbon on the new Department of Health building.

VDH and UVM Celebrate New State Health Lab

Representatives of state and local government and UVM, cut the ribbon October 22 to open the Vermont Health Department's new state-of-the-art laboratory in Colchester. The new facility was designed, in part, to facilitate collaboration between university researchers and public health scientists and shares a common entrance with the University's Colchester Research Facility. With the launch of this facility, the Vermont Health Department went from having the oldest lab in the country — one built in 1952 — to having the newest lab in the country to date.

DIARY OF A FOURTH YEAR MED STUDENT: ORTHOPEDIC TRAUMA SURGERY ON THE WEST COAST

by Kathryn Schlosser '15

"Katie, If you go into surgery, you're going to miss patients." It was three in the morning in the ED; the resident was feeling the strain of a 24 hour trauma call, and I was loving it. I had spent the past half hour with a lovely, older woman whose foot had gone through the floor of her vehicle in a crash. We chatted about where she had been traveling, and she barely winced as I worked. The resident had picked up on my admiration for this lady, something he had little time to appreciate as he pulled up the chart of the next consult.

This was my last call night at Harborview Medical Center in Seattle. I had driven across the United States for a series of electives on the West Coast, starting with an orthopedic trauma elective with University of Washington. My first and only other rotation was an acting internship at UVM, and I didn't know what was expected of me in an elective rotation. The residents didn't quite know either. After the first couple days of hearing: "You don't need to do that, you're just on an elective," I told my seniors to treat me like a sub-intern, and I got what I asked for. The 6-6 intern shift ran over as traumas bumped our OR times later and

later. Every sixth day I stayed for a 24-hour call. Our patients were varied and acute, our interventions were tangible and visible, and I was working harder than I had ever worked before.

To be clear, I have never intended to go into orthopedics. I applied for this elective to give me exposure to a field I found fascinating, to get me into one of the best trauma hospitals on the West Coast, and get me darn good at reading X-rays. Take this lady with the shredded ankle. When the ortho service was consulted, I headed over for a history and physical while the resident put in orders for imaging. Once I got the story, the resident dictated while I irrigated the degloved calf, consulted plastics to take a look, and placed a couple of sutures to reapproximate the skin edges before we splinted the ankle in the ED. The next morning the attendings reviewed the imaging and discussed the fracture type and appropriate repairs. I went to the OR as first assist to the fellow, placing external fixation on her shattered ankle to stabilize it. Finally, we presented the fracture in the weekly fracture conference, discussing the imaging, diagnosis, and potential repairs and complications from the injury.

"Our patients were varied and acute, our interventions were tangible and visible, and I was working harder than I had ever worked before."



Kathryn Schlosser '15 at her class's White Coat Ceremony.

Seattle has the unique advantage of being a big city in an even bigger wilderness, and patients came to us out of that wilderness. I saw patients who were injured dirtbiking in Idaho, ice climbing in Oregon, and fishing in Alaska, as well as the more standard trauma of car crashes and assaults. In the OR I handled tools and techniques I hadn't dreamed of, and gained a new respect for skin closures under tension. In the ED I learned casting and splinting from the pros, placed femoral traction pins, learned to shoot portable X-rays while setting bones, sutured some gnarly wounds, and got to meet the multifaceted population of the Pacific Northwest.

The exhausted resident had a point — surgeons spend much less time with their patients than other specialties. But it was my patients that I enjoyed most from the Seattle rotation. A professional water skier who wiped out on a new trick. A drug dealer who described his BMW as I took out his stitches. And this tough retiree who didn't even wince as I washed her exposed flesh. I saw these people at their most scared and vulnerable, panicked about their injury and what it meant for them. I was able to look at their x-rays, close their skin, and realign their bones. Most important, I was able to take this information back to the suffering person, talk to them about their injury, and be a part of the process that helped them get better.

This essay originally appeared on the College's [uvmmedicineblog](http://uvmmedicineblog.wordpress.com) at uvmmedicineblog.wordpress.com.



"FROM ASPIRANT TO PARTICIPANT"

CLASS OF 2018 WHITE COAT CEREMONY

Faculty, family, friends and, most important, first-year medical students from the College of Medicine, filled Ira Allen Chapel on November 14 as the students slipped on their first white doctors' coats. A milestone in the journey of medical education, this ceremony officially welcomes students to the medical profession and underscores their professional commitment.

Senior Associate Dean for Medical Education William Jeffries, Ph.D., characterized the ceremony as the "formal recognition of the student's transition from aspirant to participant... The conferral of the white coat, a powerful symbol of the medical profession, is a tangible expression that demonstrates this bonding process," he said.

The keynote speaker at the event, Professor of Psychiatry and Gold Humanism in Medicine Award Winner A. Evan Eyler, M.D., stressed the values associated with the donning of the coat.

"We welcome you into the profession of medicine," said Dr. Eyler to the 116

members of the Class of 2018. "Welcome to the family. Welcome to all the challenges and all the joys that await you. The white coat is a symbol of the crucial values of medicine, of professionalism, humanism, dedication. Of expertise gained and improved through lifelong learning. Of compassionate patient care."

This year marked the beginning of a new tradition as part of the ceremony. The College's Medical Development and Alumni Relations Office solicited notes of encouragement from alumni from classes across the past five decades. Each student received one of these personal notes in the pocket of his or her coat.



[At right] Top: Members of Class of 2018 found their first white coats waiting for them at Ira Allen Chapel on November 12. They also found encouraging notes from alumni in the pockets. Daniel Kula '18 (in blue shirt) smiles as he dons his coat. Right bottom: keynote speaker A. Evan Eyler, M.D. Above, Professor of Psychiatry James Hudziak and family pose with Olivia Hudziak '18.



See a short highlight video on the alumni note project or view the whole ceremony. Go to: uvm.edu/medicine/vtmedicine



FACTS & FIGURES

ACADEMIC YEAR 2014



UVM College of Medicine MISSION STATEMENT

The Vision of the University of Vermont (UVM) is to be among the nation's premier small research universities, preeminent in our comprehensive commitment to liberal education, environment, health, and public service.

In support of this vision, the Mission of the UVM College of Medicine is to educate a diverse group of dedicated physicians and biomedical scientists to serve across all the disciplines of medicine; to bring hope to patients by advancing medical knowledge through research; to integrate education and research to advance the quality and accessibility of patient care; and to engage with our communities to benefit Vermont and the world.

Student Body

Academic Year 2013–14

Total Medical Students	450
In-State	30.2%
Women	48.7%
Men	51.3%
Ph.D. & Masters Students	118
Residents & Fellows	307

Medical students at the College come from **31** states across the U.S.

Class of 2018

The College received nearly 6,000 applications for the 116 positions in the Class of 2018, who began their first year in August 2014.

Median undergraduate GPA	3.69
Median MCAT — Verbal	10.0
Median MCAT — Biological Science	11.0
Median MCAT — Physical Science	11.0
Students with research experience	93%
Students with medically related experience	97%

Alumni/Graduates

Alumni

Number of living alumni of the College	4,447
Percentage of alumni who practice in New England	44%
Approximate Percentage of Vermont physicians educated or trained at the University of Vermont College of Medicine and/or University of Vermont Medical Center	38%
Percentage of alumni who contribute philanthropically	37%

Class of 2014

Medical Graduates of 2014 went on to residencies at 68 institutions across the Nation, including Boston University Medical Center, Brown University, Case Western University Hospitals, Children's Hospital Oakland, Duke University Medical Center, University of Pennsylvania, Kaiser Permanente Los Angeles, Maimonides Medical Center, Massachusetts General Hospital, Oregon Health & Science University, Tufts Medical Center, UC San Francisco, UCLA Medical Center, University of Washington, UVM Medical Center, and Yale-New Haven Hospital.

3.69

MEDIAN UNDERGRADUATE GPA

11

MEDIAN MCAT— BIOLOGICAL SCIENCE & PHYSICAL SCIENCE

10

MEDIAN MCAT— VERBAL

37

NUMBER OF ALANA STUDENTS IN CLASS OF 2018

100%

FIRST-ROUND RESIDENCY MATCH
The entire Class of 2014 matched in the first round to a residency program of their choice. In the very competitive U.S. residency environment, this is a testament to the educational experience at the College of Medicine.

David Seaver, Raj Chawla, COM Design & Photography

Endowments (Market Value as of June 2014)

2014 Faculty & Department Support	\$85,988,808
Scholarship Giving	\$30,313,613
Total Endowment Value	\$116,302,421

Private Gift Revenues: A New Record

Private philanthropy to the College of Medicine from alumni, friends, and organizations totaled an historic high of \$21.99 million for Fiscal Year 2014. *For more detailed information about philanthropy, see page 46.*

\$21.99

million
PRIVATE PHILANTHROPY AT THE COLLEGE OF MEDICINE

\$81.4

million
RESEARCH SUPPORT AT THE COLLEGE OF MEDICINE

Research Support

Total Dollars \$81.4 million

A total of 280 research projects were active at the College in 2014. College of Medicine funding represents nearly 64% of total UVM research funding. The National Institutes of Health supported four Centers of Biomedical Research Excellence (COBRE) at UVM during 2014; these focused on neuroscience, immunology, lung biology, and research on human behavior and health.

Faculty & Staff

Basic Science	63
Clinical Faculty	574
Volunteer (Vt., Conn., Fla., Maine, N.Y.)	1,290
Staff	413

Departments

Basic Science	4	Clinical	11
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Facilities / Physical Plant

Total Area	566,500 sq. ft.
Given Building	196,000 sq. ft.
Health Science Research Facility	110,000 sq. ft.
Courtyard at Given	31,000 sq. ft.
Larner Medical Education Center	44,000 sq. ft.
Stafford Hall	70,000 sq. ft.
Colchester Research Facility	72,000 sq. ft.
DeGoesbriand Unit	20,000 sq. ft.
Others	23,500 sq. ft.



THE COLLEGE OF MEDICINE HAS CONSISTENTLY RANKED AMONG THE TOP MEDICAL SCHOOLS IN THE NATION FOR PERCENTAGE OF ALUMNI WHO GIVE PHILANTHROPIC SUPPORT.



COLLEGE OF MEDICINE GRADUATES CONTINUE TO SHOW HIGH SATISFACTION RATES

Results from the 2014 Medical School Graduation Questionnaire (GQ) — a national survey administered annually by the Association of American Medical Colleges — show that 2014 graduates of the of Medicine are very satisfied with their medical education, and in many areas significantly more so than their peers nationally.

UVM graduates reported high satisfaction rates overall and with

98% SATISFACTION RATE OVERALL
96% REPORTED TAKING PART IN INTERPROFESSIONAL HEALTH EDUCATION
91% PERCENT OF THE CLASS PARTICIPATED IN THE SURVEY

their pre-clerkship and clinical clerkship experiences, and felt more prepared than their national counterparts to enter residency.



TYING IT TOGETHER

AN INTERVIEW WITH JOHN R. BRUMSTED, M.D.

On November 12, 2014, the University's academic medical center partner changed the name it had carried since 1995 from Fletcher Allen Health Care to The University of Vermont Medical Center. At the same time, Fletcher Allen Partners, a network of four hospitals in Vermont and Northern New York established in 2012, was renamed The University of Vermont Health Network. Spearheading this transformation at the medical center was President and Chief Executive Officer John R. Brumsted, M.D. A professor of Obstetrics, Gynecology and Reproductive Sciences, Dr. Brumsted has been a member of the UVM College of Medicine faculty since 1985. During that time he has held numerous administrative positions, including senior associate dean for clinical affairs at the College of Medicine and president of the faculty practice. *Vermont Medicine* visited Dr. Brumsted to hear firsthand about the new change of name and its reflection on the relationship of the institutions that practice academic medicine in the region.

VERMONT MEDICINE: This change of names or “brand” seems to be an acknowledgment of a longstanding relationship — would you agree?

JOHN BRUMSTED, M.D.:

Actually, as you go back in history over the past four or five decades this is the third or fourth time that the University and the entity that delivers health care at the academic medical center have tried to bring their names or brands together. It's always been a logical approach to tie together from a branding perspective what's been tied together operationally, financially, academically, and clinically for at least the whole time I've been here. The clinical care delivery system and the College of Medicine and College of Nursing and Health Sciences have been inextricably entwined. Frankly, one of the things that attracted me here in the 1980s was the almost seamless movement — if you're one of the professionals here — between the University and the delivery system. So it was a natural transition. I don't remember any time in the 20-plus years that I've been in an administrative

role at this institution that we've done something this major and had such uniform support. The response from everyone is that it is so logical, so perfect.

VM: You and your University partners must have been working on this for a long time. I'm curious about the genesis of the effort and how it unfolded.

JB: The deans of Medicine and Nursing and Health Sciences — Rick Morin and Patty Prelock — sit on our board, so they've been in the governance conversations around the affiliation since the very start. University President Tom Sullivan and I began our presidencies at roughly the same time, and we've developed a strong relationship that allowed us to do the right thing as far as the co-branding. At the same time that we took that co-branding through the governance approval process, we were also able to realign the affiliation agreement between the University and the clinical delivery system, and reach important agreements to move forward the next building project that will tie our campuses together even more.

“OUR ORGANIZATIONS ARE NOW CLEARLY LINKED IN A WAY THAT ANYONE CAN SEE, AND THAT FEELS GOOD.”

— John Brumsted, M.D., President and CEO, The University of Vermont Health Network

VM: This new name encompasses the feeling for education and research that most people have in mind when they think of the University, and links the medical center with that work. Will it also spread that identity throughout the full network?

JB: It is hugely important for us to bring the benefits of academic medicine to the region. Renaming this medical center and this network really ties the delivery system and the academics together and helps us move that beyond our primary academic campus in Burlington. There's a lot of excitement about that. One early and important development: we're working hard to establish by 2016 a family medicine residency for northern New York — initially sited in Clinton County, using the Champlain Valley Physicians Hospital as the place where most of the rotations will happen. Since a significant proportion of residents tend to settle very close to where they do their residency, it should be very helpful as a way to populate the North Country with primary care doctors, which is clearly very important.

VM: What will people who work for UVM see as the major effects and benefits of this change?

JB: I think that there will be a pride of ownership — with “ownership” in quotes,

because there is no ownership either way in the literal sense — but it really pulls us all together. Faculty physicians have had a foot in both camps for years, so this ties it all together for them. Our organizations are now clearly linked in a way that anyone can see, and that feels good. We know there can be bumps in the road along the way, but we're in it together and we're much stronger and better able to weather those bumps. If you are a research university, having a highly regarded academic medical center with faculty that are in medicine and medical science and nursing and other health sciences has to be viewed as an incredible strength. For the national audience, for the philanthropic audience, making it absolutely clear that the University of Vermont has a vibrant academic medical center is definitely very beneficial to the University.

VM: What will this name change mean for patients?

JB: It will mean that they can expect uniform, extremely high-quality service. And over time they will experience a dramatic decrease in the “friction” in the system. If you're seen by a primary care physician who believes that you need a different level of care, your move to that next level should be much more seamless. The flow of information that supports the

rationale for your getting that care, the flow back to the primary care physician, access in timing those interactions and making sure that all testing is only done once — all of that friction that can frustrate all of us who are getting care should, over time, be dramatically lessened. And that's part of the equation of increased quality and making care more affordable for folks.

VM: Did you feel that many of your physicians and other professionals who were presenting on the national stage were doing their own renaming on the fly?

JB: Yes — in fact, I did it myself! Our professionals love the change because they don't have to take ten minutes when they're presenting somewhere explaining what a Fletcher Allen is and where they work, and that it really is the academic medical center of Vermont. It is so logical and so accurately describes what's going on here in a way that our previous names just did not.

VM: You've been involved in an intensive and successful effort to raise the quality of care here by many measures. Is this an opportunity to broaden those efforts?

JB: When you have a brand that ties you together, people out in the communities that we serve have the expectation that

wherever they seek the services that we're providing, they're going to get the same level of high-quality compassionate care. Everywhere in our network we have to meet that expectation. There are a lot of ways to do that — through joint credentialing and through quality programs with national benchmarks that all of the practitioners in the network adhere to. We've raised expectations and it's important for us to meet those expectations.

VM: And now you have to change a few signs, no?

JB: Probably 300 or so signs in the first wave, and thousands of name badges, I'm very proud of all the planning and work by so many people that has gone into this effort. If you've been around the block in administration, you know that name changing and branding is a big deal. And when you deconstruct it to the granular level that we have now it is amazing. I'm most proud of the degree of competence that we display collectively when we do big things like this, and do them well. **VM**



Read an extended interview with Dr. Brumsted and UVM President Tom Sullivan.
Go to: uvm.edu/medicine/vtmedicine



UVM College of Medicine Dean Rick Morin (center) makes a point at the November 12 University of Vermont Medical Center renaming press conference to (from left) John Brumsted, M.D., UVM President Tom Sullivan, and College of Nursing & Health Sciences Dean Patty Prelock.

Johanna Kelley '17 shadows nurses on their rounds and interacts with patients at The University of Vermont Medical Center as a part of her Professionalism, Communication, and Reflection course.

INSIGHT & INSPIRATION

by Erin Post

The Professionalism, Communication & Reflection course leads students to a more effective understanding of themselves, leading to better communication with patients throughout their careers.

There are moments during the four years of medical school when a student must acknowledge the unanswerable questions that sometimes come with being a physician — brought on by the times when modern medicine falls short, when a patient can't be cured — or ignore those feelings of frustration and sorrow, leaving them untouched to possibly resurface later.

Setting foot in the anatomy lab can be one of those moments. The donated cadavers there are beyond the help of medicine — indeed, they are the ones who are now doing the helping.

“Seeing the face of our donor for the first time was a memorable and sensitive moment,” says Kenyon “KC” Bolton '18, who worked with a group of his peers to dissect a cadaver during Human Structure and Function, a sweeping 12-week course that is considered one of the toughest, and most formative, for a medical student. “Our donor's body is like having a patient,” Bolton says. “There's a level of respect that's due.”

Like medical students across the country, UVM College of Medicine students learn about the myriad systems that make up a human body through

dissection. They study terminology and facts, but through cutting into flesh, sawing through bone, holding a heart, they learn viscerally the weight of a human life.

Instead of shrugging off the innumerable feelings this dissection may call up — of inadequacy, fear, sadness, even horror — first year students at the College of Medicine take the time to examine these emotions too, and find insights into their deeper meaning in a course called Professionalism, Communication and Reflection (PCR).

“[Anatomy lab] is a crossroads where a student can develop a habit of

compartmentalizing,” says UVM Assistant Professor of Psychiatry Lee Rosen, Ph.D., who directs the ten-month long PCR course within the Vermont Integrated Curriculum. One of the goals of PCR is to “create a space where the conversation is open,” Rosen says.

The course revolves around the boundaries of what medical students learn from lectures, textbooks, and exams. Issues like death and dying, doctors and substance abuse, and gender and sexuality, take center stage. And the education happens between students, in the course of discussion, without tests or grades. Small group discussions, written reflections, guest speakers, shadowing sessions and the occasional field trip, all seek to create in future physicians a habit of handling emotion with grace, and integrating it instead of shunting it aside.

“We are fighting a history of physicians developing coping skills that have now outlived their usefulness,” says Rosen. “What students are learning in PCR is that nothing terrible happens because they had a feeling. Nor do they lose their competency. In fact, having these feeling contributes to their ability to be fully present for patients.”

For first-year student KC Bolton — who spent time prior to med school working in the fields of epidemiology and geography in addition to five years in the U.S. Coast Guard — PCR was an opportunity to step back from

“PCR is about balance and self-care. Medicine is a life choice you have to make. It’s a marathon, not a sprint, and the goal is to have a good life inside and outside the profession.”

— Alison Frizell '15



Assistant Professor of Psychiatry Lee Rosen, Ph.D., at left, leads a group of medical students in a weekly PCR discussion. Rosen is the PCR course director.

memorization and connect what he was learning in anatomy lab to larger issues. He also forged bonds with fellow students who may have been experiencing wildly different emotions, but still had something to teach each other about how to cope.

“We all, as a group, benefit from talking about what makes us uncomfortable,” he says.

Rosen works with a team of 16 preceptors for the first year class’s small group discussions. The preceptors group includes College of Medicine faculty who are practicing physicians, as well as a chaplain, a psychologist, and a pediatrician now retired from clinical work to focus on research. The small groups of students each meet weekly to talk about assigned readings, usually sharing snacks and wide-ranging conversation. Students get to know and trust each other, and they form long-term relationships with a faculty member. The goal is for them to start their careers as physicians with a capacity to self-reflect, and an ability to embrace without being overwhelmed by the contradictions inherent in their work.

“You can’t facilitate reflectivity and professionalism by just visiting these topics two or three or even ten times,” Rosen says, pointing out that key to PCR’s effectiveness is the length of the course. Nearly every week for the first year of med school, students come together for small group discussions. Discussions also happen in tandem with coursework. Students learn about professionalism in connection with

the White Coat Ceremony; they interact with a standardized patient to try to elicit behavior change during a course on nutrition and metabolism; and the course ends in May with PCR groups beginning to plan for their public health projects, which they complete working with a regional non-profit or public health agency.

“Our course is unique compared to other med schools to the extent that there is an interpersonal and psychological focus,” Rosen says.

And the skills students learn in PCR are in high demand. In opinion studies, patients increasingly point to empathy and self-awareness as traits they value in their physicians. A 2013 survey from the Association of American Medical Colleges asked respondents from across the country the open-ended question: What advice would you give for training good doctors? Answers revolved around communication: They wanted future doctors to “listen to patients’ questions and concerns,” as well as work effectively “as a team with other doctors, nurses and hospital staff.” In a different question, respondents ranked doctors who are able to understand and treat “the whole person” in the top five for most important characteristics of a doctor.

The small groups, the subject matter explored, and the emphasis on reflection and sharing all help medical students approach their work in ways that encourage this thoughtfulness, and humility.

“PCR exposes students to alternative narratives of health and well-being,” Rosen says, “and it fosters in them an ability to listen deeply to people’s stories.”

MENTORSHIP & FRIENDSHIP

“We definitely disagreed on some things,” says Alison Frizell ’15 with a chuckle, regarding her PCR group. “We were such a random group of personalities and interests, but somehow it really worked.”

One discussion of the White Coat — the iconic symbol of the doctor — led to questions of its relevance in modern medicine. Was it outdated? Or necessary? As students shared their opinions, and reflected on wearing their white coat for the first time, they also shared the anxiety of embarking on a career in medicine.

During her clerkship year — when Frizell completed rotations in Burlington and in Maine, getting to know and treat many patients in the process — those discussions about fear, trust and responsibility became even more relevant.

“That’s the year you see the realities of the system you’re working in a little bit more,” she says, adding that even

during rotations at far-flung hospitals, her experience in PCR allowed her to come back and draw on the skills learned during the small group discussions.

“PCR is about balance and self-care,” she says. “Medicine is a life choice you have to make. It’s a marathon, not a sprint, and the goal is to have a good life inside and outside the profession.”

Zoe Agoos ’15 appreciated PCR for helping her and her classmates acknowledge that “what we’re doing is really emotionally taxing.” As an anthropology major who came to the College of Medicine with experience working in global health, she was no stranger to thinking about complex issues without easy answers, like many of the topics addressed in PCR. But when she struggled with the emotional impact of one course during the first year of medical school, her PCR group helped her through it, as did her faculty preceptor, Jerry Larrabee, M.D., professor of pediatrics.

“Right away, I felt like I had someone to go to,” Agoos says. Larrabee made a point to follow up with her at a particularly difficult time, and the meetings with her PCR group provided

a respite, allowing her to “not lose touch with larger goals when it would have been easy to.”

Other students’ experiences in PCR speak to the value of hearing different perspectives. In December, several physicians and health care providers who identify as LGBT visit PCR classes for a session on diversity and gender identity. For Justin Genziano ’17 and his group, this led to a discussion about how the role of advocate and identification as a minority can become intertwined. Another session with medical interpreters from the local refugee community led to a discussion about how to support patients who speak little to no English, while a visit from nursing students helped to lay the groundwork for future collaboration. This breadth of topics — through both the conversation and written reflections — helped to “suss out very complicated thoughts,” Genziano says, leading to a deeper understanding of how medicine intersects with culture and identity.

Physicians’ developing their capacity for empathy is important both for patients and for fellow healthcare team members, says Hillary Anderson ’17. PCR helps by creating a safe space “where people can be more vulnerable.”

“We’re not trying to solve someone’s problems but we’re learning how to listen,” she says.

The question of death and dying is a difficult one, especially for medical students who are training to treat and cure. To explore the issue, students shadow either a member of the spiritual care team at The University of Vermont Medical Center, or a group of volunteers called the Noyana Singers, who visit the Vermont Respite House most weekends to sing to patients and their families.

“It was really moving and emotional,” Genziano says of his time with the Singers. A hospice volunteer prior to medical school, he had some experience witnessing patients at the end of life. But the singers’ interactions with patients, and families, showed him how a compassionate presence — and music — can make a difficult situation better.



Professor of Pediatrics and PCR preceptor Jerry Larrabee, M.D., [at left] invites the medical students from his PCR group to his house for an informal dinner and discussion.



When applicants to the College, like the group above meeting with Justin Genziano '17, come to "Closer Look Day," they preview the type of learning that is involved in the first-year Professionalism, Communication, and Reflection course.

REFLECTION AND ATTRACTION

When Hillary Anderson '17 made the rounds to different medical schools as an applicant, she saw in the Professionalism, Communication, and Reflection (PCR) course at the College of Medicine an opportunity to bring all of her experiences — and those of her classmates — to the table as they go through the work of becoming physicians.

"It's a part of the curriculum I really valued," she says. "It drew me to UVM."

A Brown University graduate, she earned a master's of public health and worked in Boston at the National Institute for Children's Health Quality before deciding to pursue medical school. She came to the process with an understanding of how important communication, collaboration, and cultural competency are when working in the medical field. And PCR — with its emphasis on self-reflection and relationship-building — was a welcomed way for her to continue to develop those skills, and learn from her peers.

The College of Medicine increasingly seeks applicants who display this sense of curiosity and capacity for reflection, says PCR Course Director Lee Rosen, Ph.D. Even if students don't have the professional experience Anderson brought with her, the College looks for a willingness to engage in the discussion and exploration that PCR asks of first-year students.

"We have a clearer vision of the kind of students that we want here," Rosen says. For Closer Look Day, an annual event hosted by the Office of Admissions, accepted students attend events, take tours, and meet current medical students. Rosen hosts an experiential introduction to PCR session for one of the seminars offered during the day, allowing accepted students to ask questions and get a sense of how the small group discussions work.

Associate Dean for Admissions Jan Gallant, M.D., herself a PCR preceptor, says this PCR "preview" informs the admissions process as it gives students an understanding of what role reflection and thoughtful inquiry will play in their medical education.

"It aided in the dialogue and was an example of the type of environment we're hoping to create here," she says.

And when students begin the PCR course in August, they are already prepared to ask big questions of themselves and their peers.

"PCR helps our students learn who they are, what they value, and understand how they're changing," Gallant says. "And they have a whole group of people to support them in this work."



Associate Dean for Admissions
Jan Gallant, M.D.

John McLaren '17 also came to the shadowing with experience — in his case, in the realm of music. He plays the piano and as an undergraduate conducted research related to rhythm, memory, and the brain. His time with the singers opened his eyes to how spirituality may enter into life in many forms.

"There is a faith that music has the ability to heal," he says, noting that his PCR experience will in turn impact his approach to patient care, especially at the end of life.

For Rosen, this speaks to PCR's value as a teaching tool when it comes to difficult, sometimes unanswerable questions.

"Students learn something extremely valuable about the needs of patients in their final hours," he says. "We're helping them come to terms with the limits of their profession."

"ENERGY AND ENTHUSIASM:" FACULTY PRECEPTORS

Although PCR is now widely acknowledged to be critical for students' success, in the early days of PCR, which launched with the Vermont Integrated Curriculum in 2002, PCR founders Dana Walrath, Ph.D., a medical anthropologist and assistant professor of family medicine, and Yvette Pigeon, Ed.D., a clinical assistant professor of family medicine, faced a much different landscape. Students, and in some cases faculty, were not primed to understand the purpose of time spent in conversation, or contemplating tough questions that are by their nature unsolvable, when their goal was to treat patients. Students craved mentorship, but were left to navigate the medical hierarchy on their own.

This system "allowed the Hidden Curriculum to dominate," Rosen says, referring to the culture of medicine's influence on education, and the effect that this informal learning has on the training of physicians. Studies on professional burn-out, a growing problem in the medical field, have shown that shifting the Hidden Curriculum's emphasis — from

competition and emotional distance to collaboration and empathy — helps to keep physicians both in practice and at their best for patients.

PCR is one way the College of Medicine puts the Hidden Curriculum "in the light," Rosen says, making it less powerful. And it works both for the first-year medical students and the faculty who mentor them.

College of Medicine Associate Dean for Admissions Jan Gallant, M.D., says the groups she has mentored over the years give her an energy that permeates her professional life. She sees in students a capacity for deep understanding.

"There's a sparkle in the air," Gallant says. "Even if they aren't talking, they're actively listening."

UVM Professor of Pediatrics Richard "Mort" Wasserman, M.D., has witnessed students coming to the aid of fellow students who need to talk through complicated questions about their patients, or peers, or their own development as a doctor. In this way he learns alongside the students.

"The title of the course is actually what it promotes in faculty," he says. "It has that impact."

And the relationships formed are long-lasting. UVM Associate Professor of Surgery Mario Trabulsi, M.D., was one of the first preceptors for the course, and she has seen students keep in touch as their lives unfold.

"Every year at graduation I have several students who are asking to hug me," she says. "I've been invited to weddings; these really are long-term relationships."

The expectation that preceptors will read and comment on students' written reflections adds another dimension to the relationship, says Nathalie Feldman, M.D., assistant professor of obstetrics, gynecology, and reproductive sciences and director of the OB/Gyn residency




At top, Isobel Santos '17 as a part of her PCR class, shadows nurse Caysie Lord, R.N., at the University of Vermont Medical Center. Above, John McLaren '17, second from left, joins the Noyana Singers at Vermont Respite House.

program, who has been a preceptor since 2007. She's seen students explore complex issues in medicine and come out on the other side with a changed view of the world — and a more nuanced understanding of their place in it — that will serve them well as doctors.

For Zoe Agoos '15, who will begin her residency as an M.D. within the year, PCR has helped to lay the foundation for a lifetime of thoughtful engagement with patients, as well as an ability to step

into someone else's shoes, be it a fellow doctor, or nurse, or family member. And she points out that students who start their careers already understanding the value of cultural competency, empathy, and effective communication have an impact: When 115 or so students graduate from the UVM College of Medicine every May and go on to residencies across the country, and eventually practice far and wide, they stand to influence their colleagues and the medical students they will teach.

"Good communication skills, conscientiousness, trust, empathy, a sense of curiosity: This is what helps patients have a trusting relationship with a physician," Feldman says. "It's the crux of effective patient care." 

"The title of the course is actually what it promotes in faculty. It has that impact."

— Richard "Mort" Wasserman, M.D., UVM Professor of Pediatrics

the hidden system

Human behavior has as much effect on the body as disorders of circulation or respiration, but is far less understood. The Vermont Center on Behavior & Health seeks answers that can change patients' lives.

by Joshua Brown

On a hazy June afternoon, Carrie Dyer sits at a picnic table near the playground in Battery Park in Burlington. With one arm she's holding her three-month-old baby, and with the other she's sipping water from a bottle. I'm chowing down on French fries from Beansie's Bus. I skipped my lunch to go running and now the salty, fatty fries taste great. Dyer turns to encourage her seven-year-old daughter who is working her way across the monkey bars. Then she takes another sip of water, brings her baby into a close embrace, and continues talking.

"I started smoking when I was eight years old," she says. "I was at my dad's girlfriend's house and she had older daughters and they were trying to push me into smoking. And I didn't want to. And I went into the house and told my dad and I was told, 'do whatever they want. You're getting in my way.' So that's how that one happened. And the smoking just stuck."

Joshua Brown

Carrie Dyer and her daughter at Burlington's Battery Park playground. Dyer's participation in a Vermont Center on Behavior and Health study is helping her break a smoking habit begun in early childhood.

Now Dyer is trying to get unstuck. “When I used to work traffic control I was up to four packs a day,” she says. But on January 5, 2014, well into her second trimester of pregnancy, at age 38, she quit. Her baby — her fourth child — was born in March.

“Well, I’ve pretty much quit,” she says with an unguarded smile. “I’ve slipped up a few times here and there, but I’ve passed all my UAs since I started.”

The “UAs” are urinalysis tests for nicotine. And what she started was participating in a clinical research study at the College of Medicine’s new Vermont Center on Behavior and Health, directed by vice-chair of psychiatry and Virginia H. Donaldson M.D.’51 Professor Stephen T. Higgins, Ph.D.

“You can think of behavior as a biological system, like respiration or circulation,” Higgins says. “How well could you practice medicine if you ignored circulation? In medicine in the past, and to some extent today, we have left out one whole system — behavior — which needs to be studied as a key part of keeping people well, to understand the source of illnesses, and where you need to intervene.”

Higgins is particularly interested in one kind of behavioral intervention: incentives. For her healthy behavior — not smoking — Carrie Dyer gets paid. A clean urine test means cash or vouchers for merchandise. “I have anxiety and depression and PTSD — I have traumatic brain injury as well. In ’02 I went through the windshield,” Dyer says, brushing her short greying hair with her fingers. She’s been unemployed for three years, has heart problems, qualifies for Medicaid, and is applying for disability. She has two older children who don’t live with her.

“Not smoking makes my stress get outrageous,” she says, but she has pressing reasons to quit. She looks at her baby and then across the woodchips to where her other daughter is climbing backward up a slide. “It’s scary for me right now; she’s seven. She knows I’m a smoker.”

While the Vermont Center on Behavior and Health is new — with \$34.7 million in funding awarded in September



Director of the Vermont Center on Behavior and Health and Vice-Chair of Psychiatry, Virginia H. Donaldson M.D.’51 Professor Stephen T. Higgins, Ph.D., is seen here at the center’s 2014 research conference in Burlington. Barely a year old, the center has already hosted two such conferences, attracting participants from across the globe.

“In medicine in the past, and to some extent today, we have left out one whole system — behavior — which needs to be studied as a key part of keeping people well.”

— Stephen T. Higgins, Ph.D., UVM Professor and Vice-Chair of Psychiatry

2013 from the FDA and the NIH — Higgins’ work on how to improve health through behavior change is not. Three decades ago, the crack cocaine epidemic was raging in many U.S. cities. In the late 1980s and early 1990s, Higgins led studies on cocaine abuse and dependence that are now landmarks in the field of addiction treatment. Many other experimental treatments, including a raft of different medications and group therapies, were, “failing miserably,” Higgins says, “but our trials showed that financial incentives work.”

To this day, there are no FDA-approved medications to treat cocaine addiction, but Higgins and colleagues’ success with retail vouchers as a fundamental part of treatment for cocaine addicts led them to explore how this approach could work with other types of addiction. The new Center on Behavior and

Health will expand on several decades of research by a large team of UVM scientists that includes fundamental discoveries on the treatment of opiate and tobacco addictions — and how to help especially vulnerable or difficult-to-treat groups like pregnant women, low-income people, and those with co-occurring mental illness.

“My medication just doesn’t cut it a lot of the time,” says Dyer. “I’d like to have a cigarette just to get away from everything.” She takes a deep breath. “But I’d love to just be done, done, done with smoking. The incentives are just that extra help I need to get over that hump. I get \$50 every time they do an ultrasound of the baby. I get \$50 every time they need me to fill out extra paperwork. Cash. And when I do the breathalyzer and the urinalysis, I get \$90 in gift cards. That’s incredibly helpful, actually. That’s loaded us for diapers for a while!” Other times,

she’s used the vouchers for shoes — she’s wearing the only pair she owns — or for gas cards so her partner, the father of two of her children, can get to work.

Of course, an anecdote is not a significant data set. But Carrie Dyer’s story fits the larger data-rich patterns of behavior that Higgins and his colleagues have been observing for years — with thousands of patients. They’re patterns with deep roots in human evolution. “At the core of addiction is a principle called reinforcement,” Higgins says. “It’s a biological/behavioral system that evolved to mark outcomes important to your survival.” Roughly speaking, if a behavior leads to a reward, we remember that behavior and repeat it — a concept made famous by B.F. Skinner, the pioneering behaviorist who wrote: “the consequences of behavior determine the probability that the behavior will occur again.” As part of this system, our brains are wired to make sure we take pleasure in those activities essential to survival — eating and sex should come to mind. Whenever this brain reward circuit lights up with the neurotransmitter dopamine, we remember: an important thing is happening — and we learn to do this thing over and over again.

There is overwhelming scientific evidence that while reinforcement evolved to aid survival, it now plays a key role in many behaviors that threaten people’s health. “The substances that people abuse and the fatty and salty foods that are so often over-consumed,” Higgins and three colleagues wrote in a 2012 paper in the journal *Preventive Medicine*, “share a common effect of directly stimulating the dopamine-based mesolimbic brain reward centers, which directly increases the likelihood that these same activities will be repeated in the future.”

Which brings us back to cigarettes, French fries, and gas cards. Incentive programs like the ones Higgins and his colleagues have been testing “leverage the same reinforcement process that drives unhealthy risk behaviors to promote healthy behaviors,” he writes. Indeed, financial incentives activate those very same dopamine-based brain

reward systems, the paper notes, that drive repeated drug use, fatty food consumption, and other learned unhealthy behaviors — like smoking. A 2008 study led by Higgins’ colleague, UVM Associate Professor of Psychiatry Sarah Heil Ph.D., showed a 41 percent success rate for paying cigarette-smoking women with merchandise vouchers to not smoke during their pregnancy — substantially better than the 10 percent quit rate achieved by a control group.

Small Achievements Bring Long-Term Success

In a brick office building in South Burlington, at the Cardiac Rehabilitation Center, a young man in dreadlocks and camo shorts sweats on an elliptical trainer, a grey-haired woman in pink velour lifts weights, and a rockabilly tune fills the air. Matt Bessette finishes his fifty-minute workout on a treadmill — and steps into an office to collect \$34. The 62-year-old retired plumber has completed 17 exercise sessions since he started his treatment here following a heart attack. “A year ago, I was driving and I had this wicked pain across here,” he says, drawing his hand across his shoulder and broad chest. “I had pain all over. I couldn’t even use my cell phone. I thought I was going to die right there.” But he didn’t. Instead, several months later, he had two stents put into his heart — and

joined a clinical trial led by cardiologist Philip Ades, M.D., and UVM psychologist Diann Gaalema, Ph.D.

Most people who survive a heart attack could benefit from rehabilitation. A program of education and exercise increases quality of life and decreases chances of dying from heart disease — but less than 35 percent of eligible patients participate in rehab programs. And a vanishingly small number of cardiac patients from marginalized parts of society — low-income or homeless or with substance abuse histories — even start. “We are trying to motivate behavior change in these vulnerable populations,” Gaalema says. All the patients in her new study — including Matt Bessette (not his real name; he was happy to share his story, but asked me to use a pseudonym) — qualify for Medicaid, which means they don’t have much money.

“The incentive schedules we use are based on the idea that changing behavior long-term is hard,” says Galeema. “The reality is that if you’ve had a heart attack you are going to have to change the way you live and that change will need to be life long.” She points out that even the four months of a cardiac rehab program can be a long and difficult time for patients to maintain their new behavior. “The idea behind incentives is that they break down these difficult behaviors into small,



Professor of Medicine Philip Ades, M.D., right, and Assistant Professor of Psychiatry Diann Gaalema, Ph.D., study the use of incentives to motivate positive behavioral change in patients participating in a cardiac rehabilitation program.

achievable chunks. Putting the focus on what they can do and achieve *today* helps people take these intermediary steps toward the longer goals they'll need to meet. It really is a form of treatment and much more subtle than just paying people to do healthy things," Galeema says.

Besette was randomly assigned to a group that receives a cash payment each time they come to the rehab center and complete their prescribed exercises. "It starts at four bucks for the first one and goes up from there," Gaalema explains. If the patients don't miss a session, the rate builds to \$50 per session. But if they have an unexcused absence, the payment schedule resets to the bottom. After 36 rehab sessions — the maximum covered by Medicaid insurance — successful participants will have earned about \$1,200, "which is not trivial," Ades says.

But it's pocket change compared to the cost of another heart attack. "Preventing one cardiac rehospitalization is saving \$10,000 to \$30,000," Ades says, "and cardiac rehab is known to decrease cardiac rehospitalization by 30 percent in the first year."

The United States healthcare system is by far the most expensive in the world, but in a June 2014 report from the Commonwealth Fund examining eleven nations — Australia, Canada, France, Germany, the Netherlands, New Zealand, Norway, Sweden, Switzerland, the United Kingdom, and the United States — the U.S. ranks last in health outcomes and healthy lives.

In all these industrialized nations, including the U.S., the population's main health problems come from chronic conditions like addiction, coronary heart disease, type-2 diabetes, and obesity. "We can't afford to keep spending more and more to treat disease outcomes that are connected to unhealthy lifestyles," Higgins says. Which is why he and the other scientists in the new UVM center look to

where these lifestyle diseases emerge, that most quotidian foundation: how we behave. Some 40 percent of premature deaths in the US arise from unhealthy personal behaviors, with smoking and lack of exercise at the top of the list. "Many researchers and the NIH are increasingly realizing that we can't just medicate or technologize our way out of these chronic health conditions," Higgins says. "Without recognizing the importance of behavior, we're losing the battle of trying to effectively curb or manage these kinds of diseases."

Heart disease is no exception. "If you look at the research, about 90 percent of coronary heart disease is determined by people's risk factors, most of which is determined by their behaviors," Ades says. "Even if you have a family tendency for high blood pressure and high cholesterol, if you eat poorly and don't exercise and gain weight, you will realize that family history. So even the things that you think are genetic have large behavioral overtones."

"The idea behind incentives is that they break down these difficult behaviors into small, achievable chunks. Putting the focus on what they can do and achieve today helps people take these intermediary steps toward the longer goals they'll need to meet."

— Diann Gaalema, Ph.D., UVM Professor of Psychiatry

The principle of reinforcement and the tools of behavioral economics, like financial incentives, help difficult-to-treat populations like cocaine addicts and pregnant smokers. Now the scientists at the Vermont Center on Behavior and Health want to understand how well that approach can be extended to much broader health problems, like heart disease — and especially with those people of low socioeconomic status who bear a disproportionate burden of many chronic diseases.

The new study looks promising. "We're seeing more minorities and many other people we've never seen in rehab before," Ades says, "unemployed people, drug addicts, homeless." Often invisible to the medical system — until they hit the emergency room with very expensive problems — they tend

to be "higher risk than the other cardiac patients we see: they have worse cardiac behaviors, exercise less, smoke more, tend to be more overweight," Ades says. "They are the people we need to reach."

"We're seeing them because of the incentives," he says. "They literally get paid to come to exercise." Matt Besette is happy to get the money. "Sure, it's great," he says. "But it's not that important," — now that he's in a groove and feeling better. "I'm getting paid in other ways: I feel great. I have more energy when I exercise on Tuesdays and Thursdays than I do the other days."

In Steve Higgins' seminal cocaine studies, the economic incentives were designed to be a transition, "the bridge, so to speak, to naturalistic sources of reinforcement," he says. "With a therapy called community reinforcement, we tried to enhance areas that in people's lives were generally most meaningful — location, family, recreation — and we used the economic incentives to jumpstart them toward change."

Matt Besette had been fading fast. "One of my few pleasures in life was deer hunting," he says, wiping his sweaty brow, but he could barely get himself to his hunting camp and he was getting winded walking behind his snowblower. "I was just running out of gas. I didn't have the desire to do almost anything." Following the cardiac stents, he began to feel better, "but I was in very bad shape," he recalls. That's where the rehab program helped. "For me, I need structure. I have a treadmill at home, but I don't use it," he says. Once his 36 sessions in the study are over and the incentives stop, he plans to continue coming to the rehab center, join cardiac rehab "phase 3" and continue his workouts. "When I come here, I have to do it. And the other people are real nice." Feeling better, he's happy to help his wife around the house, "hanging pictures and that kind of thing," he says. "Now I'm good for half a day. But that's better than a quarter of a day or nothing."



Vermont Center on Behavior & Health

The University of Vermont

The VCBH Scope

The Vermont Center on Behavior and Health (VCBH) was established in 2013, sponsored in part by a Centers of Biomedical Research Excellence (COBRE) Award from the National Institute on General Medical Sciences and a Centers of Tobacco Regulatory Science (TCORS) Award from the National Institute on Drug Abuse.

The VCBH resides within the College of Medicine at UVM, with the director and administrative offices located within the Department of Psychiatry, and participating investigators, collaborators, and advisors residing across 15 academic departments in the College of Medicine and seven colleges within UVM and five other universities. The VCBH is further strengthened by interdisciplinary collaborations with key community healthcare leaders and distinguished scientific advisory panels.

VCBH researchers investigate relationships between personal behaviors and risk for chronic disease and premature death, with a specific focus on understanding mechanisms underpinning risk, and developing effective interventions and policies to promote healthy behavior. A common thread across VCBH research projects is the application of knowledge from the disciplines of behavioral economics and behavioral pharmacology to increase understanding of vulnerability to unhealthy behavior, and the use of incentives and other behavioral and pharmacological interventions to support healthy behavior change interventions and policies. The contribution of socioeconomic factors to vulnerability and the need for interventions and policies to promote health and reduce disparities in disadvantaged populations is an overarching VCBH focus.

Currently, the VCBH is the only NIH-funded center that is applying the disciplines of behavioral economics and behavioral pharmacology to tackling these enormous, interrelated U.S. public health challenges.



VCBH researchers and Associate Professors of Psychiatry Sarah Heil, Ph.D. (top), and Stacey Sigmon, Ph.D. (bottom).

Foraging for Meaning

As the director of the new Vermont Center on Behavior and Health, Higgins has a lot of responsibilities, but he cheerfully agrees to meet me on campus to go for a run. I'm waiting outside the Gutterson ice rink, and he calls on his cell phone to say he's going to be a bit late: he's stopped to pick up a hitchhiker who needs a ride. A few minutes later he pulls up in his car and soon we're running, while he tells me about his own hitchhiking adventures as a twenty-year-old. "I would always pick people up as payback," he says, "After 10 or 15 years of this, I decided I'd done enough, but, today, this guy seemed like he was really in need."

Higgins grew up in a tough working-class neighborhood in Philadelphia. He's the first in his family to have gone to college. He saw heroin epidemics sweep through his community, killing people he knew. He saw the Vietnam vets coming home hooked on painkillers. It's tempting for a journalist to spin a tidy story of origin about how Higgins chose a career studying behavioral psychology with an aim to treat addictions and other health problems in poor communities — helping people in need.

But he doesn't exactly see it that way. "We have all kinds of stories about why we do what we do and who knows how accurate they are," he says. "I grew up around a lot of drug abuse. I know what that looks like," he says. "But I'm not sure that the issues that I'm interested in now, in terms of health disparities and the influence of socioeconomic status, are driven by that history."

"I think that we use language in a way that makes us think we're in charge of things that are really being driven by forces that are external to us," he says. He understands the trajectory of individual human lives not so much as freely chosen narratives, but as patterns of behavior, driven by our deep evolutionary past. "We are foraging most of the time! I think we are trying to do the best we can as signals come in saying: go here; go there. And our evolution has made us exquisitely sensitive to certain signals, looking for food, mates, avoiding danger."

It's a beautiful day and we amble through a stand of hemlocks and across the bike-path bridge in Farrell Park, chatting and enjoying the sunshine. "Running feels great," Higgins says. "It's calming. If it wasn't for running, I'd probably be on some serious psychiatric meds from work-related stress," he says, laughing. He's 60 now and has been running steadily since his hitchhiking days. It's a lifelong pattern of healthy behavior. But, as anyone who has started an exercise program knows, it's not always easy, takes discipline to keep going, and the rewards are delayed. "Cocaine works immediately," he says, "whereas the joy of, say, running a big city marathon is some months down the road and it starts off being rather unpleasant." Higgins would like to find ways for more people to get to those kinds of delayed — but more durable — joys. Or at least that's one story of why he has dedicated himself to exploring a deeper scientific understanding of the incentives and interventions that can shape human behavior. **VM**

departments & centers

Brief reports on the activities of
the basic science and clinical
departments and major centers at
the College of Medicine during **2014**

Anesthesiology

David Adams, M.D., Interim Chair

The academic scope of Anesthesiology is wider than ever, as more of our faculty and residents participated in scholarly activities. This past year members of the department gave over 30 poster or abstract presentations at national and regional conferences, published ten articles in peer-reviewed journals, submitted several book chapters, and served in leadership positions on national boards and committees. The number of faculty and residents who participated in clinical studies also reflects a burgeoning research enterprise in the department, with more than a dozen protocols actively recruiting subjects and gathering data.

An example is a recent publication in *Anesthesia and Analgesia*, one of the field's leading journals, of "Cognitive outcome after spinal anesthesia and surgery during infancy," by Robert Williams, M.D., Ian Black, M.D., David Adams, M.D., Donald Mathews, M.D., and three UVM colleagues. This paper is a major achievement that reflects years of work by our entire group. It is also just the beginning, with more investigations to come on the critically important issue of anesthetic exposure and neurotoxicity in infancy.

Another is a paper in press at the journal *Anesthesiology* by Patrick Bender, M.D., and William Paganelli, M.D., Ph.D., on management of intraoperative ventilation. This paper will be featured in a Journal Symposium at the American Society of Anesthesiology national meeting and is the first major research project performed as a result of our participation in a coalition of leading academic anesthesia departments in the U.S. and Europe.

In addition to our focus on faculty scholarly work, our department's trainees have been increasingly involved in research activities. Nicole Collins, D.O., received an award for one of the best resident abstracts for her laboratory work on neural "gasotransmitters" presented at the International Anesthesia Research Society annual meeting in Montreal, Canada. Amy Odefey, M.D., received an award for best poster from the Association of Anesthesia Clinical Directors at their meeting in Nashville, Tennessee for her work on finding cost-savings in managing operating room waste disposal.



Associate Professor Robert Williams, M.D., and colleagues published a study in 2014 on cognitive outcomes after spinal anesthesia during infancy.

SELECTED HIGHLIGHTS

- Faculty members serve on editorial boards of *Medical Acupuncture Journal*, *British Journal of Anesthesia*, *Survey of Anesthesiology*, *Critical Care Medicine*, and *Journal of Critical Care*.
- Faculty published in such journals as the *Journal of Graduate Medical Education*, *Anesthesia & Analgesia*, *American Journal*

of Infection Control, *Journal of Clinical Sleep Medicine*, *Simulation in Healthcare*, and the *Clinical Journal of Pain*.

- Francisco Grinberg, M.D. is a member of the Board of Directors of the American Society of Anesthesiologists.

Finally, Veena Graff, M.D., is conducting a study on the benefits of using music to reduce anxiety in patients undergoing various procedures.

Correction: The name of Emeritus Professor of Anesthesiology J. Christian Abajian, M.D., was printed incorrectly in the 2013 Year-in-Review for the Department of Anesthesiology, as was information about his Robert M. Smith Award by the Section on Anesthesiology and Pain Medicine, a part of the American Academy of Pediatrics.

DEPARTMENT OF
Biochemistry

Gary Stein, Ph.D., Chair



Assistant Professor Beth Bouchard, Ph.D., is one of the faculty members working on enhanced teaching and laboratory components of the Undergraduate Biochemistry Program.

The Department of Biochemistry is at the forefront of biomedical research and education. Committed to transdisciplinary initiatives, biochemistry faculty and students are collaborating with colleagues throughout the College of Medicine, the University and The University of Vermont Medical Center to transcend traditional boundaries.

In education, under the leadership of Paula Tracy, Ph.D., as Foundations director and Stephen Everse, Ph.D., as director of cellular and molecular biology, transformative strategies in the first-year medical curriculum are transitioning classroom-based teaching to interactive learning experiences that prepare physicians with life-long capabilities to access advances in the biology and practice

of medicine. Janet Stein, Ph.D., has aligned our graduate curriculum with the escalating requirements to understand and experience transdisciplinary perspectives and skillsets for biomedical research. Christopher Francklyn, Ph.D., with Beth Bouchard, Ph.D., and Jay Silveira, Ph.D., have been working with colleagues in the Department of Microbiology and Molecular Genetics and in Chemistry to enhance the teaching and laboratory components of our undergraduate biochemistry program.

Service and outreach to the College of Medicine, the University, and the community and beyond is a priority. The Biochemistry faculty, students and staff engage in securing funds and contribute to the patient support,

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education and advocacy programs of the American Heart Association and the American Cancer Society. They participate in an extensive series of initiatives that are dedicated to cancer and cardiovascular disease prevention, maximally effective treatment and sustained recovery. Services to the biomedical research community include leadership for grant review panels of the National Institutes of Health and disease-based foundations. Biochemistry faculty serve on scientific advisory boards for biotechnology and pharmaceutical industries and as science policy advisors for foreign governments.

Department of Biochemistry research contributions in cancer and cardiovascular disease continue to be significant, far reaching and relevant from fundamental mechanistic and clinical perspectives. Prominent advances include breakthroughs in understanding genetic and epigenetic parameters of cell cycle and growth control, genome instability, the biology and pathology of coagulation and thrombosis, breast and prostate cancer metastasis to bone and regulatory as well as clinical implications from resolution of Thioredoxin reductase activity.

SELECTED HIGHLIGHTS

- Faculty published in such journals as *Biochemistry*, *Molecular and Cellular Biology*, *Journal of Cellular Biochemistry*, *Journal of Biological Chemistry*, *Frontiers in Genetics*, *Journal of Thrombosis and Haemostasis*.
- Department members gave invited presentations at major national and international meetings, including: The State of the Art Lecture at the XXIV ISTH Congress in Amsterdam, Netherlands; The Louis V. Avioli Lecture at the American Society for Bone and Mineral Research annual meeting; a lecture at the Gordon Research Conference on Hemostasis.
- Patents were awarded to faculty for "Direct and Continuous Assay of Thioredoxin Reductase Activity" and "Methods of Detection of Factor Xla and Tissue Factor."

DEPARTMENT OF
Family Medicine

Thomas C. Peterson, M.D., Chair

There were many Family Medicine highlights for 2014.

Among notable faculty events were retirements and new emeritus faculty status for Allyson Bolduc, M.D., Karen Richardson-Nassif, Ph.D. and Karen Burke, M.D. Faculty and staff support the community through free clinics, wilderness rescue, board and foundation service, and invited lectures and articles on topics from lactation medicine to palliative care medicine. Five clinical practices — Milton, Berlin, South Burlington, Hinesburg and Colchester — have maintained or renewed National Committee for Quality Assurance Level 3 recognition as patient-centered medical homes. Our Walk-In Care Clinic has recently gone through an extensive quality improvement process.

For the second year in a row, the Family Medicine Clerkship received the highest rating from the students of all clerkships at sites where Family Medicine sends students — Vermont, Maine and Connecticut. Family Medicine faculty are dedicated to teaching medical students on campus, at their practice sites and in the hospital with over 150 Family Medicine physicians, residents and allied health professionals participating in Foundations, Clerkship and Advanced Integration Level activities. Family Medicine faculty are education directors at all levels of the curriculum.

The Family Medicine TOPMed curriculum (Team-Oriented, Patient-Centered Medical

Education), supported by a five-year HRSA grant, has been integrated in all four years at the College. Students, residents and faculty continue to be innovative in curriculum design and regularly present their scholarly work at regional and national conferences and participate on national curricular boards.

The restructuring of the clerkship and our affiliations with Danbury Hospital and Eastern Maine Medical Center have afforded the department with opportunities for innovation and enhanced curricular elements. Within the expanded clerkship, we have developed a highly effective skill and knowledge building week led by a number of family medicine faculty members to prepare students to be fully engaged and competent at their preceptor sites.

Our residency program thrives with recent innovations in our health systems management and procedure curriculum and the adoption of competency-based Family Medicine Milestones. We continue our commitment to rural and underserved health, patient-centered medical home development, and community medicine. During the academic year, residents presented regionally and nationally on topics including sports medicine, men's health, and quality improvement initiatives (interpretation services for patients of limited English proficiency and osteoporosis screening.) We are actively working on establishing a second family medicine



Accepting the award for best overall clerkship, presented by Associate Dean for Clinical Education Tania Bertsch, M.D., was Associate Professor and Director of Medical Student Education Martha Seagrave, P.A.-C., left, and Associate Professor and Clerkship Director Candace Fraser, M.D., right.

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SELECTED HIGHLIGHTS

- The Family Medicine Clerkship was selected by students as the Best Clerkship in Vermont and Maine for a second year.
- Family Medicine faculty receiving recognition this year include; David Little, M.D., as the Faculty Teacher of the Year and Vermont Medical Society Physician of the Year; Michael Sirois, M.D., as Residency Preceptor of the Year; Rachel DiSanto, M.D. received the UVM Medical Alumni Association Early Achievement Award.
- The Family Medicine Group added Dental and Oral Care to its clinical and education services, adopting the General Practice Dental Residency and operating a state-of-the-art suite for providing community dental care, and for training dental residents and other learners.

residency in northern New York in partnership with The University of Vermont Health Network.

Family Medicine provides leadership for Primary Care Week and Palliative Care Week. Our continuing medical education efforts include our 40th Annual Family Medicine Review Course, 13th Annual Cultural Awareness Workshop, biannual Sports Medicine Conference, regional continuing medical education and academic detailing presentations, and the annual Bridging the Divide collaborative care conference.

Family Medicine faculty scholarship is thriving with funded projects in the delivery of behavioral medicine in primary care offices; provision of rural palliative care; nutrition in the primary care setting; promotion of breastfeeding for newborns and infants; pediatric obesity; motivational strategies for chronic disease, alcohol and substance abuse, and wellness; and the use of social media as a clinical tool. As a result of the Transforming Primary Care initiative several practice improvement posters have been presented at the medical center's Quality Forum and meetings of the National Practice Improvement Conference sponsored by the American Academy of Family Physicians.

The Department of Family Medicine also operates the UVM Office of Health Promotion Research. The major grant at OHPR presently is the Vermont PROSPR Research Center Award.

DEPARTMENT OF
Medicine

Polly Parsons, M.D., E.L. Amidon Chair

The Department of Medicine had another excellent year in 2014, with significant contributions in all areas of our mission: clinical care, education, research, and service. To support all of those missions we continue to grow. This year we welcomed new faculty in Dermatology, Cardiology, Geriatrics, Hematology-Oncology, Primary Care Internal Medicine, Public Health, Pulmonary and Critical Care Medicine and Transplant Nephrology, new residents in Internal Medicine and Dermatology, fellows in all of our subspecialty areas, and graduate students and post-doctoral trainees in our laboratories.

The department expanded its clinical practice, increased its focus on high-value cost-conscious care, and participated in the creation of service lines that extend across our partner hospitals.

Education is a core mission for the department and this year the department leadership identified goals and objectives focused on the enhancement of medical student, resident and fellow education. Faculty are engaging in new ways of teaching including an innovative, multidisciplinary simulation-based education program for the ICU team lead by Laurie Leclair, M.D., and supported by a Frymoyer Scholarship award. This year we celebrated the first graduates of the Certificate in Public Health program and the launch of both the Masters in Public Health and the Certificate in Environmental Health programs under the leadership of Jan Carney, M.D., M.P.H. The faculty continued to participate extensively in the Vermont Integrated Curriculum and again received a number of honors and awards for their contributions to education. William Hopkins, M.D., received the Foundations Course Director Award for the eighth consecutive year and the Dean Warshaw Integration Award for 2014. The Cardiovascular, Respiratory & Renal Systems course, directed by Dr. Hopkins and taught by many of our faculty, won the award for Outstanding Foundations Course for the eighth time. In recognition of their contributions to resident education, Dr. Hopkins received the E.L. Amidon M.D. Award for Subspecialty Medicine and Shaden Eldakar-Hein, M.D., received the William Osler, M.D. Award for General Internal Medicine. This year's recipients of the Department of Medicine Mentor Awards were Ben Suratt, M.D., and Matthew Poynter, Ph.D.



Associate Professor Laurie Leclair, M.D., leads an innovative, multidisciplinary simulation-based education program for the ICU team, a project supported by a Frymoyer Scholarship award.

The department continues to be a nationally/internationally recognized leader in research with contributions to new scientific knowledge spanning from the bench to the bedside to the community. In aggregate, members of the department published more than 300 manuscripts, reviews, chapters and books, and were asked to serve on NIH study sections and advisory councils, FDA review panels and editorial boards. They are invited from around the world to present at scientific meetings and to be visiting professors, and they are elected to leadership in national societies. The SPARK-VT program, which encourages the translation of novel ideas into therapies, diagnostics, and devices that will improve health, was expanded to include the departments of Neurological Sciences and Obstetrics, Gynecology, and Reproductive Sciences. Although research funding continues to be a challenge, the faculty continue to be successful in obtaining grants.

Highlights this year include a large federal subcontract from Johns Hopkins University awarded to Beth Kirkpatrick, M.D., Vaccine Trials Unit; the competitive renewal of a large multi-site study awarded to Mary Cushman, M.D., M.Sc.; and the competitive renewal of the Pulmonary Division's and Vermont Lung Center's NHLBI T32 training grant awarded to Charles Irvin, Ph.D.

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SELECTED HIGHLIGHTS

- Members of the department published research in such journals as *Circulation*, *JAMA Internal Medicine*, *Journal of Cell Physiology*, *PLoS One*, *Journal of Clinical Monitoring and Computing*, *American Journal of Respiratory Cell and Molecular Biology*, *Clinical Infectious Diseases*, *Genome Research*, and the *American Journal of Respiratory Critical Care Medicine*.
- Several department faculty received public recognition for their work: Renee Stapleton, M.D., Ph.D., was awarded the Jo Rae Wright Award for Outstanding Science from the American Thoracic Society; Patricia King, M.D., Ph.D., received the John H. Clark Award, recognizing exemplary leadership, commitment and contributions in advancing the public good at the state medical board level; Mary Cushman, M.D., M.Sc., was awarded the American Health Association's Council on Epidemiology and Prevention Distinguished Achievement Award; Ralph Budd, M.D., received the Senior Researcher of the Year award from the University of Vermont Medical Group; Phil Ades, M.D., received the Presidential Recognition Award from the American Association of Cardiovascular and Pulmonary Rehabilitation; and Dr. Ades and Martin LeWinter, M.D., were named Distinguished Investigators by the Cardiovascular Research Institute of Vermont.

Jeff Clarke

DEPARTMENT OF
Microbiology and Molecular Genetics

Susan S. Wallace, Ph.D., Chair

The Department of Microbiology and Molecular Genetics (MMG) and its 16 faculty members play important roles in the research and educational missions of the College and the University. The department has a vibrant graduate program with 15 doctoral students, teaches medical students in the Vermont Integrated Curriculum and offers two undergraduate degrees, one in microbiology and the other in molecular genetics, with a total of 102 majors.

The department has three principal research foci, microbiology and microbial pathogenesis, where faculty interact with adjunct MMG faculty from Infectious Diseases and Animal Sciences and work together in the Immunology and Infectious Disease COBRE Program; protein-nucleic acid transactions, where faculty interact with adjunct MMG faculty from Biochemistry and are nucleated by a National Cancer Institute-funded Program Project; and computational biology, which has a small but growing group of faculty whose research underpins, interfaces with, and supports the research of the bench scientists in the department and the College.

This year MMG faculty gave 37 presentations at national and international meetings and at universities all over the world. Aimee Shen, Ph.D., was a discussion leader at a Gordon Research Conference on Microbial Adhesion and Signal Transduction; David Pederson, Ph.D., was an invited speaker at the 13th International Workshop on Radiation Damage to DNA; Sylvie Doubl  , Ph.D., was speaker and session chair at the FASEB Nucleic Acids Enzymes summer conference; Markus Thali, Ph.D., was co-organizer and speaker for the 7th FASEB Conference on Tetraspanins; and Susan Wallace, Ph.D., was an invited speaker and session chair at the Gordon Conference on DNA Damage, Mutation and Cancer. MMG faculty also serve as frequent ad hoc reviewers on NIH and NSF panels and Dr. Thali is a permanent member of the AIDS Molecular and Cellular Biology Study Section, while Dr. Doubl   is a permanent member of the Molecular Genetics A Study Section. Gary Ward, Ph.D., is chair of the Board of Directors of the Public Library of Science in Washington, and Neil Sarkar, Ph.D.,

is a member of the Board of Directors of the American Medical Informatics Association. This year, Dr. Doubl   was elected to the Vermont

Academy of Science and Engineering and was a 2013–2014 University of Vermont Scholar.

SELECTED HIGHLIGHTS

- MMG faculty published over 65 papers in high profile journals including several in *PLoS One*, *PLoS Genetics*, the *Proceedings of the National Academy of Sciences*, *Human Genetics*, *Journal of Bacteriology*, *Journal of Virology*, *Journal of Biological Chemistry* and *DNA Repair*.
- Department faculty are members of 20 editorial boards including such prestigious journals as *Structure*, *PLoS One*, *PLoS Biology*, *Journal of Virology*, *DNA Repair* and *Eukaryotic Cell*.
- Susan Wallace, Ph.D., was the recipient of UVM's 2014 Hubert W. Vogelmann Award for Excellence in Research and Scholarship.



Professor and Chair Susan Wallace, Ph.D., has headed the department since 1988.

Mario Morgado

Molecular Physiology & Biophysics

David Warshaw, Ph.D.'79, Chair

The Department of Molecular Physiology & Biophysics continues to garner international recognition and success in the areas of cardiovascular research, cell division, and protein structure and function. A common research focus is directed at understanding the molecular basis of cellular movement, whether associated with cell division or muscle contraction. By studying genetic alterations in cellular movement, special emphasis is directed at defining normal and diseased contractile function of the heart, blood vessels, and processes associated with cell division, e.g. chromosome segregation during mitosis. The department is considered the premier center of muscle and non-muscle cell motility research in the United States. An additional research focus is on protein molecular structure, with expertise in high-resolution three-dimensional electron microscopy.

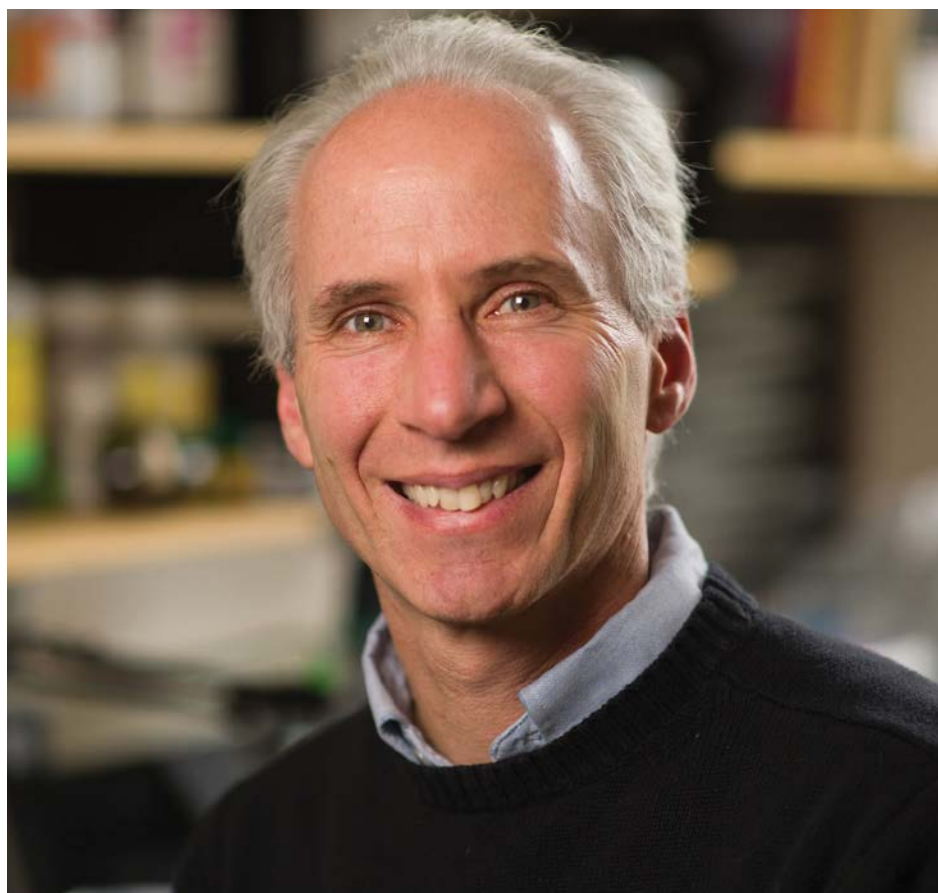
The department faculty is involved with two highly prestigious National Institutes of Health (NIH) Program Project Grants to study genetic forms of heart failure and aortic aneurysms. These multi-investigator grants serve as the foundation for collaborative efforts within the department and across institutions (Johns Hopkins, UMass, University of Cincinnati, UTSouthwestern, and UPenn). Tereasa Ruiz, Ph.D., was awarded a new NIH multi-principal investigator award to study oral pathogens, while Jason Stumpff, Ph.D., received a March of Dimes Basil O'Connor Starter Scholar Research Award to study the regulation of chromosome movement. During this fiscally challenging

time, the department continues to compete effectively for limited extramural funds, with all tenure-track faculty being funded and publishing widely, as well as serving on editorial boards for several journals.

Faculty have been honored as organizers and invited speakers at prestigious international meetings such as Kathleen Trybus, Ph.D., who co-chaired the Gordon Research Conference at Mt. Snow, Vermont, on Muscle and Molecular Motors, at which Drs. Stumpff and Warshaw were invited speakers. Matthew Lord, Ph.D., presented at the Gordon Research Conference on "Plant and Microbial Cytoskeleton" in Amherst, N.H. Dr. Warshaw was a keynote speaker at the "Myosin Binding Protein C: Past, Present and Future" meeting in Chicago, Ill. Christopher Berger, Ph.D., spoke at the World Congress of Biomechanics in Boston. Dr. Ruiz

was the plenary speaker at the "Microscopy in Research Conference" in Lisbon, Portugal. Michael Radermacher, Ph.D., organized a symposium at the Microscopy & Microanalysis Meeting in Hartford, Conn. Faculty play key service roles on review panels for the NIH and National Science Foundation.

In education, faculty contribute substantially to both medical and graduate programs and have been nominated for teaching awards in the medical school curriculum. Dr. Berger serves as Director of Graduate Education for the College of Medicine and was instrumental in the successful launch of the new umbrella program in Cell, Molecular, and Biomedical Sciences. Drs. Radermacher and Ruiz continue to offer a "Practical Course on Three-dimensional Cryo Electron Microscopy of Single Particles" that attracts over 20 international scientists.



Associate Professor Christopher Berger, Ph.D., serves as director of graduate education for the College of Medicine.

SELECTED HIGHLIGHTS

- Faculty published numerous articles in prestigious journals such as *Nature*, *Structural and Molecular Biology*, *Proceedings of the National Academy of Science*, *Molecular Biology of the Cell*, and the *Journal of Structural Biology*.
- David Warshaw, Ph.D., was named Fellow of the Biophysical Society.
- Christopher Berger, Ph.D., was honored as a Whitman Research Fellow of the Marine Biological Laboratory in Woods Hole, Mass.

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Neurological Sciences

Gregory Holmes, M.D., Chair



Professor Diane Jaworski, Ph.D., received a 2014 Kroepsch-Maurice Excellence in Teaching Award in recognition of her overall excellence in instruction of UVM students.

The Department of Neurological Sciences is devoted to becoming one of the best translational research departments in the country through integration of the basic neurosciences with the clinical neurosciences in our three missions: research, teaching and clinical care. Understanding the basic underpinnings of neurological disorders is central to our educational and clinical mission. To this end, the past year has been an exciting one for the department.

Research, clinical, and educational faculty all worked to further the educational mission of the College of Medicine by teaching undergraduates, graduates, medical students, residents and fellows. At the 2014 Foundation Awards, Assistant

Professor Ellen Black, Ph.D., was awarded the Foundations Teaching Award. Dr. Black will be hooding the Class of 2015 at their graduation and will be recognized with other Teachers of the Year from the past. Dr. Black also received the Above and Beyond Award that recognizes the faculty member who went above and beyond the call of duty to help the students in their learning objectives. The Center for Teaching and Learning announced that Professor Diane Jaworski, Ph.D., received a 2014 Kroepsch-Maurice Excellence in Teaching Award in recognition of her overall excellence in instruction of UVM students. Christopher Commichau, M.D., developed a three-year, basic science curriculum for residents that is being implemented by faculty.

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SELECTED HIGHLIGHTS

- In 2014, Neurological Sciences faculty published 44 articles in a variety of scientific journals, including *Pediatrics*, *Hippocampus*, *Journal of Physiology*, *American Journal of Physiology Cell Physiology*, and *The Lancet*.
- Faculty members served on 19 Editorial Boards and review committees.

Our basic science faculty continued to seek out grant funding with a strong record of success. There were several new grants awarded including a competitive renewal to Marilyn Cipolla, Ph.D. of her R01 entitled "The role of the blood-brain barrier in seizures during pregnancy and pre-eclampsia". Rodney Parsons, Ph.D., was awarded an equipment grant for the purchase of a Yokogawa CSU-W1 spinning disk confocal microscopy system. Charitable grants from the Migraine Research Foundation, the National Multiple Sclerosis Society were also obtained. These awards are allowing closer collaboration between the basic science and clinical faculty and are greatly increasing the translational impact of the department's research. The faculty have also been productive having published approximately 50 manuscripts in high impact general and specialty journals.

Our clinical programs at The University of Vermont Medical Center continued to provide excellent neurological care. In addition, the clinical faculty continue to be active in clinical trials. There are currently 19 clinical trials relating to treatment of multiple sclerosis, epilepsy, myasthenia gravis and movement disorders. Of these, six trials began in the previous fiscal year.

In 2014, Neurological Sciences faculty published 44 articles in a variety of scientific journals and served on 19 editorial boards and review committees.

In summary, the past year has been a productive one for the Department of Neurological Sciences. As we continue to recruit outstanding clinicians, teachers and investigators we are excited about the new heights the department will achieve.

Obstetrics, Gynecology and Reproductive Sciences

Ira Bernstein, M.D.'82, John Van Sicklen Maeck Chair



Assistant Professor Julie Phillips, M.D., left, talks to colleagues during the annual department retreat.

The Ob/Gyn department has had one significant leadership transition over the last year. Elizabeth McGee, M.D., has assumed the directorship of both our division of Reproductive Endocrinology and Infertility (REI) as well as REI fellowship training program. Within the Division of Gynecology Oncology, Anne Dougherty, M.D.'09, received a Frymoyer Scholar Award for her project "Development of global women's health curriculum for medical students and residents." This project is part of her initiative developing a global women's health program for our department, primarily in collaboration with Mulago hospital in Kampala, Uganda. Also within the division of Gynecologic Oncology Elise Everett, M.D., was promoted to associate professor and graduated from the APGO Scholars and Leaders program. Dr. Everett also received several awards including the APGO Excellence in Medical Student Teaching Award as well as the Clinical Teacher of the Year Award from the Class of 2014. Cheung Wong, M.D., received the annual resident award for best teacher on the full-time faculty.

Within the division of Maternal Fetal Medicine, Marjorie Meyer, M.D., continues her clinical practice and research work examining

the management of opioid addiction during pregnancy. She was an invited speaker outlining pain control in pregnancy in the opioid dependent population at the 2013 New England Perinatal Quality Improvement Network (NEPQIN). She was also invited to address the New England Institute of Addiction Studies and the Harvard Symposium on Addiction Medicine.

Several investigators within the division of Maternal Fetal Medicine, including Drs. Phillips and Meyer and Ira Bernstein, M.D., are all collaborating with members of the Department of Psychiatry examining methods to improve women's health through behavioral interventions. Distinct National Institutes of Health funded studies target and examine strategies for optimizing weight gain in pregnancy in

overweight and obese women (Phillips), facilitating contraceptive use in young, vulnerable opioid-dependent women (Meyer) and promoting maternal smoking cessation during pregnancy (Bernstein). Also within Maternal Fetal Medicine, Kelley McLean, M.D., was invited to speak to the NEPQIN to discuss thrombosis in pregnancy and best practices regarding their prevention, her primary area of research interest.

Elizabeth Bonney, M.D., director of the division of Reproductive Investigation was recognized by the UVM ALANA Center and received the Outstanding Club Advisor Award. Additionally Dr. Bonney completed her course work for the master program in public health with a concentration in quantitative methods at Harvard University this year.

SELECTED HIGHLIGHTS

- Faculty published in such journals as *Obstetrics & Gynecology*, *Pregnancy Hypertension*, *Biology of Reproduction*, *Microcirculation*, and *Frontiers in Physiology*.
- Members of the department served on eight study sections or national committees.
- Julie Phillips, M.D., is a project director within the Vermont Center on Behavior and Health: Center of Biomedical Research Excellence (COBRE) with a new grant project titled: Incentives Targeting Gestational Weight Gain in Overweight and Obese Low Income Women.

Orthopaedics and Rehabilitation

Claude E. Nichols III, M.D., Chair

The Department of Orthopaedics and Rehabilitation has embarked on an evolutionary approach to the Graduate Medical Education Program. There has been significant concern nationally regarding the preparedness of residents to enter practice. In response, the Orthopaedic Surgery residency program at UVM has taken a unique approach. The post-graduate year one (PGY-1) encompasses a focused orthopaedic education, including, but not limited to, basic science, radiology, critical thinking exercises, leadership, simulation, development of technical skills, and teaching in the Vermont Integrated Curriculum. The junior residents (PGY2 and 3) rotate through each subspecialty to prepare them for the increased responsibility in the PGY4 and 5 years. Program Director, S. Elizabeth Ames, M.D., developed this program in conjunction with the ACGME requirements.

The Sports Medicine Research Team, under the direction of Bruce D. Beynnon, Ph.D., McClure Endowed Professor, continues to push the frontiers of knowledge with their work on post-traumatic osteoarthritis after anterior

cruciate ligament injuries and on risk factors leading to ACL injuries. Timothy W. Tourville, Ph.D. is working with Michael J. Toth, Ph.D. from the Department of Medicine investigating skeletal muscle dysfunction in the face of acute muscle disuse.

Clinically, the faculty has broadened the scope of activities offered by the department. Concussions and post-concussion syndrome are areas of interest for Raiel D. Barlow, M.D., from the section of Rehabilitation Medicine. A specialty clinic focusing on these potentially devastating traumatic brain injuries has been established. Nathaniel J. Nelms, M.D., has developed a program in the Adult Reconstruction Section that offers the anterior approach to total hip arthroplasty. Data would support decreased length of stay, less post-operative pain, and high patient satisfaction. Jennifer W. Lisle, M.D., a fellowship trained musculoskeletal oncologist, works as part of the UVM Cancer Center, to improve care of patients with musculoskeletal and soft tissue tumors. Craig S. Bartlett, M.D., enhanced his expertise in treating lower

extremity deformity by working with experts in South Africa.

James R. Slauterbeck, M.D., presented work on ACL injury prevention at the International Olympic Committee World Conference in Monaco. Professor Emeritus David D. Aronsson, M.D., was appointed to the editorial board of the *Journal of Bone and Joint Surgery* (American). In addition to the retirement of Dr. Aronsson from the faculty, Thomas K. Kristiansen, M.D. retired from the full-time faculty, but continues to pursue clinical work.

SELECTED HIGHLIGHTS

- Orthopaedics faculty published in such journals as the *American Journal of Sports Medicine* and the *Journal of Orthopaedic Trauma*.
- Faculty serve on nearly 60 national associations and study sections in the field of orthopaedics.



Professor and Chair of Orthopaedics Claude Nichols, M.D., also chair of the board of the UVM Medical Group.

Pathology and Laboratory Medicine

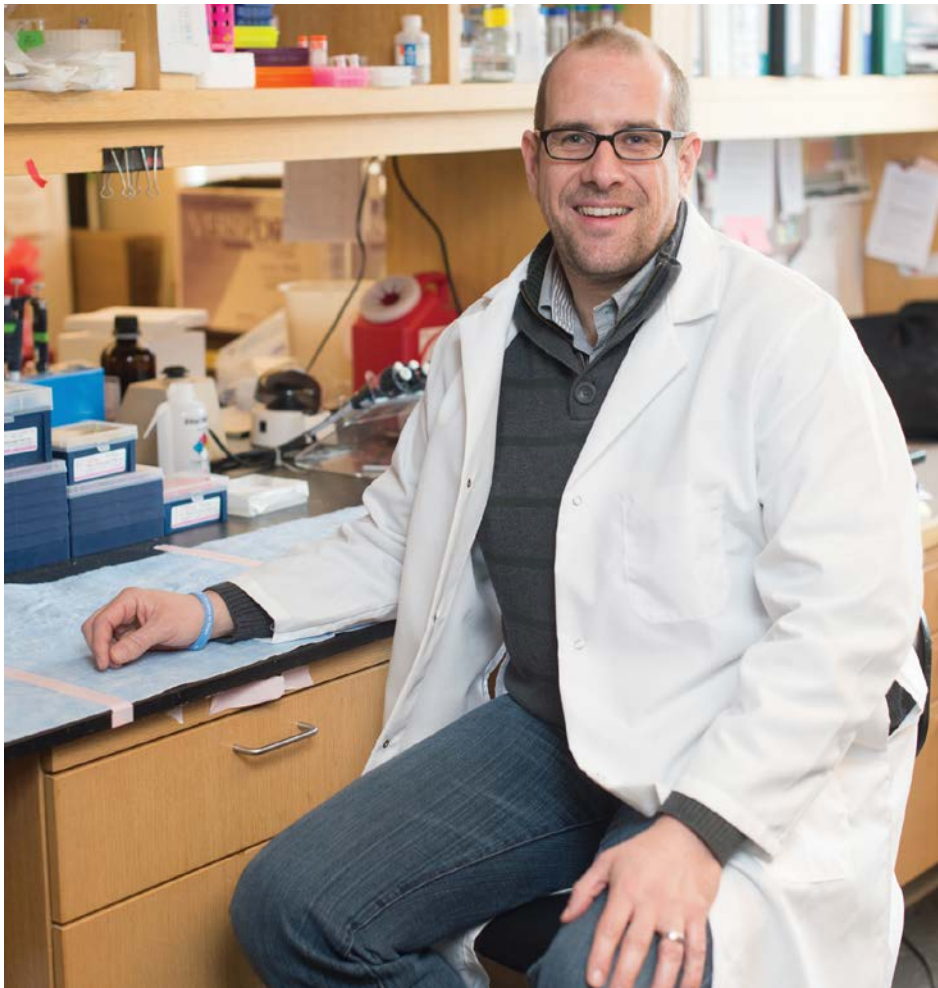
Debra G.B. Leonard, M.D., Ph.D., Chair

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The Department of Pathology and Laboratory Medicine has had a productive year with faculty conducting basic, clinical and translational research; providing care to patients within the UVM Health Network and other regional hospitals and clinics; training at all levels from undergraduates to clinical fellows; and providing leadership locally, regionally and nationally. Faculty contributed 92 peer-reviewed articles, 49 regional and national presentations, 14 textbook chapters, and 19 lectures in formal courses. Faculty have been successful in receiving grant funding with twelve successful grant applications this past year.

The department offered degree-granting research opportunities to five graduate students, twelve-month clinical training fellowships for two UVM medical students, an annual exchange program with two different medical schools in Japan, and a continued affiliation with the University of Maastricht.

A number of our department members received special honors, including: Jos Van der Velden, Ph.D., who received the prestigious Parker B. Francis Foundation Fellowship in 2014, joining Vikas Anathy, Ph.D., who received the fellowship in 2013, both under the mentorship of Yvonne Janssen-Heininger, Ph.D.; Dr. Anathy, who was recognized by both the American Thoracic Society with an abstract scholarship, and the Asthma and Allergy Foundation of



Assistant Professor Jos Van der Velden, Ph.D., received the prestigious Parker B. Francis Foundation Fellowship in 2014.

America with the Sheldon C. Siegel Award for his research in allergen-induced airway remodeling; and our Histology Division within Anatomic Pathology at The University of Vermont Medical Center, who received the National Society for Histotechnology/Ventana Medical Systems Commitment to Patient Safety Award for their 2D barcoding initiative.

The research of our faculty included: environmental agents and cell signaling pathways that contribute to inflammation in lung, asthma, pulmonary fibrosis, mesothelioma, and breast cancer; the molecular and genetic epidemiology of thrombosis, cardiovascular disease, frailty and aging; and improving laboratory test utilization in different settings including HPV testing, lung cancer

and transfusion medicine. Faculty members are actively involved in the Vermont Lung Center, the Cardiovascular Research Institute of Vermont, and the University of Vermont Cancer Center, and serve on a wide variety of College of Medicine and University committees. Nationally, our faculty continue to serve on committees of the American College of Graduate Medical Education, American Association of Blood Banks, American Heart Association, American Society of Clinical Pathology, American Society of Cytopathology, College of American Pathologists, the Institute of Medicine, the National Heart, Lung and Blood Institute, and the National Institute of Environmental Health Sciences, and the National Institutes of Health.

SELECTED HIGHLIGHTS

- Faculty published in such journals as the *American Journal of Respiratory Critical Care Medicine*, *American Journal of Pathology*, *Arteriosclerosis, Thrombosis, and Vascular Biology*, and the *Journal of the National Cancer Institute*.
- New extramural research grants were received from the Department of Veterans Affairs, Francis (Parker B.) Foundation, Duke University, and the National Heart, Lung, and Blood Institute.
- Rebecca Wilcox received the University of Vermont Kroepsch-Maurice Excellence in Teaching Award, a University-wide award that has been awarded only four times to clinical faculty in the past 21 years.

Pediatrics

Lewis R. First, M.D., Chair

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Professor of Pediatrics Ann Guillot, M.D., directed the pediatric residency program for the last 25 years. She now continues as director of the department's nephrology division and serves as interim director of the Teaching Academy.

During the past year, the Department of Pediatrics continued to strengthen its academic mission of improving the health of children through clinical, research, educational, and service activities that make a difference for those living in our community and in turn can be shared with others throughout the country and the world.

Educationally, our department continued to teach actively in all four years of the Vermont Integrated Curriculum. We were fortunate to have our department honored for the second year in a row by the graduating class as Clinical Department of the Year, in addition to other teaching and national leadership honors received by our faculty during the past year. Of the six house staff across departments given Gold Humanism Awards as selected by the third-year class, four were from our residency program. In addition, the number of fourth-year students choosing pediatrics as a career was over 15 percent, now 20 years in a row, above the national average of 10 percent, and the number of applicants to our residency program increased again another 25 percent over the prior year's record-breaking increase. Our nationally lauded summer continuing medical education Vermont Pediatric Summer Seminar course sold out again and brought attendees from all over the country to Vermont to be updated on new developments in the field of pediatrics.

Nationally, our faculty continue to hold leadership roles in all the major pediatric educational organizations. In particular, Lewis First, M.D.'s local and national leadership in pediatrics was recognized with his winning the highest leadership award in academic pediatrics — the 2014 Joseph W. St. Geme, Jr. Leadership Award. We also continue to serve for the 40th year in a row as the editorial home of the journal *Pediatrics*, the leader in peer-reviewed general pediatric journals nationally and internationally.

From a research perspective, we continue to be fortunate to receive significant federal, state, and foundation grant funding, especially in the area of health services research. The Vermont Oxford (Neonatal) Network, ImproveCareNow (a national network for collaborative improvement research in inflammatory bowel disease), the American Association of Pediatric's Pediatric Research in Office Settings, and the Vermont Child Health Improvement Program (VCHIP) expanded their projects and programs and published their results in multiple peer-reviewed journals. Translational research also flourished in areas such as metabolism, nutrition, cystic fibrosis, and oncology.

Advocacy efforts also flourished as faculty and house staff participated in numerous community service efforts involving projects to overcome food insecurity or improve health care access to immigrant populations arriving in Vermont. We also worked hard in all areas to

increase our family-centered, child-friendly care efforts through some innovative changes in our rounding processes.

Inpatient and outpatient services demonstrated quality improvements in every clinical area. The initiation of 24/7 hospitalist coverage, as well as our pediatric "Transforming Primary Care" initiative, led to record high levels of patient satisfaction and improved outcomes in our quality metrics.

From a philanthropic standpoint, the department was also successful setting records in its fund-raising and friend-raising events, most notably the "Big Change Roundup for Kids" in which almost \$270,000 in change was collected throughout Vermont and upstate New York during the five day event.

As to personnel changes, the department welcomed new faculty, including Kelly Cowan, M.D., (Pulmonary), Abby Adler, M.D., Karin Gray, M.D., and Molly Moore, M.D., (hospitalists) with new faculty joining us in the upcoming year in gastroenterology, critical care, adolescent medicine, neonatology, and nephrology.

Finally, after a quarter century of overseeing our residency program, Ann Guillot, M.D., has stepped down from that role, and assistant program director Jerry Larrabee, M.D., became our residency program director. Although Dr. Guillot will continue on as director of our nephrology division and interim director of the Teaching Academy, we thank her for the outstanding job she has done and in her honor have created the Guillot Resident Teaching Award to be given to the outstanding resident teacher at the end of the academic year.

SELECTED HIGHLIGHTS

- Faculty published in such journals as *Academic Pediatrics*, *Pediatrics*, and *Pediatric Pulmonology*.
- Maria Avila, Ph.D., won the Edith D. Hendley Award for excellence in research, scholarship, and teaching with dedicated service to women and the community.
- Wendy Davis, M.D., received the J. Ward Stackpole Recognition Award from Vermont State School Nurses Association.

DEPARTMENT OF
Pharmacology

Mark T. Nelson, Ph.D., Chair

The Department of Pharmacology, with its international reputation in neurovascular research continues to play important roles in the research and educational missions of the College of Medicine and the University. Our faculty have been honored as keynote and invited speakers at prestigious international meetings and universities around the world.

Research funded by Fondation Leducq and co-led by Mark Nelson, Ph.D., continues its efforts to uncover the mechanisms that cause small vessel disease (SVD) of the brain. Research includes CADASIL mice, a genetic model for SVD in non-hypertensive human adults. Dr. Nelson and network investigators presented their findings at the Second International Workshop on CADASIL, held in Paris, France.

This year the department hosted an International Symposium on Ion Channels at UVM with speakers from Sweden, Germany, Great Britain, Canada, and across the United States. Ninety attendees networked during a day long symposium and a poster session.

Assistant Professor Benedek Erdos, M.D., Ph.D., joined the department during this year. His research focuses on understanding how stress, obesity and aging affect neuroendocrine regulation of blood pressure with an aim to identify novel therapeutic targets for the treatment of hypertension and cardiovascular diseases.

Extramural support remains strong, with new grants and continued funding from the National Institutes of Health (NIH), National



Professor of Pharmacology Joseph Brayden, Ph.D., has been a member of the faculty for more than 30 years. He was named Distinguished Investigator of the Cardiovascular Research Institute of Vermont in 2014.

Cancer Institute, American Heart Association, foundations, and industries. The Totman Medical Research Trust continues its generous support for interdepartmental research to understand cerebrovascular function and disease.

We are committed to maintaining high quality teaching and mentoring efforts to medical, graduate, advanced undergraduate students, and our many postdoctoral fellows. Faculty efforts include one-on-one research mentoring, didactic lectures in pharmacology courses including the Medical Summer Pharmacology program, and virtually all

courses in the Foundations level of the Vermont Integrated Curriculum at the College of Medicine.

The minor in Pharmacology for UVM undergraduates continues to grow in popularity. Twelve students graduated with a pharmacology minor in May of 2014. Currently there are 26 students enrolled, including 15 seniors. The department fosters communication and collaboration with faculty and postdoctoral fellows presenting current research in weekly journal clubs and monthly interactive research forums.

Pharmacology faculty serve on many grant review committees for the NIH, American Thyroid Association, and the American Heart Association; peer review committees for the American Cancer Society, and the American Heart Association; Program Committee for the American Thyroid Association; and on numerous editorial boards including the *Physiological Reviews*, *Journal of Cerebral Blood Flow and Metabolism*, *American Journal of Physiology* and *Molecular Pharmacology*. Our faculty serve important roles on UVM committees including the Faculty Standards Committee, the CMB Graduate Recruitment Committee, and several committees for the University of Vermont Cancer Center.

SELECTED HIGHLIGHTS

- Mark Nelson, Ph.D., was an invited speaker at 2014 European Stroke Conference, "Novel mechanistic insides from monogenic SVD (small vessel disease)."
- George Wellman, Ph.D., was invited speaker at the 12th International Conference on Neurovascular Events after Subarachnoid Hemorrhage, Lucerne, Switzerland.
- Joseph Brayden, Ph.D., was honored as a Distinguished Investigator by the Cardiovascular Research Institute of Vermont.
- Pharmacology researchers published over 20 peer reviewed articles in top biomedical journals including: Two papers in *Science Signaling* (highlighted with a *Perspective and Podcast*), *Journal of Cerebral Blood Flow & Metabolism*, *Circulation Research*, *Proceedings of the National Academy of Sciences* (highlighted in *Science*), and *Stroke Research and Treatment*. Departmental research was cited in other publications nearly 3,000 times in the past year.

ANNUAL REPORT
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DEPARTMENT OF
Psychiatry

Robert Pierattini, M.D., Chair

The past academic year saw the establishment of the Vermont Center on Behavior and Health under the leadership of Stephen Higgins, Ph.D. Dr. Higgins was awarded an NIH COBRE grant to establish this center, as well as a P50 award to establish one of fourteen FDA Tobacco Regulatory Centers for tobacco-related research. Hugh Garavan, Ph.D., Diann Gaalema, Ph.D., Sarah Heil, Ph.D., Stephen Higgins, Ph.D., (director of the center) John Hughes, M.D., and Stacey Sigmon, Ph.D., together form the leadership of these major initiatives. Their research and teaching focuses on advancing understanding of how personal behavior, especially tobacco and other substance abuse, increase risk for chronic disease and premature death, and development and testing of novel treatment interventions. Their faculty published 80 articles and book chapters, which appeared in such peer-reviewed journals as *JAMA* (Dr. Hughes), *JAMA Psychiatry* (Dr. Sigmon twice), *Nature* (Dr. Garavan), *Neuropharmacology* (Dr. Garavan), *Nicotine & Tobacco Research* (Drs. Higgins & Hughes), *Preventive Medicine* (Drs. Heil, Higgins), and *Psychopharmacology* (Dr. Higgins). A T32 training grant and the TCORS award support 18

predoctoral and postdoctoral fellows. The COBRE supports five UVM R21-equivalent faculty research projects across the College of Medicine.

The Research Center for Children, Youth, and Families expanded international population sampling to enrich its profile of behaviors, normal and not, in both adults and children. Using international experts, it used DSM-5 criteria to create assessment scales for the revised diagnostic criteria, publishing *DSM-Oriented Guide for the Achenbach System of Empirically Based Assessment* (ASEBA) and creating software for scoring the scales.

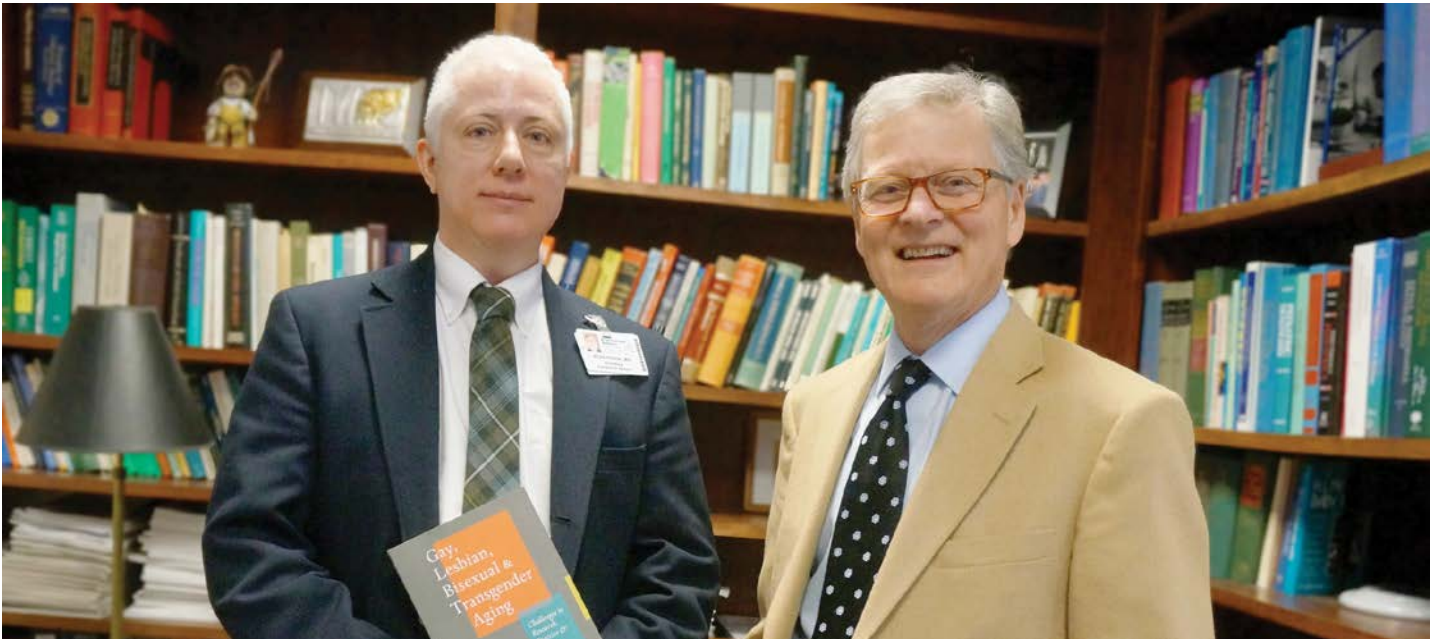
The Clinical Neuroscience Research Unit (CNRU) has continued to focus on a variety of neuroscience topics from chronic pain to impulsivity to the aging brain. Magdalena Naylor, M.D., Ph.D., investigates the effects of cognitive behavioral therapy on chronic pain (including neuroimaging techniques); Alexandra Potter, Ph.D., examines the neurobiology underlying impulsivity in adolescents and young adults; and Julie Dumas, Ph.D., is examining the neurochemistry responsible for the cognitive change that happens to some women at menopause.

SELECTED HIGHLIGHTS

- Faculty published research in such journals as *Nature*, *Preventive Medicine*, *JAMA Psychiatry*, and *Drug and Alcohol Dependence*.
- Thomas Achenbach, Ph.D., published a chapter on developmental psychopathology in the *Oxford Textbook of Psychopathology*.
- David Rettew, M.D., published a book titled *Child Temperament: New Thinking About the Boundary Between Traits and Illness* (W. W. Norton).

Isabelle Desjardins, M.D., heads a team of University of Vermont Medical Center psychiatrists for the opening of the Vermont Psychiatric Care Hospital in Berlin. The 25-bed hospital replaces the Vermont State Hospital, which closed after receiving major damage during Hurricane Irene.

The Psychiatry Service launched its Medical Home Primary Psychiatry program, integrating psychiatry services into the primary care setting. A. Evan Eyler, M.D., leads the new program.



Professor of Psychiatry A. Evan Eyler, M.D., at left, discusses the book he co-edited this year on LGBTQ aging issues with Dean Rick Morin in the dean's office.

Radiology

Kristen K. DeStigter, M.D., Interim Chair

The Department of Radiology has focused on and implemented several quality improvement initiatives.

The radiology “high reliability” program has encompassed several important projects, including both a radiation dose monitoring system (to track radiation dose for each patient over their lifetime), and a clinical decision support system (to help ordering doctors know which radiology test is most appropriate based on scientifically proven data). Patient chart information is now available on radiologist reading workstations. When a radiologist views an imaging study, the patient’s complete electronic health record is available on the same workstation, allowing the radiologist access to key patient history that can help guide the diagnosis. We also implemented a closed loop communication system to track radiologist

recommendations for follow-up studies (e.g. short term follow-up for a pulmonary nodule). The digital librarians track identified patients and confirm the recommended follow-up study has been performed, deferred or declined. This ensures that the patient will receive the necessary follow-up in time.

The use of ionizing radiation, especially in computed tomography (CT) and interventional radiology, is a concern, especially for patients who undergo multiple imaging studies. To track a patient’s lifetime exposure we have installed a radiation dose monitoring system. With our partners at Philips Healthcare, we have also installed CT technology that dramatically reduces the radiation dose while maintaining imaging quality. The technology, Iterative Model Reconstruction (IMR) enables a 60–80 percent lower radiation dose, and we are working closely

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with Philips to further optimize protocols. In interventional radiology, another upgrade that we have installed this year is “Clarity,” which through changes in hardware and software enables exams to be performed with the same image quality but only half the radiation dose.

Important research initiatives continue in Radiology. Radiology faculty contributed to more than 50 research projects, including many from the College of Medicine, other UVM Departments, and industry-sponsored projects. Through generous funding from the Fearons family, researchers are investigating newly developed MRI techniques as biomarkers for Alzheimer’s Disease (AD). These techniques — some of which have been developed at UVM and benefit from the newly upgraded research MRI — aim to provide early diagnosis for patients at risk of AD, enabling earlier and more effective treatment, as well as monitoring the effects of treatment. Additionally we continue with our successful international ultrasound program in sub-Saharan Africa.

The department remains dedicated to providing exceptionally high quality radiology services to the Vermont community. As an academic center, we are also strongly committed to research and education, providing training to medical students and residents by nationally and internationally acclaimed faculty, using state-of-the-art imaging resources and equipment.

SELECTED HIGHLIGHTS

- Radiology faculty published in such journals as: *Radiographics*; *Radiology*; *Journal of the National Cancer Institute*; *Cancer Epidemiology, Biomarkers & Prevention*; *Cancer Cytopathology*; *Journal of Nuclear Cardiology*, *PLoS One*, *Nature*, and *Radiographics*.
- Seventeen members of the department serve on national associations or committees.
- Kristen DeStigter, M.D., was named the John P. and Kathryn H. Tampas Green & Gold Professor in Radiology.



Professor Kristen DeStigter, M.D., was named Interim Chair of the Department of Radiology in 2014, succeeding Steven Braff, M.D.

Surgery

Mitchell Norotsky, M.D., Chair

The faculty of the Department of Surgery at the University of Vermont College of Medicine continues to excel as clinicians, educators and researchers. We recruit superb faculty with outstanding training and innovative skills. In 2014, our department welcomed Matthew Alef, M.D., (Vascular Surgery), Claude Deschamps, M.D., (Thoracic Surgery), David Diaz, M.D., (Ophthalmology), Carlos Marroquin, M.D., (Transplant Surgery), Rich Grunert, M.D., (Urology), and Andrew Mahoney, M.D., (Urology). Our faculty continues to deliver high quality care to patients at The University of Vermont Medical Center, in close alignment with the University of Vermont College of Medicine. All of the surgical providers are enthusiastic about extending our surgical expertise throughout Vermont and upstate New York as part of the recently created University of Vermont Health Network. It is truly an exciting time for our region’s academic medical center.

The department’s educational and research missions continue to thrive as evidenced by the robust number of medical students in the surgery Senior Major Program every year. Each senior surgery major student completes a research project under the mentorship of one of the surgery faculty. An annual surgery research forum is held in May where the results of these research efforts are presented. Our Senior Majors also complete a month long surgery “boot camp” which sharpens their clinical skills in preparation for the onset of their residency training. The student award winners for 2014 are: Elizabeth Blasberg, Pilcher Award; Dane Slentz, Howe Senior Student Award; Kevin Kuruvilla, H. Gordon Page Award; and Jeanna Pariseau, The James E. Demeules Surgical Research Award.

The surgical faculty and residents continue to garner awards from medical students completing their clinical clerkships. Students and residents are expanding their clinical skills in the simulation center. The Department of Surgery maintains a series of named lectureships including The John H. Davis, M.D. Endowed Lectureship in Surgery, The Madison Jaurigue Endowed Lectureship in Neurosurgery, The Samuel B. and Michelle D. Labow Endowed Lectureship in Surgery, The Albert Mackay, M.D.’32 and H. Gordon Page, M.D.’45 Annual



Associate Professor Mitchell Norotsky, M.D., was named chair of the department in 2014, succeeding Marion Couch, M.D., Ph.D.

Lecture in Surgery, The Steven R. Shackford, M.D.-Samuel B. Labow Endowed Lectureship in Quality, The Norman J. Snow, M.D.’70 Annual Lecture in Thoracic Surgery, The Martin H. Wennar, M.D. Lectureship in Professionalism, The Stanley S. Fieber Lecture, and the Arnold H. Colodny, M.D., Lectureship in Pediatric Surgery.

At this year’s College of Medicine Reunion Weekend, Martin Koplewitz M.D.’52 received The Service to Medicine and Community Award, and Neil Hyman M.D.’84 received The Distinguished Academic Achievement Award. Both of these physicians are exemplary role models for students and residents.

The Department of Surgery continues to excel in various areas including clinical outcomes, education, research, and philanthropy. Our success as a department is a direct result of the faculty that comprises the department. We are indebted to each member of our faculty for their expertise and unwavering support to our missions. Although the environment for the delivery of healthcare is changing rapidly, the Department of Surgery at Vermont’s academic medical center will adapt and stay true to its core values.

SELECTED HIGHLIGHTS

- Faculty published in such journals as: *The Journal of Clinical Oncology*, *Radiology*, *Prostate Cancer and Prostate Disease*, *Journal of the National Cancer Institute*, and the *International Journal of Urology: Official Journal of the Japanese Urological Association*.
- The department moved forward with the establishment of fourteen Green and Gold Professorships. The financial resources for these professorships came from the generosity of the surgical faculty.

University of Vermont Cancer Center

Gary Stein, Ph.D., and Claire Verschraegen, M.D., Co-Directors

In the last year, the University of Vermont Cancer Center made significant investments and progress in advancing transdisciplinary research, strengthening its three research program areas (Molecular Mechanisms of Malignancy, Host Factors and Tumor Progression and Cancer Control and Population Health Sciences), deploying a portfolio of cutting-edge clinical trials relevant to patient needs and promising research, enhancing clinical care and support services, and building community engagement and education programs.

It was an outstanding year for researchers and research teams who published more than 200 peer-reviewed articles representing a spectrum of high-impact basic, translational, clinical and behavioral research. Faculty were invited speakers at regional, national and international meetings, and their advances in research, education and patient care were recognized with numerous awards. New, cancer-focused faculty recruitments as well as development of new multidisciplinary clinics took place, enhancing both patient care and research at the Cancer Center.

Significant research accomplishments include the development of several investigator-initiated and phase one clinical trials, discovery of novel biomarkers to predict cancer risk and inform targeted therapeutics, basic research studies advancing the understanding of DNA damage and repair, population health science research on risk assessment and lifestyle factors contributing to cancer risk — to name a few. Scientists, physician-investigators and staff conducted more than 300 research projects this year addressing cancer prevention, detection, treatment and survivorship research, many of which were the product of transdisciplinary partnerships between basic scientists and physician-investigators and caregivers at the UVM Cancer Center.

Transdisciplinary research and innovative investments on the clinical side have advanced treatment and care options for patients. Examples of such investments and achievements include: first, the successful recruitment of physicians and researchers with a translational focus who will bridge clinical and laboratory research development through



Cancer Center member and Breast Cancer Conference chair Patti O'Brien, M.D., is interviewed by a local television news crew during the conference, which drew more than 350 participants.

the Transdisciplinary Team approach, which is a focus of UVM research programs; second, the development of a new sarcoma cancer multidisciplinary clinic; third, the targeted use of three new drugs in clinical trials offering hope to the sickest of patients; and fourth, the Stem

Cell Transplant Program received Foundation for the Accreditation of Cellular Therapy (FACT) accreditation, recognizing outstanding capabilities and quality in adult stem cell transplantation.

Note: The center changed its name to The University of Vermont Cancer Center in November 2014.

SELECTED HIGHLIGHTS

- Clinical and Translational Research Symposium titled "Epigenetics and Cancer" drew more than 120 attendees.
- UVMCC members published in such journals as *Nature Genetics*, *Journal of the National Cancer Institute*, *Journal of Cell Biochemistry*; and *DNA Repair*.
- Members were recipients of several notable honors, including: Judith Van Houten, Ph.D., (UVM Presidential Distinguished University Citizen Award); Diane Jaworski, Ph.D., and

Rebecca Wilcox, M.D., (Kroepsch-Maurice Excellence in Teaching Awards); Sylvie Doublet, Ph.D., (University Scholar); Mark Plante, M.D., Elise Everett, M.D., Neil Zakai, M.D., and Ted James, M.D., (UVM Medical Group Awards for excellence in teaching and research).

- The Community Education Outreach Program brought half-to-full-day educational experiences to more than 15 schools in Vermont, highlighting advanced technologies in cancer research.

Center for Clinical and Translational Science

Richard Galbraith, M.D., Ph.D., Director

The Center for Clinical and Translational Science (CCTS) is dedicated to the pursuit of transdisciplinary research that translates knowledge from the cellular and molecular level into interventions for individuals and populations. The center provides a seamless opportunity for young professionals to be trained in clinical and translational research through a Certificate, a Master of Science, or a Doctor of Philosophy degree under the auspices of the CCTS Educational Program led by Benjamin Littenberg, M.D. The other important mission of the Center is to facilitate and carry out transdisciplinary research. To this end, the Center has four faculty members with unusual skills. They are Indra Neil Sarkar, Ph.D. and Elizabeth Chen, Ph.D., bioinformaticians; Christopher Jones, Ph.D., health care economist; and Thomas Simpatico, M.D., public psychiatry and medical director of the Medicaid Program in the State of Vermont. Combining their skills they have forged novel interdisciplinary interactions with others at the University, at The University of Vermont Medical Center, and throughout the state.

Dr. Sarkar is an ad hoc member of six National Institutes of Health (NIH) Study Sections and recently received four years of NIH funding for his grant "A Knowledge Base for Clinically Relevant Genes and Variants." Dr. Chen is principal investigator on an NIH grant, "Leveraging the EHR to Collect and Analyze Social, Behavioral & Familial Factors," and chairs one and sits on three NIH Study Sections. Dr. Jones is principal investigator on a grant from the Green Mountain Care Board and is a pilot investigator on the Vermont Center on Behavior and Health grant

directed by Stephen Higgins, Ph.D. He reviews for the International Society for Pharmacoeconomics and Outcomes Research and the Society for Medical Decision Making. Dr. Simpatico is principal investigator on a Department of Veterans Affairs grant, "Supportive Services for Veteran Families." These four investigators, along with Russell Tracy, Ph.D., who directs both the Laboratory for Clinical Biochemistry Research and Translational Technologies in the CCTS, also make their unique skills available to other investigators within the University.

SELECTED HIGHLIGHTS

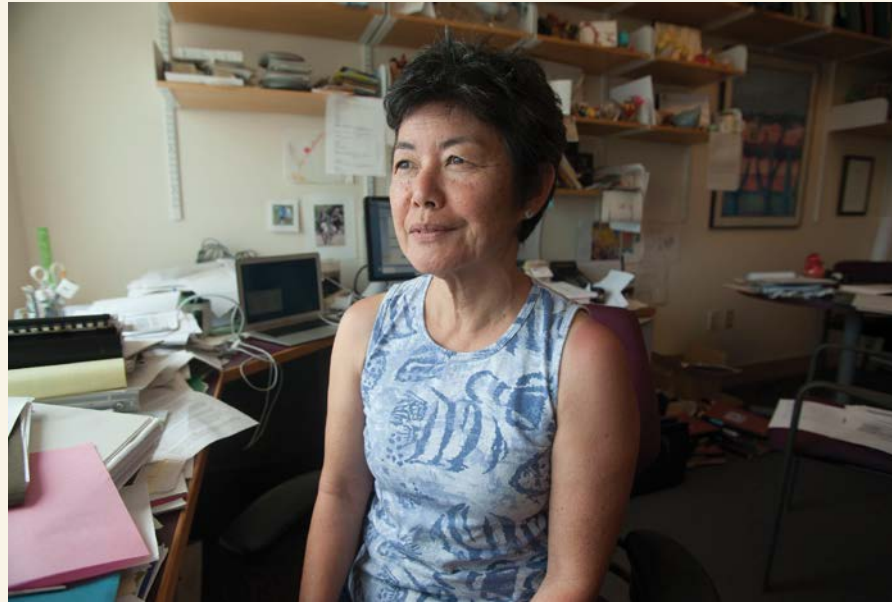
- Elizabeth Chen, Ph.D., et. al. published "An analysis of free-text alcohol use documentation in the Electronic Health Record" in *Applied Clinical Informatics*.
- Christopher Jones, Ph.D., et. al. published "An Algorithm to Analyze Cost Heterogeneity using Counterfactual Scenarios in Endovascular versus Open Repair of Abdominal Aortic Aneurysm: Predicting Costs for Subsequent Patients" in the *Journal of Health Economics and Outcomes Research*.
- Indra Neil Sarkar, Ph.D., published "Leveraging biodiversity knowledge for potential phyto-therapeutic applications" in the *Journal of the American Medical Informatics Association*.



Assistant Professor Christopher Jones, Ph.D., is principal investigator on a grant from the Green Mountain Care Board and a pilot investigator on the Vermont Center on Behavior and Health grant.

Center of Biomedical Research Excellence in Neuroscience

Rodney Parsons, Ph.D., Director



Professor of Neurological Sciences Rae Nishi, Ph.D., directs the Neuroscience Graduate Program and leads the summer undergraduate research program.

The Center of Biomedical Research Excellence (COBRE) in Neuroscience was created in 2001 by a grant from the NIH National Center of Research Resources to enhance neuroscience research and training infrastructure at the University of Vermont.

This grant supported the creation of two multi-user research cores: an Imaging/Physiology Core, which provides access to sophisticated imaging equipment dedicated to live imaging, and a Cell/Molecular Core, which provides personnel and access to sophisticated equipment required to complete cellular and molecular biology experiments.

The Neuroscience COBRE also created a Translational Core to facilitate interactions between clinical and basic neuroscientists and supported a summer undergraduate research program. During the first ten years of funding, the Neuroscience COBRE supported nine multi-year research projects and eight pilot projects for junior investigators. In 2011, five additional years

of NIH support for the Neuroscience COBRE Center was obtained. This transitional COBRE grant provides continued support for the research cores created in the first ten years of COBRE funding and over the first three years, supported four one-year Pilot Projects in the areas of stroke and neurovascular interactions or neural regulation of autonomic nervous system development, function and disorders.

A highlight of the past year is the acquisition of a Yokogawa Spinning Disk confocal microscopy system, which was purchased through the award of a \$525,000 NIH Shared Instrument grant. This new confocal imaging system will be housed in the COBRE Imaging Facility located in the Given Building. In sum, the Neuroscience COBRE supports research cores that broaden faculty research capabilities and access to these core facilities has significantly increased the competitiveness of neuroscience faculty for extramural funding.

Vermont Center for Immunology and Infectious Diseases Cobre

Ralph Budd, M.D., Director

The Vermont Center for Immunology and Infectious Diseases (VCIID) is a multidisciplinary team of scientists and clinicians elucidating microbial pathogenesis and the immune response to infections. Our goal is to devise new strategies for the detection, prevention, and treatment of infectious and inflammatory diseases. Our research is also highly relevant to other diseases, such as cancer, autoimmune disorders, and atherosclerosis.

The VCIID comprises 25 faculty in eight departments in four UVM colleges who interact on a daily basis through weekly joint research-in-progress meetings. Recent breakthroughs include:

- identification of new drugs against *Cryptosporidium parvum*, a major cause of infectious diarrhea
- identification of the lysosomal enzyme *Gusb* and proteoglycans as major determinants of susceptibility to Lyme arthritis and rheumatoid arthritis
- development of a new Dengue virus vaccine with the National Institutes of Health (NIH) and Johns Hopkins University
- identification of genes involved with inflammation in lupus

Center director Ralph Budd, M.D., mentors undergraduate students such as Kathleen Bashant in his Given Building laboratory.



Clinical investigations of infectious diseases are conducted through the College of Medicine's Division of Infectious Diseases, and for autoimmune and rheumatic diseases through the Division of Rheumatology and Clinical Immunology. An important development in 2014 was the opening of the new Vermont Department of Health Building at the UVM Colchester Research Facility, which includes a joint research laboratory with UVM investigators to study complicated infectious organisms.

The center's vibrant research training program for undergraduate and graduate students, and postdoctoral fellows is supported by funds from an NIH COBRE (Center of Biomedical Research Excellence) Grant and an NIH Training Grant.

An active seminar series brings to campus outstanding investigators in immunology and microbiology. The center also supports core facilities in next-generation sequencing, microarray, bioinformatics, proteomics, cell imaging, and flow cytometry.

The VCIID is affiliated with the UVM Vaccine Testing Center (VTC), a research team committed to decreasing the global burden of infectious diseases. The VTC performs clinical trials of candidate vaccines and monitors the human immune response, and also conducts international field trials of vaccines and therapeutics for infectious diseases. Current vaccine research at the VTC focuses on Dengue, West Nile Virus, Rotavirus, Polio, and Cholera.

Vermont Lung Center

Charles Irvin, Ph.D., Director



Professor of Pathology and Vermont Lung Center member Yvonne Janssen-Heininger, Ph.D., works with a graduate student in her laboratory in the Health Science Research Facility.

The Vermont Lung Center (VLC) at the University of Vermont College of Medicine was established in 1975. Funded by the National Institutes of Health (NIH), the VLC first focused on understanding the fibrotic scarring processes that lead to restrictive lung disorders and often death — still a current theme of interest of the center. Today the center has a number of foci of research that include epithelial biology, immunology/immunity, cell signaling and lung mechanics for which its researchers have developed a robust national and international reputation. Multiple members of the VLC serve on NIH review panels, with Charles Irvin, Ph.D., and Yvonne Janssen-Heininger, Ph.D., chairing study sections. VLC members published 69 peer-reviewed papers during 2014. Faculty continue to enjoy robust extramural research support from NIH and the private sector. The center's NIH T32 training grant was renewed

for another five years with a perfect score. This grant is given to programs that provide outstanding training in developing a research career in pulmonary sciences and lung disease.

During this year, VLC member Jason Bates, Ph.D., became deputy editor of the *Journal of Applied Physiology*; Dr. Irvin was named a fellow of the European Respiratory Society; Dr. Janssen-Heininger was a visiting professor in the Department of Respiratory Medicine, Maastricht University Medical Center, Maastricht, The Netherlands; and Mercedes Rincon, Ph.D., was co-chair of the NIH workshop: "Finding Ways to Foster SBIR/STTR Applicants from IDeA States."

Faculty in the VLC published in such journals as *American Journal of Infection Control*, *Journal of Critical Care*, *Critical Care Medicine*, and *American Journal of Respiratory Critical Care Medicine*.

2014 philanthropy

FISCAL YEAR 2014
PHILANTHROPIC
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million

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FY 2014

5,614
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The College of Medicine gratefully acknowledges private support received in fiscal year 2014 (July 1, 2013–June 30, 2014). In the event that any of the information presented in this report is incomplete or inaccurate, please accept our apologies and notify the UVM Foundation Medical Development & Alumni Relations office at (802) 656-4014.

I am very pleased to present the results of an extraordinary year in philanthropic support at the College of Medicine. Giving to the College in fiscal year 2014 reached a new record of nearly \$22 million, and was a significant part of the University's record-setting fundraising for the year.

This year's philanthropy has allowed us to take major steps in meeting our goals to increase scholarship and academic support. Two prime examples of this are the Donaldson scholarship and the Department of Surgery gift.

The late Virginia Donaldson, M.D.'51 was a pioneer in medicine at a time when the simple fact of her gender made the prospect of earning a medical degree infinitely more difficult. But she found a welcoming place here at UVM, and went on to enjoy a long, successful career, and she faithfully "gave back" to the school that had opened the door to that career. She was for many years a generous supporter of research here at the College. This year, her estate provision made possible an important milestone: the first full-tuition scholarship at our school.

Our Department of Surgery faculty members felt a similar desire to give back to their institution, the result of which was an unprecedented \$4.5 million gift by the group to fund 14 new professorships.

This desire to support the work of the College extends to our alumni families, as was evident this year by the efforts of Arthur Perelman, M.D.'52 and his family. The Perelmans established the Charlotte E. Perelman Cancer Research Fund at the University of Vermont Cancer Center last year to honor the memory of Dr. Perelman's late wife. This year, their continuing generosity funded an endowed professorship at the College.

Another alumnus of the College, Vito Imbasciani, M.D.'85, has helped expand our inclusiveness as educators and clinical practitioners. The gift of Dr. Imbasciani and George DiSalvo has allowed us to offer an endowed lecture series on LGBTQ Health, what is probably the first such endowed lecture at any U.S. medical school.

Thanks to the hard work and generosity of the more than 4,000 donors to the College, we have been able to open new pathways of support for the educational, research, and community engagement efforts that are vital to the mission of our school. This year, we have worked to forge even tighter bonds between UVM and its partner in the academic medical center, the newly renamed University of Vermont Medical Center and University of Vermont Health Network. I believe this close relationship will allow us in the coming years to widen our audience and garner an even greater level of support from across our communities.

Kevin McAteer

Kevin McAteer
Chief Development Officer for Academic Health Sciences



BELIEF IN THE MISSION SPURS FACULTY GIFT

A \$4.5 million gift from the surgical faculty at the College of Medicine and The University of Vermont Medical Center funded 14 Green & Gold Professorships in the Department of Surgery during the 2014 fiscal year and added \$1 million to the Frank P. Kittleman Professorship in Cardiothoracic Surgery, which was established by a grateful patient in early 2013.

UVM President Tom Sullivan noted that the gift shows that the "faculty have such a belief in their work and the mission of the institution that they are willing to fund it in a most meaningful, selfless, and powerful way. Attracting the most talented faculty to campus is paramount in our pursuit of remaining among the nation's premier small teaching and research institutions. Gifts such as this from an entire faculty are rare, so [this] announcement is truly historic."

The funding was made possible by monies set aside by surgical faculty members over the years, and is intended to attract and retain outstanding faculty. The surgery faculty also hope their commitment will contribute to

a growing culture of philanthropy in the department by providing a special incentive for others to give. The faculty have not attached names to the Green and Gold professorships they have established, and instead are leaving the naming opportunity available to other future donors who make contributions that elevate the Green & Gold professorships to full professorships.

Above: UVM President Tom Sullivan stands with several members of the Department of Surgery faculty. Sullivan holds a copy of the document establishing fourteen new Green & Gold Professorships at the College of Medicine funded by the faculty's gift.

Ira Allen Society

The Ira Allen Society recognizes UVM's most loyal donors by acknowledging individuals whose cumulative lifetime gifts and commitments to UVM reach or exceed \$100,000, with special recognition given to donors of \$1 million or more. Annual members of the Ira Allen Society play a critical role in the success of the University of Vermont, providing continuing, steadfast support year after year. A gift of \$2,500 or more in any one fiscal year (July 1–June 30) qualifies a College of Medicine donor as an annual member of the Ira Allen Society. An annual gift of \$100 for each of the first ten years after graduation qualifies Young Alumni Patrons.

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P R O F I L E I N G I V I N G

A Milestone in Student Support: The College's First Full-Tuition Scholarship

As one of few women who attended medical school in the late 1940s, a prolific pediatric blood disorder researcher **Virginia Donaldson, M.D.'51**, was a pioneer in medicine. Her many groundbreaking contributions continue even after her 2013 death with a bequest to the College of Medicine that supports the first full-tuition scholarship at the school. In addition to the scholarship, her bequest and estate gifts total more than \$3.5 million and include funding for a Virginia H. Donaldson, M.D.'51 Professorship, (recently awarded to Stephen Higgins, Ph.D.) and an endowed fund for distinguished faculty.

The four-year scholarship is structured to recognize a student who demonstrates a commitment to translational science and the integration of the biological sciences into clinical care, qualities also possessed by Dr. Donaldson. The first recipient is Class of 2018 medical student and Ohio native **David Arsanious**. A graduate of Ohio State University (OSU) with a degree in molecular genetics, Arsanious was selected based on his undergraduate work as a Pelotonia Fellow in the OSU Comprehensive Cancer Center, where he conducted chronic lymphocytic leukemia research.

Arsenious started on his path towards medicine early, following his father's death from a brain tumor. "That event and its effects instilled a strong awareness of the burden of disease on families in me even as a child," he says. "The Donaldson Scholarship was central in my decision to come to



Virginia Donaldson, M.D.'51



David Arsanious '18

UVM, and is a testament to Dr. Donaldson's continuing legacy in the advancement of this school and the practice of medicine."

Dr. Donaldson enjoyed a distinguished career as a pediatric hematologist who was particularly known for her work in identifying a key, inherited deficiency involved in the cause of hereditary angioneurotic edema — a potentially fatal disease that causes swelling of the face and airways. At the time of her death, she was professor emerita of pediatrics and medicine at the University of Cincinnati College of Medicine. In 1981, she received the Distinguished Academic Achievement award from the UVM Medical Alumni Association, and in 2006, was awarded the A. Bradley Soule Award, the Association's highest honor.

In the 1990s, Donaldson created an endowment at the College to promote the impact of the biological sciences on clinical medicine.

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Ronald Roger Striar, M.D.'55



Lois McClure, longtime supporter of many community causes including the UVM Center on Aging, was recognized with the UVM Lifetime Achievement in Philanthropy Award at the UVM Foundation and UVM Alumni Association's 2104 Celebrating Excellence Awards Ceremony in October.

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Members of the Perelman family visited campus in 2013. From left, Dean Morin, Jon Perelman, Arthur Perelman, M.D.'52, and Robert Perelman, M.D.

Perelman Family's Commitment to the College Deepens with Endowed Professorship

In 2013 **Arthur Perelman, M.D.'52** and his family established the Charlotte E. Perelman Endowed Cancer Research Fund, affectionately known as the "Charlotte Fund," to benefit research at the University of Vermont Cancer Center. In 2014 the Perelman spirit of generosity continued, with Dr. Perelman's gift to establish the Arthur Jason Perelman, M.D.'52 Endowed Professorship.

Dr. Perelman has had a distinguished career as a physician, through which, he says, he has learned the key attributes of an effective clinician: acquisition of knowledge, wisdom, perseverance, humility, and kindness. Those fortunate to know Dr. Perelman are keenly aware of how much he exhibits these characteristics.

Dr. Perelman's family is extremely close, and they support his desire to leave a legacy at the University of Vermont Cancer Center. The Perelman family is a key agent in the ongoing legacy that Arthur and Charlotte Perelman have established at the University of Vermont College of Medicine and the University of Vermont Cancer Center with two distinguished endowed funds that will support the crucial work in cancer research for generations to come.

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Stanley S. Fieber, M.D.'48 Establishes Endowed Scholarship

In 2002, Stanley S. Fieber, M.D.'48 established the Fieber Chair in Surgery at the College of Medicine, where his long and fruitful career as a physician first began. In 2014, Dr. Fieber continued his generous support of UVM [where he also received his undergraduate degree, in 1945] with the funding of the Stanley S. Fieber, M.D.'48 Scholarship.

Before his retirement, Dr. Fieber was a senior attending surgeon at St. Barnabas Medical Center in Livingston, New Jersey, director of surgery at Montclair Community Hospital, and a clinical associate professor of surgery at the University of Medicine and Dentistry of New Jersey. He specialized in gastrointestinal surgery and published 28 papers on the subject. It is Dr. Fieber's enduring hope that his philanthropy inspires future generations of physicians who also are educated and trained at the University of Vermont.



Stanley S. Fieber, M.D.'48

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Seeler's Support of Simulation is the Real Thing

Ruth Seeler, M.D.'62 has a decades-long record of support geared toward improving the student experience at her medical alma mater. Her work, including her many years of service on the Medical Alumni Association, including a term as president of the organization, was recognized in 2007 with the A.Bradley Soule Award, the College of Medicine's highest honor.

In 2014, when she heard that the Clinical Simulation Laboratory's mobile unit was due for an upgrade, Dr. Seeler immediately volunteered to fund the overhaul. Though formally called the "Ruth A. Seeler, M.D.'62 Mobile Unit," the vehicle is now better known in daily use as the "Seeler Simbulance." (Dr. Seeler also likes to call it the "Dr. Ruth-Mobile.") Dr. Seeler visited the College of Medicine this October during UVM Homecoming Weekend and received a tour of the mobile unit. The "simbulance" is used to not only teach students, but to train many members of community EMT squads throughout Vermont.



Ruth Seeler, M.D.'62 inspected the refurbished Clinical Simulation Laboratory Mobile Unit — what she likes to call the "Dr. Ruth-Mobile," during her October visit to campus.

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Many donors have their gifts matched by their or their spouse's employer. The following companies made matching gifts to the College of Medicine in fiscal 2014.



Vito Imbasciani, M.D.'85, above, and his spouse George DiSalvo endowed the College's LGBTQ Lectureship Fund. Dr. Imbasciani delivered the inaugural lecture in December.

Gift from Vito Imbasciani, M.D.'85 Establishes LGBTQ Lectureship Fund

A generous gift this year from a Class of 1985 medical alumnus established the **Vito D. Imbasciani, M.D. '85** and George DiSalvo LGBTQ Lectureship Endowed Fund at the College of Medicine. The Fund's aim is to ensure the preparation of culturally-competent physicians who can provide medical care and prevention services that are specific to LGBTQ populations.

Imbasciani, a urologic surgeon based in Los Angeles, Calif., and his spouse, George DiSalvo, were inspired to fund the new Imbasciani/DiSalvo Endowed LGBTQ Lecture following a December 2013 visit and presentation to the College of Medicine community by alumnus Donald Evans, M.D.⁶², a retired primary care physician and HIV/AIDS patient care pioneer and champion from Connecticut.

An officer in the medical corps of the U.S. Army for more than 28 years and a veteran of two wars, Dr. Imbasciani completed four active duty tours in Iraq and Afghanistan. Despite this service, he was unable to acknowledge or discuss his relationship status throughout his military career, and therefore, unable to have his spouse or children onsite upon departure for deployments or returning home from war. In June 2012, he was selected to introduce President Barack Obama at a fundraising event in Los Angeles, Calif. While delivering his remarks, Imbasciani, whom the president recognized as a source of inspiration for his 2010 repeal of the military's "Don't Ask, Don't Tell" policy, said "thanks to the unyielding efforts of President Obama, I can serve my country openly and proudly, with my family at my side."

In addition to his service to the College of Medicine as a Class Agent, Imbasciani, who works at Southern California Permanente Medical Group, serves as chief medical officer for the California State National Guard, and as a member of the California Medical Association's board of trustees. He has a long history as an advocate for such issues as health care reform, veteran medical programs and improved public health policy. He also holds a master's degree and Ph.D. from Cornell University and was a Fulbright Scholar recipient. Prior to attending medical school, he served as a professor of music history at Middlebury College.

The first Imbasciani/DiSalvo Endowed LGBTQ Lecture took place at the College of Medicine on December 12, 2014.

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Annual Ira Allen Society (\$2,500+)

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James D. Cherry, M.D.'57

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Arthur Richard DiMambro, M.D.'55
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Edward Philip Gelvin, M.D.'38
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Valery Worth Yandow, M.D.'56
Donald N. Zehl, M.D.'57

50-YEAR REUNION

'64 Annual Ira Allen Society (\$2,500+)

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Participation 58%
Total..... \$142,919
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'65 Annual Ira Allen Society (\$2,500+)

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Ellen Mansell
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Participation 41%
Total..... \$8,450
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AgentG. Millard Simmons

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Dick L. Robbins
M. Geoffrey Smith
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Total..... \$5,700
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45-YEAR REUNION

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Total..... \$6,675
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'70 Annual Ira Allen Society (\$2,500+)

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Joel P. Sussman
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Mary E. Norris
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Total..... \$97,161
AgentF. Farrell Collins, Jr.

'73 Annual Ira Allen Society (\$2,500+)

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Philip L. Cohen
Darwin Ray Kuhlmann
Suzanne R. Parker
David B. Werner

Participation 42%
Total..... \$28,362
AgentJames M. Betts
AgentPhilip L. Cohen
AgentSuzy Parker

* indicates deceased WI indicates widow/widower

40-YEAR REUNION

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Kathleen Marie Meyer
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Betty Jo Morwood
David Alan Novis
Constance Marianne Passas
Peter David Rappo
Roger Alexander Renfrew
Virginia Palmer Riggs
John Robert Saucier
Cajsa Nordstrom Schumacher
Jeffrey Adrian Schumacher
Kenneth David Thomas
Richard Graves Voigt
James K. Wallman
William Brooks Ware

Participation **59%**
Total..... \$141,459
Agent Douglas M. Eddy
Agent Cajsa Schumacher

'75 Annual Ira Allen Society (\$2,500+)
Ellen Andrews

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Stephen Francis Rowe
Christopher Tompkins Selvae
Delight Ann Wing
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Participation **42%**
Total..... \$77,757
Agent Ellen Andrews

'76 Annual Ira Allen Society (\$2,500+)
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Ralph Angus Nixon, Jr.
Bonita Ann Palmer
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Participation **40%**
Total..... \$18,528
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Richard L. Staley

Participation **41%**
Total..... \$28,447
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Participation **47%**
Total..... \$23,504
Agent Paul McLane Costello

* indicates deceased

35-YEAR REUNION

'79 Annual Ira Allen Society (\$2,500+)
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Ronald Clifford Sampson
Donald Arthur Smith
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Laurie Joan Woodard

Participation **39%**
Total..... \$14,775
Agent Sarah Ann McCarty
Agent Dennis Plante
Agent Anne Brewer

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Howard Marc Schapiro

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Participation **41%**
Total..... \$22,350
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Participation **49%**
Total..... \$80,836
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Agent Louis Polish

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Participation **29%**
Total..... \$17,800
Agent Diane Rippa

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James G. Rose

Bennett K. Schwartz
Mark S. Siskind
Jay Sokolow
Thomas P. Whelan
Jeffrey A. Zesiger

Participation **39%**
Total..... \$14,030
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30-YEAR REUNION

'84 Annual Ira Allen Society (\$2,500+)
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Donald L. Weaver

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Jose M. Samson
JoDonna Sue Scala
Harriott Meyer Shea
Meredith D. Stempel
Anthony R. Turi, Jr.
Gordon C. Wood

Participation **35%**
Total..... \$11,500
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Agent Thomas Munger



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Vito D. Imbasciani

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Winston Milo Eddy
Daniel Kenneth Fram
Eric Scott Frost
Kathleen Ann Geagan
Penelope Hall
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Linn Marie Larson
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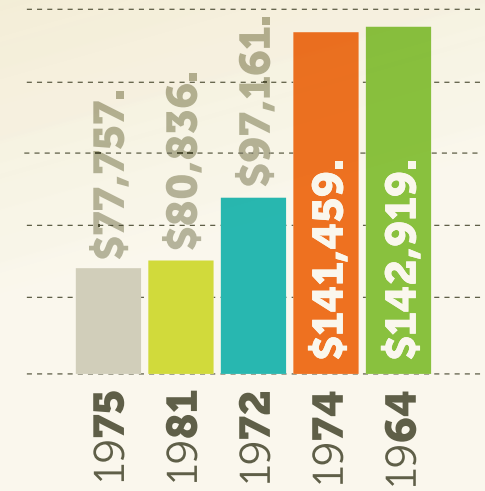
Participation **30%**
Total..... \$37,366
Agent Vito Imbasciani
Agent Suzy Frisch

'86 Annual Ira Allen Society (\$2,500+)
Steven A. Burton

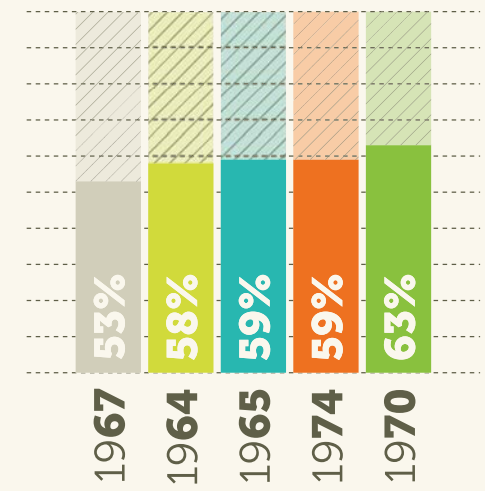
Leadership Contributors (\$1,000–\$2,499)
Matthew Williams Caldwell
David H. Dumont
Robert Ralph Harding
Marianne Gardy Passarelli
F. Todd Tamburine

Contributors (\$1–\$999)
Diane Antoinette Bourke
Thomas J. Curchin

FISCAL YEAR 2014
PHILANTHROPIC ALUMNI SUPPORT



ALUMNI GIVING
TOP 5 CLASSES (by \$)



ALUMNI PARTICIPATION
TOP 5 CLASSES (by %)

1964	50 year	\$142,919	66%
1969	45 year	\$6,675	44%
1974	40 year	\$141,459	59%
1979	35 year	\$14,775	39%
1984	30 year	\$11,500	35%
1989	25 year	\$28,046	37%
1994	20 year	\$7,200	23%
1999	15 year	\$14,399	33%
2004	10 year	\$1,175	11%
2009	5 year	\$1,241	10%
TOTAL		\$369,389	35%

REUNION CLASS GIVING
TOTAL (by \$) & TOTAL (by %)

Gregory Gerard Decandia
Mark H. Gregory
Martin Theodore Grune
Brad Holden
Vijaya Madhukar Joshi
Dayle Klitzner Kellner
Thomas M. Kinkead
Mario Gabriel Loomis
James Robert Martin
David Bernard McDermott
Jennifer Madison McNiff
Steven Paul Meyers
Alan Robert Mizutani
Cathleen Elisabeth Morrow
Jack Philip Rosoff
Rasesh Mahendra Shah
Clifton Stever Slade
Evan Beth Taber
Paul Richard Vom Eigen, Jr.
JoAnn Marie Warren
Jennifer Freda Weinraub

Participation 34%
Total \$13,951
Agent Darrell Edward White

'87 Annual Ira Allen Society (\$2,500+)
Elizabeth Atwood Eldredge
James Michael Jaeger
Raymond David Petit
James Louis Vayda

Leadership Contributors (\$1,000–\$2,499)
Mylan Charles Cohen
James Robinson Howe, V

Contributors (\$1–\$999)
Carol M. Armatis
Robert Edward Benton
Rhett Lee Daugherty
Harley Daniel Donnelly
David George Evelyn
Helene Goldsman
Jason David Green
Davidson Howes Hamer
Betty Jane Keller
Susan So-Hyoun Kim-Foley
Selina Ann Long
William Emil Luginbuhl
Richard Charles Meltzer
Mark David Poulin
Marcia Ann Procopio
Jeffrey Alan Rosenblatt
Susan Carol Sharp
Denise Michelle Soucy
Edward Francis Terrien
Erica Turner
Barbara Ellen Weber
Marie Lynn Zagroba

Participation 31%
Total \$19,975
Agent J. Michael Jaeger
Agent Jeffrey Rosenblatt
Agent Helene Goldsman

'88 Annual Ira Allen Society (\$2,500+)
H. James Wallace, III

Leadership Contributors (\$1,000–\$2,499)
John Charles Bohnert
Frank Anthony DiFazio
Patricia Anne Heller
Denise LaRue

Mark Alan Schmetz
Jeffrey Michael Slaiby

Contributors (\$1–\$999)
Laura Ann Bellstrom
Wolodymyr Iwan Bula
Wendy Skerritt Cathcart
Christopher Kevin Foley
Argilla Rose George
Leslie Greta Goransson
Mark Lewis Hoskin
Elizabeth Howard Jillson
John Eric Koella
Katherine J. Little
Lucy McKeon
Joseph Dean Nasca
Art Papier
David Raymond Park, III
Julie Ruggieri Park
James Pritchard Rines
Hannah Shore
Judith Austin Strohbehn
Kris Strohbehn
Susan Lee Voci
Lawrence I. Walk

Participation 33%
Total \$14,225
Agent H. James Wallace III
Agent Lawrence I. Walk

25-YEAR REUNION

'89 Annual Ira Allen Society (\$2,500+)
Robert Alan Cheney
Mary Cushman
Suzanne Farrow Graves
Cornelius John McGinn
Peter M. Nalin

Leadership Contributors (\$1,000–\$2,499)
Judith Ford Baumhauer
Catherine Josephine Cantwell
Lisa Michele Cohen
Janice Mary Gallant
Jane Evelyn Hitti
Leslie Caroline Lucchina
Laurie May Marston
Dean George Mastras
Martha Jane Moulton
Keith Michael Shute

Contributors (\$1–\$999)
Victoria Roaf Cavalli
Ronald Edward Chicoine
Wayne J. Farnsworth
Joel Alexander Forman
Pamela Cox Gibson
Mindy Ellen Goldman
Kelly Jane Hill
Jeffrey Christopher Hong
Judith Lynne Lewis
Lorraine Letourneau McElwain
Kathryn Grunes Moss
Sarah Ann Ormsby
Stephanie Theresa Osiecki
Adam Bennett Pass
Elke Pinn
Sheila Ellen Ryan
Peter Jon Tesler
Bradford Stillman Weeks

Participation 37%
Total \$28,046
Agent Peter M. Nalin
Agent Mary Cushman

'90 Annual Ira Allen Society (\$2,500+)
Michael Dana Butler

Leadership Contributors (\$1,000–\$2,499)
Elizabeth Conklin
Marco Paolo Dirks
Scott Ralph Granter

Contributors (\$1–\$999)
Scott Adelman
Christopher Jon Bigelow
Stephen Henry Buzzell
Paula Jo Carbone
Giulio Isidoro Cavalli
Nancy Elizabeth Cornish
Paul Edward DeMeo
Mary Zeile Dill
Scott John Fabozzi
Gregory Charles Fanaras
James Barry Gagnon
Eric Charles Knight
Philip Ray Lapp
Jeffrey H. Lawson
Jennifer Mah Lawson
Stephen Michael Leffler
Michael Leo Lyons
Holly Louise McDaniel
Robert Bryant McLafferty
Erica Elizabeth Nelson
Daniel Catlin Pierce
Susanne H. Purnell
Roland Roger Rizzi
Lisa Lanzaone Saunders
Debra J. Shuma-Hartswick
Lana Tsao
Daniel Scott Zapson

Participation 33%
Total \$11,586
Agent Barbara Angelika Dill

'91 Annual Ira Allen Society (\$2,500+)
Alan Kevin Stern

Leadership Contributors (\$1,000–\$2,499)
B. J. Beck
Margaret Bunce Garahan

Contributors (\$1–\$999)
Maria C. Aveni
Mary Harkins Becker
Peter Joseph Bellafiore
Stephanie Briggs
David C. Brunelle
John Dewey
Catherine Welch Dinauer
Charles Gordon Goldberg
Philip Jay Katzman
Stephen M. Koller
Dale Jeanne LaCroix
Maryann Montemarle LoMonaco
Linda C. Lynch
Stephen B. Mason
Lila Hopson Monahan
Theodora Jeanne Nelson
Stephen Takeo Nishiyama
David Harris Peel
James Brian Powers
Charles Henry Salem
Deborah Ann Spaight
Kellie A. Sprague
Geoffrey Edward Starr
George Nicholas Welch
Michael Peter Zacks

Participation 33%
Total \$10,435
Agent John Dewey

'92 Contributors (\$1–\$999)
Lorraine Elizabeth Abate
Michael J. Abate
John Joseph Albertini
Gillian Margaret Betterton
Timothy D. Bicknell
Charles Adam Blotnick
Elizabeth Roaf Chen
Elizabeth Ellen Cooley
William Alexander Craig
Eric David Dotson
Andrew Scott Ellowitz
Bryan Matthew Huber
Shirlene Jay
Heidi M. Larson
Yolanda Glogowski Lawrence
Robert W. Lemons
Susan Elizabeth Long
Martin Devroe McCarter
Kenedy Kathryn McQuillen
David Gary Nelson
Mark Eliot Pasanen
Katherine Ray
Brenda M. Roy-Clark
Gregory David Russell
Janice Coflesky Saal
Catalina Margarita Vial
Jennifer Lee Woodson

Participation 31%
Total \$6,145
Agent Mark Eliot Pasanen

'93 Annual Ira Allen Society (\$2,500+)
David Joseph Evelti
George Ross Winters, III

Leadership Contributors (\$1,000–\$2,499)
Owen Thomas Traynor

Contributors (\$1–\$999)
Barbara Kyoko Ariue
Christina Hammerman Atkin
John Anthony Baciocco
Russell Stuart O. Bradley
David John Coppola
Jean Elizabeth Howe
Scott Christopher Jaynes
Doris Miwon Kim
Stephen F. Koelbel
Mark Zak Lanoue
John Joseph McGrath, III
Jennifer Susan McNichol
Eli John Nasrallah
Christine D. Northrup
Stanford Ross Plavin
Jeannine Kathryn Ritchie
Joanne Taplin Romeyn
Peter Starratt Romeyn
Veronica Mueller Rooks
Stephen David Surgenor
Mark Thanassi
Lisa Ruanne Thomas
Stephen Andrus Treat
Alan David Verrill
R. Bradford Watson

Participation 29%
Total \$13,370
Agent Joanne Taplin Romeyn
Agent Brad Watson

Contributors (\$1–\$999)
Deborah Hicks Abell
M. Angus Badger
Allyson Miller Bolduc
Peter George Christakos



20-YEAR REUNION

'94 Leadership Contributors (\$1,000–\$2,499)
Eddy Hsin-Ih Luh
Seth Alan Rafal
Kathleen Ann Reed
Michael Dodds Upton

Contributors (\$1–\$999)
Christopher Abadi
Paul Phillip Bergeron
Mark Pettengill Hamlin
Timothy Scott Howard
Anne E. McSally, MPH
Eric Mukai
Craig David Nielsen
Manisha Ami Patel
Maureen Glennon Phipps
Holliday Kane Rayfield
David Lodge Robbins, Jr.
Ann Talbot Schwartz
Laurie Ann Small
Heather Renee Sobel
Catherine Mary Spath
Eric Stephen Stram
Thomas Suppan
Wendy Lynn Whitcomb

Participation 23%
Total \$7,200
Agent Holliday Kane Rayfield

'95 Annual Ira Allen Society (\$2,500+)
Pamela Lynne Jones

Leadership Contributors (\$1,000–\$2,499)
Leslie Susanne Kerzner
Holly Slattery Mason
Theodore Philip Mason
Tracy Tram
Warren Wulff

Contributors (\$1–\$999)
Deborah Hicks Abell
M. Angus Badger
Allyson Miller Bolduc
Peter George Christakos

Sarah Perkins Dahl
Amy E. Ferguson-Kantola
Donna McGlaufflin Gamache
Caroline Berth Gutmann
Brian Jay Levine
Amy Erin McGarry-Jackson
Aaron Saul Stern
Lynne Maria Tetreault
Douglas Robert Wood
Melissa Christina Yih

Participation 22%
Total \$14,625
Agent Allyson Miller Bolduc

'96 Leadership Contributors (\$1,000–\$2,499)
Suzanne Elizabeth Ames
Sandra E. Kapsalis
Anne Marie Valente

Contributors (\$1–\$999)
Kim Bruce Abell
Kristen Audra Atkins
Jennifer Luria Bolduc
Thomas G. Bolduc
Brian V. Chu
Neelima Vemuganti Chu
Danette Terese Colella
Janna Lyn Doherty
Michael Goldstein
George Louis Jennings
Patricia Ann King
Carol Kuhn
Audra J. Kunzman-Mazdzer
Jennie Ann Leach
Benjamin Harris Maeck, III
Amy Roberts McGaraghan
Mark William Ramus
Robert Stoppacher
Amy Elizabeth Sullivan
Stephen Paul Vogt

Participation 25%
Total \$7,010
Agent Anne Marie Valente
Agent Patricia Ann King

Contributors (\$1–\$999)
Deborah Hicks Abell
M. Angus Badger
Allyson Miller Bolduc
Peter George Christakos

'97 Contributors (\$1–\$999)
Charlotte Eielson Ariyan
Steven Andrew Battaglia
Jenni C. DeLeon
Stephen DeVita
Jennifer Plante Gilwee
Julianne Yantachka Icatar
Jason Anthony Lyman
Amy Hazelton Martin
Jonathan Edward Martin
Lucien Reginald Ouellette
Dianne Elizabeth Sacco
Francis Davis Shih
Susan Shull
David Frederick Smail, Jr.
Julie Clifford Smail
Daniel Franco Sousa
Joanna Smith Weinstock
Elizabeth Orme Westfall

Participation 20%
Total \$2,813
Agent Julie Smail

'98 Leadership Contributors (\$1,000–\$2,499)
Reono Bertagnolli

Contributors (\$1–\$999)
Halleh Akbarnia
Anne Elizabeth Brena
Andrea Katherine Cady
Tamara Elizabeth Chittenden
Joyce M. Dobbartin
Elizabeth Grace Doherty
Dorothy Young Fisher
Jodi Michelle Forwand
Glen J. Ha
Anne Griffith Hartigan
Kathleen Ann Herlihy
Matthew Mingshun Hsieh
John Duncan Lloyd
Benjamin A. Lowenstein
Melanie Ann Mailloux
Scott Edward Musicant
Shardul Ashwin Nanavati
Tasha Ann Worster

Participation 21%
Total \$4,451
Agent Halleh Akbarnia

15-YEAR REUNION

'99 Annual Ira Allen Society (\$2,500+)
Kristopher Russell Davignon
John H. Miller

Leadership Contributors (\$1,000–\$2,499)
Robert J. Berkowitz
Aditya Dash
Stephen Gerard Hassett

Contributors (\$1–\$999)
Amy Louise Belisle
Scott David Blanchard
Kym Margaret Boyman
Sheila Marian Carroll
Jane Chang
Jason Ellis Cook
Fernando Fan
Anna Grattan Flik
Kyle Rudiger Flik
Alicia Martin Forster
Ian Greenwald
James Irvin Huddleston, III
Everett Jonathan Lamm
David G. Lindquist
Steven Robert Martel
Erik N. Nelson
Eric Lee Olson
Amy Debra Ouellette
Stephen Andrew Reville
Marc Noel Roy
Leticia Manning Ryan
Cindy Shih-Fen Wun
Pramila Rajni Yadav
Katy Chien-Chien Young-Lee
Christa Maria Zehle

Participation 33%
Total \$14,399
Agent Everett Jonathan Lamm
Agent Deanne Dixon Haag

'00 Leadership Contributors (\$1,000–\$2,499)

Steven R. Partil

Contributors (\$1–\$999)

Jay Edmond Allard
Maria Azizian
Anne Nieder Clegg
Erica Jannes Gibson
Allison K. Harbour
Gregory Scott Hunt
Christine Waasdorp Hurtado
Maya Ratna Jerath
Jennifer Kelley Ladd
Melanie Collier Lawrence
Karen Ann Le Comte
Wilfred Amiscua Lumbang
Nicole Amato Nalchajian
Shilpa J. Patel
Jennifer Ann Reidy
Amy Doolan Roy
Jill M. Samale
Sarah Carlson Schneider
Heather M. P. Smith

Participation 21%
Total..... \$5,605
Agent Jay Edmond Allard
Agent Michael Jim Lee
Agent Naomi R. Leeds

'01 Annual Ira Allen Society (\$2,500+)

Adam Scott Kanter
Jennifer Juhl Majersik

Leadership Contributors (\$1,000–\$2,499)

Gregory Joseph Anatol Murad
Dennis V. Pham

Contributors (\$1–\$999)

Arun Basu
Joseph Eugene Cassara
Michelle Karen Cassara
Gretchen Marie Gaida Michaels
Barbara Vinette Gannon
Paul McClure Jones
Emily J. June
JoAn Louise Monaco
Ann Parks Murchison
Kelley Anne Saia
Steven Geoffrey Simensky
Tae K. Song

Participation 18%
Total..... \$8,550
AgentLadan Farhoomand
Agent Joel W. Keenan
Agent JoAn Louise Monaco

'02 Annual Ira Allen Society (\$2,500+)

Thuan T. Nguyen
Anand Parthasarathy

Leadership Contributors (\$1,000–\$2,499)

Hunter Geoffrey Brumblay
Kerry Lee Landry

Contributors (\$1–\$999)

Ghazaleh Zardoost Aram
Todd Alan Bergland
Bethany Ann Bishop
Jennie Stover Champion
Teresa Ann Fama
Babak Fardin
Gregg Daniel Fine

Andrew Jackson Goodwin, IV
Walter Joseph Grabowski
April Malia Hirschberg
Ronald Edward Hirschberg
James Edward Janik
Caroline Bullock Lyon
Jonathan Vinh Mai
Walter E. McNally
Mariah McNamara
Elizabeth Ann O'Brien
Mary O'Leary Ready
Pearl Schloff Riney
Joshua Barrett Rogers
Christine Mary Staats
James Alfred Wallace

Participation 27%
Total..... \$15,601
AgentJonathan Vinh Mai
Agent Kerry Lee Landry
Agent Mary O'Leary Ready
Agent Maureen C. Sarle

'03 Annual Ira Allen Society (\$2,500+)

William A. Kennedy, III
Jacqueline Panko

Contributors (\$1–\$999)

Harmony V. Allison
Thanhmy Nguyen Bui
Jennifer Bergeron Carlson
Rima Beth Carlson
Allison Leigh Ciolino
Sarah Jean Conlon
Duc Thu Do
Scott Thomas Goodrich
Michael Gurell
Emily Aikenhead Hannon
James Nathan Horstmann
Sara Howland Horstmann
Todd Richard Howland
Omar Abdullah Khan
Lynn E. Madsen
Hannah Sidney Mitchell
Stacey L. Valentine

Participation 21%
Total..... \$7,550
AgentOmar Khan
Agent Scott Goodrich

10-YEAR REUNION

'04 Contributors

Jeffrey Blake Alpert
Adam Clinton Bates
Carolyn Elizabeth Come
Rachel Joslin DiSanto
Diane Jean Hakey
Rebecca C. Hunt
Julie Kendrew Phillips
Nicole Patricia Piscatelli
Eliana Yael Schenk
Faye Blacker Serkin

Participation 11%
Total..... \$1,175
Agent Jillian S. Sullivan
AgentSteven D. Lefebvre

'05 Contributors

Julie Ann Alosi
Marta Zofia Bator
Roshelle J. Beckwith
Carolyn J. Brenner

Kimberly H. Chong
Robert G. Congdon
Rachel Elizabeth Gaidys
Salwa Khan
Malaika Love Little
Mark D. Lo
Brian Gage McAllister
Kristina Eileen McAteer
Melanie L. Morin
Michelle T. Pahl
Andrea M. Pliakas
Seth R. Podolsky
Neal A. Saxe
Sarah Czok Whittier

Participation 21%
Total..... \$2,075
Agent Julie A. Alosi
AgentRichard J. Parent

'06 Ira Allen Young Alum Patron

Allison Marie Quick

Contributors

Haroutun Abrahamian
Leslie S. Bradford
Anya Maurer Chandler
Wells Michel Chandler
Ashley L. Clark
Abigail A. Donaldson
Webb Ellis Long
James Benson Metz
Logan Young Murray
Jessica E. Panko
Jeffrey Randazza
Alison Jaquith Schneider
Mattie Elizabeth Towle
Ariana Wallack

Participation 15%
Total..... \$2,345
Agent William C. Eward
Agent . Deborah Rabinowitz Abrams

'07 Contributors

Anne Coates, M.D
Gregory John Connolly
Nadezhda V. Horchner
Gabrielle A. Jacquet
Kurt H. Kelley
Eric Morris Suess
Inderjeet Kaur Uppal

Participation 7%
Total..... \$870
Agent Allison Collen Adler
Agent Scot Millay
Agent Anne Coates

'08 Contributors

Letizia Mariana Alto
Carl E. Barus
Caitlin Kennedy Carney
Megan Moran Leitch
Erika Cajsza Schumacher
Emily Fagan Wesolowski
Danielle Christina Williams

Participation 9%
Total..... \$1,175
Agent Mark Hunter
Agent Alyssa Wittenberg
Agent Ashley Zucker

5-YEAR REUNION

'09 Ira Allen Young Aum Patron

Rebecca M. Brakeley

Contributors

Bradley R. Cutler
Anne K. Dougherty
Karen L. Fromhold
Anna Carlson McCloy
Ian Christopher McCormick
Jodi McQuillen Roque
Campbell Stewart
Sean P. Toussaint
Virginia Janelle Van Duyne

Participation 10%
Total..... \$1,241
Agent Rebecca Brakeley
Agent Kate Murray Mitchell
Agent Campbell Stewart

'10 Contributors

Michael R. Alavian
Alyssa Randi Bennett
Kristen VanWoert Connolly
David Patrick Curley
Katherine Davisson Dolbec
Rebecca E. Evans
Shahin Foroutan
Meghan Elizabeth Gunn
Jeffrey Kaye
Isabella Wetherill Martin
Amy L. McGettrick
Andrew Brian Old
Omar Ozgur
Heidi K. Schumacher
Kelly N. Stinson
Hijab Sarfaraz Zubairi

Participation 15%
Total..... \$780
Agent Michael Alavian
Agent Pei Chen
Agent Heidi Schumacher

'11 Contributors

Elizabeth Toan Cipolla
Kelsey E. Davidson
David John Morrow

Participation 3%
Total..... \$175
Agent Carrie Moats
Agent Nicholas Aunchman

'12 Contributors

Patrick Huffer
Marianne Sullivan Reed
Meghan Ann Small
Mariah H. Stump

Participation 4%
Total..... \$142
Agent Melissa Marotta Houser
Agent Auna Leatham
Agent Meghan Beucher
AgentMartha Choate Monson

'13 Ira Allen Young Alum Patron

Asya S. Mu'Min

Contributors

Idil Aktan
Olivia J. Carpinello
Samantha Rebien Couture
Jeffrey R. McLaren

Cristine Sandra Velazco
Jesse R. Victor

Participation 7%
Total..... \$295
Agent Shetal Patel
Agent Idil Aktan
Agent Lizzie Anson

'14 Contributors

Hany Hamdy Abdallah
Adam M. Ackerman
W. Tristram Arscott
Ashley A. Atiyeh
Nicole Michel Benson
Elizabeth Blasberg
Larry O. Bodden
Francesca Marisa Boulos
Conor Smith Carpenter
Leah Hannah Carr
Peter B. Cooch
Gabriel A. Crowl
Anees A. Daud
John Charles DeWitt
Daniel M. Edberf
Hannah E. Foote
Laura Michelle Frischer
Vanessa Patten Galli
Margaret R. Gordon-Fogelson
Alyson Diana Guillet
Chelsea Anne Harris
Jocelyn S. Hu
Justine Nga-Ping Hum
Elisabeth Anne Kispert
Kevin Kuruvilla
Michael K. Lam
David J. Larsen
Stanislav Lazarev
Heather Christina Lutton
Sarah McGarry Marsh
Ashley Russell Miller
Bhanu Muniyappa
Autumn Lynn Polidor
Jennifer Paz Pons
David A. Reisman
Elizabeth Hanna Robison
Molly Lynn Rovin
Ashley Elizabeth Russo
Katherine M. Scovner
Prabu Selvam
Jordan Kenyon Smith
Sara Lynn Staples
Richard Tan
Matthew Scott Thomas
George Vana, IV
Karan Verma
Benjamin Marks Ware
Nicholas Wilkie
Bianca W. Yoo

Participation 49%
Total..... \$887
Agent Peter Cooch
Agent Vanessa Patten

Named Lectureships

As of June 30, 2014.

John Abajian, Jr. — John E. Mazuzan, Jr.
Endowed Lectureship in Anesthesiology

Arnold H. Colodny, M.D.
Visiting Professorship in Pediatric Surgery

John H. Davis, M.D.
Endowed Lectureship in Surgery

E. Stanley Emery
Endowed Lectureship in Pediatric Neurology

Stanley S. Fieber, M.D.'48
Annual Lecture in Surgery

Bruce A. Gibbard, M.D.
Endowed Lectureship in Psychiatry

Nathaniel Gould, M.D.'37
Endowed Foot and Ankle Lecture in Orthopaedics

Vito D. Imbasciani, M.D.'85 and George DiSalvo
Endowed LGBTQ Lectureship

Madison Jaurigue
Endowed Lectureship in Neurosurgery

Endowed Chairs & Professorships*

As of June 30, 2014 unless otherwise specified. Listed chronologically by year created.

The Thayer Professorship in Anatomy (1910)
Rodney L. Parsons, Ph.D.

Elliot W. Shipman Professorship in Ophthalmology (1934)
Brian Kim, M.D.

Ernest Hiram Buttles, M.D.'08 Chair in Pathology (1984)
John Lunde, M.D.

McClure Professorship in Musculoskeletal Research (1987)
Bruce Beggnoon, Ph.D.

E.L. Amidon, M.D.'32 Chair in the Department of Medicine (1989)
Polly Parsons, M.D.

Harry W. Wallace Professorship in Neonatology (1995)
Roger F. Soll, M.D.

Henry and Carleen Tufo Chair in General Internal Medicine (1999)
Benjamin Littenberg, M.D.

S.D. Ireland Family Professorship in Surgical Oncology (1999)
David N. Krag, M.D.

Roger H. Allbee, M.D.'31 Professorship in Surgery (2000)
Jonathan Boyson, Ph.D.

Robert B. and Genevieve B. Patrick Chair in Nephrology (2000)
Richard Solomon, M.D.

John Van Sicklen Maeck, M.D.'39 Chair in Obstetrics and Gynecology (2000)
Ira Bernstein, M.D.

Samuel B. & Michelle D. Labow
Endowed Lectureship in Surgery

Albert Mackay, M.D.'32 and H. Gordon Page, M.D.'45
Annual Lecture in Surgery

Richard M. Narkewicz, M.D.'60
Endowed Lectureship in Pediatrics

Hillel S. Panitch
Endowed Lectureship in Neurology

George A. Schumacher, M.D.
Endowed Lectureship in Neurology

Steven R. Shackford, M.D. — Samuel B. Labow, M.D.
Endowed Lectureship in Quality

Norman J. Snow, M.D.'70
Annual Lecture in Thoracic Surgery

Martin H. Wennar, M.D.
Lectureship in Professionalism



From left: John Gould, M.D.'64, Michael Cunningham '15, and Sheryl Gould. Cunningham is the current Gould Scholar. The Goulds also fund the Nathan Gould, M.D.'37 Lectureship.

Irwin H. Krakoff, M.D. Green & Gold Professor in the Vermont Cancer Center (2007)
Claire Verschraegen, M.D.

Robert A. Pierattini, M.D. Green & Gold Professor (2008)
Vacant

Roy Korson, M.D. and Lorraine Korson, M.S. Green & Gold Professor of Pathology (2011)
Vacant

Frank P. Ittleman, M.D., Professor in Surgery (2013)
Frank P. Ittleman, M.D.

Peter Weimersheimer, M.D., Professor in Emergency Medicine (2013)
Peter Weimersheimer, M.D.

The Virginia H. Donaldson, M.D.'51 Professor
Stephen Higgins, Ph.D. (as of Dec. 2014)

Sarah Nichols Gruenig Green & Gold Professor
New

The Robert W. Hamill, M.D. Green & Gold Professor in Neurological Sciences
New

The Green & Gold Professor of Emergency Medicine
New

The Green & Gold Professor of General Surgery
New

The Green & Gold Professor of Neurosurgery
New

The Green & Gold Professor of Ophthalmology
New

The Green & Gold Professor of Otolaryngology — Head & Neck Surgery
New

The Green & Gold Professor of Pediatric Surgery
New

The Green & Gold Professor of Plastic Surgery
New

The Green & Gold Professor of Surgical Oncology
New

The Green & Gold Professor of Surgical Research
New

The Green & Gold Professor of Transplant Surgery and Immunology
New

The Green & Gold Professor of Trauma and Critical Care
New

The Green & Gold Professor of Urology
New

The Green & Gold Professor of Vascular Surgery
New

Class Awards — 2014 Awarded by the students to departments, faculty, and staff.

Foundations Teacher of the Year
William Raszka, M.D.

Foundations Course Director of the Year
William E. Hopkins, M.D.

Outstanding Foundations Course
Cardiovascular, Respiratory
and Renal Systems

The Dean Warsaw Integration Award
Richard Salerno, M.D.

The Silver Stethoscope Award
Sharon Mount, M.D.

Above and Beyond Award
Ellen Black, Ph.D.

Outstanding Teaching Assistant
Steven "Sandy" Perrins, M.D.

**American Medical Student Association
Golden Apple Award**
William E. Hopkins, M.D.

**American Medical Women's Association
Gender Equity Award**
Jean Szilva, M.D.

Howe Outstanding Teacher Award
Jesse Chlebeck, M.D.

Resident of the Year
Sanchit Maruti, M.D.

Standardized Patient Award
Ed Stone

Wellness Peer-to-Peer Award
Vanessa Patten



Peter Cooch, M.D.'14 left, and Vanessa Patten, M.D.'14 were recognized with several awards each at this year's Commencement.

Class of 2014 Academic Awards and Honors

The Alpha Omega Alpha Honor Medical Society

Students elected to this honor society, in the opinions of their classmates and the faculty, have given promise of becoming leaders in their profession.

Jacob Azurdia
Elizabeth Blasberg
Anne Coleman
Peter Cooch
John DeWitt
Albert Emery
Paige Georgiadis
Alyson Guillet
Calvin Kagan
Alison Krywanczyk

Stanislav Lazarev
Aaron Maxwell
Ashley Miller
Michael Mollo
Vanessa Patten
Lauren Powlovich
Prabu Selvam
Jordan Smith
Timothy Snow
Bianca Yoo

The Gold Humanism Honor Society

Students elected to this honor society are recognized for their demonstrated excellence in clinical care, leadership, compassion, and dedication to service.

Hany Abdallah
Adam Ackerman
Irina Arkipova-Jenkins
Jacob Azurdia
Agnes Balla
Caitlin Baran
Elizabeth Blasberg
Leah Carr
Peter Cooch
Hannah Foote

Kelly Gardner
Alyson Guillet
Elisabeth Kispert
Patrick Ng
Vanessa Patten
Prabu Selvam
George Vana
Benjamin Ware
Bianca Yoo

The Ellsworth Amidon Award for outstanding proficiency in Internal Medicine
Albert Emery

The David Babbott, M.D. "Caring and Seeing" Award for compassion in medicine
Laura Frischer

***The Dean William Eustis Brown Award** for broad cultural interests, and loyalty to the College of Medicine
Vanessa Patten

The Ernest H. Buttles Award for excellence in Pathology
Vanessa Patten

The Carbee Award for academic excellence in Obstetrics, Gynecology and Reproductive Sciences
Jenna Pariseau

The James E. Demeules Surgical Research Prize

First place: Jenna Pariseau

Second place: Chelsea Harris

Third place: Dane Slentz



Areg Zingiryan, M.D.'14 was one of two recipients of the David M. Tormey Award. Sara Staples also shared the award.



Bianca Yoo, M.D.'14 was named a member of both the Alpha Omega Alpha and Gold Humanism honor societies.

The Family Medicine John P. Fogarty Leadership Award
Vanessa Patten

The Dignity in Medicine Award in recognition of respect, inclusion, and support for LGBTQ students
Alison Alpert

The Edward E. Friedman Award for promise of excellence in the practice of Family Medicine
David Reisman

The Dr. & Mrs. Nathaniel Gould, M.D.'37 Prize for outstanding achievements in Orthopaedic Surgery
Ashley Miller

* indicates awarded by vote of the class

Class of 2014 Academic Awards and Honors (continued)



Leah Carr, M.D.'14 receiving her diploma from Dean Morin. Carr earned the Ralph D. Sussman, M.D.'38 Medical Alumni Award and is a memeber of the Gold Humanism Honor Society.

The Harry Howe, M.D.'52 Senior Student Award for excellence in Surgery
Dane Slentz

The Kerzner Family Prize for service to the community
Alison Alpert

***The Lamb Fellowship Award** for best exemplifying concern and care for the total patient
Vanessa Patten

The John V. Maeck, M.D.'39 Robe Recipient for overall excellence in Obstetrics, Gynecology and Reproductive Sciences
Alyson Guillet

The Herbert Martin Sr., M.D. Award for excellence in Neurology
Nicholas Phillips

The John E. Mazuzan Jr., M.D. '54 Award for excellence in Anesthesiology
William G. Tharp

The Medical Student Prize for excellence in Neurology
Albert Emery

The H. Gordon Page, M.D.'45 Award for excellence in Surgery
Kevin Kuruvilla

The Pilcher Award for representing the qualities of Eleanor & Lewis Pilcher of devotion to family and patients, with a high regard for ethics and honesty.
Elizabeth Blasberg

The Radiology Achievement Award for excellence in Radiology
Aaron Maxwell Caitlan Baran

The Mimi A. Reardon, M.D. Award for service to the University of Vermont College of Medicine
George Vana

The B. Albert Ring Award for compassion, humor, humility, devotion to family and friends, and intellectual curiosity.
Peter Cooch

The Durwood Smith Award for excellence in Pharmacology
Elizabeth Blasberg

The Charles T. Schechtman, M.D.'26 Award for Clinical Excellence
Peter Cooch Alyson Guillet
Vanessa Patten

The Society for Academic Emergency Medicine Award for excellence in Emergency Medicine
Prabu Selvam

The Ralph D. Sussman, M.D.'38/Medical Alumni Award for excellence in Pediatrics
Leah Carr

The William Sweetser Award for excellence in Psychiatry
Nicole Benson Elisabeth Kispert

The David M. Tormey Award for perseverance in the pursuit of medical education
Sara Staples Areg Zingiryan

The Joseph B. Warshaw Scholarship Award for M.D.-Ph.D. thesis excellence
William G. Tharp

The Henry & Phyllis Wasserman Phorplus Scholarship Prize for excellence in the Basic Sciences
Anne Coleman Alison Krywanczyk
Paige Georgiadis Timothy Snow

The Laura Weed, M.D. Award for qualities of excellence, service, and commitment in Internal Medicine
Benjamin Ware

***The Wellness Award**, from the Committee on Medical Student Wellbeing, for a peer-nominated student who has been an asset to his or her classmates and displayed sincere dedication to helping others during his or her medical education.
Vanessa Patten

The Ephraim Woll Award for excellence in General Pathology
Elizabeth Blasberg

The Leonard Tow Humanism in Medicine Awards presented by The Arnold P. Gould Foundation for excellence in both compassionate patient care and scientific achievement
Student Award: Peter Cooch
Faculty Award: Evan Eyler, M.D.



Alison Alpert, M.D.'14 received the Dignity in Medicine Award and the Kerzner Family Prize.



George Vana, M.D.'14, at right, received the Mimi Reardon M.D. Award for service to the College of Medicine. Vana was congratulated at Honors Night by Dr. Reardon, left, a Class of 1967 member.

* indicates awarded by vote of the class



At right, Christian Crannell '15, the current Midgley/Coon Scholarship recipient, with Jane Wilson Coon, R.N., D.N.Sc. and Rees Midgley, M.D.'58.

Student Assistance We are grateful to the supporters of the following funds that provide financial assistance to medical students at the University of Vermont College of Medicine.

Benjamin Adams, M.D.'1909 Loan Fund
Ellice M. Alger, M.D.'93 Memorial Scholarship Fund
Donato Anthony Astone, M.D.'24 Medical Endowed Scholarship Fund
David Babbott, M.D. Caring & Seeing Award Endowed Fund
Elinor Bergeron Tourville Bennett Loan Fund
Peary B. Berger, M.D.'36 Medical Scholarship Fund
John L. Berry, M.D.'29 and Kathleen V. Berry Fund
Albert Blendeman, M.D.'43 Medical Endowed Scholarship Fund in memory of Margaret Morse Blendeman •
Moses D. Carbee Scholarship Fund
Lewis Chester, M.D.'38 Medical Scholarship Fund
Margaret & Charles Clark Scholarship Fund
Leo C. Clauss Scholarship
Roger S. Colton, M.D.'58 Endowed Scholarship Fund
Jack & Gertrude Cooper Scholarship Fund
Lucien J. Côté, M.D.'54 Endowed Scholarship Fund
Dahl-Salem Family Endowed Scholarship Fund •
Dwight C. Deyette Fund
Celeste & Arthur DiMambro, M.D.'55 Endowed Scholarship Fund •
Virginia Donaldson, M.D.'51 Endowed Scholarship Fund
Hamiet Dustan, M.D.'44 Scholarship Fund
Willey Ely Scholarship Fund
Grover Emery Scholarship Fund
John W. and John Seeley Estabrook, M.D.'33 Fund
Edward Vincent Farrell, M.D.'10 Scholarship Fund
Jean and Wilfrid Fortin, M.D.'61 Scholarship Fund •
Freeman Foundation Medical Scholars Program Fund
Freeman Foundation Legacy Medical Scholarship Program Fund
E. Philip Gelvin, M.D.'38 & Molly Gelvin Medical Scholarship
Amos Ginn Medical Scholarship Fund
Alan Godfrey, M.D.'27 and Helen Godfrey Scholarship Fund
John S. Gould, M.D.'64 and Sheryl H. Gould, BSRN'64 Endowed Scholarship Fund •
The Margaret S. and Manfred I. Goldwein, M.D.'54 Memorial Scholarship Fund
Arnold Goran, M.D.'58 & Mariel B. Goran Scholarship Fund
James Roby Green, M.D.'70 Scholarship Fund

Harold Haskel, M.D.'21 Scholarship Fund
Edward Hawes Scholarship Fund
Hebert Family Scholarship Fund
Clifford Herman Class of '59 Endowed Scholarship Fund
Robert H. & Cynthia K. Hoehl Scholarship Fund
Harry E. Howe, M.D.'52 and Theo O. Howe Endowed Scholarship Fund
Perley A. Hoyt, M.D. Scholarship Fund
Robert W. Hyde, M.D. Medical Scholarship Fund
Simon and Hannah Josephson Scholarship Fund
Bernard M. Kaye, M.D.'47 Scholarship Fund
John P. Keane, M.D.'65 Medical Student Grant Fund
Joseph R. Kelly, M.D.'56 Endowed Scholarship Fund •
Edith Kidder Scholarship Fund
Martin J. Koplewitz, M.D.'52 Scholarship Fund
Kenneth and Bessie Ladeau Trust
Austin W. Lane, M.D.'21 and Janet C. Lane Scholarship Fund
Robert Lerner, M.D.'42 Loan Fund
Dr. Aldo J. Leani & Marguerite D. Leani Scholarship Fund
William H. Luginbuhl, M.D. Scholarship Fund
John Van Sicklen Maecik, M.D.'39 Scholarship Fund
Bruce R. MacKay & Phyllis Davis MacKay Endowed Scholarship Fund
Maine Medical Association
John E. Mazuzan Jr., M.D.'54 Endowed Scholarship Fund •
P.E. McSweeney Scholarship Fund
A. Rees Midgley, M.D.'55 and Jane Wilson Coon, Ph.D. Endowed Scholarship Fund •
Michael J. Moynihan, Sr. Medical Scholarship Fund
George Murnane, M.D.'17 Scholarship Fund
National Health Service Corps Scholarship Program
John Ordonaux Scholarship Fund
Carlos G. Otis, M.D.'37 Medical Scholarship Fund
Hannah Hildreth Pendergast, M.D.'49 Memorial Medical Grant Fund
George and Frances Phillips Memorial Fund
Dr. U. R. and Joseph Plante Endowed Scholarship Fund
John Poczbaut, M.D.'41 and Theia Poczbaut Medical Scholarship Fund
Linda Jayne Pomerance Endowed Scholarship Fund
Hortense A. Quimby Scholarship Fund

Dr. Shepard Quinby Medical Scholarship Fund
Eva C. Quitt Medical Student Grant Fund
Jonathan Harris Ranney, M.D.'09 and Zilpah Fay Ranney Scholarship Fund
H. David Reines, M.D.'72 & Nina Totenberg Endowed Medical Scholarship Fund •
Robert Richards, M.D.'54 Scholarship Fund
Herbert P. Russell Scholarship Fund
Winston A.Y. Sargent, M.D.'30 Loan Fund
Winston A.Y. Sargent, M.D.'30 Medical Scholarship Fund
Charles Schechtman, M.D.'26 and Sylvia Schechtman Scholarship Fund
Ruth Andrea Seeler, M.D.'62 Medical Endowed Scholarship Fund •
Jay E. Selcow, M.D.'59 Scholarship Fund
Edward J. Sennett, M.D.'43 Endowed Scholarship Fund
Peter Shammon Scholarship Fund
C. V. Starr Medical Scholarship Fund
Bartlett H. and Mable L. Stone Endowed Scholarship Fund
William C. Street, M.D.'59 & Lorraine Hassan-Street Endowed Scholarship Fund •
F.D. Streeter Scholarship Fund
Michael & Hedwig Strobbe Endowed Scholarship Fund
Alfred J. Swyer, M.D.'44, Medical Scholarship Fund
Henry Tinkham Scholarship Fund
Leo E. and Ruth C. Tracy Fund
E. Turgeon Scholarship Fund
University of Vermont College of Medicine Fund
University of Vermont College of Medicine Dean's Fund
University of Vermont Medical Alumni Association Scholarship Fund
Louis L. and Mary C. Vayda Endowed Scholarship Fund •
Vermont Student Assistance Corporation
Morris S. Wineck, M.D.'15 Medical Scholarship Award Fund •
Winokur Family Endowment Fund
Keith Wold, M.D.'51 and Elaine Wold Medical Scholarship Fund
Sumner J. Yaffe, M.D.'54 Endowed Scholarship Fund

• UVM Medical Alumni Association Challenge Scholarships

hall a

In 1905, when the College of Medicine completed its third home at the corner of Prospect and Pearl Streets in Burlington, the main lecture room was named Hall A. For the next 63 years, students (such as the members of a class in the 1950s shown below right) learned the science of medicine while perched on those rows of steeply-raked wooden seats. When the College moved to the top of the hill in 1968, the designation of Hall A moved too: to a slightly more comfortable assemblage of orange-upholstered seats on the second floor of the Given Building.

Today's learning environment fits today's medical curriculum. Students take in lectures as a class in the Sullivan Classroom, and they work in teams in the new Larner Classroom. The settings have changed, but the mission remains the same: inspiring a lifetime of learning in the service of patients. This section of *Vermont Medicine*, named in honor of that storied hall, serves as a meeting place in print for all former students of the College of Medicine.

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Class Agent Directory 72

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Sullivan Classroom



Hall A in Given



Original Hall A



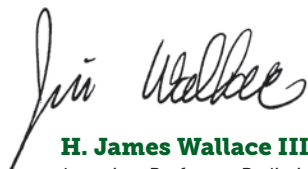
PRESIDENT'S CORNER

It's been an eventful first few months since I assumed the role of president of the Medical Alumni Executive Committee, with a new group of students to welcome to the ranks of the College of Medicine, an exciting building project at UVM, and a significant change at the academic medical center in Burlington.

In November, we celebrated the beginning of a new era on the medical center campus: Fletcher Allen Health Care officially became the University of Vermont Medical Center, and Fletcher Allen Partners is now called the University of Vermont Health Network. As alumni, you know the partnership the College of Medicine and our teaching hospital has always been strong, with the academic mission front and center. Now, this connection is reflected in the name of our institutions. It will be exciting to see our relationship continue to evolve.

Our affiliation with the greater UVM alumni community also continues to grow and thrive. In October, I attended a wonderful UVM Homecoming Weekend that featured, among many other things, the groundbreaking for a project to renovate the UVM Alumni House (the former Delta Psi House). An historic building located on Summit Street in Burlington, its restoration will give alumni returning to campus a welcoming space to relax, mingle, and catch up, whether they graduated five years ago, or 50 years ago. We look forward to hosting Medical Alumni Association meetings and other special events for medical students and alumni alike in this beautiful space. When it opens in October of 2015, I plan to be on hand to help cut the ribbon, and I hope to see some of you there as well!

Of course one of the highlights of the academic year is welcoming new students to the College of Medicine family. This year, alums played a key role: When members of the Class of 2018 received their white coats at the College's ceremony November 14, they each reached into their pocket to find a note of encouragement from a past graduate. We had over 115 alumni from across six decades send notes through the Development and Alumni Relations Office. It was a joy to see these students don the symbol of the profession with such grace, and I've spoken to several students all of whom treasure the connection to the alumni. Hearty thanks to all of the alumni who participated — you continue to make us proud. Watch for more opportunities in the near future for you to get involved with students, including a new social media initiative around Match Day in March!


H. James Wallace III, M.D.'88
Associate Professor, Radiation-Oncology



MEDICAL REUNION JUNE 12–14, 2015

1945	1955	1965	1975	1985	1995	2005
1950	1960	1970	1980	1990	2000	2010

The University of Vermont Foundation

MEDICAL DEVELOPMENT & ALUMNI RELATIONS OFFICE

Chief Development Officer for Academic Health Sciences
Kevin McAteer

Senior Director of Development, University of Vermont Cancer Center
Manon O'Connor

Directors of Major Gifts
Meredyth Armitage
Ruth Henry

Director of Annual Giving for Academic Health Sciences
Allison Searson

Director, Medical Alumni Relations
Cristin Gildea

Director, Administration
Ginger Lubkowitz

Program Coordinators
Drew Brooks
Erica Corliss
Megan Dodge

University of Vermont Medical Alumni Association

ALUMNI EXECUTIVE COMMITTEE

Officers (Two-Year Terms)

President
H. James Wallace, M.D.'88 [2014–2016]

Vice-President
Frederick Mandell, M.D.'64 [2014–2016]


Secretary
Betsy L. Sussman, M.D.'81 [2014–2016]

Executive Secretary
John Tampas, M.D.'54 [Ongoing]

Members-at-Large (Six-Year Terms)
Ernest Bove, M.D.'81 [2012–2018]
Mary Cushman, M.D.'89 [2012–2018]
Mark Allegretta, Ph.D.'90 [2010–2016]
Suzanne R. Parker, M.D.'73 [2010–2016]
Omar Khan, M.D.'03 [2010–2016]
Ellen Andrews, M.D.'75 [2010–2016]
Don P. Chan, M.D.'77 [2009–2015]
Leslie S. Kerzner, M.D.'95 [2009–2015]
Norm Snow, M.D.'70 [2014–2020]
Pramila Yadav, M.D.'99 [2014–2020]

Ex Officio Members
Dean Frederick C. Morin III, M.D.
Kevin McAteer

Send Us Your Stories

 If you have an idea for something that should be covered in *Vermont Medicine*, please email: vmstories@med.uvm.edu.

HALL A | M.D. CLASS NOTES

If you have news to share, please contact your class agent or the Development & Alumni Relations office at medalumni.relations@uvm.edu or (802) 656-4014. If your email address has changed, please send it to medalumni.relations@uvm.edu. For complete list of class agents, please see page 72.

1950s

REUNION 2015: 1950 + 1955

'52 Irwin Becker reports: "Before entering medical school I had enlisted in the Duke University so-called Marine 3D program. It was similar to the better known Navy V12. I became a Marine Lieutenant in 1942 and served in the Pacific Theater of World War II until 1946. This included two years in China. I finished college matriculation in 1948, and entered medical school at UVM in the class of 1952. After graduation I interned at Kings County Hospital in Brooklyn, N.Y. I then took a residency in surgery at Ohio State University and its affiliated Youngstown Hospital for four years. After passing the boards, my wife Lucy and I went to Bristol, Conn. to settle, build my practice of surgery, and a family of five children. I also became affiliated with Yale Medical College as well as the newly opened University of Connecticut Medical College. After nearly 30 years in solo practice we moved to Southern California where I became a salaried chief of the surgery department for the HMO Cigna Health plans for the

next seven years. From that time, 1985, until now, Lucy and I have traveled and taken up some hobbies. I paint watercolors and show them occasionally."

'54 John Mazuzan recently ended more than 20 years' tenure as chair of the UVM Medical Alumni Association Awards Committee.

Leslie Gaelen writes: "I miss my remaining classmates who, I hope, miss me. Let's keep in touch (while we have time)."

'57 Donald Zehl writes that he and his wife, Sue, are still living at Cedars of Chapel Hill, N.C. "Doing well for age 84 years — not as easy as it was in earlier years, but still enjoyable."

1960s

REUNION 2015: 1960 + 1965

'61 James O'Brien joined UHS Chenango Memorial Hospital in Norwich, N.Y., as a cardiologist.

In the last issue, a note by proud Class of 1969 member J. Christian "Chris" Abajian was mistakenly listed

under the Class of 1968. We regret the error.

1970s

REUNION 2015: 1970 + 1975

'70 Norm Snow recently joined the Executive Committee of the UVM Medical Alumni Association as an at-large member.

'71 Phillip Amidon joined Seabrook Valley Health Specialty Physicians as a liver and digestive diseases physician.

'74 Richard Gamelli recently retired after over two decades at Loyola University Medical Center. He served as senior vice president and provost of the Health Sciences Division at Loyola University Chicago. He also served as the Robert J. Freeark Professor of Surgery and director of the Burn & Shock Trauma Research Institute, which he founded, at the Stritch School of Medicine. He is credited with building Loyola University Medical Center's Burn Center into an internationally known site for patient care, research and education.

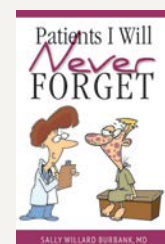
Alumna Recalls a Quarter-Century of Patients

As a primary care physician for more than 25 years, Vermont native and Class of 1986 alumna **Sally Willard Burbank, M.D.**, says she has seen "everything" in terms of her patient encounters. Based in Nashville, Tenn., Burbank recently published her first book — *Patients I Will Never Forget* (Clovercroft Publishing) which features a collection of humorous and inspiring true stories from her years of practicing internal medicine.

The author of four short stories published in the *Chicken Soup for the Soul* series, Burbank's readers' positive feedback led her to decide to continue writing

patient stories for compiling into a book. She says she obtained consent from each living patient she featured and changed all patient names and distinguishing demographics to protect patient confidentiality and to comply with federal privacy laws.

Burbank credits the College of Medicine for providing her with topnotch primary care training. Some of the stories in her book recount her medical student experiences, such as dissecting a cadaver, learning physical exam skills, and her first attempts at drawing blood and starting IV's.



Sally Ward Burbank, M.D.'86

UPCOMING EVENTS

March, 19, 2015

Match Day Eve, 4th Year Dinner
Hilton Hotel
Burlington, Vt.

March 20, 2015

Match Day
Noon
Hoehl Gallery, UVM Campus

March 21, 2015

Spring Medical Alumni Association
Executive Committee Meeting
UVM Campus

March 27, 2015

Alumni Reception at the American
Academy of Orthopedic Surgeons
Las Vegas, Nevada
[All local alumni & friends welcome.]

April 20, 2015

UVM Scholarship Dinner
UVM Campus

May 17, 2015

Graduation
2:30 p.m.
Ira Allen Chapel
UVM Campus

June 12–14, 2015

Medical Reunion Weekend 2015
UVM Campus

October 2–4, 2015

UVM Homecoming & Family
Weekend
UVM Campus

October 3, 2015

Fall Medical Alumni Association
Executive Committee Meeting

October 4–8, 2015

Alumni reception at the American
College of Surgeons — Annual
Clinical Congress
Chicago, IL
[All local alumni & friends welcome.]

For updates on events see:

www.uvm.edu/medicine/alumni

College of Medicine graduates are also members of the UVM Alumni Association. See those events at: alumni.uvm.edu

2015

CONTINUING MEDICAL EDUCATION

WINTER–SUMMER CONFERENCE SCHEDULE

20th Annual Vermont Perspectives in Anesthesia
March 4–8, 2015
Stowe Mountain Lodge
Stowe, Vt.

Vermont Blueprint for Health
April 8, 2015
Sheraton Hotel & Conference Center
Burlington, Vt.

Vermont Geriatrics Conference
April 14, 2015
The Essex
Essex, Vt.

Northeastern Genitourinary Oncology Symposium
May 1–2, 2015
Hilton Hotel & Conference Center
Burlington, Vt.

Child Psychiatry in Primary Care
May 15, 2015
Hampton Inn, Colchester, Vt.

Family Medicine Review Course
June 2–5, 2015
Sheraton Hotel & Conference Center
South Burlington, Vt.

Vermont Summer Pediatric Seminar
June 18–21, 2015
The Equinox
Manchester, Vt.

Women's Health Conference
September 9–11, 2015
DoubleTree Hotel,
Burlington, Vt.

FOR INFORMATION CONTACT:

University of Vermont Continuing Medical Education
128 Lakeside Avenue, Suite 100 , Burlington, VT 05401, (802) 656-2292
www.uvm.edu/medicine/cme

'76 **Marga Sproul** has taken over from John Mazuzan '54 as chair of the UVM Medical Alumni Association Awards Committee.

'79 **James Jarvis**, one of the country's premier researchers in juvenile idiopathic arthritis, is University of Buffalo's new chief of pediatric allergy/immunology and rheumatology.

1980s

REUNION 2015: 1980 + 1985

'81 **Jocelyn Chertoff** was appointed interim chair of the Department of Radiology, Geisel School of Medicine, Dartmouth.

'83 **John Orloff** was named vice-president and global head of research and development for Baxter BioScience.

'85 **Penny Hall's** work, entitled "Penelope Hall's *Wildflowers around Tufts Pond*," was included in the Geographies: New England Book Work exhibit at UVM's Bailey/Howe Library. The exhibit presented new bookbinding and artist books by members of the Guild of Book Workers' New England chapter. Fine and design bindings in leather, paper and cloth, alternative book structures, calligraphic manuscripts, and other works all connect to the show's theme of "New England" interpreted by the 26 entrants.

'86 **Sally Burbank** recently published her first book, titled *Patients I Will Never Forget* (Clovercroft Publishing, 2014), which features a collection of humorous and inspiring true stories from her many years of practicing internal medicine.

'88 **Michèle Gérin-Lajoie** writes that he is "getting ready for a six-week trek in the Khumbu region in Nepal. Grateful that my work situation, a very flexible family medicine, obstetrics call group at a McGill residency training site, allows for such a foolish and inspiring endeavor at age 60! See you in 2018 unless I meet some of you on the streets of Burlington, Vt."

Julie Park was included in *Seattle Magazine's* Top Doctor List 2014.

'89 **Mary Cushman's** research was recently published showing that people with blood type AB have an increased risk for memory problems as they age.

Stephen Wilczynski joined the professional staff of Lee Physician Group-Pulmonary at Lee Memorial Health System.

1990s

REUNION 2015: 1990 + 1995

'93 **Deborah Davis** founded an elite female rowing team called Chinook Performance Racing (CPR for short). Since its founding the team has won races at events across the country, including the San Diego Crew Classic, Diamond State Masters Regatta in Middletown, Del., and the U.S. Rowing's Masters National Championships in Grand Rapids, Mich.

'96 **Kristin Bradford** is "enjoying being a part of Obamacare and Medicaid expansion working at the Community Health Centers of Benton and Linn Counties in Oregon, where I am presently serving as medical director. Both boys are in high school! Jason's business, Farmland LP, is growing nicely, expanding in Oregon and California."

Lisa Miller's work in El Salvador was recently featured in Nevada's *Desert Companion* magazine. Lisa also spoke in the article about her own breast cancer diagnosis and treatment this past year (she is now cancer-free).

'97 **Clifford Chapin** is "remarried and living the good life in Cloquet, Minn., the lifelong home of my husband, Randy. Currently working exclusively ER in the local hospital and enjoying more non-work time than I've been able to take since

the day I began my surgery clerkship at MMC. Up to approximately 100 cows. Everyone eat Cabot cheese!"

'99 **Pramila Yadav** is one of the two new at-large members of the UVM Medical Alumni Association Executive Committee.

2000s

REUNION 2015: 2000 + 2005

'03 **Peter Manning** was appointed chairman of the Maine Section of the American College of Obstetricians and Gynecologists.

'06 **Mark Makhani** joined La Peer Health Systems in Los Angeles, Calif.

'08 **Joan Newell** joined the medical staff of Oswego Hospital and Port City Family Medicine in Oswego, N.Y.

'11 **Hunter Moore** received First Place, Clinical Investigation in the 37th annual Residents Trauma Papers Competition from the American College of Surgeons (ACS) Committee on Trauma (COT) for the paper titled "The Fibrinolytic Response to Trauma and Hemorrhagic Shock: Pathologic of Physiologic."

'12 **Claire Ankuda** was one of 31 newly selected scholars for the Robert Wood Johnson Foundation Clinical Scholars program. She will begin her fellowship at the University of Michigan in the fall of 2015. Through this prestigious post-residency program, Dr. Ankuda will learn to conduct innovative research and work with communities, organizations, practitioners and policy-makers in order to take a leadership role in improving health and health care in the U.S.

FLASHBACK



Rapt Attention

We may never know what object engaged these College of Medicine viewers so deeply, three or four decades ago. But it's likely the four most prominent students may be recognized by themselves or their classmates. Who are they? Where are they standing — in the fourth floor anatomy lab, or possibly a classroom in the old Medical Alumni Building?



◀ The Flashback photo in the previous issue drew a unanimous response from several alumni: the group shown gathered around Associate Dean David Tormey, M.D. on the grass of the Given courtyard is composed of members of the Class of 1983, possibly photographed in the fall of 1979. Maureen McGovern, M.D.'83 wrote: "That's Blake Patterson behind Dean Tormey's left shoulder... immediately behind [the person by his right shoulder] is Ross Dykstra, and next to Ross is Sarah Avery. I'm the female in the left foreground with the long dark hair and wonder if that's not Patrick O'Connell to my right with the 'classic Adidas.'" Thanks to all the photo sleuths who wrote in.

Class Agent Directory

Class agents are dedicated alumni who volunteer their time to serve as the voice of their classmates at the College of Medicine, and who work to encourage support of the College each year. Agents help deliver information to their far-flung friends about the ongoing work of the College, and at the same time help their medical alma mater keep abreast of the news and views of their class. If you would like to learn more about serving as a class agent, contact **Cristin Gildea** at (802) 656-0803 or **Cristin.Gildea@uvm.edu**.

- '43**Carleton R. Haines**, 88 Mountain View Road, Williston, VT 05495, (802) 878-3115
- '44**Wilton W. Covey**, 357 Weybridge Street, Middlebury, VT 05753, (802) 388-1555
- '45**H. Gordon Page**, 9 East Terrace, South Burlington, VT 05403, (802) 864-7086
- '46Please email **medalumni.relations@uvm.edu** if you'd like to serve as 1946 class agent.
- '47**Edward Crane, MD '47**, P.O. Box 1799, Frisco, CO, 80443
- '48Please email **medalumni.relations@uvm.edu** if you'd like to serve as 1948 class agent.
- '49**Joseph C. Foley**, 32 Fairmount Street, Burlington, VT 05401, (802) 862-0040, jcfoley@adelphia.net
Edward S. Sherwood, 24 Worthley Road, Topsham, VT 05076, (802) 439-5816, lois@vermontel.net
- '50**Simon Dorfman**, 8256 Nice Way, Sarasota, FL 34238, (941) 926-8126
- '51**Edward W. Jenkins**, 7460 South Pittsburg Ave., Tulsa, OK 74136 , (918) 492-7960, DrEWJmd@aol.com
- '52**Arthur Kunin**, 226 Windmill Bay Road, Shelburne, VT 05482, (802) 985-5410, akunin@uvm.edu
Arthur Perelman, 165 Woodland Ave., Summit, NJ 07901, (908) 277-6454, ajperelman@verizon.net
- '53Please email **medalumni.relations@uvm.edu** if you'd like to serve as 1953 class agent.
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'47 John M. Wood, M.D.
Dr. Wood died May 11, 2014, in Lancaster, Penn. He was 92. Dr. Wood was born in Waterbury, Conn., and was an alumnus of Colby College and the University of Vermont College of Medicine. After serving in the United States Air Force as captain and chief of medicine at Dhahran Air Force Base, Saudi Arabia, he worked as an internist at the Davis Clinic in Mount Pleasant, Mich., from 1953 to 1987. He also served as chief of staff and chief of medicine at Central Michigan Community Hospital, and was the director of an adult fitness program at Central Michigan University. Dr. Wood retired to Northport in 1987 where he served as medical director of the care center at Leelanau Memorial Health Center. In 1998, the Woods moved to Savannah Lakes Village, S.C. and then to Lancaster, Penn.

'49 Robert John Jake, M.D.
Dr. Jake died November 30, 2013, at the Veterans Home of California, Yountville. Born January 9, 1923, he grew up in a working-class neighborhood in Milwaukee. Dr. Jake's academic and athletic talents earned him a scholarship to Milwaukee University School for high school. He captained both the tennis and basketball teams while there. In 1940, Northwestern University offered him a full-ride academic/athletic scholarship, and there he played tennis and basketball for the Wildcats. World War II interrupted his education and he volunteered for the Army in 1943. During that time, he served stateside and eventually was sent to the University of Vermont to study medicine in 1945. Dr. Jake played basketball, tennis and football for the Catamounts. In 1949, he took his residency at Columbia Hospital in Milwaukee. In 1952, he was called to serve in the Korean conflict as a M.A.S.H. doctor. In 1955, he moved to Oakland, Calif., and went into private practice as a general surgeon. He joined the medical staff at the Veterans Home of California in Yountville

in 1973 as chief of surgery. Dr. Jake spent 23 years caring for his fellow veterans, retiring in 1996. Giving to his community was always important to Dr. Jake. While living in Oakland, he helped start the East Oakland Health Clinic. After moving to Yountville, he was a founding doctor of Health Clinic Ole. He also gave free athletic physicals to the youths involved in Napa Sheriffs Activity League.

'55 Paul E. Demick, M.D.
Dr. Demick, of Stuart, Fla., died April 6th, 2014. Born in Orleans, Vt., Dr. Demick was an exceptional athlete and the valedictorian of his high school class. After serving in the Navy, he graduated from Harvard University with a degree in business, and then received a medical degree from the University of Vermont. Dr. Demick served the communities of Delray Beach and Boca Raton as an obstetrician/gynecologist for more than 30 years. He was a leader in the community, and helped guide the Bethesda Memorial Hospital and Boca Raton Community hospitals through years of expansion. Dr. Demick was a member the American Board of Obstetrics and Gynecology and president of the Delray Beach Kiwanis Club

'56 John Sarkis Manuelian, M.D.
Dr. Manuelian died October 3, 2014. Born February 1, 1927, in Boston, Mass., his family moved to Quincy when he was still a young boy. He received his undergraduate education at Boston College and his doctorates from UVM. Before entering medical school, he taught biology at Boston College. Dr. Manuelian completed his residency at Boston City Hospital and entered practice as an internist specializing in cardiology at the Carney Hospital in Dorchester, Mass. He was also a clinical professor of internal medicine at Boston University Medical School. He served as a captain in the United States Air Force, and was chief of medicine at the Tactical Air Command's England Air Force

Base in Alexandria, La. A deeply devoted man of faith, at one time Dr. Manuelian considered studying for the priesthood. Although he later decided to be a healer of a different kind, he continued to serve his church and his fellow Armenians with great joy. He held virtually every office a layman could aspire to in the church on a local, national, and international level. He was also one of the founders of the Armenian Cultural and Educational Center (ACEC) in Watertown.

'56 Ira Greifer, M.D.
Dr. Greifer died September 17, 2014. He was a world-renowned pediatric nephrologist and Albert Einstein College of Medicine Professor Emeritus of Pediatrics. In 1965, Dr. Greifer was appointed director of pediatrics at Albert Einstein College of Medicine, where he began developing the pediatric kidney center. Today this center, which in 1997 was renamed the Ira Greifer Children's Kidney Center, serves as one of the country's best diagnostic, treatment and clinical research facilities. An internationally recognized pioneer in pediatric kidney failure, Dr. Greifer was named medical director to the National Kidney Foundation in 1966. He also served as president for the National Kidney Foundation of New York and New Jersey. Under his direction, the National Kidney Foundation established a number of research programs, kidney disease detection and prevention initiatives and professional education seminars.

'57 Edward Joseph Quinlan, M.D.
Dr. Quinlan, age 83, died in Honolulu at Kuakini's Hale Pulama Mau May 17, 2014, after a 12 year-long battle against non-Hodgkin's lymphoma. Dr. Quinlan was a graduate of Dartmouth College, and earned his medical degree from UVM. He was chief of radiotherapy at Kuakini Hospital from 1969 until his retirement in 1996.

'57 Frank Joseph Schmetz, Jr., M.D.
Dr. Schmetz died March 24, 2014, at his home in Scotts Valley at the age of 90. He was born in Pennsauken, New Jersey on February 11, 1924. Dr. Schmetz had early aspirations of becoming a naval pilot after high school. He learned to fly, joined the Navy, and was later flying Hellcats at the end of WWII out of Hawaii. His interest in chemistry after attending University of Pennsylvania landed him a research position in a lab at Massachusetts General Hospital. He then attended medical school at the University of Vermont. Upon graduation, he returned to the Navy to begin training to be a flight surgeon. This allowed him to combine his talents for aviation and medicine while caring for the service members of the squadron VR-24 in Kenitra, Morocco. Returning to the states, he completed an ophthalmology residency at Wills Eye Institute in Philadelphia, Penn. His passion for treating eye diseases led him to spend the next 22 years in this field. He retired from the Navy with 32 years of military service. In 1974, Dr. Schmetz began his private ophthalmology practice in Santa Cruz, Calif. He brought the early laser technology and put his skills as a retinal surgeon to valuable use in Santa Cruz County for the next 13 years.

'63 John Barry Burns, M.D.
Dr. Burns, 78, died June 16, 2014, after a lengthy battle with cancer. Born January 7, 1936, he earned a B.S. degree with honors at Notre Dame and his medical degree from UVM in 1963. After his medical internship, Dr. Burns entered the U.S. Air Force in July of 1964. He entered residency at Denver Children's Hospital and became a star pediatrician in the U.S. Air Force, publishing in medical journals but more importantly helping to cure sick children. He identified and documented several unusual cases of intermittent visual inversion in children and

also successfully diagnosed and treated Reye's Syndrome in a six-year-old boy — believed to be the first successful diagnosis and treatment of this deadly disease. Dr. Burns was a physician first and an officer second, and those priorities always governed his decisions for the future. Following his retirement from the military in 1984, he entered residency for general psychiatry at William S. Hall Psychiatric Institute at the University of South Carolina, and continued for another two years as a fellow in child psychiatry. He then moved with his family to Boise, taking a position at Intermountain Hospital, where he worked in various capacities until his retirement in 2011. Dr. Burns was a member of the Ada County Medical Society, the Idaho Medical Society, and the American Child and Adolescent Psychiatry Association, and a fellow with the American College of Forensic Examiners.

'63 David G. Saunders, M.D.
Dr. Saunders, of East Greenbush, N.Y., died April 28, 2014. Born March 15, 1937, in Wakefield, Mass., he graduated from Wakefield High School in 1955, and Harvard University in 1959, then received his medical degree from UVM in 1963. Following medical school, he continued his training with an internship at Beth Israel Hospital in New York City. Upon completing his internship, Dr. Saunders joined the U.S. Navy and was stationed for two years at Camp Pendleton in California. Following his service, he completed his medical training in internal medicine at Upstate Medical Center in Syracuse, N.Y., where he served as chief resident in medicine. David maintained a private medical practice in Syracuse for 38 years, in addition to working as a physician for the U.S. Army, and being the team doctor for the Syracuse professional hockey team. In 2004, Dr. Saunders retired, and moved to Albany, N.Y.

'71 David F. Mousaw, M.D.
Dr. Mousaw died Wednesday, March 19, 2014, at Glens Falls Hospital, of lymphoma. Born July 31, 1945, in San Francisco, he was a proud graduate of the University of Notre Dame. Dr. Mousaw went on to complete his medical training at the University of Vermont. He was a beloved pediatrician who worked for Hudson Headwaters Health Network for 27 years.

'84 Kevin L. Ianni, M.D.
Dr. Ianni died July 3, 2014, of multiple myeloma. Born July 29, 1959, in Rutland, Vt., he graduated from Peoples Academy High School in Morrisville, Vt., in 1977. He went to the Massachusetts College of Pharmacy to complete his five-year pharmacy degree in three and a half years, graduating magna cum laude. He worked as a pharmacist while attaining his medical degree at the University of Vermont, graduating in 1984. Over the next 20 years Dr. Ianni continued his education, and become a double board certified anesthesiologist. He eventually became the first anesthesiologist in charge of the department at Porter Hospital in Middlebury, Vt.

FACULTY

Laurence Coffin, M.D.

Dr. Coffin passed away unexpectedly September 22, 2014. He was born June 4, 1933, in Buenos Aires, Argentina, the son of a Goodyear engineer and executive who worked establishing rubber manufacturing plants in South America. He lived his early childhood in Argentina and Brazil, before returning with his family to Akron, Ohio, where he grew up spending summers on the coast of Maine with his grandparents. Always a strong student, Dr. Coffin attended the Massachusetts Institute of Technology and then



Western Reserve University College of Medicine. He entered the U.S. Navy and was stationed at the Naval Medical Field Research Laboratory at Camp Lejeune, N.C. Upon completion of his naval service, Dr. Coffin returned to Cleveland and completed a residency in cardiothoracic surgery. In 1970, Dr. Coffin was one of several surgeons from the Cleveland, Ohio, area who all moved to Vermont, following John Davis, M.D., who became chief of surgery at the University of Vermont and Mary Fletcher Hospital. Together they created a preeminent surgical program at the Medical Center Hospital of Vermont and the University of Vermont College of Medicine. Dr. Coffin established Vermont's first successful cardiac surgical practice, bringing modern surgical treatment for heart disease to Vermont and the surrounding region. He served as the chief of cardiac surgery and professor of medicine at the University of Vermont for multiple decades, serving countless Vermonters and teaching innumerable young physicians.

H. James Wallace Jr., M.D. '58

Dr. Wallace, of Rutland, Vt., died August 8, 2014, at the Meadows at East Mountain following a long illness. Born August 15, 1930, in South Hadley Falls, Mass., he graduated from Bellows Free Academy in Saint Albans, Vt. in 1949, and Williston Academy in 1950. He received his undergraduate degree from the University of Vermont in 1954, and graduated cum laude from the University of Vermont College of Medicine in 1958. He completed his internship and residency in internal medicine at the Mary Fletcher Hospital in Burlington, and did a fellowship in hematology and oncology at Roswell Park Memorial Institute in Buffalo, N.Y. In 1964, Dr. Wallace returned to



Vermont as an assistant professor in medicine at UVM and established the first medical oncology practice in the state. He subsequently chose to continue his academic career at Roswell Park and the State University of New York at Buffalo in the 1970's, and served as acting chief of the Treatment, Rehabilitation and Continuing Care Branch at the National Cancer Institute in 1975. After a successful academic career he elected to return to Vermont and start an oncology practice in Rutland. His interest in clinical research and his desire to bring state-of-the-art oncology care to his patients led him to become a founding member and principal investigator of the Green Mountain Oncology Group, an organization that allowed patients with cancer from around the state to be treated with the latest research and treatment protocols. He also spearheaded the successful development of the Community Cancer Center at Rutland Regional Medical Center, which opened in 1989. After fourteen years of solo clinical practice and nearing retirement, he became the executive officer of the Cancer and Leukemia Group B; research professor at Dartmouth Medical School; and served as an attending physician at Dartmouth Hitchcock Medical Center, the White River Junction Veterans Administration Medical Center, and at Southwestern Vermont Medical Center in Bennington. Over the course of his career, in addition to his clinical and academic duties, he served as director of the Rutland Area Hospice, surveyor for the American College of Surgeons Commission on Cancer, president of the Vermont Division of the American Cancer Society, and board member of the Vermont Board of Medical Practice. Dr. Wallace was awarded the University of Vermont College of Medicine Service to Medicine and the Community award in 1988, and was named Vermonter of the Year by the *Rutland Herald* in 1993



November 14, 2014 10:50 a.m.

Just a few days after the official opening of the Larner Classroom, Professor of Pediatrics Robert Macauley, M.D., leads the first instructional event in the room, a team-based learning session with the Class of 2018.

photograph by Erin Post



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