

V E R M O N T

2013 YEAR IN REVIEW

# medicine

UNIVERSITY OF VERMONT COLLEGE OF MEDICINE

## HEART & SOUL

The gift of healing flows both ways for  
Professor of Surgery **Frank Ittleman, M.D.**

### ALSO FEATURED:

- ▶ Graduate Education for the 21st Century
- ▶ Philanthropy Gift Report for 2013







# A Match Made in Vermont

## Scholarship Support Makes It Possible

From the Vermont Integrated Curriculum to “Dr. Moo,” our first-year medical students are settling in and finding UVM to be the perfect match for their dreams of becoming physicians. Your help makes those dreams come true.

By giving a financial leg up to today’s talented, motivated, and diverse students, generous donors like you carry on the legacy of giving that characterizes UVM and help ensure that today’s students get the same high-quality education you received with less debt than they would otherwise incur.

To encourage even more scholarship support, the Medical Alumni Association will provide a 50 percent match for new gifts of \$50,000 to \$100,000 that support endowed scholarships. Now that’s a match!

For more information about how you can support medical students today, contact:

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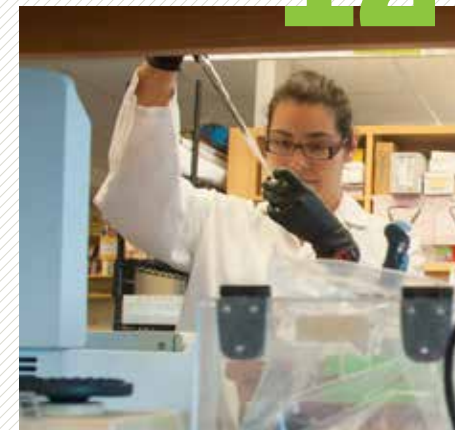
The University of Vermont  
COLLEGE OF MEDICINE

First-year medical students meet “Dr. Moo” during orientation week in August.

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### Making Scientists for the 21st Century

As the nature of scientific inquiry has become more interdisciplinary, and the range of job expectations for new scientists has radically changed, UVM has reshaped the pathways that lead promising students into careers in biomedical research.

By Erin Post

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### Taken to Heart

For more than three decades, Frank Ittleman, M.D., has offered the gifts of compassion and surgical skill to his patients. In turn, his patients have given him back something just as valuable.

By Sarah Zobel

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### Philanthropy 2013

Thousands of people and organizations from across the nation helped the College of Medicine fulfill its missions during fiscal year 2013. This report thanks those partners of the College, and details the major scholarships, professorships, and awards of this past year.



#### WebXtras in this issue:

- Class of 2017 White Coat Coverage: more photos and video
- The mysteries of last issue’s “Flashback” revealed, as well as additional views of the College 60 years ago from the camera of Philip Hastings, M.D.’50.

Go to: [uvm.edu/medicine/vtmedicine](http://uvm.edu/medicine/vtmedicine)

**ON THE COVER:** Professor of Surgery Frank Ittleman, M.D., on morning rounds at Fletcher Allen Health Care. Photograph by Raj Chawla.



The College of Medicine is now on Facebook and Twitter. Check in to see what’s happening today!

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## FROM THE DEAN

Looking back on the year 2013, we have much to be thankful for at the College of Medicine. This has been a year of solid achievement. In our core educational mission, we continue to welcome an outstanding group of new students. Though we are a small medical school, we remain ranked among the top ten in the nation for selectivity.

Prospective students do their research on us, and clearly they liked what they saw in our innovative curriculum and dedicated faculty. For those reasons and many others we now have the most academically prepared student body in our history, as well as the most diverse one of any college at the University. And our graduating students have ranked their experience very high when surveyed by the Association of American Medical Colleges; the College has scored in the top percentiles for curriculum quality, teaching, faculty accessibility, basic science integration, and overall satisfaction.

These ratings by our own students were right in line with the assessments of the Liaison Committee on Medical Education (LCME), the accrediting body for medical schools in the U.S. and Canada. I am pleased to tell you that the LCME notified us this fall, after their extensive site visit and review earlier in the year, that they had voted to continue accreditation of the College for a full eight-year term. I could not be more proud of our faculty, staff, and students, whose enthusiasm and commitment to our education program, to each other, and to the College was evident throughout the entire process.

In many other ways, the community we serve provides validation of the importance of the work that goes on at our academic medical center. One key example of that this year was the gift from a grateful patient treated by Professor of Surgery Frank Ittleman, M.D., which formed the basis of the funding of a new professorship that bears Dr. Ittleman's name. You can read more about Dr. Ittleman in this issue of *Vermont Medicine*. You'll also see inspiring news of our surgery faculty's collective generosity which has established a record-setting 14 new Green & Gold professorships. We are not aware of any other department in the country making a donation of this magnitude to its college. These professorships will aid in the recruitment and retention of superlative faculty members for years to come. We are grateful to the department and Interim Chair Dr. Marion Couch for their support.

Finally, as in all our recent yearly reviews, we thank the alumni and friends of the College who believe so deeply in our missions of education, research, improving patient care, and engaging with our community. These generous people and organizations are our unseen colleagues. We never forget the effect they have as we look back at the achievements of this year, and at the work ahead in 2014.

**Frederick C. Morin III, M.D.**

Dean, University of Vermont College of Medicine

# VERMONT medicine

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## COLLEGE NEWS

## \$34.7 Million Funds Behavior and Health Research Center

September was an extremely good month for the research efforts of the College of Medicine, and in particular for Professor and Vice Chair of Psychiatry **Stephen T. Higgins, Ph.D.**, and his colleagues. In just a single week, the College's expertise attracted an unprecedented \$34.7 million in federal funding to support behavior and health research at the University.

The new Vermont Center on Behavior and Health, supported by an \$11.5 million National Institutes of Health Institutional Development Award Center of Biomedical Research Excellence grant, was announced September 16. Three days later, a \$19.5 million Tobacco Centers of Regulatory Science (TCORS) award from the U.S. Food and Drug Administration (FDA) and the National Institutes of Health (NIH) was received by the Center. Higgins also received notification of a five-year, \$3.7 million NIH grant for another smoking-related study, titled "Financial Incentives for Smoking Cessation Among Disadvantaged Pregnant Women."

The FDA and NIH formed an interagency partnership to fund TCORS — a first-of-its-kind regulatory science tobacco program, which is designed to generate research to inform the regulation of tobacco products to protect public health, and to train the next generation of tobacco regulatory scientists. Despite decades of work to reduce tobacco use, it continues to be the leading cause of preventable death and disease, with cigarette smoking alone responsible for more than 440,000 premature deaths in the U.S. annually. UVM is one of 14 institutions nationwide to obtain this prestigious award.

"Unhealthy personal behaviors — substance abuse, physical inactivity, obesity — account for 40 percent of premature deaths



Professor and Vice Chair of Psychiatry Stephen Higgins, Ph.D., is the director of the new Vermont Center on Behavior & Health.

in the U.S. annually and substantially increase healthcare costs and health disparities by being overrepresented among economically disadvantaged populations," says Higgins, who is also director of the Center for Substance Abuse Research & Treatment. "It is our goal to better understand the causes and devise more effective prevention and treatment interventions for such unhealthy behaviors."

## Deschamps Named Senior Associate Dean and Medical Group President

**Claude Deschamps, M.D.**, chair of surgery at the Mayo Clinic, has been named senior associate dean for clinical affairs at the College of Medicine and president and chief executive officer of the University of Vermont Medical Group (UVMMG). In his role as senior associate dean, Deschamps will oversee Graduate Medical Education, Continuing Medical Education, and support the development of educational and research opportunities across the clinical operation. As president of the

UVMMG, he will lead nearly 500 physicians at Fletcher Allen Health Care. He formally begins both positions on January 1, 2014.

Deschamps has served as the chair of Mayo's Department of Surgery since 2005 and was the Joseph I. and Barbara Ashkins Professor of Surgery at the Mayo Clinic College of Medicine. He held master's faculty privileges in clinical and translational science at the Mayo College of Medicine, and in 2013 year became chair of the Mayo Clinic in the

Midwest Strategy Work Group Integration Project.

Deschamps received his medical training in his hometown of Montreal, Quebec, at the University of Montreal and the University of Montreal Affiliated Hospitals, and at the Mayo Clinic in Rochester, Minnesota. His research interests include quality of life after anti-reflux procedure, hiatal hernia repair and esophagectomy. He was previously co-editor-in-chief of the journal *Diseases of the Esophagus*. He has been honored with multiple teaching



Claude Deschamps, M.D.

awards at Mayo Medical School, and has an extensive record of publication.



# Probing the Mysteries of Trauma-Induced Hemorrhaging



TACTIC study leader Professor Emeritus of Biochemistry Kenneth Mann, Ph.D.

When a person sustains a traumatic injury, whether in a car accident or on the battlefield, he or she typically suffers serious physical damage. Medical teams treat the injuries and, if all goes well, the patient gradually heals. But some trauma patients, even with all the proper treatment, can suddenly suffer from uncontrolled bleeding and die. It is believed that the shock from the trauma induces a “storm” of coagulation

and inflammatory problems that prevent the blood of these patients from clotting. There is a name for this biological phenomenon — coagulopathy — but there is almost no detailed knowledge about the condition.

But now, a five-year, \$23.8 million National Institutes of Health (NIH) grant announced in November will support a multi-center, multidisciplinary study on coagulopathy. Led by Professor Emeritus of Biochemistry **Kenneth Mann, Ph.D.**, the Trans-Agency Consortium for Trauma-Induced Coagulopathy study (TACTIC)

is a cooperative effort funded by the National Heart, Lung and Blood Institute that establishes a unique collaboration between the NIH and the Department of Defense. Faculty representing five departments at UVM will lead projects for the grant.

Trauma is the major cause of death in people under 34 years old and the third leading cause of mortality in the U.S., with uncontrollable hemorrhage representing the greatest cause of preventable deaths, according to the NIH. Each year there are nearly 50 million injuries in the U.S. that result in 170,000 deaths.

“There are no analytical tools that allow emergency department staff to conclude that coagulopathy is occurring in trauma victims — we’re starting from ‘ground zero,’” Mann explains. “The physicians and staff are left without resources to guide an effective therapeutic approach.”

This trans-agency endeavor links the NHLBI-supported TACTIC program with Department of Defense (DoD) clinical trauma research centers in a unique initiative that integrates laboratory, clinical and early translational, hypothesis-driven research by leading investigators across the country and enable the basic science investigative units to explore clinical specimens obtained from the DoD centers.

UVM researchers and consultants on the grant come from the College’s departments of biochemistry, pharmacology, pathology, and surgery, as well as the UVM Department of Engineering. Other institutions involved in the TACTIC study include the University of Pittsburgh Graduate School of Public Health, the Oklahoma Medical Research Foundation, MIT, Mayo Clinic, Scripps Research Institute, University of California-San Francisco, University of Colorado, University of Illinois, University of Pennsylvania, and Virginia Commonwealth University.

## UVM Dedicates Larner Medical Education Center

A ceremony on October 4 celebrated the naming of the Robert Larner, M.D. Medical Education Center at the College of Medicine. The dedication honored alumnus and Burlington native Robert E. Larner, M.D.’42 and his wife, Helen, who have supported the College for decades, helping to make medical education more affordable for a generation of students. The Larner Medical Education Center — the Concourse, Pavilion and Courtyard buildings — comprise 93,000 square feet of classrooms and lecture halls,

including the Davis Auditorium at Fletcher Allen Health Care and UVM’s Carpenter Auditorium and Sullivan and Reardon Classrooms, as well as the Dana Medical Library, and additional teaching, learning and student support space.

(L to R): UVM Foundation President Rich Bundy; Leslie Black Sullivan; UVM President Tom Sullivan; medical student and Larner scholar Vanessa Patten ’14; Dr. Larner’s daughter Vivian Plagman; Bernard Plagman, son-in-law; Peter Blacksberg, son-in-law; Dean Rick Morin, and Tracy Morin.



## STUDENT LIFE

Fourth-year Teaching Assistant Jerry Lee, center, answers questions during a small group meeting of students in the Cardiovascular, Respiratory, and Renal Systems course.

# Fourth-Year Teaching Assistants Add Perspective, Gain Experience

Fourth-year medical student Alyson Guillet draws looping lines on the whiteboard, pointing out how the kidney functions when a patient is hypovolemic, or volume depleted. A small group of second-year students gathered around the table type at their laptops and scribble notes, pausing to ask questions or add their own drawings.

For students embarking on the second-year course called Cardiovascular, Respiratory, and Renal Systems, it’s well-known that the kidney can be confusing. As a teaching assistant for the course, Guillet is there to help reinforce students’ understanding of what they’re learning in lectures and labs. On this day, she conducted a review session with fellow TAs and held late office hours to provide additional time to answer students’ questions. She was in the second-years’ shoes just a couple of years before, so her insights can help them focus on what they need to know at this point.

“TAs are another resource for students,” she says. “We have a different perspective after a few more years of experience, and can help bring classroom learning to a clinical context.”

The College is one of only a few medical schools in the country that require fourth-year students to do either a teaching month or a research project, says Eileen CichoskiKelly, Ph.D., associate professor of family medicine and director of educational instruction and scholarship and the fourth-year teaching and scholarly project requirement. Generally, about 80 percent of students in a given class choose the teaching month. The number of TAs varies over the academic year, but by mid-fall, the College usually has up to nine or ten working in first- and second-year courses, conducting everything from review sessions and small-group meetings to informal office hours and online discussions boards. Students

“No matter what my role is, I’m going to be learning and teaching ... Medicine is a life-long learning experience.”

— Joe Foley ’14

choose the course they want to TA, which offers them a chance to re-engage with material they may have enjoyed earlier in the curriculum. During their month they work with CichoskiKelly to learn teaching methods and techniques, which serves them well for residency and beyond.

“[The teaching month] makes our students nicely competitive when they go to residencies,” says CichoskiKelly. “The Accrediting Committee for Graduate Medical Education competencies include teaching as a goal for residency training, and our students come with the competitive edge of already having these skills.”

As the College continues to incorporate active learning into the curriculum — a new Team-Based Learning Classroom is expected to open in May of 2014 — TAs are soaking up as many of these techniques as they can. In active learning, students define their own goals and objectives, and contribute to the learning of the group by asking questions and participating in activities.

Joe Foley, a fourth-year student who served as a TA for the first-year Cell and Molecular Biology course, engaged students in review sessions through the use of iClickers, devices that allow students to submit answers from their seats. A wide disagreement from across the group for one particular question can serve as the jumping off point for further discussion. It also allows the whole class to engage with the material. Foley says he now looks for opportunities to make sure all students are getting what they need out of an experience.

“No matter what my role is, I’m going to be learning and teaching,” he says. “Medicine is a life-long learning experience.”

Jerry Lee and Bianca Yoo, also TAs for CRR, echo how valuable the teaching experience can be. “I’m learning how to break down and explain difficult concepts,” Yoo says.

Often, the best lessons for TAs come when the questions get most difficult. This is when it’s wise to circle back to the student, and encourage them to dig deeper. “I’m learning how to interact with a group,” Guillet says. “I’m learning to ask valuable questions of students so it makes them think.”



## Sullivan Lauds “Historic” Surgery Faculty Gift to Fund Professorships

A \$4.5 million gift from the surgical faculty at the College of Medicine and Fletcher Allen Health Care is funding 14 Green & Gold Professorships in the Department of Surgery and adds \$1 million to the recently established Frank P. Ittleman Professorship in Cardiothoracic Surgery established by a grateful patient earlier this year.

“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.”

— UVM President Tom Sullivan

“This support shows the world not only that every aspect of surgical medicine at UVM and Fletcher Allen Health Care is important and supported, but also that its very own 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,” said UVM President Tom Sullivan at the

announcement of the gift in October. “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 today’s 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 members. 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 are establishing, and instead will leave the naming opportunity available to other future donors who make contributions that elevate the Green and Gold professorship to full professorship.

The goal for the Ittleman Professorship, established with a \$1 million gift from an anonymous donor, is to bring it to the required \$3 million endowment level needed to elevate it to the status of a full chair. The surgical faculty’s \$1 million gift brings the Ittleman endowment to within \$600,000 of achieving its goal. (For more on the Ittleman gift, see the article on page 18.)



UVM President Tom Sullivan and Interim Chair of the Department of Surgery Marion Couch, M.D., Ph.D., M.B.A., are joined by members of the Department of Surgery faculty at the Green and Gold Professorship announcement in October.

# STAT SHOT

## Fletcher Allen Ranks in Top Ten Among Leading University Hospitals

**1** Fletcher Allen Health Care, the University of Vermont College of Medicine’s teaching hospital partner, has been ranked first in providing safe patient care and

**7** seventh overall among university hospitals that participate in the annual University HealthSystem Consortium (UHC) Quality and Accountability Study, recognized as the most important analysis of its kind. UHC is an alliance of nearly all of the academic medical centers in the United States.

Fletcher Allen’s success in nearly eliminating bloodstream infections associated with “central line” catheters was a key factor in achieving the number-one patient safety ranking and top ten status.

**1** Fletcher Allen also ranked first in “Equity” — providing the same level of care no matter the age, race or income status of the patient — and twelfth in “Effectiveness” which includes readmission rates within 30 days of discharge

## 3 QUESTIONS

### for Raj Thakrar

Class of 2016 medical student and member of the University of Vermont Board of Trustees

*Second-year medical student Raj Thakrar came to the College of Medicine after earning a bachelor’s degree in neuroscience from Johns Hopkins University, and a master’s degree in physiology and biophysics from Georgetown University. A native of Westford, Mass., Thakrar worked for a year in the lab of Robert Langer, Sc.D., at MIT’s Koch Institute before deciding that he wanted a career that combined clinical medicine as well as research. Just a few short months into his first year at the College of Medicine, he received a university-wide email soliciting applications for one of two student positions available on the UVM Board of Trustees. Thakrar went through the application and interview process, and was appointed as a student trustee in March of 2013.*



Raj Thakrar '16

**VM:** Why did you apply to be a member of the UVM Board of Trustees?

**RT:** I had an extraordinary experience in the path that led me to UVM. I was fortunate enough to be involved with a research project with my mentor that was published during my second semester here. I was also awarded a scholarship. There were so many things that UVM gave to me that I felt like I wanted to give back in a capacity that affected the entire university, so this role was perfect. Also, I was very interested in seeing what happened behind the scenes — the business of the enterprise that is UVM. I saw it as a learning experience, and that was very exciting for me. During college when I was at Hopkins, one of my roommates was a student trustee on that board, and he gave me some insight into the responsibilities of a board member. He was very excited to talk about the experience, and that motivated me to become involved.

**VM:** As one of two current students on the Board of Trustees, how do you find yourself contributing to the board’s work?

**RT:** I serve on two committees: The Educational Policies and Institutional Resources Committee, and the Audit Committee. The Educational Policies and Institutional Resources Committee — EPIR for short — deals with curriculum changes, student fees, tuition, scholarships, and financial aid, which are very important topics in higher education today. When it comes to these topics, the students, Dennis Mahoney and I, are often the ones who ask the most questions. What can we do to increase the overall attraction of this university to prospective applicants? What are they looking for? What’s going on in their heads? And we’re asked questions, like what were the differences I saw here at this university versus the other universities where I interviewed? These are all issues I like to talk about with other trustees. I think that’s where my perspective can be valuable.

**VM:** How will your service on the UVM Board of Trustees impact your future work as a physician?

**RT:** There are several changes going on with the Affordable Care Act in healthcare today, and institutions are figuring out how to adapt. I think serving on the Board of Trustees is a great way for me to learn to analyze whether or not certain businesses, certain hospitals, are going to be able to manage healthcare, patients, and education. Also, I’m hoping to go into academic medicine. Seeing what goes on behind the scenes, especially with topics like curriculum changes, gives me some experience before I’m at that stage where I might have to develop a curriculum. I’m also interested in business itself, though I don’t know yet whether or not I want to pursue an MBA. Next year I’ll be serving on the budget, finance, and investments committee, and I’m currently on the audit committee. It’s giving me a great perspective on the business side of things.





Philip Ades, M.D.

Ades Receives AACPR

Professor of Medicine and Fletcher Allen Health Care cardiologist **Philip Ades, M.D.**, received the American Association of Cardiovascular and Pulmonary Rehabilitation Presidential Recognition Award at the organization's 28th Annual Meeting held in Nashville, Tenn., in October. Ades serves as director of cardiac rehabilitation and preventive cardiology and has been performing clinical research in cardiac rehabilitation since 1984.

A Lecture of Note

After 38 continuous years of teaching medical students, Professor of Molecular Physiology & Biophysics and former Dean of the College **John Evans, Ph.D.**, delivered his last lecture on October 31. Dressed in her Halloween costume, Paula Tracy, Ph.D., director of the Foundations Level of the Vermont Integrated Curriculum, presented Evans with a commemorative crystal apple, and noted his unbroken years of teaching all the way through his tenure as executive dean, interim dean, dean, interim UVM vice-president for research, and special advisor to two UVM presidents.



John Evans, Ph.D., and Paula Tracy, Ph.D.

Naylor Named to Study Section

The Center for Scientific Review at the National Institutes of Health has named professor of psychiatry **Magdalena R. Naylor, M.D., Ph.D.**, a member of the Behavioral Medicine, Interventions and Outcomes Study Section through June 2019. As an NIH study section member, Naylor will participate in assuring the quality of the NIH peer review process and will be responsible for reviewing and making recommendations on grant applications and surveying the status of research in the field of behavioral medicine.



Magdalena R. Naylor, M.D., Ph.D.

Alumnus Hits Century Mark

One of UVM and the College of Medicine's oldest alumni reached a major milestone this year, as **Burnett Rawson, M.D.**, a graduate of the College's Class of 1939 (UVM'36) celebrated his 100th birthday on July 11. On the day Dr. Rawson was born in 1913, Woodrow Wilson had been President of the United States for just four months, the 48th state, Arizona, had entered the union only the year before, less than 10 percent of the nation's roads were paved, and there were about half as many people residing in Vermont as there are today. At the College of Medicine, 38 students had just earned their M.D. in the Class of 1913 (exactly a third the number of today's first-year class); all were male — the College would not confer the M.D. on a female until 1924.

Burnett Rawson grew up on the family farm in Underhill, Vt. His class at the Underhill High School consisted of four students. In 1932, a distant relative took him under her wing and, through her generosity, he was able to attend UVM and earn both his undergraduate and medical degrees. After an internship in Waterbury, Conn., he joined the Army Air Corps in World War II, rising to the rank of major. After the war and a post-graduate fellowship, he practiced urology in New York for many years before retiring to the Underhill/Jericho area.

Dr. Rawson and his late wife, Jessie, were also deeply committed to broadening the diversity of the student body at his medical alma mater, and donated generously to support scholarship aid for medical students. In a recent interview, Dr. Rawson said, "I would have no reason to live if I could not give to others."



Centenarian Burnett Rawson, M.D.'39

Top left and above, UVM Med Photo; Middle left, Mario Morgado; left, Ed Neuert

THE WHITE COAT, THE RIGHT QUESTIONS

On October 18, the members of the College of Medicine's Class of 2017 hit the first big milestone of their careers — the White Coat Ceremony that welcomed them into the medical profession. Assistant Professor of Family Medicine Ursula McVeigh, M.D., the 2013 recipient of the Leonard Tow Humanism in Medicine Award from the graduating medical school class, gave the keynote address to the audience of students and their friends and family. Dr. McVeigh's remarks are excerpted here.

The attributes that the white coat conveys are not skills one achieves competency in and that are mastered by the completion of medical school. These are skills and qualities of professionalism that you will be honing throughout your entire medical career — and that is what starts today. This represents a contract of trust, honor, respect and confidentiality between you and your patients, and being mindful of this meaning is how one maintains the integrity of the white coat.

A technique being studied in Canada looked at tools to improve compassionate care. They studied just one question for its impact on improving the doctor/patient relationship and the patient's feeling that the physician understood them. And it's this question: "What do I need to know about you as a *person* to provide the best care possible?"

The first time I asked this question was in seeing a gentleman in the intensive care unit, who had multi-system organ failure... He was pretty guarded and quiet. And in wanting to help him think about how he wanted to navigate this final phase of his life I had numerous things I would like to know about him. What did he understand about his illness? Did he know he may be facing the end of his life soon? Did he understand the burdens of potential treatments and likely outcomes? And what outcomes were acceptable and unacceptable? But we were just meeting. One meets a lot of doctors in the hospital and it was an understatement to say he was not very interested to speak to another. We hit a standstill.

And then I thought to ask him "What do *you* think that we need to know about you as a person to give you the best care possible?" He looked me straight in the eye and started telling me that he fought in Vietnam and never went on a mission with a survival estimate greater than one percent. And he spoke about his time as a prisoner of war and how it felt to eventually be brought home... He spoke of his illness as a fight. That first visit he was fighting to live longer, he was fighting to recover and he was willing to try even burden treatments to help him achieve that. I worked with him over the course of just a few weeks and two hospitalizations. As his disease worsened his fight changed. He later fought to minimize the impact of his illness on his life, which was largely defined by avoiding the hospital, being at home and being liberated from rules and health habit recommendations. Eventually he fought to be comfortable in his home and to allow death naturally, on his own terms. At each of these transitions in goals and priorities he never wavered. He maintained this incredible clarity about his sense of self and the dignity these fights provided him as he adjusted to the changing condition of his body.

So today, when you put on your white coat, remember that this coat represents the attributes of professionalism and compassionate care. You have earned this white coat and the honing of these qualities starts today. And I welcome you into this truly wonderful profession.

Top right: White Coat Ceremony keynote speaker Assistant Professor of Family Medicine Ursula McVeigh, M.D., addresses students, family members, and friends on October 18. Left middle, Caleb Seufert '17 is congratulated by Associate Dean for Students Christa Zehle, M.D.'99; left bottom, students recite the Oath.

UVM Med Photo



See a video and slideshow of the White Coat Ceremony online. Go to: [uvm.edu/medicine/vtmedicine](http://uvm.edu/medicine/vtmedicine)



# facts & figures

ACADEMIC YEAR **2013**



## UVM College of Medicine MISSION STATEMENT

The Vision of the University of Vermont 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 2012–13

Total Medical Students	467
In-State	30%
Women	49%
Men	51%
Ph.D. & Masters Students	120
Residents & Fellows	276

## Class of 2017

The College received nearly 6000 applications for the 114 positions in the Class of 2017, who began their first year in August 2013.

Median undergraduate GPA	3.70
Median MCAT — Verbal	10.0
Median MCAT — Biological Science	11.0
Median MCAT — Physical Science	10.0
Students with research experience	82%
Students with medically related experience	90%
Medical students at the College come from 30 states across the U.S.	

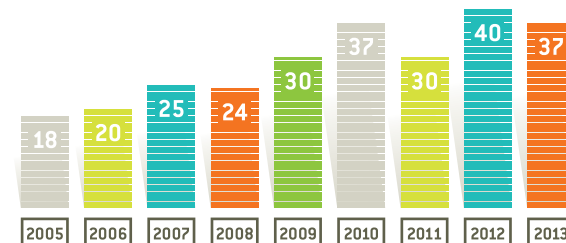
## Graduates/Alumni

### Class of 2013

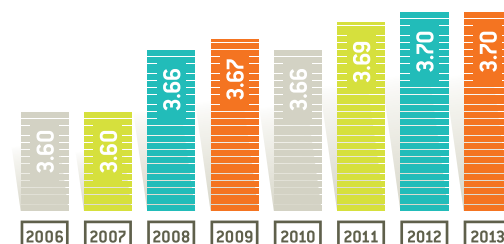
Medical graduates in 2013 went on to residencies at 58 institutions across the nation, including Yale-New Haven Hospital, University of Rochester, Tufts Medical Center, Stanford University, Rhode Island Hospital/Brown University, University of North Carolina, Mayo Clinic Hospitals, the Lahey Clinic, Duke University Medical Center, Dartmouth-Hitchcock Medical Center, Cleveland Clinic, Case Western Reserve University, Brigham & Women's Hospital, and UVM/Fletcher Allen Health Care.

### Alumni

Number of living alumni of the College	4,260
Percentage of alumni who practice in New England	43%
Percentage of Vermont physicians educated or trained at the academic medical center	38%
Percentage of alumni who contribute philanthropically	37%



NUMBERS OF ALANA\* STUDENTS IN COLLEGE OF MEDICINE INCOMING CLASSES (by academic year) \* Includes: African American, Latino/a, Asian, Native American



MEDIAN UNDERGRADUATE GPA OF COLLEGE OF MEDICINE INCOMING MEDICAL STUDENTS (by academic year)

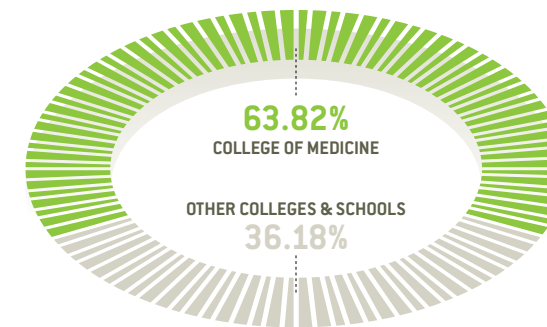
\* All figures are as of June 30, 2013.

## Endowments (Market Value as of June 2013)

2013 Department Support	\$69,862,436
Scholarship	\$24,188,524
Total Endowment Value	\$94,050,960

## Private Gift Revenues

Private philanthropy to the College of Medicine from alumni, friends, and organizations totaled \$13.6 million for Fiscal Year 2013. *For more detailed information about philanthropy, see page 46.*



RESEARCH AWARDS AT UVM (% by college)

## Research Support

Total dollars	\$68 million
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A total of 308 research projects were active at the College in 2013. College of Medicine funding represents nearly 64% of total UVM research funding. The National Institutes of Health supported three Centers of Biomedical Research Excellence (COBRE) at UVM during 2013, that focused on neuroscience, immunology, and lung biology, and in the fall of 2013 a new COBRE supported the foundation of the Vermont Center on Behavior & Health *(see page 3 for more information)*.

## Faculty & Staff

Basic Science	63
Clinical (full time)	576
Volunteer (Vt., Maine, Conn., N.Y., Fla.)	1,207
Staff	473

## Departments

Basic Science	4
Clinical	11

## Facilities / Physical Plant

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

UVM Med Photo and Mario Morgado



THE COLLEGE IS AMONG THE TOP MEDICAL SCHOOLS IN THE NATION FOR PERCENTAGE OF MEDICAL ALUMNI WHO GIVE EACH YEAR



## UVM GRADUATES REPORT HIGH SATISFACTION RATES IN 2013

The 2013 Medical School Graduation Questionnaire (GQ) administered by the Association of American Medical Colleges with data released this fall, provides aggregate data from graduating students at the 130 U.S. medical schools accredited by the Liaison Committee on Medical Education. Ninety-four percent of the College of Medicine's Class of 2013 participated in the GQ survey reported high satisfaction rates with their pre-clerkship and clinical clerkship experiences and felt more prepared than their national counterparts to enter residency. Specifically the College ranked in the 94th percentile for educational quality, and in the 100th percentile for basic science integration.







# Making Scientists for the 21<sup>st</sup> Century

by **Erin Post**  
photographs by **Alec Jacobson**

**“The backbone of discovery science is still the lone investigator at 2 a.m. wondering what something means.”**

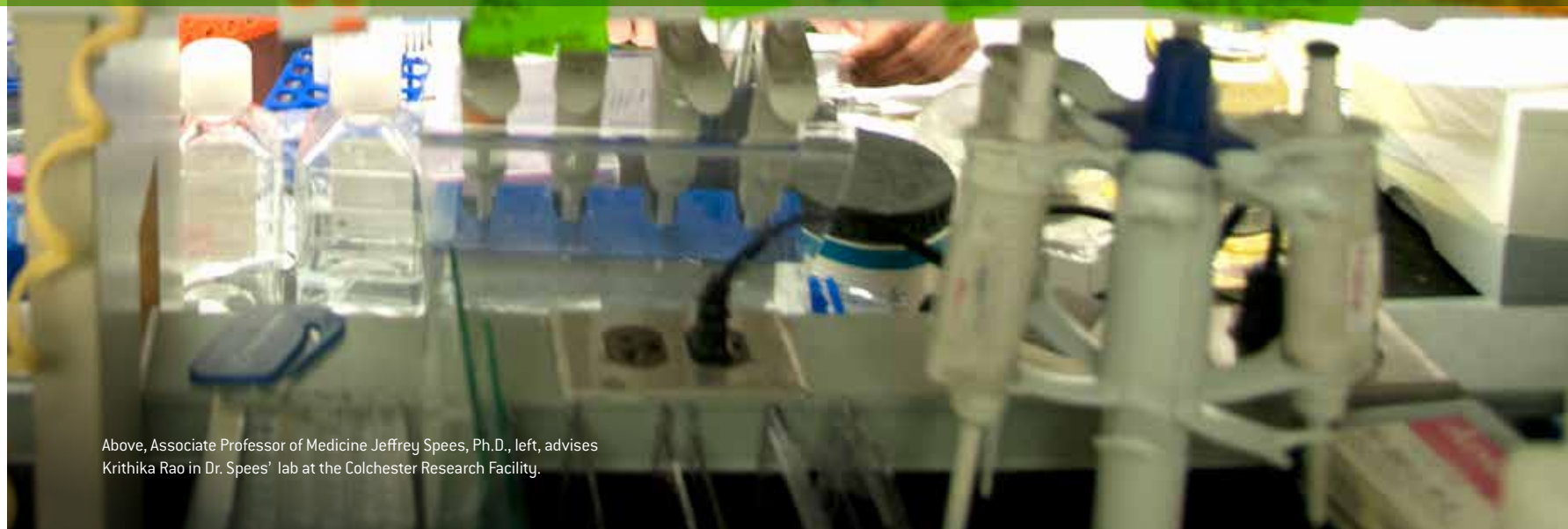
— **Richard Galbraith, M.D., Ph.D.**, professor of medicine and dean of patient-oriented research

**As the nature of scientific inquiry has become more interdisciplinary, and the range of job expectations for new scientists has radically changed, UVM has reshaped the pathways that lead promising students into careers in biomedical research.**

**I**t’s a question on the minds of research scientists the world over: When is that ‘aha’ moment going to happen? When will the pieces fall into place, leading to a new discovery that changes how we understand the biology of a human, treat disease, or care for patients?

“The backbone of discovery science is still the lone investigator at 2 a.m. wondering what something means,” says UVM Professor of Medicine Richard Galbraith, M.D., Ph.D., associate dean of patient-oriented research. What has changed is how that person fits into the larger whole. Interdisciplinary teams that look at questions from different angles are becoming more and more vital to scientific inquiry, says Galbraith, who is also the director of the UVM Center for Clinical and Translational Science. And with technology — especially the power of computers to analyze vast quantities of data — transforming what is knowable, scientists must be grounded in their discipline while also understanding its relevance to other fields.

To keep pace with this new reality, UVM and other institutions are re-thinking how they educate research scientists. Today, students entering a Ph.D. program affiliated with the College of Medicine choose from four programs that bring faculty together from multiple departments and colleges across the university — all under the administrative umbrella of the UVM Graduate College. Several programs have been restructured and combined to give students exposure to a wider variety of research, while a few new programs — clinical and translational science, and bioengineering — have been created to address relatively new fields. In all of these programs, students conduct their Ph.D. research with mentors who



Above, Associate Professor of Medicine Jeffrey Spees, Ph.D., left, advises Krithika Rao in Dr. Spees’ lab at the Colchester Research Facility.



have different areas of expertise, opening opportunities for innovation at the margins of what is known.

The reductionist approach — isolating one particular technique or biological process in the lab to understand how it works — has yielded great insights over the years, including vaccines and therapies responsible for saving many lives. But it has its limitations. What happens in a test tube doesn't necessarily hold when it is part of a larger system, notes Associate Professor of Molecular Physiology and Biophysics Chris Berger, Ph.D., director of graduate education at the College of Medicine. And then there's the realization that science doesn't end with what happens in the lab — politics and policy decisions, socioeconomic conditions, even the built environment affect health outcomes. "The world is more complex now," says Berger. "We need scientists who can connect the dots, and ask the right questions."

The message from federal agencies that set the research agenda, like the National Institutes of Health, has changed as well. It used to be that the success of an academic program was measured by how many Ph.D. students went on to tenure track faculty positions — essentially replacing the professors who retire. Now, with data indicating that employers outside of academia are snapping up students with biomedical training, the focus has shifted to also prepare students for jobs in biotech, government, publishing, teaching, and many other fields. According to the 2012 Biomedical Research Workforce Working Group Report from the NIH, less than half of Ph.D. graduates in the biomedical sciences go on to careers in academia, and about 30 percent of biomedical Ph.D.s work in the biotech and pharmaceutical industries. Young people today must be flexible as they enter a job market that

can be fickle. Nevertheless, it's an exciting time to be working in science, says Mary Tierney, Ph.D., an associate professor with joint appointments in plant biology and microbiology and molecular genetics.

"People who are professional scientists now are extremely lucky," she says. "Science is opening up new ways to ask questions."

At the College of Medicine, four Ph.D. programs serve as pathways to careers in the biomedical sciences: Cellular, Molecular and Biomedical Sciences; Neuroscience Graduate Program; Clinical and Translational Science; and the Neuroscience Graduate Program.

### Cellular, Molecular and Biomedical Sciences

The most recent change in the graduate medical sciences at UVM is the merger of four College of Medicine graduate degree programs — microbiology and molecular genetics; molecular physiology and biophysics; biochemistry; and pharmacology — with cell and molecular biology. The new expanded program has a different name — cellular, molecular, and biomedical sciences — but a familiar acronym: CMB. Those three initials have stood for over 40 years for cell and molecular biology, the oldest cross-college graduate program at UVM.

"A lot of people see this as an opportunity to strengthen an already strong graduate program," says Mary Tierney,

Ph.D., who served as the director of the new CMB program through the merger process. "The opportunity to provide more resources for our students was a major factor [in the decision to merge]."

As of July 1, 2013, Tierney handed leadership of the program to Nicholas Heintz, Ph.D., who will help guide the program as it grows and matures. The first 20 students in the new Cellular, Molecular, and Biomedical Sciences Program matriculated in the fall of 2012; they take a common core curriculum, but have the opportunity to rotate through several labs across the program prior to choosing their area of research focus. Preserving the distinct cultures of the individual departments — even with the merger — is important for the student experience, says Heintz, who is a professor of pathology with a joint appointment in microbiology and molecular genetics.

"This new structure gives us more flexibility. We provide students with as many opportunities as possible for rigorous training while still maintaining a personalized approach. That's very attractive for students," Heintz says.

Krithika Rao, a cellular and molecular biology student in her third year of study, came to UVM with a plan to research cell biology in injury after receiving her undergraduate degree in zoology and master's degree in applied biology at universities in India. She visited the lab of Jeffrey Spees, Ph.D., associate professor of medicine, and felt she'd found her place. He works at the leading edge of research on adult stem cells: One line of inquiry focuses on understanding the biology behind cardiac stem cells to determine possible therapeutic applications. Right now Rao is experimenting with mouse models of cardiac disease to pinpoint how stem cells from the heart may work to repair tissue damage if they are injected after a heart attack.

Congestive heart failure and heart attacks affect millions of people annually in the United States alone, so if cardiac stem cells prove to be therapeutically beneficial, the implications for patient care could be huge. With a publication in

this September's *Stem Cells*, their research is already advancing knowledge in this emerging field.

"I decided I wanted to make a contribution to this field because it's so early," Rao says. "This is pretty unknown territory."

### Neuroscience Graduate Program

For over 25 years, many graduate students interested in neuroscience studied under the banner of anatomy and neurobiology, while other students chose mentors in psychology, or biology. Although they received top notch training, they lacked a central hub for interdisciplinary study in neuroscience. That changed in 2006, with the formation of the Neuroscience Graduate Program (NGP). It started with five predoctoral students and one M.D./Ph.D. student, and today has grown to 24 Ph.D. students with 52 faculty members teaching in the program from 10 academic departments and four colleges across the University.

NGP Director and Professor of Neurological Sciences Rae Nishi, Ph.D., says the NGP benefitted at its founding from participation in the Carnegie Initiative on the Doctorate (CID), a nationwide program that looked at how to improve doctoral student training. A UVM committee she served on explored ways to structure the fledgling NGP so that students would be able to conduct research across disciplines and develop the communication skills to become stewards of the field. The program has been responsible for "breaking a lot of barriers down," says Nishi, in part because it brought faculty from different departments together in pursuit of a common goal.

"Science is becoming more interdisciplinary," she says. "We need specialists to collaborate; projects are stronger when you have all of this great expertise working together."

The NGP reflects this evolving reality. Students take several core science courses alongside medical students, while they choose electives that range from Toxicology to the Neurobiology of Learning and Memory. A new academic track created



Graduate student Nate Jebbett, in background above, worked with Upward Bound students this summer as they used multi-colored pipe cleaners to understand neuron construction.

## COMMUNITY CONNECTIONS

Every summer, the Neuroscience Graduate Program (NGP) welcomes a cadre of SNURFs — Summer Neuroscience Undergraduate Research Fellows — to the medical campus. These eight to ten diverse undergraduates are selected from hundreds of applicants from across the country. They spend ten weeks attending lectures and conducting research with faculty members and NGP students, giving them valuable higher-level academic experience. And for neuroscience grad students, it's a chance to develop the teaching and communication skills necessary in a rapidly changing job market, says Rae Nishi, Ph.D.

"We should be preparing students for a number of different jobs," Nishi says. "I want to provide them with opportunities to do outreach."

NGP students connect with the wider community in a number of other ways. During Brain Awareness Week, students fan out to area elementary schools to conduct workshops, and they organize an annual Vermont Brain Bee for high school students. Another summer program brings Upward Bound students to campus for a series of classes that include one in brain science organized and taught by graduate students. Vanessa Ochoa, a NGP student who co-led one of Upward Bound classes, says her peers relish the chance to try their hand at running a classroom.

"I love to interact with students, and to inspire and mentor them," Ochoa says.

**"The world is more complex now. We need scientists who can connect the dots, and ask the right questions."**

— Chris Berger, Ph.D., College of Medicine  
director of graduate education



At left: Chris Berger, Ph.D., director of graduate education, and Richard Galbraith, M.D., Ph.D., associate dean for patient-oriented research. Above, Professor of Microbiology & Molecular Genetics Nicholas Heintz, Ph.D., is director of the Cellular, Molecular, and Biomedical Sciences Graduate Program.



by the NGP and UVM's physical therapy program allows students to pursue both degrees, opening up exciting opportunities. Students are required to be a teaching assistant in at least two courses — setting an expectation for strong communication skills. Many NGP students work with undergraduates who come to campus for the Summer Neuroscience Undergraduate Research Fellowship Program (SNURF), which is funded by the National Science Foundation and the College of Medicine Office of Diversity and Inclusion. An essential feeder program for NGP, the success of SNURF is reflected in the diversity of the program — 21 percent of NGP students are from underrepresented minorities, compared to 5.6 percent of all grad students at UVM.

NGP students Vanessa Ochoa and Liana Merrill have honed their communication skills through these and other activities. Although both

are spearheading important research — Ochoa works with Nishi researching neuroblastoma in children, and, with Margaret Vizzard, Ph.D., Merrill is focused on studying how the brain controls bladder function. Both students envision a future that also involves teaching. As a Mexican-American who is the first in her family to continue to professional school, Ochoa would like to work with minority students. Merrill hopes to teach at a liberal arts college or small university.

“Teaching is a lot of work but it is really rewarding to inspire someone who is younger than you,” says Ochoa. Adds Merrill: “I feel like the outreach we do here is abundant. That makes us stand out from other programs.”

### Clinical and Translational Science

Graduate students in the Clinical and Translational Science (CTS) program bring

with them expertise in a wide variety of subjects: The program attracts internists, audiologists, surgeons, and computer scientists, even lawyers and anthropologists. What unites them is a desire to apply their knowledge to health care in a research setting.

This was the case for Abigail Crocker, a faculty member in the mathematics and statistics department at UVM with a master's degree in biostatistics. She wanted to use her expertise to become an independent investigator, and in CTS found not only strong mentors, but a group of students who provided support and guidance.

“We learned a lot from talking to each other about how to systematically approach research studies,” says Crocker, who defended her dissertation in April of 2013. “When you leave the program you should be an expert in the research process.”

For a long time, students and faculty at UVM looking for this kind of mentoring sought it out through an informal network,

says Benjamin Littenberg, M.D., Henry and Carleen Tufo Professor of Medicine and Professor of Nursing. In the mid-2000s, Littenberg found himself tapped to help transform this loose network into an academic program. Officially launched in 2008, CTS now includes a 75-credit Ph.D. program as well as a master's degree and certificate program. Doctoral students gain an understanding of their research as “part of a spectrum,” Littenberg says, one that includes biomedical as well as ethical, legal, political, and social dimensions. “Students may come with experience at one part of the spectrum,” says Alan Rubin, M.D., associate professor of medicine emeritus, “but they leave understanding how their research fits into a larger whole.”

“It's interdisciplinary,” says Rubin, who teaches CTS courses and is the program's liaison to the UVM Graduate College. “It causes curiosity and collaboration.”

Crocker's work exemplifies this approach. She started by creating a mathematical model to help determine which babies of opioid-dependent mothers were likely to develop neonatal abstinence syndrome. Then, she looked into the breastfeeding habits of women struggling with opioid dependence. Despite clinical guidelines that recommend breastfeeding in this population, rates remain very low. Crocker wanted to find out why, and figure out ways to support these mothers. Working as a CTS post-doc with her mentor, Associate Dean for Primary Care Charles MacLean, M.D., she analyzed data using the state's all-payer health care claims database. In January 2014, she begins her new role as a research assistant professor in mathematics and statistics, in which she will expand on her student and post-doc work.

### Bioengineering

“If you stand in the middle of campus, you could throw a rock to the College of Engineering, the College of Medicine, and the teaching hospital,” says Bioengineering Graduate Program Director Jason Bates, Ph.D. “That is very unusual.”

This physical proximity makes UVM particularly fertile ground for bioengineering, a discipline that stands

at the intersection of fields. Launched about two years ago, the Ph.D. program now includes six students with mentors in the College of Medicine and the College of Engineering and Mathematical Sciences. Students apply quantitative engineering analysis to the study of biological systems, which may range from molecules all the way to populations.

“Bioengineers are in pretty big demand,” says Bates, who is a professor of medicine and interim director of the School of Engineering. Recent advances in the development of artificial organs and tissues have grabbed headlines, while the ever-increasing volume of data humans produce has prompted new thinking about ways to leverage this information in health care. Bioengineering students at UVM are at the leading edge of much of this work.

M.D./Ph.D. student Joshua Pothen is working with a cross-disciplinary team of researchers — including pulmonologists Professor of Medicine Dan Weiss, M.D., Ph.D., Associate Professor of Medicine Matthew Poynter, Ph.D., and Bates — to create a computer model that predicts how cells in the lung respond to certain allergens. The goal is to understand why some people, particularly children, suffer from chronic asthma while others may have only a few attacks and recover. Because a computer model has the ability to simulate a complex system, it stands to capture the emergent behavior that comes from parts interacting as a whole. This knowledge can inform the direction bench research takes, allowing scientists to test big ideas before going to the lab. Huge advances in technology and data analysis have made this work possible, Pothen says, and bioengineers stand uniquely poised to make connections between computer modeling, lab research, and patient care.

“It takes someone who can connect the researcher and the clinician and say ‘hey, you could use this,’” Pothen says.

With bioengineering faculty working on everything from tissue engineering and regenerative medicine to orthopaedic biomechanics and synthetic biology, collaboration is a part of everyday life. Faculty members hail from and work

with the Advanced Computing Center, the Vermont Cancer Center, the Department of Rehabilitation and Movement Science, the Division of Cardiology and many other departments and programs across campus.

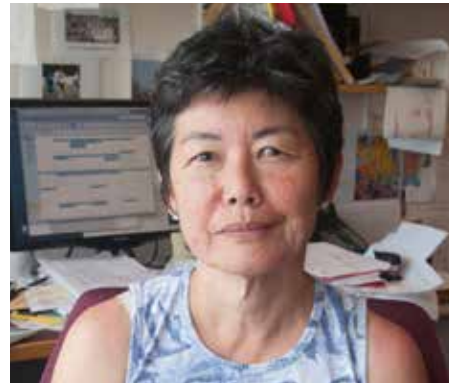
“[The program] brings engineering and medicine together in ways that wouldn't have happened otherwise,” Bates says.

Like Pothen, students in all of the graduate medical science programs at UVM learn critical thinking, research, and teaching skills, and they leave prepared to enter a job market that is rapidly changing. Most important, they're also prepared to explore the unknown in science, and contribute new knowledge to their fields, says Chris Berger, Ph.D.

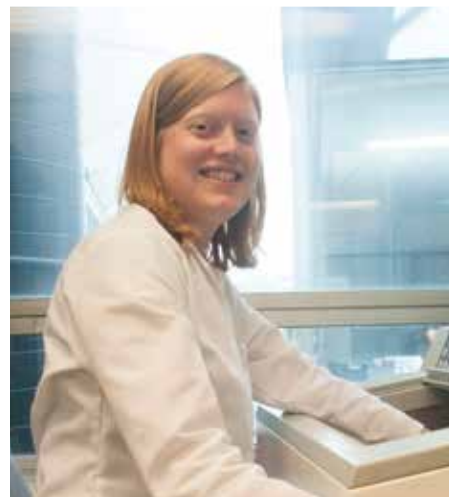
“New ideas come from synthesis, from thinking about a problem differently,” Berger says. “That's where most scientific progress is made.” And where the next generation of scientists emerge. **VM**

**“Science is becoming more interdisciplinary. We need specialists to collaborate; projects are stronger when you have all of this great expertise working together.”**

— Rae Nishi, Ph.D., Neuroscience Graduate Program Director and Professor of Neurological Sciences



Clockwise from above right, Rae Nishi, Ph.D., Professor of Neurological Sciences and director of the Neuroscience Graduate Program; graduate student Liana Merrill; graduate student Vanessa Ochoa (in lab coat) works with SNURF program participant Genelle Rankin; Abigail Crocker, Ph.D.'13 reviews data on her laptop with Associate Dean for Primary Care Charles MacLean, M.D.



At top, graduate student Joshua Pothen works with a cross-disciplinary team of mentors to create a computer model of lung cell response to allergens. Above, Professor of Medicine and Interim Director of the School of Engineering Jason Bates, Ph.D., is one of the mentors of Joshua Pothen and other students.





by Sarah Zobel | photographs by Raj Chawla

# TAKEN TO HEART

**FOR MORE THAN THREE DECADES, FRANK ITTLEMAN, M.D., HAS OFFERED THE GIFT OF COMPASSION AND SURGICAL SKILLS TO HIS PATIENTS. AND THEY IN TURN HAVE GIVEN HIM SOMETHING JUST AS VALUABLE.**

Professor of Surgery Frank Ittleman, M.D., center, makes a point to resident David Greenhouse, M.D., at left, and medical student Nishan Bingham '16, right, in an operating room at Fletcher Allen Health Care.

In the L-shaped desk in his cozy office on the fourth floor of the Fletcher Building at Fletcher Allen Health Care, Frank Ittleman, M.D., slowly opens a drawer. It's intended for hanging files, so it's sizeable, but it's still not large enough to contain its contents. Envelopes of many colors spill onto the floor beneath the desk, and Ittleman laughs, with a hint of embarrassment.

The drawer is filled with thank-you cards and letters from patients on whom Ittleman has operated over the course of the last 30-plus years. Division chief of cardiothoracic surgery at

Fletcher Allen, professor of surgery in the College of Medicine, and medical director for cardiovascular services at CVPH in Plattsburgh, he's kept every note he's ever received.

"When things get tough, I think about some of those letters and people," he says, picking one up at random. "We're coming up to our 22nd anniversary," he reads, smiling wistfully, and then interrupts himself. "The support they give is important," he says. "you do this profession for many other reasons than being able to earn a living. It's that gratitude from the patients — just a simple 'thank you' — that's enough for me."



“He’s smart, and he’s humble,” says John Rao, a Burlington restaurateur who underwent a triple bypass at Ittleman’s hands nearly a decade ago. He was surprised to find that Ittleman was “just a regular guy. He was calming and easy,” and kept careful tabs on Rao while he was in recovery. Rao’s next-door neighbor, an emergency room surgeon, once said to Rao of the right-handed Ittleman, “I would let him operate on me with his left hand.” It’s an oft-repeated sentiment.

“The highest accolade I, as a surgeon, can give to another surgeon is I would be very, very comfortable allowing him to operate on me or any member of my family,” says Martin Koplewitz, M.D.’52, associate professor of surgery emeritus, of Ittleman. The two men have known each other since Ittleman arrived in 1972 as an intern at what was then the Medical Center Hospital of Vermont. “It was obvious to me that this was a special person right off,” says Koplewitz. “Technically, he was excellent, and for an intern, he was head and shoulders above anyone I had seen or worked with at that level. He was much more helpful as an assistant than most interns because he was so perceptive — he was observant and he was careful.”

Recently, Ittleman received a particularly substantial thank you, in the form of an anonymous \$1 million gift to the College of Medicine and Fletcher Allen in his name. The donor was a former patient who had a close friend who also had been operated on by Ittleman. The gift, inspired in part by a challenge grant from the Fletcher Allen and College of Medicine Cardiovascular Angel Club, came as a surprise to its self-effacing honoree.

“It could have been anybody,” says Ittleman, waving off any suggestion that his work merits special recognition. “I believe that life is a series of moments, of chances, of opportunities.” Nonetheless, he was “greatly honored” by the recognition.

The funds weren’t earmarked, and Ittleman was asked to direct the gift. Putting aside the Catholic guilt he’d inherited from his Irish mother



Above, the file drawer in the office desk of Professor of Surgery Frank Ittleman, M.D., is literally filled top to bottom with thank-you notes from grateful patients who have written him over the course of many years of practice. He returns handwritten replies. Below, a still life from the office of a committed cardiovascular surgeon whose heart remains in Yankee Stadium.



(“Do I deserve my name being on this gift?”), Ittleman decided to put it into a professorship, with an eye toward perpetuity. In October the surgery faculty contributed another \$1 million toward the ultimate goal of making the professorship a fully endowed chair.

“Having an endowed chair in cardiac surgery is a sign of vitality, of robustness, of a potential for growth and that we have our sights on the future,” he says. “If you can leave something that will help sustain this institution through good times but — more importantly — through bad times, then they have done a tremendous service,” he says of the donor. “My name, no name — it’s an important legacy.” The modesty does not sound forced.

Medicine has been a part of Ittleman’s life from the very beginning. His father was a mid-century general practitioner whose office in their home in Great Neck, N.Y., on Long Island, was lined with dark wood cabinets and housed an x-ray machine. As was customary at the time, he also made house calls, tools stashed in his classic black leather bag, and while he was out, the teenaged Ittleman would often bring friends over to admire the cat’s skull and a fetus in formaldehyde his father kept on glass shelves. “Let’s go see the baby in the bottle!” they’d reportedly say, and Ittleman felt “like the prince because I could show them all these little secrets.” He knew, even then, that he would be a doctor too, though he didn’t think he had the wherewithal to be a “real” doctor like his father.

At Dartmouth College, however, Ittleman chose to major in English and took an admittedly laissez-faire approach to academics. Fortunately, he had the foresight to squeeze in pre-med courses. He got into medical school, he says, “by the skin of my teeth,” and followed in his father’s footsteps to the University of Cincinnati College of Medicine, where he worked diligently to get back on track.

When it came time to match for his residency, Ittleman looked to return to New England, noting on his UVM

application that he was a “diamond in the rough.” He arrived in Burlington in 1972 as a “very green” intern and completed a rotation with Laurence Coffin, M.D., then head of cardiac surgery, and his colleague, James Demeules, M.D. He was instantly enamored of the men and their specialty. The two, in turn, took the new doctor under their collective wing.

Ittleman describes Drs. Coffin and Demeules as the “perfect yin and yang” of resident training. “They really showed me the two sides of what it takes to be a surgeon,” he says. Coffin was a meticulous and detailed planner, while Demeules move more instinctively, exploring hunches and finding new ways to improve. Together, they had a huge influence on Ittleman’s residency years at UVM and the then Medical Center Hospital of Vermont.

Telling him there was a “big, bad world of cardiac surgeons who were going to tear [him] apart,” Ittleman’s mentors sent him off to start a fellowship with the surgeon who, years before, had mentored both of them: Jay Ankeney, M.D., at Case Western Reserve in Cleveland. This stage of training at an institution much larger than any he’d experienced before proved something of a shock to Ittleman. After two years he was asked to join the staff, but hesitated. At an institution the size of Case he felt insignificant, and he bemoaned the fact that no one seemed to care where he was from or what he was like, only that he do the job right every time.

A well-timed letter from Louise Hamill, then director of UVM’s residency program, offered a blanket apology and a kick in the pants: “We baby you guys — you in particular — and we probably took away something we shouldn’t have,” Hamill wrote. “We took away your resilience and made you think you might be invulnerable.” It was, says Ittleman, the best advice he could get at that moment, and he went to work the next day convinced anew that he was fully capable of doing the job well. He spent another year in Cleveland before being invited to return to UVM to take the place of the ailing Demeules. He admits he dithered

so long over arriving at an answer that Ankeney finally called a meeting to ask point-blank whether he was staying in Cleveland or leaving. Only then did Ittleman realize how much he wanted to return to Vermont, where he knew there was the potential for him to be a “man among equals” and help the cardiothoracic program grow.

Daniel Raabe, Jr., M.D., a cardiologist now practicing at Porter Medical Center but a Fletcher Allen staff member until 2008, says that before Ittleman arrived, cardiac patients were routinely being sent to Boston and New York — and sometimes even to a specialist of last resort in Milwaukee. But within six months of Ittleman’s arrival they were able to stop sending patients away since it “became obvious he could handle them.” Today Raabe routinely refers his own patients to Ittleman.

■ IT WAS OBVIOUS TO ME THAT THIS WAS A SPECIAL PERSON RIGHT OFF.... HE WAS MUCH MORE HELPFUL THAN MOST INTERNS BECAUSE HE WAS SO PERCEPTIVE — HE WAS OBSERVANT AND HE WAS CAREFUL. ■

— Martin Koplewitz, M.D.’52, Associate Professor of Surgery Emeritus

■ At the Medical Center Hospital, Ittleman met his future wife, Elaine, in the ICU, where she was a nurse. She later took time off to raise the couple’s three children, Kate (UVM’06), Ben, and Patrick (UVM’12). Though none of them are



surgeons — yet — Kate has a master's in public health and Ben is currently in medical school; Patrick is developing an acting career. Elaine recently renewed her nursing license and found work in labor and delivery after recognizing that her husband was not planning to retire anytime soon. For his part, Ittleman, who has conducted somewhere in the range of 8,000–9,000 open heart procedures, thinks that hitting the 10,000 mark would make a nice swan song.

That might take a while, since the pace of surgery has changed: whereas once a day's work would allow time to conduct two or three procedures, now he's more likely to undertake only one, occasionally two. That's partly because the face of the practice has changed — Ittleman says his early career coincided with the huge increase in the numbers of cardiac surgeries taking place as newly developed procedures allowed more and more heart conditions to be surgically corrected. This kept him extraordinarily busy. Today's surgical caseload includes more time-consuming hybrid procedures between cardiology and cardiothoracic surgery. One such example is the transcatheter aortic valve replacement program, in which the aortic valve is replaced through a catheter-based procedure, with cardiologist

and surgeon working “elbow to elbow,” explains Ittleman's colleague, cardiologist William Hopkins, M.D. Although the hybrid approaches are a small but growing percentage of the roughly 2,000-plus combined annual percutaneous coronary interventions and open-heart surgeries performed by Fletcher Allen's cardiology and cardiothoracic surgery divisions, says Hopkins, they're being done on very sick patients who are at greatest risk of complications, and call for exceptional levels of cooperation on both sides.

In all surgeries, Ittleman says, the key is good decision making, adding that often the most important question is posed before surgery: whether to forgo it if the benefits don't outweigh the risks.

“The quality of survival is what we have to be in tune with,” he says. “Do the benefits outweigh the risks for the patient. The older I get, the more I'd like to think I show good judgment. I'm swayed by patients, families, circumstances. That's part of the physician's life. You can't base everything on science; everything is not black and white — much of what we do is gray. The only true answer is retrospection.”

One of Ittleman's three division colleagues, Mitchell Norotsky, M.D.'89, sees that routinely.

“Frank is an extremely compassionate health-care provider,” he says. “He is determined to get his patients a good outcome, and he can be incredibly honest and hard on himself.”

To Ittleman, surgery is artistry, with an operation “a canvas or a piece of clay or marble. You start with an idea and you go through the steps, and when your composition is done, you have to stand by it,” he says. “When you finish, that patient has your imprint. That's your creation, and you hope it works. But it doesn't always. And there's sadness and frustration, exhilaration and all the things that go with something that you are intimately and passionately involved in.”

Ittleman is careful to express respect for the sanctity of the human heart, observing that regardless of their degree of medical knowledge, people “look at their heart as being a very spiritual and vital structure.” He recalls a late-night surgery with Demeules during which talk turned to the idea of the human soul.

“He was hell-bent on getting an answer to where the soul lives,” says Ittleman, admitting he didn't have one. “But I was pretty convinced that it might be in that left ventricle — that well-protected, thick-walled, constantly pumping chamber.”

Considering cardiac surgery, he says, brings doctor and patient to a unique level of intimacy. Some of his patients have even sought him out much later to discuss issues that are seemingly unrelated to cardiac health, asking his advice on broad-ranging mental health questions and even marital and parenting concerns. And as a one-time cardiology patient himself, Ittleman recognizes the vulnerability that comes with the territory. *[Ed. note: See Dr. Ittleman's essay that deals with this event on page 25.]*

Having the privilege of working on a patient's most vital organ can open a special relationship between the surgeon and patient. “It makes you more amenable to listening and talking and being truthful and facing things,” he says. “It's an

▲ I'M SWAYED BY PATIENTS, FAMILIES, CIRCUMSTANCES. THAT'S PART OF THE PHYSICIAN'S LIFE. YOU CAN'T BASE EVERYTHING ON SCIENCE; EVERYTHING IS NOT BLACK AND WHITE — MUCH OF WHAT WE DO IS GRAY. THE ONLY TRUE ANSWER IS RETROSPECTION. ▼

— Frank Ittleman, M.D.  
Professor of Surgery



Frank Ittleman, M.D., on morning rounds at Fletcher Allen Health Care with resident Fuyiki Hirashima, M.D.



interesting two-way street: patients can make you a much better person.”

It’s common knowledge among his colleagues and many of his patients that Ittleman was an English major — more than one suggested that the cardiothoracic surgery world’s loss would have been some English department’s gain if he’d elected to go the professorial route.

“He’s a very quiet but very efficient teacher,” says Norotsky, mentioning specifically Ittleman’s skill in teaching surgical technique one-on-one. Norotsky was attracted to the cardiothoracic team after meeting Ittleman through pick-up basketball games while a UVM medical student. The games were something

Ittleman had set up onsite for medical students and residents — Ittleman laughingly describes the games as “vicious,” adding that as the attending he was easily the oldest player and, before long, was relegated to the sidelines as coach, allowed back to take a few shots at the end only if the game was “salted away” — and are an example of the kinds of extracurricular activities Ittleman has contributed throughout the years. Ittleman would regularly rent out Twin Oaks, a gym in South Burlington, so residents and medical students could enjoy an evening of basketball; other times, he’d provide Chinese food or pizza for nurses and on-call residents.

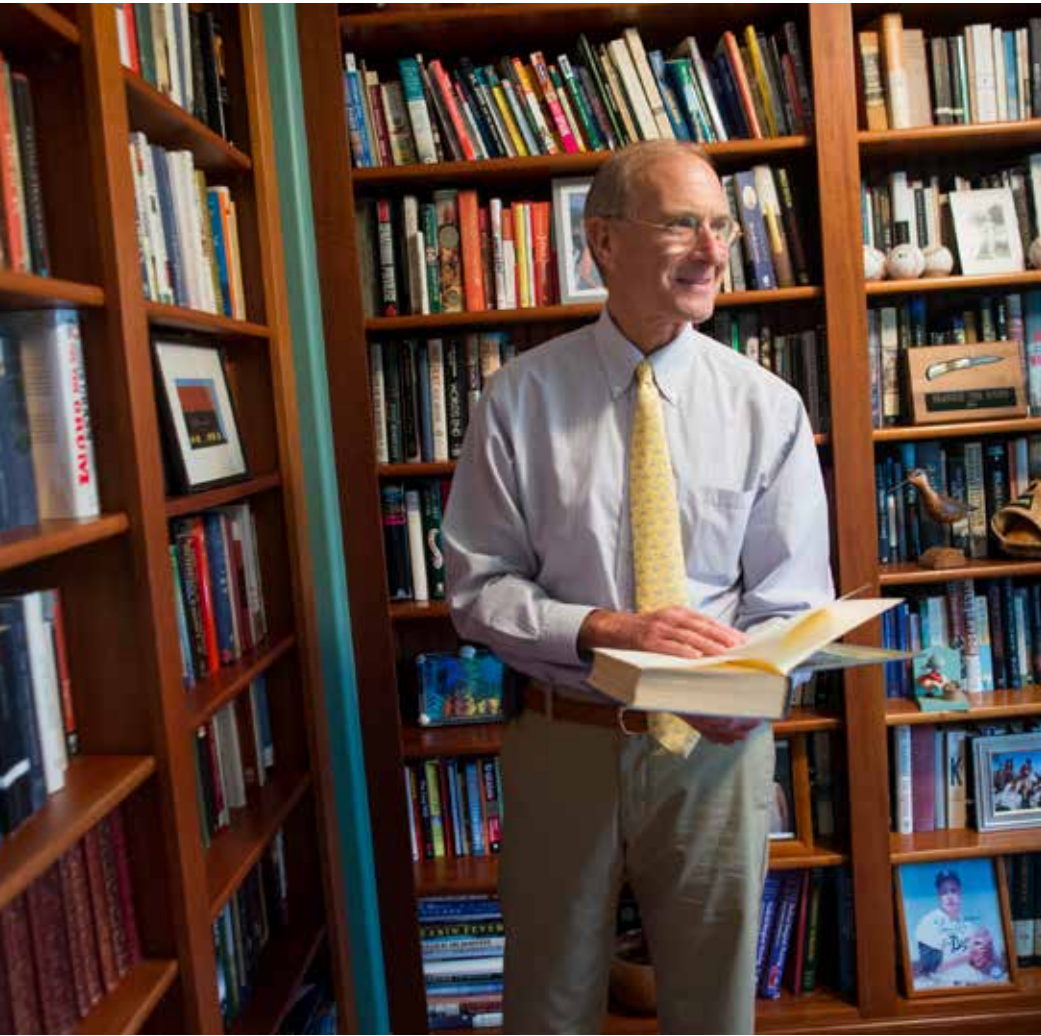
“He just quietly did all these things that fly under the radar,” says Norotsky.

The basketball games also gave Ittleman a tangential excuse to write, putting together the occasional basketball-related newsletter for “the guys.” That segued into a request by Steven Shackford, M.D., then chair of surgery, that Ittleman edit a surgical newsletter and write a regular last-page column they agreed would be called “Let’s Close,” in the parlance of the operating room. Initially the pieces were related to surgery, but over time, Ittleman wrote about his father’s practice, his family — even the hospital’s painters. [Two Ittleman essays appeared in the Summer 2007 *Vermont Medicine*.] He’s still known for his writing, says Norotsky, noting the routine letters to referring physicians and patients he’s discharged, as well as difficult but thoughtful notes to families of patients who have died.

Ittleman remains an avid reader, and recently has been working his way through Hemingway and Fitzgerald again, with an appreciation of the changed perspective on their work wrought by time. He’s established a library with floor-to-ceiling shelves in his Charlotte home, and his children know that a book is more than acceptable as a birthday gift. Ittleman admits to finding pleasure in mindless work — the moving of woodpiles and picking up of roadside garbage — and says it’s not uncommon for him to go home from work and clean the kitchen before doing anything else. A 2:45 marathoner — more than once at Boston — he doesn’t have as much time for running these days, but looks forward to the solace when he is able to get out, using that time to consider conversations or write speeches and presentations.

A patient once told Ittleman’s mother that talking to his father was like talking to a priest, only better. That emotional commitment, says Ittleman, is the part of medicine that he thought could be so satisfying, and indeed has been.

“I’d like to be considered a physician and a humanist,” he says. “They’re inseparable — or they should be. Physicians can do so much more than provide medical care. That’s the mother lode.” **VM**



A former English major who also took a full slate of science courses at Dartmouth, Frank Ittleman, M.D., is still a constant reader, as evidenced by the floor-to-ceiling bookcases in his home.

*Prof. Ittleman has written many essays over the years to share with his colleagues in the pages of the Department of Surgery newsletter. He reflects in this piece on a recent personal event that made him appreciate even more the gift of life, and the generosity of the anonymous donor who began the funding of the Ittleman Professorship.*

# THE GIFT

**I SHOULD HAVE DIED THAT DAY**, as difficult as it is for me, even now, to recall that bleak prospect. It was late August of last year. The morning began innocuously enough, cool and inviting with mist rising from the pond to the east as the earth slowly began to give up its summer heat. There was a brief scent of the coming fall in the air that vanished as the sun appeared and pushed the pale moon aside. It was, without a doubt, a perfect day for running.

The first few miles seemed like every other day, slow and methodical, with the emphasis on slow. Being on the road, in the early morning quiet, alone with my thoughts was enough of a gift. As I descended the hill that I had climbed hundreds of times before, with my home in sight, but not quite near enough, something terrible happened. I stopped abruptly, like a horse balking at a jump, not because I willed this refusal, but because I simply could not go another step. I bent over, feeling very out of sorts, not willing to lie down because that primal act of capitulation would have made this moment far more serious than I wanted it to be. Instinctively, I felt my pulse, as my usually reliable heart had a history of wayward flutterings. Thready has always been a somewhat amorphous word for me, but, in this precarious instance, it took on an ominous clarity. My pulse was less than thready; in truth, it was barely there at all.

With this information at hand, whatever sense I might have possessed was overtaken by instinct tinged with fear. I decided to resume my sojourn home because that is where this perfect day for running was supposed to end. Being an unrepentant creature of habit can be a very dangerous trait. As a young boy playing sports, any injury was greeted with a “walk it off” directive, but as a scared older man, the only walk that I could muster was a tentative one, at best.

Once home, there were calls for help, instructions to “hold on” and “lie down” and the passage of minutes that seemed to extend to hours, as I witnessed my life slowly slipping away. There was no epiphany or panic, only an overwhelming sense of helplessness. I could not reconcile giving up, against my will, what was so very dear to me, as if I had any control over matters of such divine randomness.

While I waited, my only companion was our dog, Nimey, who had absolutely no idea what was going on. Despite my protestations, she insisted on licking my face, not to revive or console, but to coax me to open the back door so that she could exit and pee outside. Here I am losing ground by the second and my dog, God bless her, was more concerned about keeping the carpet clean. I remembered my days watching Lassie and I thought of sending Nimey for help, but I knew that such a command would only be met with silent, pleading glances.



As I weakened, I resisted closing my eyes because I feared that I might never see light again. It was at this moment that help finally arrived. What followed was reminiscent of a dark comedy of errors. The rescue squad had not been summoned for me, but rather for an unknown man to whom I was supposed to be administering care. The rescuers were milling about outside, talking among themselves, while the real patient (and doctor), one and the same, was inside, neither seen nor heard. My fear now turned to resignation infused with sadness as the gods who, in their quest to direct this drama, had brought the actors so close, yet with such deliberate callousness had decided to keep us apart. I tried to stand so as to be visible through the windows, but gravity trumped my already questionable circulation and I landed back on my rump. With no other options available, I crawled to the back door, kicked it open unceremoniously and screamed my last scream as the men in blue suits came running.

Once ensconced in the ambulance, my friend from the rescue squad determined that my heart was in need of a bit of electrical discipline. Deferentially, he asked how many joules would I like, and, in my best Ronald Reagan imitation, I retorted, “Your choice, but I just hope you’re a good Republican.” (I only wish I had been that clever.) I was not prepared for the pain, but it was brief and as my body fell back to the gurney, I was already in a more serene rhythm. I should have died that day, but I didn’t and this past year has been a gift.

Our lives are replete with gifts, some earned and deserved, some random and without design. Inherent in my existential trial of helpless despair and my reprieve from that uncertainty, was a gift of randomness and happenstance. Neither earned nor deserved, but appreciated just the same. A gift without a giver, but not without a debt incurred. Most gifts ask for nothing more than “thank you,” an acknowledgment of ones generosity and thoughtfulness. Others beg for far more, an unwritten obligation to prove your worthiness, to justify the respect and expectations implicit in the gift.

I received not one, but two such gifts this past year. One gave me back my life while the other, an anonymous gift from a grateful patient, made me examine that life as I have lived it and as I will live it in the future. The latter has not been as Robert Frost once wrote, “a gift outright,” but rather one viewed with a dose of humility, a touch of joy, a glimpse of legitimacy, and a welcome burden of expectation.

I should have died that day, but I didn’t and I still do not quite understand why. Maybe, just maybe, I still have a debt that I very much want to repay in more than full.

— FRANK ITTLEMAN, M.D.



# departments & centers

Brief reports on the activities of the basic science and clinical departments and major centers at the College of Medicine in fiscal year 2013

The Robert H. and Cynthia K. Hoehl Gallery

## Anesthesiology

David Adams, M.D., Interim Chair

**A**fter 16 years as chairman of our department, Howard Schapiro, M.D., was named interim president, UVM Medical Group, Fletcher Allen Health Care, and senior associate dean of clinical affairs at the College of Medicine in February. David Adams, M.D., departmental vice-chair and associate dean for graduate medical education, is now serving as interim chair.

This past March, J. Christian Abajian, M.D., was presented with the Robert M. Smith Award by the Section of Anesthesia and Pain Medicine, a part of the American Academy of Pediatrics. The award is given each year to a physician who has contributed to the advancement of the field of pediatric anesthesiology. After completing undergraduate education and medical school at UVM, residency training in London, and fellowship in Toronto, Dr. Abajian began his practice here in 1974. By his count, he has helped train more than 250 residents. He also started keeping notes when he gave spinal anesthesia to infants, a clinical "sideline" that grew to become the Vermont Infant Spinal Registry. This unique database of more than 2,500 cases has sparked a number of studies, including a project by Robert Williams, M.D., and colleagues that compared the achievement test scores of children who had surgery with spinal anesthesia against the rest of the school-age population in Vermont. An abstract of this study won the best of category award in pediatric anesthesiology at the recent International Anesthesia Research Society annual meeting.



Professor J. Christian Abajian, M.D., with a young patient. Dr. Abajian was presented with the Robert M. Smith Award this year by the Section of Anesthesia and Pain Medicine, a part of the American Academy of Pediatrics.

This study, which is nearing publication, will be an important contribution to the understanding of whether general anesthetics given during

infant surgery are potentially harmful to the developing brain.

Donald Mathews, M.D. is testing a non-invasive monitoring device by Masimo on patients in the recovery room that aggregates data from five physiologic parameters into one index. This index represents the patient's current and trending recovery status, giving physicians a window on the pattern of recovery in patients following surgery and perhaps identifying early-warning signs of subsequent postoperative complications. The department has recruited more than 250 subjects for this study, and Fletcher Allen plans to install this system in its intensive care units and some nursing floors.

### SELECTED HIGHLIGHTS

- Anesthesiology faculty published research in the *American Journal of Surgery*, *Anesthesia and Analgesia*, *Anesthesiology*, the *Journal of Education in Perioperative Medicine*, and *Surgery*.
- A number of faculty hold editorial positions on medical journals: Donald Mathews, M.D. is on the editorial boards of the *British Journal of Anesthesia* and the *Survey of Anesthesiology*; Patrick Bender, M.D. is a reviewer for *Critical Care Medicine* and the *Journal of Critical Care*; Christopher Viscomi, M.D. is an associate editor

of *Regional Anesthesia and Pain Medicine* and a guest reviewer of *Obstetrics and Gynecology*; and Christopher Chase, M.D. is on the editorial board of *Medical Acupuncture Journal*.

- Assistant Professor Francisco Grinberg, M.D. is a member of the Board of Directors of the American Society of Anesthesiologists.
- Professor Donald Mathews, M.D., is a member of the Board of Directors and Chair of the Research Committee of the Society for Ambulatory Anesthesia.





Professor Christopher Francklyn, Ph.D., helped to develop a cancer biology course this year that engaged basic science and clinical faculty as lecturers.

The Department of Biochemistry has made valued and recognized contributions that are aligned with the shared complementary visions of the College of Medicine, the University and Fletcher Allen Health Care in biomedical research, education and service. The Biochemistry faculty embrace a culture of transdisciplinary collaborations that transcend traditional boundaries in undergraduate, graduate and medical teaching and in pursuit of research through collaborative team approaches that combine biochemical, molecular, cellular, *in vivo* genetic, epigenetic, genomic, proteomic and bioinformatic strategies. Emphasis is on pursuit of regulatory mechanisms in the context of applications through translation to resolution of clinically relevant problems. Engagement in service and outreach to the university, the community and beyond is a priority for the Biochemistry faculty, students and staff.

Increased and expanded capabilities through recruitment of well-credentialed faculty, students and postdoctoral/clinical fellows has positioned the Department of Biochemistry to make transformative advances in the biology and treatment of cancer and cardiovascular disease. Partnerships of our Biochemistry scientists with physician investigators have

identified molecular defects in cancer cells that provide a roadmap for: identifying regulatory pathways that govern cell cycle control to selectively target tumors; inhibiting tumor vascularization as a pivotal strategy to contain tumors; preventing breast and prostate cancer metastasis to bone; discovering non-coding RNAs that are obligatory for the onset and progression of cancer and establishing epigenetic signatures for risk assessment and treatment of solid tumors and leukemias. Equally relevant, our prominent coagulation/ cardiovascular investigators have made pivotal discoveries in regulatory pathways that are critical for the biology and pathology of clotting.

The Biochemistry Department commitment to education is reflected by the leadership of Paula Tracy, Ph.D., as Foundations Director for Medical Education and Stephen Everse, Ph.D.'s responsibilities as Director for the Cellular and Molecular Biology component of the first year medical school curriculum. Janet Stein, Ph.D., has been instrumental in oversight of the new Cellular and Molecular Biology Graduate Program. Christopher Francklyn, Ph.D., partnered with Alan Howe, Ph.D. [of the Department of Pharmacology], to develop a cancer biology course that engaged

### SELECTED HIGHLIGHTS

- Biochemistry faculty serve on and chair several NIH study sections and are members of scientific advisory boards for funding agencies, foundations and biomedical/pharmaceutical companies in the United States and abroad.
- Outreach initiatives of the Biochemistry Department include active participation in a K–12 science education program and prominent involvement in fundraising and advocacy for cancer and cardiovascular disease.

basic science and clinical faculty as lecturers, attracting undergraduate, graduate and post-graduate students from both the College of Medicine and the University.

Distinction in biomedical research is reflected by high-impact peer-reviewed research papers that were published in the past year; extramural funding for research programs from NIH and the private sector; invited presentations at major national and international meetings and recognition for excellence in mentorship.

There were multiple highlights for the Department of Family Medicine in 2012–2013. Newer faculty include Sahmon Fallahian, M.D., Sarah Hudson, M.D., Aaron Reiter, M.D., and Patricia Fisher, M.D., who bring expertise in wilderness medicine, global health, and health care for the underserved.

Department faculty with new roles include John King, M.D., as regional director for family medicine academics and development, Laura McCray, M.D., as residency director, and Alicia Jacobs, M.D., as vice-chair for clinical operations.

Among notable faculty events was the retirement of Berta Geller, Ph.D., as research professor and distinguished researcher at the Office of Health Promotion Research. Associate Professor John Ferguson, M.D., also retired.

Faculty and staff supported the community through activities such as free clinics, wilderness rescue, boards and foundation service, and invited lectures and articles on topics from lactation to palliative medicine. Five clinical practices — Milton, Berlin, South Burlington, Hinesburg and Colchester — have maintained National Committee for Quality Assurance Level 3 recognition as patient-centered medical homes.

The family medicine medical student education programs are thriving and continue to receive excellent evaluations from students. Faculty are course directors at all levels of the curriculum including Charlotte Reback, M.D., as

director of Generations, Karen Burke, M.D., director of the Cultural Day Workshop, Cate Nicholas, Ed.D., M.S., P.A., director of operations of the Clinical Simulation Laboratory and co-director of Doctoring Skills; Candace Fraser, M.D., clerkship director, Martha Seagrave, PA-C, director of medical student education programs and the TOPMed curriculum, Eileen CichoskiKelly, Ph.D., director of educational instruction and scholarship, and director of the Teaching and Scholarly Requirement Course, and Anya Koutras, MD, as director of Family Medicine fourth-year programs.

The Family Medicine Clerkship, under the leadership of Candace Fraser, M.D., was the highest-rated clerkship across all sites by clerkship students for 2012–2013.

Family Medicine is developing and rolling out the TOPMed curriculum in collaboration with other key faculty at the College. TOPMed is a longitudinal, progressive curriculum providing students with the knowledge, skills, and attitudes necessary to provide excellent care to all individuals and families in the changing healthcare landscape.

The restructuring of the clerkship and our affiliations with Danbury Hospital and Eastern Maine Medical Center have afforded the department opportunities for innovation and enhanced curricular elements.

2013 was a near record year of fourth-year students achieving family medicine residencies.

The Family Medicine residency program thrives with record applicant numbers, innovative curriculum, and commitment to rural and underserved health, patient-centered medical home development, and community medicine.

The Department provides leadership for Primary Care Week and Palliative Care Week. Continuing medical education efforts include the 39th Annual Family Medicine Review Course, the 12th Annual Cultural Awareness Workshop, a biannual Sports Medicine Conference, regional continuing medical education and academic detailing presentations, and participation in the annual Bridging the Divide collaborative care conference.

Faculty scholarship is expanding with projects in community medicine breast and ovarian cancer screening, patient education using media and graphical decision aids, lactation education, behavioral motivation for self-care of chronic conditions, lead screening, and prevention of health professional fatigue and error. Faculty have been active in research, advocacy, editorial work on a national publication, and international and national medical service to disadvantaged and underserved populations.

### SELECTED HIGHLIGHTS

- Family Medicine Practices all help “transform primary care” by creating idealized patient encounters and facilitating office-based medical education.
- Family Medicine faculty receiving recognition this year include Marga Sproul, M.D., Emeritus Associate Professor, as Faculty Marshal; David Little, M.D., as the Faculty Teacher of the Year; Nellie Wirsing, M.D., as Residency Preceptor of the Year; Family Medicine residency graduates Joyce Dobberty, M.D., and Omar Khan, M.D., were honored as College of Medicine Recent Alumni of the Year, and Cate Nicholas, Ed.D., M.S., P.A., received the 2013 College of Medicine Dignity in Medicine Award.
- The Family Medicine Clerkship was selected by medical students as the Best Clerkship across all sites.



Amy McGettrick, M.D.'10 and Assistant Professor of Family Medicine Timothy Lishnak, M.D., visiting with a patient at the Green Mountain Nursing Home in Colchester, Vt.



# DEPARTMENT OF Medicine

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

The Department of Medicine continues to be a nationally/internationally recognized leader in research. 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 were invited to present at scientific meetings around the world, served as visiting professors, and were elected to leadership in national societies.

Despite the challenges facing research funding, the faculty continue to find creative ways to lead and succeed in their fields. The Department expanded two research funding programs and developed a third. The departmental bridge funding program is now more substantial and rigorous with aligned metrics to enhance investigators' success. The Translational Award program, designed to foster innovation and new collaborations, was launched, with its first grants awarded to Anne Dixon, M.D., Oliver Dienz, Ph.D., and Michael Toth, Ph.D. SPARK VT was the new research initiative started this year, with the goal of translating novel ideals into therapies, diagnostics, and devices that will improve health. With the help of an exceptional panel of community consultants, the first two awards went to Renee Stapleton,



Professor Jan Carney, M.D., seen here speaking at a Student Public Health Project Poster Session, developed a Graduate Certificate in Public Health Program this year that will benefit medical students and many others in health care.

M.D. and Benjamin Suratt, M.D., and to Markus Meyer, Ph.D.

This year the entire Department contributed to the enhancement of medical student and resident education. Several enhancements were made to clerkships at Fletcher Allen Health Care and at partner sites in Danbury, West Palm Beach and Eastern Maine. In addition, Jan Carney, M.D., developed a Certificate in Public Health Program that will benefit medical students and many others in health care. The residency program increased in size to 42 categorical residents, nine preliminary residents and three chief residents. With this increase came also a successful transition to a new model, called "4+1," that separates outpatient and inpatient rotations and allows for novel educational initiatives, including a High Value Cost Conscious Care Curriculum. The faculty continued to participate extensively in the VIC curriculum and again received a number of honors and awards for their contributions to education. [See "Class Awards" on page 64] This year's recipient of the Department of Medicine Mentor Award was David Schneider, M.D.

The Department expanded its clinical practice in 2013 and focused on providing a

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## SELECTED HIGHLIGHTS

- Faculty published in such journals as *The New England Journal of Medicine*, *Journal of the American College of Cardiology*, *Annals of Oncology*, *Circulation*, and *The American Journal of Respiratory Cell and Molecular Biology*.
- Grants to support research by department members came from organizations including the National Institute of General Medical Sciences, the Bill and Melinda Gates Foundation, and the National Heart, Lung and Blood Institute.
- Beth Kirkpatrick, M.D. received the Bailey K. Ashford Medal for distinguished work in Tropical Medicine, and Virginia Hood, M.B.B.S., was the recipient of the Vermont Medical Society Distinguished Service Award for 2012.

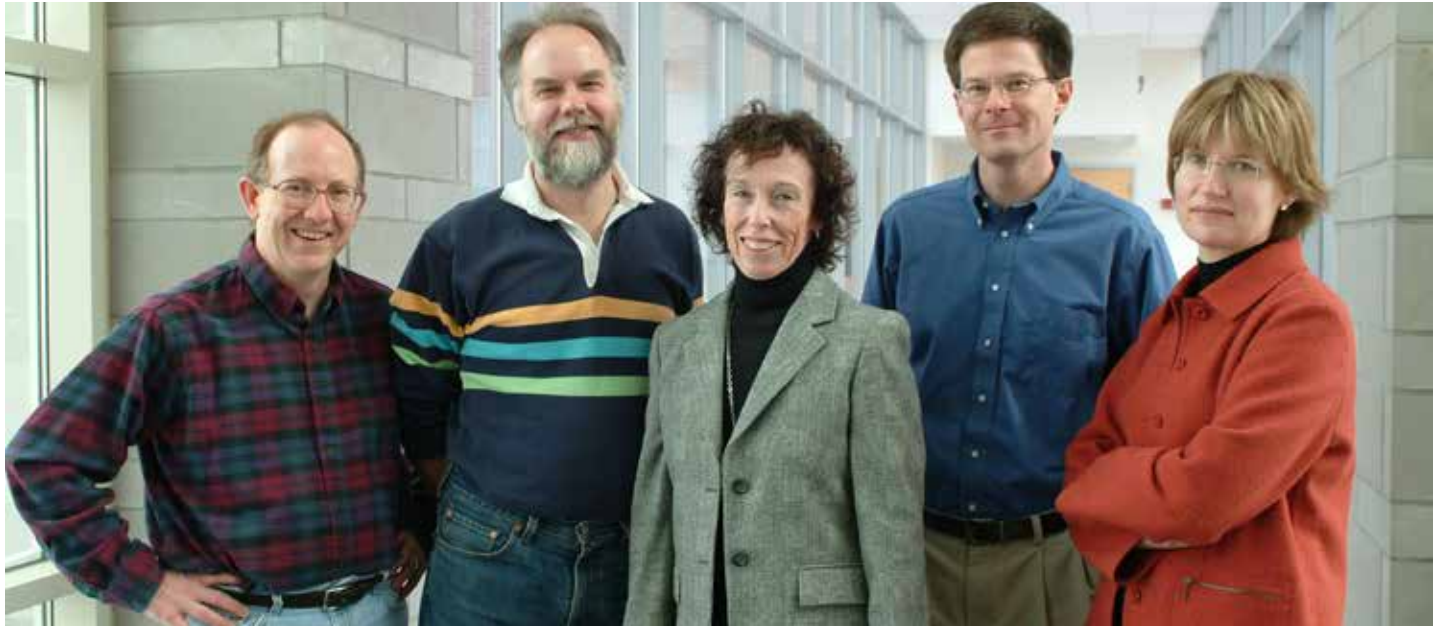
high-value cost-conscious care modeled after the national program called "Choosing Wisely." New clinical programs this year included the opening of a motility center and esophageal pH laboratory, expansion of the Oncology Rehabilitation program, telemedicine ICU palliative care consultation, and expansion of the use of ultrasound in rheumatology. The HIV Comprehensive Care Clinic Program directed by Dr. Christopher Grace celebrated its 25th anniversary. The primary care internal medicine (PCIM) faculty continued to be actively engaged in the transformation of primary care; working with Joel Schnure, M.D., and his colleagues in endocrinology they enacted the Diabetes Care Pathway to further the integration of PCIM and subspecialty medicine. The initial Choosing Wisely initiatives included a focus on testing in patients with chronic kidney disease, indications for colonoscopy and for rheumatologic testing. Results were presented both regionally and nationally and have already led to improvements in patient care and cost savings. Working with our partner institutions, Dr. Schneider began to extend the quality assurance programs in cardiovascular disease across our network. These programs have helped the department lead the way for enhancing patient care in alignment with ongoing health care reform.

# DEPARTMENT OF

# Microbiology and Molecular Genetics

Susan S. Wallace, Ph.D., Chair

# 13 ANNUAL REPORT



Members of the collaborative Department of Microbiology and Molecular Genetics faculty include, from left, Scott Morrical, Ph.D., Jeffrey Bond, Ph.D., Susan Wallace, Ph.D., and Sylvie Doublé, Ph.D. (in red). With them is their colleague, Professor of Molecular Physiology and Biophysics Mark Rould, Ph.D., (in blue).

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 24 doctoral students, teaches medical students in the

## SELECTED HIGHLIGHTS

- MMG faculty members published in such journals as *Neuropsychopharmacology*, *PLoS Pathog*, *Structure*, *Proceedings of the National Academy of Science USA*, *Journal of Virology*, *Journal of the American Medical Association*, *Infection and Immunity*, and *PLoS One*.
- Faculty research was supported by such organizations as the National Cancer Institute, the Pew Charitable Trusts, and the National Institute of Allergy and Infectious Diseases.
- Professor and Chair Susan Wallace, Ph.D., received the 2012 Environmental Mutagen Society Award at the Society's 43rd Annual Meeting, held in Bellevue, Washington in September 2012.

Vermont Integrated Curriculum and offers two undergraduate degrees — one in Microbiology and the other in Molecular Genetics — with a total of 80 undergraduate 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 Bioinformatics, which has a growing group of faculty whose work underpins, interfaces with, and supports the research of the bench scientists in the Department and the College.

This year MMG faculty published over 60 papers in high profile journals including several in *PLoS*, the *Proceedings of the National Academy of Sciences*, *Infection and Immunity*, *Human Genetics*, *Molecular Microbiology*, and *Structure*, to cite a few. Faculty members gave 35 presentations at national and international meetings and at universities all over the world. For example, Markus Thali, Ph.D., was an invited

speaker and Session Chair at the 5th European Tetraspanin Meeting in The Netherlands, Sylvie Doublé, Ph.D., was speaker and Session Chair at the FASEB Nucleic Acid Enzymes summer conference and Aimee Shen, Ph.D., was an invited speaker at the Gordon Conference on Proteolytic Enzymes and their Inhibitors in Il Ciocco, Italy. Dr. Shen was also an invited speaker and session chair at a meeting on *Clostridium difficile* infections held in Galveston, Texas. MMG faculty also serve as frequent *ad hoc* reviewers on National Institutes of Health and National Science Foundation panels; Dr. Thali is a permanent member of the AIDS Molecular and Cellular Biology Study Section, while Dr. Doublé frequently serves on the Molecular Genetics A Study Section. Dr. Doublé was also honored by being chosen as an outstanding alumna of UNC Chapel Hill and spoke at their reunion. Gary Ward, Ph.D., is chair of the Board of Directors of the Public Library of Science in Washington. John Burke, Ph.D., was a guest on Vermont Edition on Vermont Public Radio in January, talking about science and race. Dr. Burke was also a co-presenter on the same topic at the ECHO Lake Aquarium and Science Center in Burlington.



# Molecular Physiology & Biophysics

David Warshaw, Ph.D.'79, Chair

13

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 3-dimensional electron microscopy.

The Department faculty is involved with two highly prestigious National Institutes of Health 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, Univ. of Cincinnati, UTSouthwestern, and UPenn). Yusuf Ali, Ph.D., received an American Heart Association Scientist Development Grant. During this fiscally challenging time, the Department continues to compete effectively for limited extramural funds, with all tenure-track faculty being funded.

Faculty have been honored as invited speakers at prestigious international meetings including Jason Stumpff, Ph.D., who was an invited to the Dynamic Kinetochore Workshop in Porto, Portugal. David Warshaw, Ph.D., spoke at the Forces in Biology conference in Dublin, Ireland. Teresa Ruiz, Ph.D., was honored for her expertise in structural biology by chairing the Microscopy Society's Microscopy & Microanalysis 2013 Meeting in Indianapolis, Ind., while Dr. Ruiz, Michael Radermacher, Ph.D., and Matthew Lord, Ph.D., organized symposia at the Microscopy & Microanalysis 2013 Meeting as well. Both Drs. Ruiz and Radermacher organized a workshop and taught at the Microscopical Society of America meetings in Phoenix, Ariz.



In 2013, her 40th year in the faculty, Professor Emeritus Edith Hendley, Ph.D., donated her two unique strains of rat models to the national Rat Research and Resource Center, where the lines will be preserved and made available to future researchers.

and Indianapolis, Ind. Faculty members play key service roles on review panels for the NIH and National Science Foundation. A very prestigious honor bestowed on Dr. Radermacher was his being named a Fellow of the Microscopy Society of America.

In education, faculty contribute substantially to both medical and graduate

programs and have been nominated for teaching awards in the medical school curriculum. Christopher Berger, Ph.D., 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.

## SELECTED HIGHLIGHTS

- The faculty published 35 articles in prestigious journals such as *Science*, *Nature Structural and Molecular Biology*, *Proceedings of the National Academy of Science*, *Developmental Cell*, *Molecular Biology of the Cell*, *Journal of Structural Biology*, and *Circulation Research* as well as serving on editorial boards for several journals.
- Drs. Radermacher and Ruiz once again held a "Practical Course on Three-dimensional Cryo

Electron Microscopy of Single Particles" at the College that attracted over 20 international scientists.

- Faculty served on study sections for the National Institute of Neurological Disorders and Stroke, the National Center for Microscopy and Imaging Research, the National Institutes of Health Program Project Grant Review Committee, and the National Science Foundation Cytoskeleton and Cell Division Review Panel.

# Neurological Sciences

Gregory Holmes, M.D., Chair

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On August 1, 2012, the Departments of Neurology and Anatomy & Neurobiology merged to form the Department of Neurological Sciences. This new department was created to bring together basic scientists and clinicians with a shared interest in neuroscience in order to promote translational research and further the research, teaching, and clinical missions of the College of Medicine.

Under the joint leadership of Rodney L. Parsons, Ph.D., and Rup Tandan, M.D., the Department of Neurological Sciences' first year of existence proved at once productive and exciting, culminating with the appointment of Gregory L. Holmes, M.D., as chair of the new Department, effective May 1, 2013.

The Department's basic science faculty continue to seek out grant funding with a strong record of success. The National Institutes of Health Center of Biomedical Research Excellence (COBRE) in Neuroscience, now in its thirteenth year, continued to support two multi-user core facilities as well as a pilot project. Gary Mawe, Ph.D., was awarded a competing renewal of his NIH/NIDDK R01 research project on "Neural excitability and motility in colitis," while Margaret Vizzard, Ph.D., likewise received a competing renewal of her NIH/NIDDK R01 for "Cystitis-induced plasticity of micturition reflexes."

UVM/Fletcher Allen Health Care clinical programs continued to provide excellent neurological care. Clinical faculty contributed to a total of 25 new and ongoing clinical trials. Assistant Professor Angela Applebee, M.D., continued to serve as director of the Multiple Sclerosis Center of New England. In this role she oversaw nine studies and was awarded the 2013 Hillel Panitch Clinical Care Award for her efforts. Professor Robert Shapiro, M.D., Ph.D., co-led the team that identified a mutation linked to migraine in the gene casein kinase 1 delta (CK1δ). This discovery generated significant press attention, including an article in *USA Today* in May, while Dr. Shapiro's contributions to the field of migraine research were recognized by the Headache Cooperative of New England, which awarded him a 2013 Lifetime Achievement Award.

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 2013 Foundation Awards, Assistant Professor Ellen Black, Ph.D., was awarded the Silver Stethoscope Award, presented annually to a faculty member with few lecture hours but who nevertheless made a substantial contribution to medical student education.



Professor Robert Shapiro, M.D., delivers a Community Medical School lecture at the College of Medicine. Dr. Shapiro received the 2013 Lifetime Achievement Award from the Headache Cooperative of New England.

In 2013, Neurological Sciences faculty published in a variety of scientific journals, and served on 27 editorial boards and review committees. Taken together with the success of the Department's clinicians, instructors, and basic scientists, these accomplishments suggest the true breadth of capabilities, experience, and expertise to be found in the newly formed Department of Neurological Sciences.

With the Department's first year drawing to a close, Dr. Holmes would like to take this opportunity to thank Drs. Hamill, Parsons, and Tandan for their service as Chairs and Interim Chairs. Their extraordinary skill and dedication helped to guide the department through a successful first year of existence while pointing the way to a bright and successful future.

## SELECTED HIGHLIGHTS

- New Department Chair Gregory Holmes, M.D., is a pediatric neurologist with clinical and research interests in childhood epilepsy. He previously served as chair of the Department of Neurology at the Geisel School of Medicine at Dartmouth for ten years and as a professor of neurology at Harvard Medical School for sixteen years. He maintains a highly productive research laboratory (with multiple grants and over 350 publication credits to his name) and a strong commitment to his practice and patients.
- Felix Eckenstein, Ph.D., Director of the Summer Neuroscience Research Fellowship (SNURF) program, obtained funding from the National Science Foundation through 2016. Each summer, the SNURF program provides stipend and travel support to a select group of approximately ten undergraduate students, who spend ten weeks engaged in neuroscience research so as to develop a broad view of modern neuroscience and its impact on modern society through intense and intellectually rigorous hands-on work.
- Neurological Sciences faculty published research in such journals as *PLoS One*, *Journal of Cerebral Blood Flow and Metabolism*, *Science Translational Medicine*, *Journal of Neuroscience*, and *Developmental Neurobiology*.



# Obstetrics, Gynecology and Reproductive Sciences

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

The Department had several significant leadership transitions over the last year. Mark Phillippe, M.D., stepped down as chairperson in July 2012 and was replaced by Ira Bernstein, M.D., who now serves as the John Van Sicklen Maeck Professor and Chair. Dr. Phillippe returned to the role of professor of obstetrics, gynecology and reproductive sciences. In August of 2012 Christine Murray, M.D., after many successful years of service, stepped down as the residency program director and was replaced by Elisabeth Wegner, M.D. Dr. Wegner led the program through a successful Residency Review Committee site visit in October which led to a four year reaccreditation.

The medical student clerkship rotations, coordinated by Elise Everett, M.D., greatly improved the clinical experience for medical students. The Department's affiliated site in Florida, St. Mary's Medical Center's Department of Obstetrics and Gynecology, shared the "Best Clerkship of the Year Award" with John Caravello, M.D. as the local program coordinator. Additionally the Obstetrics and Gynecology clerkship at Danbury Hospital was identified as the outstanding local clerkship by the Class of 2014.

Dr. Everett was selected as a participant in the Association of Professors of Gynecology and Obstetrics Academic Scholars and Leaders Program as a member of the 2013–14 class. Dr. Everett is conducting a project on effecting behavior change in faculty to improve medical student education. Her project is titled "Overcoming the barriers of burn-out, buy-in, and overburdened faculty." The Continuing Medical Education program at the College of Medicine and Fletcher Allen Health Care, under the direction of Associate Dean for GME and Associate Professor of Obstetrics, Gynecology and Reproductive Sciences Cheung Wong, M.D., was reaccredited by the Accreditation Council for Graduate Medical Education (ACGME) with "commendation," the highest accreditation level awarded by the ACGME.

This year, Vermont was the highest among the four states, including Oregon, New Hampshire and Maine that received an "A" on the March of Dimes 2012 Premature Birth Report Card issued in mid-November. Vermont was recognized for its low preterm birth rate.

Anne Dougherty, M.D.'09, resident in Obstetrics, Gynecology and Reproductive Sciences '13, and now an assistant professor in the Department, was one of several educators presented with the Arnold P. Gold Foundation Humanism and

Excellence in Teaching Awards by the Class of 2014. Adam Buckley, M.D., recently joined the Department as a faculty member and also serves as the Fletcher Allen chief medical Information officer.



Assistant Professor Elise Everett, M.D., right, presents the "Best Clerkship of the Year Award" to John Caravello, M.D. local program coordinator of the obstetrics and gynecology program at St. Mary's Medical Center in West Palm Beach, one of the Department's affiliated clinical teaching sites.

## SELECTED HIGHLIGHTS

- Department members serve on the NIH Pregnancy and Neonatology study section, the NIH special members study section, the American Congress of Obstetricians and Gynecologists' (ACOG) Hypertension Task Force, the Executive Board of the Northern New England Perinatal Quality Improvement Network, the ACOG Voluntary Review of Quality of Care Team, and the Vermont March of Dimes Executive Board.
- Faculty published research in such journals as the *American Journal of Obstetrics and Gynecology*, *Journal of Reproduction and Fertility*, *Pregnancy Hypertension*,

*American Journal of Physiology Heart and Circulatory Physiology*, *American Journal of Reproductive Immunology*, and *Clinical Obstetrics and Gynecology*.

- Grants to faculty members covered research in many areas, including: "Pre-pregnancy Phenotype & Predisposition to Preeclampsia," "Induction of Uterine Vascular Remodeling by Myometrial Stretch," "Reproductive Medicine Network Metformin Use during *in vitro* Fertilization in Polycystic Ovary Syndrome," and the funding of a Women's Reproductive Health Research Training Grant.

# Orthopaedics and Rehabilitation

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

The Department of Orthopaedics and Rehabilitation continues to adapt to the changing faces of health care delivery and the academic mission. The faculty is actively involved in state and national healthcare reform. David Halsey, M.D., has been elected to the American Academy of Orthopaedic Surgeons Board of Specialty Societies Presidential Line. Both he and Adam Shafritz, M.D., serve on the Vermont Green Mountain Board Advisory Panels to help that body develop tactics to guide state healthcare reform.

The Graduate Medical Education Program has taken advantage of recent ACGME rules to develop an innovative orthopaedic surgery residency program that attracts candidates from all over the country. Under the leadership of S. Elizabeth Ames, M.D., the program continues to thrive. At the national level, Dr. Ames serves as chair of the American Orthopaedic Association/ Council of Residency Directors Communications Committee. The PGY1 curriculum in our program has been designed to focus on Accreditation Council for Graduate Medical Education requirements, plus early introduction to skill sets that will enhance their subsequent residency experience.

Several faculty members serve their subspecialty societies in various capacities. James Michelson, M.D., serves as topic chairman for the Foot and Ankle Section of the Orthopaedic Research Society. Craig

Bartlett, M.D., sits on the American Academy of Orthopaedic Surgeons Trauma Program Subcommittee. Dr. Shafritz has been invited faculty for educational offerings of the American Society for Surgery of the Hand. David Aronsson, M.D., serves as secretary and sits on the Board of Directors of the International Federation of Pediatric Orthopaedic Societies. He has also been selected as an associate editor of the *American Journal of Bone and Joint Surgery*.

In the research realm, Bruce Beynnon, Ph.D., continues to pursue his National Institutes of Health-funded research on anterior cruciate ligament injury risk factors and post-traumatic

arthritis. Along with James Slauterbeck, M.D., Dr. Beynnon's research group is evaluating both immediate and long term structural and biologic changes to the knee that result from disruption of the ACL. The importance of this work lies in gaining an understanding of the process that leads to joint degeneration in this injury that affects so many active young people.

Professor Emeritus Ian Stokes, Ph.D. was awarded the Scoliosis Research Society's Lifetime Achievement Award, this year, which recognized Dr. Stokes' consistent and important contributions to the field of spinal deformity.



Professor Emeritus of Orthopaedics and Rehabilitation Ian Stokes, Ph.D. (center), receives the Scoliosis Research Society (SRS) Lifetime Achievement Award from Steven D. Glassman, M.D. (left), and SRS President Kamal N. Ibrahim, M.D. (right).

## SELECTED HIGHLIGHTS

- Faculty published research in such publications as the *American Journal of Sports Medicine* and *Spine Deformity*.
- Grant-funded research programs of note included "A Case-Control Study of ACL Injury Risk Factors" funded by the National Institute of Arthritis and Musculoskeletal and Skin Diseases, and "Bone Architecture of the Lumbar Pedicle: Can We Measure Cortical Thickness with Spiral Computed Tomography?" funded by Stryker-Howmedica-Osteonics.
- Ten Department faculty members serve on U.S. and international associations and study sections.



# Pathology and Laboratory Medicine

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

The Department of Pathology and Laboratory Medicine has had a year of successful leadership transition. In June 2012, Edwin Bovill, M.D., retired as Chair after leading the Department of Pathology and Laboratory Medicine since 1993. Ronald Bryant, M.D., served as Interim Chair until Debra G.B. Leonard, M.D., Ph.D. became the new Chair on April 1, 2013. Dr. Leonard is a molecular pathologist, previously at Weill Cornell Medical College, and is developing a Genomic Medicine Program within the Department. In addition, Nicholas Hardin, M.D., retired, and Kum Cooper, M.D., moved to the University of Pennsylvania.

Many Department members received special honors during the past year. Gladwyn Leiman, M.B.B.C., received the The Maurice Goldblatt Cytology Award at the International Congress of Cytology in Paris, France, on May 26, 2013 for her lifelong dedication to cytology. Kanayo Tatsumi, M.D., a pathology resident, received the Susan P. Baker Public Health Impact Award from the National Association of Medical Examiners for her research entitled "Death Certificate Surveillance: A Component of Death Investigation." Nels Olson Ph.D., a postdoctoral research fellow with Russell Tracy,

Ph.D., and Mary Cushman, M.D., won the Roger R. Williams Award for Genetic Epidemiology and the Prevention and Treatment of Atherosclerosis from the American Heart Association in March 2013, which recognizes the abstract with the highest score of all abstracts on genetic epidemiology, for his research on Factor XII gene variants associated with activation of coagulation and cardiovascular disease risk. Members of the Transfusion Medicine Laboratory at Fletcher Allen were part of a Massive Transfusion Protocol recognized by the "Becoming One" Award from Fletcher Allen for their work in streamlining the process to assure that life-saving blood products are available for trauma patients. Rebecca Wilcox, M.D., received the teacher of the year award awarded by first-level medical students.

The research fields of the Department's faculty include the interaction of environmental agents on cell signaling pathways that contribute to inflammation in lung, asthma, pulmonary fibrosis, mesothelioma, breast cancer, thrombosis, and cardiovascular disease. Faculty members are actively involved in the Vermont Lung Center and the Vermont Cancer Center, and serve on a wide variety of College

of Medicine and University committees. Nationally, Pathology faculty members serve on committees of the American Council on Graduate Medical Education, the American Heart Association, American Society of Cytopathology, College of American Pathologists, Institute of Medicine, National Heart, Lung and Blood Institute, and the National Institutes of Health.

## SELECTED HIGHLIGHTS

- Faculty members published research in such journals as: *Molecular Cell Biology*, *Transfusion*, *Clinical Cancer Research*, *Blood*, *American Journal of Human Genetics*, and the *Journal of the National Cancer Institute*.
- Thirteen Department faculty members served on national associations or study sections during 2013.
- Grant funded research included studies of the "Impact of Disordered Mineral Metabolism on Stroke and Cognitive Impairment," "Vitamin D to Prevent Type 2 Diabetes," and "Epithelial JNK-TGFβ1 Signaling Axis in Airway Remodeling."



Associate Professor Pamela Gibson, M.D., leads a group of Vermont high school students taking part in the MedQuest health careers program through a lecture in the Pathology teaching laboratory.

# Pediatrics

Lewis R. First, M.D., Chair



Chair and Professor Lewis First, M.D., at center right, leads a Pediatrics Clerkship rounds at the Vermont Children's Hospital.

During the past year, the Department of Pediatrics continued to further its academic mission of improving the health of children through clinical, research and educational 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, the Department continued to participate actively in all four years of the Vermont Integrated Curriculum, and was honored by the graduating class as Clinical Department of the Year in addition to other teaching honors received by Pediatrics faculty during the past year. Once again, more fourth-year students chose to pursue a career in Pediatrics than any other field of medicine, and the residency training program application increased again another 25% over the prior year's record-breaking increase. The Department's nationally lauded summer CME course sold out again and brought attendees from all over the country to Vermont to be updated on the newest developments in the field of Pediatrics.

Nationally, faculty members continue to take leadership roles in all the major pediatric educational organizations. The Department continues to serve as the editorial home of the

journal *Pediatrics*, the leader in peer-reviewed general pediatric journals nationally and internationally, now celebrating its 65th year, the past 39 of which have been headquartered at the College of Medicine.

From a research perspective, the Department continues 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 AAP's Pediatric Research in Office Settings, and the Vermont Child Health Improvement Program (VCHIP) expanded their projects and programs. For example, VCHIP's statewide model of improving care to children and adolescents extended into 20 states providing the oversight to a new initiative — the National Improvement Partnerships Network (NIPN). Translational research also flourished in areas such as metabolism, nutrition, cystic fibrosis, and oncology.

Advocacy efforts also flourished as faculty and house staff worked collaboratively to improve the communities the Department serves with numerous projects, a number of which warranted presentation at national

pediatric research and education meetings. Members of the faculty as well as other departmental and hospital staff, for example, took the "3 Squares Challenge" in which they each lived for a week on \$37 worth of food stamps to better understand food insecurity and then followed this experience with a large departmental food drive for those who were in need.

Inpatient and outpatient services demonstrated quality improvements in every clinical area, thanks in part to implementation of an electronic health record system. One of the major initiatives undertaken this year was a transformational change of the delivery of pediatric primary care utilizing innovative smaller care teams with community outreach workers and other supports to truly establish a better medical home system for the patients served by primary care clinicians in the Department. Another clinical initiative was our finalizing plans to provide 24/7 hospitalist coverage on our inpatient service.

Sadly, this past year the founder and first chair of the Department R. James (Jim) McKay, M.D., passed away at the age of 95. None of the achievements described in this report or throughout the year would be possible without the remarkable dedication and commitment to children instilled by Dr. McKay into all the members of the Department. He is greatly missed but, as can be seen in the achievements captured in this narrative, his legacy lives on.

## SELECTED HIGHLIGHTS

- Faculty published in such journals as *Circulation*, *Diabetes*, *Clinical Perinatology*, and *Pediatrics*.
- Professor William Raszka, M.D., was named the Clinical Teacher of the Year by the Class of 2013 and was awarded the Golden Apple Award for excellence in teaching by the Class of 2015.
- Vermont Children's Hospital was ranked as a "Best Children's Hospital" for 2013 by *US News & World Report* (recognized in Gastroenterology and Pulmonology)



# Pharmacology

Mark T. Nelson, Ph.D., Chair

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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. Faculty members have been honored as keynote and invited speakers at prestigious international meetings and universities around the world. Department researchers published over 20 peer-reviewed articles in 2013, and Departmental research was cited in other publications nearly 3000 times in 2013.

Work has begun on the research grant funded by Fondation Leducq Transatlantic Networks of Excellence Program. UVM investigators and colleagues from France, Germany, Massachusetts, and Iowa, co-led by Mark Nelson, Ph.D., are focusing their research on uncovering the details regarding the mechanisms that cause cerebral small vessel disease of the brain, for this five-year grant. Extramural support remains strong, with funding from the National Institutes of Health, American Heart Association, foundations, and industries. The Department continues to receive generous support from the Totman Medical Research Trust for an interdepartmental research effort to understand cerebrovascular function and disease.

## SELECTED HIGHLIGHTS

- Mark Nelson, Ph.D., was the keynote speaker of the Ferid Murad Lecture at the 6th International Conference on cGMP, in Erfurt, Germany, June 2013.
- Faculty research appeared in such publications as: *Science*, *Journal of Cerebral Blood Flow & Metabolism*, *Proceedings of the National Academy of Sciences*, *Microcirculation*, *Hypertension*, *Stroke Research and Treatment*, and the *Journal of Neuroscience*.
- Karen Lounsbury, Ph.D. was awarded a Pilot Award from the Marsha Rivkin Center for Ovarian Cancer Research. Her study of "Protein Translation Regulators and the Ovarian Cancer Microenvironment" seeks to identify a new target for both treatment and diagnosis of ovarian cancer.



Assistant Professor of Pharmacology Thomas Heppner, Ph.D., and post-doctoral fellow Nuria Vilalba, Ph.D., work in a laboratory in the Given Building.

Pharmacology faculty are committed to maintaining high quality teaching and mentoring efforts to medical, graduate, advanced undergraduate students, and our many postdoctoral fellows. Faculty teach in virtually all courses in the Foundations level of the Vermont Integrated Curriculum, and the Medical Summer Pharmacology course. Other teaching efforts include one-on-one mentoring in research laboratories, didactic lectures in Molecular and Cellular Pharmacology, Toxicology, Principles of Drug Discovery, Cancer Biology, Cell and Molecular Biology and Introduction to Pharmacology.

The Minor in Pharmacology for undergraduates graduated seven students in May 2013, and currently has 21 students enrolled. The Department fosters communication and collaboration, with faculty and postdocs presenting current research in weekly journal clubs, and faculty presenting monthly interactive research forums on ongoing or proposed research projects.

Pharmacology faculty serve on many grant-review committees for the NIH and the American Heart Association, peer-review committees for the American Cancer Society and the American Heart 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 Frances Carr, Ph.D.'s service as chair of the Faculty Standards Committee, co-chair of the LCME VIC Pharmacology Review committee, and on the College's LCME Faculty Standards Review; Karen Lounsbury, Ph.D.'s service as chair of the CMB Graduate Recruitment Committee; and Alan Howe, Ph.D.'s work on the Protocol Review Committee for the Vermont Cancer Center (VCC) and as co-leader of the VCC Program on Host Factors and Tumor Progression.

# Psychiatry

Robert Pierattini, M.D., Chair

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During this year, Anne Rich, M.D. succeeded Isabel Norian, M.D. as Director of Medical Student Education in Psychiatry. Their efforts, and those of all the outstanding faculty who teach, are responsible for very high student ratings for the Psychiatry Clerkship hosted at Fletcher Allen Health Care, Danbury Hospital, Central Vermont Medical Center, and Acadia Hospital in Bangor, Maine. Last year saw a record number of medical students entering residencies in psychiatry.

Three of the six Fletcher Allen house staff receiving the 2013 Gold Humanism in Medicine Teaching Awards were psychiatry residents: Sean Ackerman, M.D., Steve Runyan, D.O., and Sanchit Maruti, M.D. Eleven of the fourteen psychiatry residents were nominated for the award. A second-time recipient of this award, Chief Resident Sanchit Maruti, M.D., also won Resident of the Year from the 2013 graduating medical school class.

Vermont is still recovering from the effects of Hurricane Irene and the closing of the Vermont State Hospital. The inpatient psychiatry service significantly modified its programs to accommodate the emergency loss of one third of the state's adult inpatient psychiatry beds.

Under the direction of Thomas Achenbach, Ph.D., the Research Center for Children, Youth, and Families has used the Adult Self-Report and Adult Behavior Checklist to assess tens of thousands of people in thirty societies worldwide. Syndromes previously identified in U.S. have been identified in the international data, demonstrating that evidence-based syndromes can be used to assess and model psychopathology in diverse populations around the world.

The Vermont Center for Children, Youth, and Families, led by James Hudziak, M.D., published over twenty-five peer-reviewed papers on topics ranging from multinational genome-wide association studies of IQ to studies of withdrawn behavior in Vermont children. The Center sponsors a Child Psychiatry Fellowship program directed by David Rettew, M.D., a medical student fellowship program led by Robert Althoff, M.D., Ph.D., and a newly-accredited psychology internship program in collaboration with the Connecting Cultures Program at the UVM Department of Psychology.

The Clinical Neuroscience Research Unit is exploring effects of cognitive behavioral therapy on chronic pain using functional magnetic resonance imaging, the neurobiology of impulsive behavior, and the neurochemistry medicating cognitive changes in menopause (faculty members involved in this work are Magdalena Naylor, M.D., Ph.D., Alexandra Potter, Ph.D., and Julie Dumas, Ph.D., respectively).

Hugh Garavan, Ph.D.'s neuroimaging lab has published 40 papers, most of which focus

on the neurobiology underlying successful abstinence from drugs and the neurobiology associated with adolescent reward and cognition and their relationship to adolescent drug use. Stephen Higgins, Ph.D., has expanded his addiction research to investigate other health behaviors. His group published 70 articles and book chapters, obtained seven new NIH research grants, and submitted nine additional NIH grant applications.



Members of the Department of Psychiatry gather on the steps of Ira Allen Chapel.

## SELECTED HIGHLIGHTS

- Psychiatry faculty members published research during 2013 in such peer-reviewed publications as the *Journal of the American Medical Association Psychiatry*, *Journal of the American Academy of Child & Adolescent Psychiatry*, *Preventive Medicine*, *Neurobiology of Aging*, and *Pharmacology, Biochemistry and Behavior*.
- Department faculty serve on the editorial boards of the *Journal of Child Psychology & Psychiatry*, *Journal of Developmental &*

*Behavioral Pediatrics*, *International Journal of Clinical and Health Psychology*, *Pakistan Journal of Psychological Research*, *Journal of the American Academy of Child and Adolescent Psychiatry*, *Child Psychiatry & Human Development*, *Psychiatry Journal*, and *Comprehensive Psychiatry*.

- In Fall 2013, Stephen Higgins, Ph.D., and colleagues secured nearly \$35 million in grant funding to form the Vermont Center on Behavior & Health. (See page 3 for more details.)





The linear accelerator in use by a technician in the Radiology Department at Fletcher Allen Health Care.

The Department of Radiology saw exciting work in several areas this year. First, faculty are continuing work on a high reliability imaging program. This is to ensure that the right test is done at the right time on the right equipment, is interpreted by the right subspecialty and that the communication of results is done promptly with acknowledgment from the ordering clinician. This component includes electronic decision support, ensuring the right test is ordered. Second is radiation dose monitoring, to help the Department achieve ALARA (as low as reasonably attainable) results. Radiologists will be able to collect complete cumulative radiation dose history on all of patients using this new technology. The third element of this program is critical results reporting. When fully implemented, this will allow tracking of all results in a closed loop, ultimately integrating with the electronic health record to make certain there is proper acknowledgment of all important results communicated and followed up with ordering clinicians. The last part of this high reliability initiative involves integration of picture archiving and communication system with the electronic health record, so that the interpreting radiologist will have all important patient information available when interpreting a test on that patient.

Together these four components consolidate information to ensure that patients receive the most appropriate test when needed and at the lowest possible radiation dose.

The second milestone in the Department is physician integration. As of October 1, 2013, the three current radiologists at Central Vermont Medical Center (CVMC), Charles N. Pappas, M.D., Joseph S. Pekala, M.D., and Robert D. Johnson, M.D., became members of the clinical Department, and the University of Vermont Medical Group. This is the first step involving true physician integration in the growing local health care system.

Last but certainly not least is exciting news about Imaging the World (ITW). At the time of this writing, Kristen K. DeStigter, M.D., professor and vice chair, along with a large entourage including Susan Harvey, M.D., director of the Johns Hopkins Section of Breast Imaging, Magdalena Naylor, M.D., Ph.D., professor in the Department of Psychiatry at UVM/Fletcher Allen, Christina Cinelli, M.D., women's imaging fellow from Brigham and Women's Hospital in Boston, Katie Mezwa, University of Michigan, Kathleen Fleming, Career Counselor at Vermont Student Assistance Corporation, Sarah Comtois and Mary Streeter, radiologist assistants at Fletcher Allen, Christopher Stark, M.D., radiology

resident at Fletcher Allen, and Caitlin Baran, a UVM medical student, are in Uganda initiating the very first breast cancer screening program in sub-Saharan Africa. This is a real world health care achievement of global importance.

## SELECTED HIGHLIGHTS

- Faculty published research in such journals as *RadioGraphics*, *Obstetrics and Gynecology*, *the American Journal of Respiratory and Critical Care Medicine*, *PLoS ONE*, *the Journal of the American College of Radiology*, *Biomedical Instrumentation & Technology*, and *the Journal of Trauma and Acute Care Surgery*.
- During 2013, Professor Kristen DeStigter, M.D., was named vice-chair and was inducted as a fellow of the American College of Radiology.
- The breast imaging section of the Department added three-dimensional tomosynthesis to the diagnostic armamentarium in 2013. This allows for more efficient diagnosis of cancers and more confident diagnosis of benign disease.

The Department of Surgery had an outstanding year in 2013, demonstrating continued excellence in its mission of providing stellar education, research, innovation, and quality care for patients.

Over the past year, the Department grew to 98 faculty members in 15 divisions and five residency programs. Many divisions recruited outstanding new faculty members, including Peter Holoch, M.D., Mujde Erten, Ph.D., David Murman, M.D., Alison Sullivan, M.D., Sarah Schlein, M.D., Philip Skidd, M.D., Jeffrey Young, M.D., and Thomas Ahern, Ph.D.

The incoming General Surgery intern, Mayo Fujii, M.D., won the first annual Mildred Reardon M.D. Award for Service to the College of Medicine. Griffin Boll, M.D., won the H. Gordon Page M.D. Award for Excellence in Surgery. Katie Shean, M.D., won the Pilcher Award, and Christine Velazco, M.D., was awarded the Harry Howe M.D. Senior Student Award.

Research efforts in the Department were very productive. Urologist Gerry Mingin, M.D., continued with his National Institutes of Health K08 Career Development Award, and Emergency Medicine physician Kalev Freeman, M.D., Ph.D., continued with his Career Development K08 award on traumatic brain injury, both with Professor and Chair of Pharmacology Mark Nelson, Ph.D., as their mentor. Brian Sprague, Ph.D., garnered several grants from the National Cancer Institute to study breast cancer screening. Chris Jones, Ph.D., and Mujde Erten, Ph.D., won a State Innovation Models contract to study pricing variation in healthcare.

The Heart Team lead the way for innovation with Joseph Schmoker, M.D., and Frank Ittleman, M.D., teaming with cardiologists Harold Dauerman, M.D., and David Schneider, M.D., to provide a minimally invasive way to treat critically ill patients with aortic stenosis (Transcatheter Aortic Valve Implantation).

Mark Plante, M.D., was sworn in as president of the American Urological Association — New England Section and Brian Irwin, M.D., is program director for the Section. Damon Silverman, M.D., is president of the Vermont Otolaryngology Society.

Several faculty members assumed leadership roles at the University. Ted James,

M.D., was selected as a Macy Scholar for innovation in education. Dr. James was also selected to be the director of the Clinical Simulation Laboratory at the University of Vermont and Fletcher Allen Health Care.

Margaret Tandoh, M.D., was appointed assistant dean for diversity and inclusion at the College of Medicine. Dr. Ittleman became an associate vice president for the UVM Medical Group.



Associate Professor of Surgery Ted James, M.D., presents the first prize award to graduating senior Nkem Aziken (M.D.'13) at the Surgery Senior Major Scientific Program in May. Dr. Aziken is now a surgical resident at the University of Minnesota.

## SELECTED HIGHLIGHTS

- Faculty published research in such journals as *Journal of Applied Physiology*, *Journal of Cachexia, Sarcopenia, and Muscle*, *Cancer Immunology, Immunotherapy*, *Journal of Vascular Surgery*, *American Journal of Pathology*, and *American Journal of Surgery*.
- After years of planning, the Hybrid Operating Room was completed in 2013 and will improve the ability to care for patients and train students and residents.
- Stephanie Pero, Ph.D., was awarded a Breast Cancer Research Foundation—American Association for Cancer Research Grant for Translational Breast Cancer Research.



# Vermont Cancer Center

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

The commitments and operating principles of the Vermont Cancer Center emphasize eradicating cancer through transdisciplinary collaborative team approaches that engage scientists, physicians, physician investigators, behaviorists and health care professionals throughout the College of Medicine, the University, and Fletcher Allen Health Care. Consistent with the translational cancer research focus, the Vermont Cancer Center embraces innovative basic, behavioral, translational and clinical cancer research and offers the most advanced clinical trials. Further, the Vermont Cancer Center is dedicated to maximizing opportunities for partnerships between basic scientists, population health scientists and physician investigators to link tumor biology and behavior with the continuum of early detection and treatment of cancer.

The VCC programs strategy focus on two primary issues in the control of tumors — studying the genesis of malignant cells, and the progression that leads to clinically significant disease. Pursuing mechanisms of malignancy is complemented by emphasis on cancer control and population health sciences. This approach enhances the capability of the Vermont Cancer Center to advance understanding of the processes and practices that encompass cancer prevention, early detection, therapy and survivorship.

Vermont Cancer Center core facilities and the clinical research office support initiatives ranging from genetic and epigenetic mechanisms to investigator-initiated clinical trials. Vermont Cancer Center (VCC) programs are exploring unique parameters of psychosocial and behavioral issues that are associated with cancer along with unique approaches to evaluating quality of care and assessing translational outcomes and health care economics with emphasis on developing a “roadmap for cancer prevention” with cancer screening and treatment to rural and underserved populations.

Translating advances in the biology and the pathology of cancer cells to enhance capabilities in cancer prevention, early detection, treatment and survivorship is through a seamless relationship of Vermont Cancer Center programs



Hematologist/Oncologist Kim Dittus, M.D., Ph.D., center, examines a patient at Fletcher Allen Health Care. Dittus is an assistant professor of medicine and a member of the Vermont Cancer Center.

with ten transdisciplinary teams that are based on tumor types. The transdisciplinary teams optimize utilization of defined clinical pathways that incorporate clinical trials. The advanced capabilities of the transdisciplinary teams are reinforced by the Vermont Cancer Center clinical trials office, tissue bank and the “high functioning” translational cancer research laboratory.

The VCC is making significant contributions as a destination site through regional outreach, providing leadership in northern New England cancer center collaborations, engagement in service to the cancer research and clinical community and establishing global collaborations that broaden the impact of the Vermont Cancer Center research and clinical programs.

## SELECTED HIGHLIGHTS

The discoveries of genetic and epigenetic molecular defects in cancer cells by Vermont Cancer Center scientists and physician investigators that are providing transformative understanding for the biology and treatment of cancer include:

- Molecular signatures that are blueprints for early detection and targeted treatment of tumors not amenable to conventional strategies.
- Promoting exercise and healthy living to expedite recover from cancer therapy.
- Preventing breast and prostate cancer metastases to bone.
- Inhibition of the tumor vascularization to improve cancer care.
- Discovery of the role for activated blood platelets in cancer cell invasion.
- Offering a robust portfolio of cancer clinical trials.
- Breakthroughs in understanding mechanisms that favor the growth of tumors that include mesothelioma, lung cancer, and colon cancer.
- Pioneering contributions to the discovery of noncoding RNAs that control proliferation and gene expression during the onset and progression of cancer.
- Cutting edge chemotherapy and biological treatments directed to specific cancers.
- Epigenetic signatures for risk assessment, detection and selectively treating early stage tumors and leukemias.
- Advances in characterizing the spread of solid tumors and leukemias.

# Vermont Center for Clinical and Translational Science

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

The Center for Clinical and Translational Science (CCTS) at the University of Vermont 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 recruited four faculty members with exceptional skills. They are bioinformaticians Indra Neil Sarkar, Ph.D., and Elizabeth Chen, Ph.D.; health care economist Christopher Jones, Ph.D.; and Thomas Simpatico, M.D., who is a public psychiatry specialist and medical director of the Medicaid Program in the State of Vermont. By combining their skills this group has forged novel interdisciplinary interactions with others at the University, at Fletcher Allen and throughout the state. Dr. Sarkar is a member of the National Institutes of Health (NIH) Healthcare Delivery and Methodologies Integrated Review Group. Dr. Chen is principal investigator on an NIH grant, “Leveraging the EHR to Collect and Analyze Social, Behavioral & Familial Factors” and sits on three NIH Study Sections. Dr. Jones is principal investigator on a grant from CSL Behring, Inc., titled “Retrospective Proof of Concept/ Data Query/Cost Analysis Using the VHCURES Data for the Last 5 Years” and is a member of and reviewer for the International Society for Pharmacoeconomics and Outcomes Research. Dr. Simpatico is principal investigator on a Department of Veterans Affairs grant, titled “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

- Thomas Simpatico, M.D., et al. published on the “Diagnosis and healing in veterans suspected of suffering from post-traumatic stress disorder (PTSD) using reward gene testing and reward circuitry natural dopaminergic activation,” *Genetic Syndromes & Gene Therapy*.
- Elizabeth Chen, Ph.D., et al. published on “Translating standards into practice: experiences and lessons learned in biomedicine and health care” in the *Journal of Biomedical Informatics*.
- Richard Galbraith, M.D., Ph.D., et al.’s article on “Forging stronger partnerships between academic health centers and patient-driven organizations,” was published in *Academic Medicine*.
- Christopher Jones, Ph.D., et al. published on “Failure to correct International Normalized Ratio and mortality among patients with warfarin-related major bleeding: an analysis of electronic health records,” in the *Journal of Thrombosis and Haemostasis*.
- Indra Neil Sarkar, Ph.D., et al. published on “A vector space model approach to identify genetically related diseases,” in the *Journal of the American Medical Informatics Association*.



Russell Tracy, Ph.D., director of translational technologies at the Vermont Center for Clinical and Translational Science, in the UVM Laboratory for Clinical Biochemistry Research and Translational Technologies in Colchester, Vt.



# COBRE

## UVM Centers of Biomedical Research Excellence

ANNUAL REPORT  
13

### Center of Biomedical Research Excellence in Neuroscience

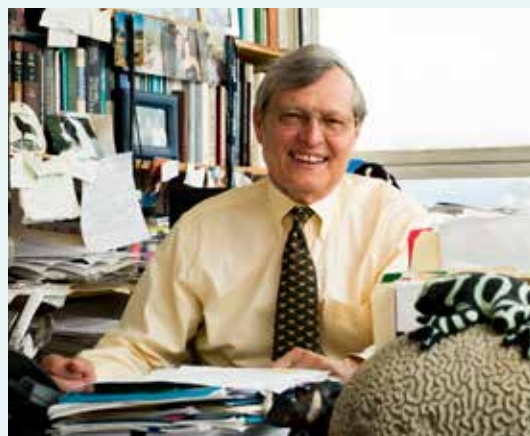
Rodney Parsons, Ph.D., Director

The Center of Biomedical Research Excellence (COBRE) in Neuroscience, created in 2001 by a grant from the National Institutes of Health (NIH) National Center of Research Resources, enhances neuroscience research and training infrastructure across multiple colleges at the University of Vermont.

The Neuroscience COBRE supports two sophisticated multi-user research cores: an Imaging/Physiology Core, which provides access to state-of-the-art 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.

A highlight for the Neuroscience COBRE this past year has been the installation of the new Zeiss multi-photon microscope, which was purchased through an NIH Shared Instrument grant. The new Zeiss microscope greatly expands the capabilities of multiple innovative studies that concern regulation of cerebral blood flow. Using multi-photon microscopic imaging of living brain slices, a number of UVM neuroscientists investigate neurovascular coupling, the interaction between nerve cells, astrocytes, and cerebral blood vessels, in normal brain and after neural injury.

Other studies supported by the Imaging Facility investigate the regulation of expression of voltage-dependent ion channels or G-protein coupled receptors by endocytosis, a mechanism that can determine neuronal excitability. The Cell/Molecular Core has been instrumental in supporting novel studies that have identified signaling cascades leading to transformation of normal nerve progenitors to malignant neuroblastoma cells or mechanisms through which neuropeptide receptor internalization forms signaling endosomes.



Rodney Parsons, Ph.D., is the founding director of the UVM Center for Biomedical Research Excellence in Neuroscience and was for 33 years chair of UVM's former Department of Anatomy and Neurobiology.

The Neuroscience COBRE also provides set-up funds to assist in the recruitment of new neuroscience faculty and support for one-year Pilot Projects to help neuroscience investigators generate preliminary data that is essential to the development of new R01 applications. This past year, the Neuroscience COBRE contributed recruitment funds to Alicia Ebert, Ph.D., a new junior investigator in the Department of Biology and supported a pilot project entitled "Determinants of multipotency and neurogenesis from reactive astrocytes," which was awarded to Jeffrey Spees, Ph.D., from the Department of Medicine. In addition, the Neuroscience COBRE supports a University-wide Neuroscience Seminar Series and Annual Retreat.

The major goal in all the work of the Neuroscience COBRE is to enhance faculty research capabilities by providing access to core facilities, which significantly increase their competitiveness for extramural funding.

UVM faculty published research this year that referenced use of Neuroscience COBRE Cores in such publications as: the *Journal of Neuroscience*, the *Proceedings of the National Academy of Science USA*, and *Oncogene*.

### Vermont Center for Immunology and Infectious Diseases Cobre

Ralph Budd, M.D., Director

The Vermont Center for Immunology and Infectious Diseases (VCIID) studies the host response to infections. It is currently in the seventh year of funding from a National Institutes of Health Center of Biomedical Research Excellence (COBRE) grant, and now has 24 faculty members spanning eight departments in four colleges at UVM.

A significant achievement for the VCIID this year was the groundbreaking of a new Vermont Department of Health/UVM research building at the Colchester Research Facility that will house investigators from both institutions. This will combine the complementary expertise of Department of Health staff in epidemiology and field research in infectious diseases with those of UVM faculty in basic and clinical microbiology and immunology. This partnership exists in only a couple of other states, and will benefit the health of all Vermonters.

Accomplishments of individual faculty include the study by Jane Hill, Ph.D., focused

on detecting bacterial pathogens in lung infections in exhaled breath using mass spectrometry, which was publicized widely, including coverage by the British Broadcasting Corporation. Christopher Huston, M.D., received a new R21 award from the NIH/National Institute of Allergy and Infectious Diseases to study "Novel approaches to develop a treatment for cryptosporidiosis." Aimee Shen, Ph.D., was named the "Pew Scholar of the Month" in July 2013. Mercedes Rincon, Ph.D., was the organizing editor for a review on Interleukin-6 that appeared in the *International Journal of Biomedical Science*.

The UVM Vaccine Testing Center, under the direction of Beth Kirkpatrick, M.D., began an important clinical trial of an oral cholera vaccine.

This year, other faculty associated with the center published research in such journals as *PLOS One*, *Journal of Immunology*, *Mucosal Immunology*, *American Journal of Pathology*, *PLOS Neglected Tropical Diseases*, and the *Journal of Bacteriology*.

Immunology COBRE faculty member Beth Kirkpatrick, M.D., director of the UVM Vaccine Testing Center, began a clinical trial of an oral cholera vaccine in 2013.



### Vermont Lung Center

Charles Irvin, Ph.D., Director

The Vermont Lung Center (VLC) investigates lung biology and the pathogenesis of lung disease. Diseases of the lung are significant and devastating. The increase in lung disease shows no sign of abating; for example, asthma is the leading chronic disease of children and Chronic Obstructive Pulmonary Disease (COPD) is now the third leading cause of death in America. Lung cancer is the only major type of cancer whose incidence is still rising.

The VLC is a Center of Biomedical Research Excellence (COBRE) funded by the National Institutes of Health (NIH) and is home to a training grant, also funded by NIH, which trains and educates the next generation of scientists to battle these rises in devastating lung disease.

The center is currently supported annually by \$2.2 million of extramural support. In 2012–13, the VLC faculty members published more than 66 articles, reviews and book chapters and currently have 38 open clinical studies to which participants are being actively recruited.

The VLC played host this year to two outstanding scientific meetings: first, the Fifth Biennial "Stem Cells and Cell Therapies in Lung Biology Conference," funded in part by the NIH, brought leading researchers from around the globe to Burlington to discuss advances in the science of stem cells and their use in recent clinical trials. The second, "Obesity and Metabolism: An Emerging Frontier in Health and Disease" is the second conference that the center has hosted on this topic. It brings national and international leaders together to discuss this rapidly



The Stem Cells and Cell Therapies in Lung Biology Conference, supported by the Vermont Lung Center, brings researchers from around the world together on the UVM campus every two years.

expanding field and the profound impact that obesity has on lung health. VLC member Polly Parsons, M.D., Amidon Professor and Chair of Medicine, has been appointed to the Council of the National Heart, Lung and Blood Institute at the NIH. Dr. Parsons was also recognized this year with a Distinguished Achievement Award from the American Thoracic Society. Both of the flagship clinical trials programs of the VLC were rated top tier within the respective national programs this year.

Faculty associated with the Vermont Lung Center published research in 2013 in such journals as: the *American Journal of Respiratory and Critical Care Medicine*, *Pediatric Pulmonology*, *Pharmacogenetic Genomics*, *American Journal of Respiratory Cell and Molecular Biology*, *PLOS One*, *Chest*, *Cell Stem Cell*, and the *Journal of Immunology*.



## A BANNER YEAR

On behalf of the College of Medicine and University of Vermont, thank you for a tremendous year of giving and of creating transformational impact! Fiscal Year 2013 culminated in the third best fundraising commitment year in the history of the College of Medicine. Your investments have left an indelible mark in the minds of our faculty and students, and have created a path that we will undoubtedly follow in years to come. It's now our tremendous responsibility and goal to steward your gifts and importantly accelerate fundraising and engagement to the next level.

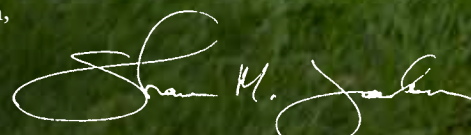
This year we've witnessed passionate and strategic investments in student scholarships, faculty professorships and chairs, and key research initiatives aimed at strengthening an already solid core. Dean Morin and his leadership team utilized gifts in the Dean's strategic fund to help minimize student debt and recruit world class talent into the ranks of our faculty and administration. Breathtaking research has advanced through the generosity of benefactors who've helped purchase new equipment and refresh laboratory space. Whether donors have designated specific areas of philanthropic interest or not, they've given with a warm heart and were received by an entirely grateful staff.

I'm pleased to share that we're now taking the next step in our plan to maximize philanthropy across academic medicine and health sciences here at the Academic Medical Center. At the turn of the year we will welcome Kevin McAteer as Chief Development Officer for Health Sciences. Kevin will join us after serving as Executive Director of Development, Health Sciences at UC San Francisco. Kevin's role will be unique — he'll oversee development at the College of Medicine, College of Nursing & Health Sciences, Vermont Cancer Center, and at Fletcher Allen Health Care. Our vision is to connect all four and further maximize the coordination and impact of private gift support. You should continue to expect wonderful alumni events, reunion activities, communication and opportunities to give back. Kevin will have the chance to meet many of you and I know you'll welcome him into the UVM medical family with open arms.

In closing, your annual gifts, multiyear pledges, and documented estate commitments truly matter. They're of material importance because they shine a spotlight on the excellence within our walls. Your gifts influence our ability to greatly affect Vermont, greater New England, and the world at large. Your philanthropy recognizes the past and directs us to the future.

We cannot do it without you! Thank you for another great year.

With sincere appreciation,



**Shane M. Jacobson**

Interim Team Leader, College of Medicine Development & Alumni Relations  
Vice President & COO, UVM Foundation

### The Gift of Teamwork: Class of 2013 Funds Wilderness Training

When the College of Medicine Class of 2017 headed out into the woods on the second day of orientation for an afternoon of team building and camaraderie, they had the Class of 2013 to thank. Members of the graduating class welcomed the incoming medical students by designating their class gift to the trip to Rock Point School. The Class of 2013 wrote a letter to the new students detailing the reason behind their gift: "We realized that, as a class, our individual success and happiness was largely dependent on our success as a whole," reads the letter. "Working as a team certainly helped us succeed, not only academically, but also in life during, and now after, medical school." The letter went on to congratulate the new class on joining a community that offers a strong culture of support. "We hope you'll feel that support each day and provide that support each day to others," the letter states.

### FISCAL YEAR 2013 PHILANTHROPIC SUPPORT

**\$13.6 million**  
NEW GIFTS AND PLEDGES  
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**4,549**  
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The College of Medicine gratefully acknowledges private support received in fiscal year 2013 (July 1, 2012–June 30, 2013). 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.



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 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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H. Allen Walker, M.D.'63 (left) takes part in a simulation session during Reunion 2013.

Stepping up for his 50th: H. Alan Walker, M.D. '63

As a special gift to celebrate his 50th reunion year, **H. Alan Walker, M.D. '63**, increased his annual gift in 2013 to become a member of the Medical Ira Allen Society. This designation recognizes annual gifts of \$2,500 and lifetime giving of \$100,000 or more.

A resident of Plattsburgh, N.Y., Dr. Walker is retired from the practice of internal medicine. He was chief of medicine at CVPH Medical Center for 11 years, and served on the medical center's board of directors. For over 30 years he was the medical examiner for the Federal Aviation Administration (FAA), and he was president of the Clinton County, N.Y., Medical Society. Dr. Walker continues to be an active alumnus: With Jack Murray, M.D., he serves as Class Agent for the Class of 1963. Dr. Walker and his wife, Jackie, attended Medical Reunion May 31–June 2, 2013, and he received along with other attendees from the Class of 1963 a medallion in honor of his Golden Reunion year.



College of Medicine Wilbur Society

Following in the steps of James B. Wilbur, whose 1929 bequest began a fund which still helps more than 800 UVM students each year, the following individuals have provided generously for the UVM College of Medicine by establishing a deferred gift or bequest.

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Burton A. Cleaves

Teaching Throughout Life, and Beyond: Burton A. Cleaves

When he happened upon an article about the University of Vermont in the Boston Globe ten years ago, **Burton A. Cleaves** had no association with the university. But the explanation of the university's plans and initiatives intrigued the retired professor of music and chair of the music department at Simmons College. That interest bloomed over the course of the next decade, as he established a number of charitable gift annuities in support of the university, particularly scholarship funding at the College of Medicine. Burton Cleaves died in January of this year, and a generous bequest from his estate will continue the work at the College that he believed in so strongly. Prof. Cleaves also made the most personal bequest of all; realizing the value to medical students of the study of the human body, he willed his remains to the College's Anatomical gift program.

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PROFILE IN GIVING



Passing it on: Diane Jaworski, Ph.D.

UVM Professor of Neurological Sciences **Diane Jaworski, Ph.D.**, says she believes in “paying it forward.” For the past six years, she’s made a gift to the College of Medicine at the Ira Allen Society donor level, in part to show her gratitude for the grant support she received for the pre-clinical phase of her research. Funds from the Vermont Cancer Center/ Lake Champlain Cancer Research Organization helped her lab begin research on a new chemotherapeutic agent for glioma, the most common primary form of brain tumor in adults. She’s published journal articles on her work and has received a patent — next up is a Phase I clinical trial. Jaworski joined the UVM College of Medicine faculty in 1995, and received her Ph.D. from Texas Women’s University in 1991.

Professor of Neurological Sciences Diane Jaworski, Ph.D., at left, leads a presentation for students and their family members during the College of Medicine’s Family Day in October 2012.



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Cancer survivor Jeff Mullen of Richmond, Vt., raised over \$7,500 for the Vermont Cancer Center through his Tour Divide ride.

Long Division: A 2,800-Mile Mountain Bike Ride for the Vermont Cancer Center

In January of 2008, Richmond, Vt., resident **Jeff Mullen** was diagnosed with stage three colon cancer. He had surgery to remove the tumor and embarked on six months of chemotherapy, knowing that there was a 30 to 40 percent chance the cancer would spread. Five years later, he's cancer-free. To show his gratitude for the care and support he received at the Vermont Cancer Center, Mullen decided to dedicate a 2,859-mile mountain bike race to raising funds for the joint UVM/Fletcher Allen Health Care facility. Called The Tour Divide, it is the “world’s longest off-pavement cycling route.” The race follows the Great Divide mountain bike trail (crossing the Continental Divide 30 times) from Banff, Alberta, Canada, through Montana, Idaho, Wyoming, Colorado, and New Mexico to the Mexican border. It took Mullen 23 days, 17 hours, and 11 minutes to finish the race, good for a 48th-place finish [ 143 starters with 60 dropping out along the way]. He averaged 120 miles a day, which included a 200-mile last day push to the finish on a route that included almost 200,000 feet of elevation gain as it wound through the Rocky Mountains. Thanks to generous donations made by family, friends and other supporters over \$7,500 was raised for the Vermont Cancer Center. “Jeff’s recovery is inspirational evidence that we are on a pathway to making cancer a treatable disease. His triumphant ride in support of the Vermont Cancer Center is a testament to his remarkable spirit and recognition of the treatment and care he received right here,” says Claire Verschraegen, M.D. & Gary Stein, Ph.D., VCC Co-Directors.



From left: Dean Rick Morin, M.D., Jon Perelman, Arthur Perelman, M.D.'52, Robert Perelman, M.D., and Fletcher Allen Health Care President and CEO John Brumsted, M.D. at the commemoration on June 22, 2013, of the establishment of the Charlotte E. Perelman Cancer Research Fund, named in honor of Arthur Perelman's late wife, the mother of Jon and Robert. Many other Perelman family members and friends have contributed to the fund.

Above: UVM Med Photo; Right: Jeff Mullen



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Professor of Family Medicine Emeritus David M.Tormey, M.D., during his years as an Associate Dean.

A Lasting Memorial: The David Tormey Endowed Fund

In memory of a beloved longtime College of Medicine faculty member and administrator who died in February of 2013, the David M. Tormey Endowed Fund supports the David M. Tormey, M.D. Award for Accomplishment in the Face of Adversity, which is given annually to a graduating student who, in spite of significant adversity of one kind or another encountered while in medical school, met the challenge and will be a better and stronger person and physician. Since its initial establishment in 1991 in honor of Dr. Tormey's retirement, over 300 people have contributed. Many friends and family have recently continued that support of the endowed fund in Dr. Tormey's memory.

Dr. Tormey joined the College of Medicine faculty in 1968 after 20 years of service in the U.S. Army. He first served as assistant dean for the College, and in 1970, became associate dean for admissions and student affairs. He was also an associate professor of family practice, and chaired the medical school's Committee on Instructional Improvement and Curriculum. From 1983 to 1991, Dr. Tormey was associate dean for alumni relations, and helped to develop the College's alumni magazine. Dr. Tormey retired from UVM in 1991, but continued to serve as associate dean for alumni relations until 1994.



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(\$1,000–\$2,499)

Edward Norman Bailey  
John F. Beamis, Jr.  
J. Michael DeCenzo  
Vincent A. Decesaris  
Richard M. Faraci  
Joel H. Mumford  
Andrew D. Parent  
Norman Jay Snow  
Thomas I. Soule

Contributors (\$1–\$999)

Michael Bruce Andorsky  
Anthony R. Barri  
Elizabeth Holmes Carter  
Preston L. Carter  
Joseph I. Chartor  
William A. Fajman  
Robert V. Fernandez  
Christopher R. Flory  
Eugene F. Fuchs  
Richard M. Gendron  
Thomas J. Grady  
Theodore H. Harwood, Jr.  
David Carl Hinsman  
Peter D. Hoden  
John E. Hunt, Jr.  
Frank W. Kilpatrick  
Keith N. Megathlin  
Arthur J. Sakowitz  
Steven H. Sherman  
David A. Simundson  
David C. Staples  
Daniel Carl Sullivan  
Normand F. Tremblay  
W. James Young

Participation ..... **64%**  
Total..... \$2,184,275  
Agent ..... Raymond Joseph Anton  
Agent ..... John F. Beamis, Jr.

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

Wayne E. Pasanen  
Howard D. Solomon

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

Neal M. Borenstein  
James A. Brennan  
David W. Haskell  
Philip A. Levin



Carol Collin Little  
Jeffrey Warren Rubman

Contributors (\$1–\$999)

Alan R. Alexander  
Alan D. Ayer  
Charles M. Belisle  
David John Coppe  
Robert J. Englund  
David R. Hootnick  
Wallace N. Hubbard  
Leslie W. Levenson  
Richard B. Lilly, Jr.  
F. Clifton Miller, Jr.  
David A. Peura  
Edwin Gerhardt Singens

Participation ..... **49%**  
Total..... \$17,367  
Agent ..... Wayne E. Pasanen  
Agent ..... Edwin G. Singens

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

F. Farrell Collins, Jr.

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

Donald Scott Murinson  
William M. Notis  
H. David Reines  
Contributors (\$1–\$999)  
Jeffrey Robert Alpert  
Joseph Charles Benedict  
Robert A. Bonanno  
Adrienne Buuck Butler  
John E. Butler  
David M. Coddaira  
Mark A. Donovan  
Mark L. Dubay  
Charles M. Elboim  
Martha J. Elliott, WI  
Alan Brian Feltmarch  
Leo Charles Ginns  
Stuart M. Graves  
Douglas H. Greenfield  
Richard George Houle  
Donald S. Levi  
Donald L. McGuirk, Jr.  
Donald B. Miller, Jr.  
James Vincent Mogan  
Richard Alden Moriarty  
Bruce Berner Shafiroff  
James F. Shaw  
Richard L. Teixeira

Participation ..... **47%**  
Total..... \$28,752  
Agent ..... James M. Betts  
Agent ..... Philip L. Cohen  
Agent ..... Suzanne Parker

Participation ..... **42%**  
Total..... \$21,825  
Agent ..... F. Farrell Collins, Jr.

40-YEAR REUNION

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

James M. Betts  
Philip L. Cohen  
Darwin Ray Kuhlmann

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

Cressey Wayne Brazier  
Susan Shubert Buchwald  
Merrill Hugh Epstein  
Richard Harry Feins  
David Peter Flavin  
James Gregory Howe  
Suzanne R. Parker  
David B. Werner

Contributors (\$1–\$999)

Ralph Stephen Albertini  
William D. Barrett  
Robert A. Beekman  
Robert Joseph Bertagna, Jr.  
John Alfred Bisson  
Edward John Collins, Jr.  
James Stanley Heath  
Victor C. Herson  
Lawrence Colwyn Hurst  
Brock T. Ketcham  
Joseph Richard Lacy  
John Armstrong Leppman  
Lawrence C. Maguire  
Gregory J. Melkonian  
Irvin L. Paradis  
Martin Ralph Phillips  
Victor J. Pisanelli, Jr.  
Thomas Joseph Ruane  
James M. Salander  
Daniel Louis Spada  
James Michael Stubbart  
Lloyd Edward Witham  
Charles James Wolcott  
Stephen John Woodruff

Participation ..... **48%**  
Total..... \$17,631  
Agent ..... Douglas M. Eddy  
Agent ..... Cajsa N. Schumacher

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

Stephen Alan Degray  
William R. K. Johnson  
David Nelson Little  
John Frank Siraco

Contributors (\$1–\$999)  
Paul Thomas Berry  
Palmer Quintard Bessey, Jr.  
John W. Blute, Jr.

\* indicates deceased    WI indicates widow/widower



Patrick Michael Catalano  
Emanuele Q. Chiappinelli  
Eugene Louis Culetta  
Thomas Edward Duff, Jr.  
Allen Edmund Fongemie  
James Gerard Gallagher  
Stephen John Haines  
Alan Howard Kanter  
Douglas Norman Klaucke  
Robert Francis LeGendre, Jr.  
John Gerald Long  
Thomas Edward McCormick  
Robert A. McCready  
John Hornblower Meyer, Jr.  
Brian Joseph Reilly  
David Revell  
Stephen Francis Rowe  
Christopher Tompkins Selvage  
Delight Ann Wing  
Thomas Allen Wolk

Participation ..... **42%**  
Total..... \$11,350  
Agent ..... Ellen Andrews

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

Don P. Chan

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

Robert Wolcott Backus  
John Thomas Bowers, III  
S. Kent Callahan  
John Rogers Knight  
Richard Mason McNeer, III  
M. Jonathan Mishcon  
David Truxal Noyes  
William Ward Pendlebury  
Matthew Robert Zetumer

**Contributors (\$1–\$999)**

Jayne Anne Ackerman  
Bruce Row Brown, Jr.  
Timothy Stephen Carey  
Marilyn Ruth Clark  
Douglas Edward Dennett

Anita Feins  
Elliot Sidney Feit  
Michael Lawrence Gerrity  
Kevin Christopher Kelley  
Steven Lampert  
Nancy Coalter Lathrop  
Richard Michael Lewis  
Helen Loeser  
George Edward Maker  
William G. Muller  
Ralph Angus Nixon, Jr.  
Bonita Ann Palmer  
Robert C. Parke  
Garry Michael Pratt  
Eric Jay Reines  
Lee Howard Rome  
R. Bruce Smith  
Marga Susan Sproul  
Henry Roger Vaillancourt  
Jon Winston Way  
Peter D. Wilk  
Mark S. Yerby

Participation ..... **50%**  
Total..... \$19,995  
Agent ..... Don P. Chan

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

A. Howland Hartley  
James C. Hebert

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

Mary L. Davis  
Allan Freedman  
William P. Gifford  
Mary E. Maloney  
Mark A. Popovsky  
Aryeh Shander

**Contributors (\$1–\$999)**

Roger E. Belson  
Alister Bruce Campbell  
William Anthony DeBassio  
Ronald B. Dennett  
John Crawford Ferguson

Michael A. Galica  
Lawrence Eli Garbo  
Ruth Kennedy Grant  
Paul R. Gustafson  
Charles H. Herr  
John Henley Kanwit  
John G. Kenerson  
Kurt Lauenstein  
Michael T. McNamara  
James A. Merritt  
Mark Novotny  
Gail Judith Povar  
John R. Redman  
Karen R. Reeves  
John E. Rowe  
Frederic E. Shaw Jr., JD  
Richard L. Staley  
Brenda L. Waters  
Richard Edward Wild

Participation ..... **38%**  
Total..... \$19,279  
Agent ..... James C. Hebert  
Agent ..... Mark A. Popovsky

**35-YEAR REUNION**

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

Cheryl Luise Davis  
John Henry Healey

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

Andrew Jay Arrison  
Anthony J. Kazlauskas  
Donald H. Lambert  
John William McGill  
Wallace R. McGrew  
Michael David Polifka  
Nicholas James Sears  
Richard Bruce Wait

**Contributors (\$1–\$999)**

John Edward Alexander  
John Joseph Ambrosino  
Raymond Joseph Chagnon  
Nancy MacFarlane Collins  
Paul McLane Costello  
Judith Ann Crowell  
Sherry Anne Dickstein  
Anne D. Ehrlich  
Robert Stephen Feins  
Jeannine Gingras  
Jonathan Brewster Hayden  
Anne Heywood Haydock  
Anita Henderson  
Michael Rowe Hermans  
Peggy J. Howrigan  
Judith Ann Ingalls  
Jeffrey Michael Lovitz  
David Thornton Lyons  
Edward Francis McCarthy, Jr.  
James Patrick Murray  
Howard Alan Nadworny  
Philip Thomas Peverada  
Paul Frederick Poulin  
Dr. Robert Raymond Revers  
Mark Holmes Rolerson  
John Philip Scamman  
Linda Henstrand Schroth  
Robert Douglas Shaw  
Gail Bos Simonds

Participation ..... **50%**  
Total..... \$34,093  
Agent ..... Paul McLane Costello

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

Dave E. Lounsbury

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

Robert Healy Harrington, Jr.  
Courtland Gillett Lewis  
Sarah Ann McCarty

**Contributors (\$1–\$999)**

Joseph Bayes  
Anne A. Brewer  
John Thomas Britton  
Cynthia Christy  
Edward Bowen Cronin  
Helen Marie Crowe  
Stephen Anthony Dolan  
William G. Gaidys  
Mark Francis Graziano  
Thomas Alfred Harrington, Jr.  
James Nelson Jarvis  
William Albert Jensen  
David Deniord Jones  
Roger S. Lash  
Ralph Andrew Manchester  
Laurence Francis McMahon, Jr.  
Dennis A. Plante

Alan Scott Rogers  
Ronald Clifford Sampson  
Donald Arthur Smith  
Laurie Joan Woodard  
Martha A. Zeiger

Participation ..... **32%**  
Total..... \$12,925  
Agent ..... Sarah Ann McCarty  
Agent ..... Dennis Plante

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

Michael Evans Berman  
Richard Nicholas Hubbell  
Howard Marc Schapiro

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

Martin Larry Black  
Michael J. Corrigan  
Steven Michael Davis  
Kathryn Lucinda Moyer  
Stuart N. Rice

**Contributors (\$1–\$999)**

Mary Ellen Betit-Keresey  
Paul Alfred Boepple  
Sarita Helene Brouwer  
Joseph James Campbell, Jr.  
Daniel Elwyn Carr  
Rebecca Chagrasulis  
Kerry Wayne Crowley  
Joel Edwin Cutler  
Peter Allen Dale  
Cathleen Olivia Doane-Wilson  
Marshall Forstein  
Rebecca Ann Foulk  
Linda Sue Hermans  
Thomas Francis Lever  
John Henry Lunde  
Dana Francis McGinn  
James Gerard McNamara  
Mark H. Mirochnick  
Kenneth Earl Najarian  
Robert A. Ruben

Participation ..... **40%**  
Total..... \$21,500  
Agent ..... Richard Nicholas Hubbell

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

Paul Rutter Cain  
James M. Worthington

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

John R. Anton  
Ernest M. Bove  
Robert Jean Carboneau  
Jocelyn D. Chertoff  
David P. Meeker  
Louis B. Polish  
Peter Stern  
Floyd Trillis, Jr.

**Contributors (\$1–\$999)**

Thomas Francis Breen  
Thomas Francis Certo  
William George Cioffi, Jr.  
Mark Stephen Cooper  
Beth Miriam Dollinger  
Joseph John England  
George Christian Fjeld  
Paul Douglas Fournier  
Jay H. Garten  
Harald James Henningsen  
Lawrence C. Kaplan  
Bruce Jason Leavitt  
Ann Marie E. Lemire  
Thomas H. Lewis  
Priscilla S. Martin  
Peter S. Millard  
David George Millay  
John M. North  
Joseph B. Quinn  
John M. Richey  
Elliot H. Rubin  
Gary L. Schillhammer  
Clifton D. Smith  
Dale D. Stafford  
Betsy Lee Sussman  
David W. Towne  
Andrew Seth Weber

Participation ..... **47%**  
Total..... \$22,670  
Agent ..... Bruce Leavitt  
Agent ..... Betsy Sussman  
Agent ..... Louis Polish

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

Mark H. Beers \*  
Michael Robert Saxe

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

James I. Couser, Jr.  
Helaine Wolpert Dietz  
Linda Hood  
Gary E. Kalan  
Fredric Paul Schlusell

**Contributors (\$1–\$999)**

Kevin Paul Andrews  
Ira Mark Bernstein  
Ronald D. Blatt  
Paul Bloomberg  
Margaret H. Burroughs  
Charles Edward Clark, Jr.  
Joseph Edward Corbett, Jr.  
Lisbet M. Hanson  
Robert D. Harris  
Jane T. Horton  
Isaac Leigh Kaplan  
James B. Kilgour  
Paul H. Kispert

Martha Field McCarty  
David Kenneth Murdock  
Diane C. Rippa  
David Lucien Roy  
Priscilla Shube  
Mark J. Stenclik  
Scott W. Treworgy  
MG George W. Weightman

Participation ..... **29%**  
Total..... \$15,144  
Agent ..... Diane Rippa

**30-YEAR REUNION**

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

Joseph Charles Kvedar

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

Diane M. Georgeson  
Pamela A. Harrop  
Ronald C. Hartfelder  
Edward S. Horton, Jr.  
Stanley J. Miller  
Michael R. Narkewicz

**Contributors (\$1–\$999)**

Robert A. Baldor  
James E. Bane  
Gary R. Berk  
Gwen Marie Bogacki  
Deborah Anne Bradley  
Robert M. Coughlin  
Mark E. Covey  
Katherine Barrett Frantz  
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Mark Richard Iverson  
Steven E. Klein  
Frank William Lavoie  
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Howard H. Mizrachi  
David Thomas Morwood  
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Stephen Russell Payne  
Fortunato Procopio  
Robert R. Quimby  
James G. Rose  
Joshua David Schwartz  
Albert J. Sinusas  
Mark S. Siskind  
Jay Sokolow  
Richard S. Sprague, Jr.  
Jeffrey A. Zesiger

Participation ..... **37%**  
Total..... \$16,580  
Agent ..... Diane M. Georgeson  
Agent ..... Anne Marie Massucco

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

Katherine Stoddard Pope

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

Charles Jay Bernstein  
Marc Immerman  
Thomas Edward Kingston, Jr.  
Howard J. Silberstein  
Michael J. G. Somers  
James Kevin Wolcott

**Contributors (\$1–\$999)**

Roland E. Baker  
Charles Joseph Cathcart  
John F. Coco  
Jay P. Colella  
Pushpa Lall Gross

Brenda Elizabeth Corrigan  
John Wight Durham  
Winston Milo Eddy  
Daniel Kenneth Fram  
Theresa Ann Graves  
Eric Enrico Guardino  
Penelope Hall  
Daniel R. Hovenstine  
Seth Lawrence Krauss  
Linn Marie Larson  
William M. Martin  
George Stephen Peredy  
Lucille Jean Poulin  
Curt M. Snyder  
Dale William Steele  
Jacqueline A. Tetreault  
Linda Louise Walker  
Donald Neal Weinberg

Participation ..... **29%**  
Total..... \$13,268  
Agent ..... Vito D. Imbasciani  
Agent ..... Suzy Frisch

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

Steven A. Burton  
Linda Murray English

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

Robert Ralph Harding  
Jennifer Madison McNiff  
F. Todd Tamburine  
Jennifer Freda Weinraub

**Contributors (\$1–\$999)**

Diane Antoinette Bourke  
Sally Willard Burbank  
Matthew Williams Caldwell  
Linda Ann Collins  
Thomas J. Curchin  
Joshua Isaac Dorsky  
David H. Dumont  
Mark H. Gregory  
Martin Theodore Grune  
Brad Holden  
Mizin Park Kawasaki  
Dayle Gay Klitzner  
Dong-Joon Lee  
Mario Gabriel Loomis  
John Byron MacCarthy  
James Robert Martin  
David Bernard McDermott  
Steven Paul Meyers  
Alan Robert Mizutani  
Michael George Mooradd  
Marianne Gardy Passarelli  
Jack Philip Rosoff  
Rasesh Mahendra Shah  
Paul Richard Vom Eigen, Jr.  
JoAnn Marie Warren  
Steven Jay Welish

Participation ..... **37%**  
Total..... \$14,751  
Agent ..... Darrell Edward White

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

James Michael Jaeger  
James Louis Vayda

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

Carol M. Armatis  
Robert Edward Benton  
Susan Elizabeth Coffin  
Michael L. Cunningham  
Rhett Lee Daugherty  
David George Evelyn  
Helene Goldsman  
Davidson Howes Hamer  
Craig Allan Hawkins  
Betty Jane Keller  
Susan So-Hyoun Kim-Foley  
Selina Ann Long  
William Emil Luginbuhl  
Richard Charles Meltzer  
Marcia Ann Procopio  
Jeffrey Alan Rosenblatt  
Denise Michelle Soucy  
David Alban Stevenson  
Christopher Edward Swide  
Erica Turner  
Barbara Ellen Weber  
Alison Elizabeth Wondriska  
Marie Lynn Zagroba

Participation ..... **28%**  
Total..... \$13,850  
Agent ..... J. Michael Jaeger  
Agent ..... Jeffrey Rosenblatt  
Agent ..... Helene Goldsman





25-YEAR REUNION

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

**Leadership Contributors (\$1,000–\$2,499)**  
Frank Anthony DiFazio  
Denise LaRue  
David Raymond Park, III  
Julie Ruggieri Park  
Jeffrey Michael Slaiby

**Contributors (\$1–\$999)**  
Laura Ann Bellstrom  
Heather Joy Bevan  
Suzanne M. Blood  
Wendy Skerritt Cathcart  
John G. Devine  
Irene Flatau  
Christopher Kevin Foley  
Daniel Mark Friedland  
Barbara Diane Friedman  
Argilla Rose George  
Leslie Greta Goransson  
Patricia Anne Heller  
Douglas Frederick Hoffman  
Mark Lewis Hoskin  
Elizabeth Howard Jillson  
Katherine J. Little  
Roger Kennedy Low  
Niall Martin McGarvey  
Lucy McKeon  
Joseph Dean Nasca  
Art Papier  
Lisa Anne Planeta  
James Pritchard Rines  
Michael Raymond Rousse  
Mark Alan Schmetz  
Hannah Shore  
Judy Fried Siegel  
Judith Austin Strohbehn  
Kris Strohbehn  
Susan Lee Voci  
Heather Amanda Wolfe

Participation ..... **42%**  
Total..... \$18,125  
Agent ..... H. James Wallace, III  
Agent ..... Lawrence I Wolk

**'89 Annual Ira Allen Society (\$2,500+)**  
Robert Alan Cheney  
Suzanne Farrow Graves  
Cornelius John McGinn

**Leadership Contributors (\$1,000–\$2,499)**  
Mary Cushman  
Janice Mary Gallant  
Dean George Mastras

**Contributors (\$1–\$999)**  
Judith Ford Baumhauer  
Catherine Josephine Cantwell  
Ronald Edward Chicoine  
Lisa Michele Cohen  
Wayne J. Farnsworth  
Joel Alexander Forman  
Pamela Cox Gibson  
Kelly Jane Hill  
Eric Paul Kohler  
Judith Lynne Lewis  
Laurie May Marston  
Martha Jane Moulton  
Peter M. Nalin  
Sarah Ann Ormsby  
Adam Bennett Pass  
Elke Pinn  
Sheila Ellen Ryan  
Keith Michael Shute  
James S. Sobiek  
Peter Jon Tesler  
Bradford Stillman Weeks

Participation ..... **29%**  
Total..... \$23,475  
Agent ..... Peter M. Nalin

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

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

**Contributors (\$1–\$999)**  
Scott Adelman  
Christopher Jon Bigelow  
Anne Stevens Bingham  
Stephen Henry Buzzell

Paula Jo Carbone  
Nancy Elizabeth Cornish  
Paul Edward DeMeo  
Mary Zeile Dill  
Karen Anne Ditttrich  
Gregory Charles Fanaras  
James Barry Gagnon  
Susan Caroline Harvey  
John William Homer  
Donna Marie Kiley  
Eric Charles Knight  
Philip Ray Lapp  
Jeffrey H. Lawson, Ph.D  
Jennifer Mah Lawson  
Stephen Michael Leffler  
Michael Leo Lyons  
Holly Louise McDaniel  
Robert Bryant McLafferty  
Paqui Denise Motyl  
Erica Elizabeth Nelson  
Susanne H. Purnell  
Roland Roger Rizzi  
Lisa Lanzarone Saunders  
Debra J. Shuma-Hartswick  
Lana Tsao

Participation ..... **33%**  
Total..... \$8,225  
Agent ..... Barbara Angelika Dill

**'91 Leadership Contributors (\$1,000–\$2,499)**  
B. J. Beck  
Margaret Bunce Garahan  
Alan Kevin Stern

**Contributors (\$1–\$999)**  
Maria C. Aveni  
Peter Joseph Bellafiore  
Stephanie Briggs  
David C. Brunelle  
John Dewey  
Philip Jay Katzman  
Dale Jeanne LaCroix  
Maryann Montemale LoMonaco  
Stephen B. Mason  
Stephen Takeo Nishiyama  
James Brian Powers  
Christopher Martyn Quinn  
Charles Henry Salem

Kellie A. Sprague  
Geoffrey Edward Starr  
Gregory A. Walker  
George Nicholas Welch  
Lisa Asnis Wisniewski  
Michael Peter Zacks

Participation ..... **25%**  
Total..... \$8,578  
Agent ..... John Dewey

**'92 Leadership Contributors (\$1,000–\$2,499)**  
Kirsten Lyn Wolff

**Contributors (\$1–\$999)**  
Paul Afek  
John Joseph Albertini  
Gillian Margaret Betterton  
Timothy D. Bicknell  
Charles Adam Blotnick  
Carolyn Mulcahy Couture  
William Alexander Craig  
Andrew Scott Ellowitz  
Joseph Robert Fitzgerald  
Lana Tsao  
Heidi M. Larson  
Yolanda Glogowski Lawrence  
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Mara Saulitis Liebling  
Susan Elizabeth Long  
Martin Devroe McCarter  
Kenedy Kathryn McQuillen  
David Gary Nelson  
Stephen O'Donnell  
Mark Eliot Pasanen  
Katherine Ray  
Jennifer Podolnick Rowley  
Patrick Joseph Rowley  
Gregory David Russell  
Janice Coflesky Saal  
Lori Ann Sheporaitis

Participation ..... **29%**  
Total..... \$7,550  
Agent ..... Mark Eliot Pasanen

20-YEAR REUNION

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

**Leadership Contributors (\$1,000–\$2,499)**  
Michael James Belanger  
David Joseph Evelti  
Owen Thomas Traynor

**Contributors (\$1–\$999)**  
Barbara Kyoko Ariue  
Christina Hammerman Atkin  
Russell Stuart O. Bradley  
Gabrielle Julie Goodrick  
Jami Marie Hawthorne  
Stephen Anthony Hightower  
Jean Elizabeth Howe  
Scott Christopher Jaynes  
Doris Miwon Kim  
Stephen F. Koelbel  
Adam William Kunin  
Mark Zak Lanoue  
John Joseph McGrath, III  
Zaki Nashed  
Eli John Nasrallah  
Christine D. Northrup  
Stanford Ross Plavin  
Brett Steven Rankin  
Jeannine Kathryn Ritchie  
Joanne Taplin Romeyn  
Peter Starratt Romeyn  
Veronica Mueller Rooks  
Steven Lawrence Shapiro  
Stephen David Surgenor  
Mark Thanassi  
Lisa Ruanne Thomas  
Alan David Verrill  
R. Bradford Watson

Participation ..... **33%**  
Total..... \$14,250  
Agent ..... Joanne Taplin Romeyn  
Agent ..... Brad Watson

**'94 Contributors (\$1–\$999)**

Christopher Abadi  
Thomas Allen Atkins  
Paul Phillip Bergeron  
Jennifer Van Noy Cochran  
Timothy Scott Howard  
Nicholas James Kenyon  
Eddy Hsin-Ih Luh  
Eric Mukai  
Manisha Ami Patel  
Seth Alan Rafal  
Holliday Kane Rayfield  
Kathleen Ann Reed  
Ann Talbot Schwartz  
Laurie Ann Small  
Heather Renee Sobel  
Catherine Mary Spath  
Eric Stephen Stram  
Michael Dodds Upton

Participation ..... **18%**  
Total..... \$4,000  
Agent ..... Holliday Kane Rayfield

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

**Leadership Contributors (\$1,000–\$2,499)**  
Warren E.A. Wulff

**Contributors (\$1–\$999)**  
Deborah Hicks Abell  
Allyson Miller Bolduc  
Robert Louis Cloutier  
Julie Marie Crosson  
Sarah Perkins Dahl  
Amy E. Ferguson-Kantola  
Amy Shedd Gadowski  
Donna McGlaulin Gamache  
Kendra Hutchinson  
Leslie Susanne Kerzner  
Patti Anne Paris  
Nicola S. Rotberg  
E. Brooke Spencer  
Aaron Saul Stern  
Lynn Hietala Wickberg  
Douglas Robert Wood  
Melissa Christina Yih

Participation ..... **21%**  
Total..... \$6,413  
Agent ..... Allyson Miller Bolduc

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

**Contributors (\$1–\$999)**  
Kim Bruce Abell  
Kristen Audra Atkins  
Jennifer Luria Bolduc  
Thomas G. Bolduc  
Kristin B. Bradford  
Kimberly Masayo Bruno  
Brian V. Chu  
Neelima Vernuganti Chu  
Danette Terese Colella  
John William German  
Michael Goldstein  
Anders G. Holm  
Patricia Ann King  
Carol Kuhn  
Audra J. Kunzman-Mazdzer  
Jennie Ann Leach

Participation ..... **26%**  
Total..... \$7,401  
Agent ..... Halleh Akbarnia

Amy Roberts McGaraghan  
Brian Michael Nolan  
B. Payson Oberg-Higgins  
Mark William Ramus  
Peter John Ronchetti  
Amy Elizabeth Sullivan  
Stephen Paul Vogt  
Maziar Zamani

Participation ..... **27%**  
Total..... \$6,045  
Agent ..... Anne Marie Valente  
Agent ..... Patricia Ann King

**'97 Leadership Contributors (\$1,000–\$2,499)**  
Steven Andrew Battaglia  
Holly Beeman Nath

**Contributors (\$1–\$999)**  
Charlotte Eielson Ariyan  
Stephen DeVita  
Brett Ian Gingold  
Beth Ann Jensen  
Jason Anthony Lyman  
Victoria J. Noble  
Lucien Reginald Ouellette  
Steven Hatton Ryder  
Dianne Elizabeth Sacco  
Francis Davis Shih  
Susan Shull

David Frederick Smail, Jr.  
Julie Clifford Smail  
Daniel Franco Sousa  
Elizabeth Orme Westfall  
Steven George Yerid

Participation ..... **18%**  
Total..... \$5,075  
Agent ..... Julie Smail

15-YEAR REUNION

**'98 Leadership Contributors (\$1,000–\$2,499)**  
Reono Bertagnolli  
Joyce M. Dobbertin

**Contributors (\$1–\$999)**  
Halleh Akbarnia  
Gretchen Holt Allen  
Eileen Frances Baker  
Kirk Patrick Bernadino  
Carole Elizabeth Bibeau  
Anne Elizabeth Brena  
Elizabeth Grace Doherty  
Marc Noel Roy  
Leticia Manning Ryan  
Halle Giffin Sobel  
Clesson Edwin Turner  
Cindy Shih-Fen Wun  
Pramila Rajni Yadav  
Katy Chien-Chien Young-Lee  
Christa Maria Zehle

Participation ..... **27%**  
Total..... \$7,150  
Agent ..... Everett Jonathan Lamm  
Agent ..... Deanne Dixon Haag

**'00 Leadership Contributors (\$1,000–\$2,499)**  
Felicia A. Smith

**Contributors (\$1–\$999)**  
Jay Edmond Allard  
Maria Azizian  
Erin K. Balog  
Matthew Daniel Benedict



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

Jane Chang  
Kristopher Russell Davignon  
Fernando Fan  
Burak Mehmet Ozgur

**Contributors (\$1–\$999)**  
Amy Louise Belisle  
Robert J. Berkowitz  
Kym Margaret Boyman  
Sheila Marian Carroll  
Jason Ellis Cook  
Aditya Dash  
Anna Grattan Flik  
Kyle Rudiger Flik  
Alicia Martin Forster  
Amy R. Harrow  
Joo Young Kim  
Eva H. Lathrop  
Ann E. Maloney  
Amy Debra Ouellette  
Marc Noel Roy  
Leticia Manning Ryan  
Halle Giffin Sobel  
Clesson Edwin Turner  
Cindy Shih-Fen Wun  
Pramila Rajni Yadav  
Katy Chien-Chien Young-Lee  
Christa Maria Zehle

Participation ..... **25%**  
Total..... \$5,200  
Agent ..... Jay Edmond Allard  
Agent ..... Michael Jim Lee  
Agent ..... Naomi R. Leeds

**'01 Leadership Contributors (\$1,000–\$2,499)**  
Adam Scott Kanter  
Gregory Joseph Anatol Murad  
Dennis V. Pham

**Contributors (\$1–\$999)**

Arun Basu  
Jason Wade Dimmig  
Emily J. June  
Jeanne Lister MacDonald  
Jennifer Juhl Majersik  
Jonathan R. McDonagh  
JoAn Louise Monaco  
Heather Menzies Perry Smith  
Steven Geoffrey Simensky  
Tae K. Song

Participation ..... **22%**  
Total..... \$15,884  
Agent ..... Jonathan Vinh Mai  
Agent ..... Kerry Lee Landry  
Agent ..... Mary O'Leary Ready  
Agent ..... Maureen C. Sarle

Anne Nieder Clegg  
Erica Jannes Gibson  
Laura Aman Greene  
Sandeep Gupta  
Allison K. Harbour  
Gregory Scott Hunt  
Christine Waasdorp Hurtado  
Jennifer Kelley Ladd  
Melanie Collier Lawrence  
Karen Ann Le Comte  
Naomi R. Leeds  
Nicole Amato Nalchajian  
Shilpa J. Patel  
Jennifer Ann Reidy  
Amy Doolan Roy  
Jennifer Bissonette Ryder  
Jill M. Samale  
Sarah Carlson Schneider  
Laura Emily Trask  
Sally Jin Wang

Participation ..... **25%**  
Total..... \$5,200  
Agent ..... Jay Edmond Allard  
Agent ..... Michael Jim Lee  
Agent ..... Naomi R. Leeds

**'01 Leadership Contributors (\$1,000–\$2,499)**  
Adam Scott Kanter  
Gregory Joseph Anatol Murad  
Dennis V. Pham

**Contributors (\$1–\$999)**

Arun Basu  
Jason Wade Dimmig  
Emily J. June  
Jeanne Lister MacDonald  
Jennifer Juhl Majersik  
Jonathan R. McDonagh  
JoAn Louise Monaco  
Heather Menzies Perry Smith  
Steven Geoffrey Simensky  
Tae K. Song

Participation ..... **22%**  
Total..... \$15,884  
Agent ..... Jonathan Vinh Mai  
Agent ..... Kerry Lee Landry  
Agent ..... Mary O'Leary Ready  
Agent ..... Maureen C. Sarle

Participation ..... **14%**  
Total..... \$5,450  
Agent ..... Ladan Farhoomand  
Agent ..... Joel W. Keenan  
Agent ..... JoAn Louise Monaco

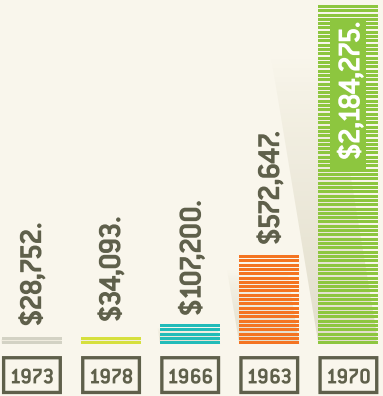
**'02 Annual Ira Allen Society (\$2,500+)**  
Thuan T. Nguyen  
Anand Parthasarathy

**Leadership Contributors (\$1,000–\$2,499)**  
Hunter Geoffrey Brumblay  
Thanh Dinh Nguyen  
James Alfred Wallace

**Contributors (\$1–\$999)**  
Ghazaleh Zardoost Aram  
Todd Alan Bergland  
Jennie Stover Champion  
Teresa Ann Fama  
Babak Fardin  
Gregg Daniel Fine  
Andrew Jackson Goodwin, IV  
Walter Joseph Grabowski  
Christopher Joseph Hebert  
Caroline Bullock Lyon  
Jonathan Vinh Mai  
Mariah McNamara  
Gregory James Morrisette  
Elizabeth Ann O'Brien  
Pearl Schloff Riney  
Christine Mary Staats

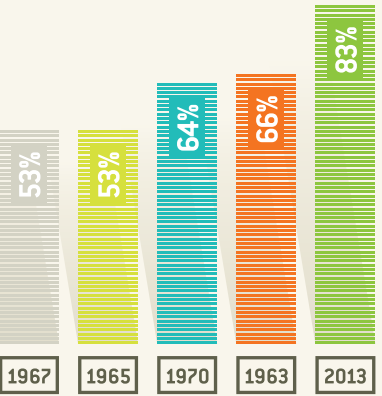
Participation ..... **22%**  
Total..... \$15,884  
Agent ..... Jonathan Vinh Mai  
Agent ..... Kerry Lee Landry  
Agent ..... Mary O'Leary Ready  
Agent ..... Maureen C. Sarle

FISCAL YEAR 2013 PHILANTHROPIC ALUMNI SUPPORT



ALUMNI GIVING

TOP 5 CLASSES (by \$)



ALUMNI PARTICIPATION

TOP 5 CLASSES (by %)

1963	50 year	\$572,647	66%
1968	45 year	\$7,900	47%
1973	40 year	\$28,752	47%
1978	35 year	\$34,093	50%
1983	30 year	\$16,580	37%
1988	25 year	\$18,125	42%
1993	20 year	\$14,250	33%
1998	15 year	\$7,401	26%
2003	10 year	\$3,850	14%
2008	5 year	\$750	11%

TOTAL \$754,793 42%

REUNION CLASS GIVING

TOTAL (by \$) & TOTAL (by %)



10-YEAR REUNION

**'03 Annual Ira Allen Society — Young Alum Patron**  
William A. Kennedy, III  
Angela Mahajan

**Contributors (\$1–\$999)**  
Thanhmy Nguyen Bui  
Jennifer Alling Connors  
Duc Thu Do  
Scott Thomas Goodrich  
Michael Gurell  
James Nathan Horstmann  
Sara Howland Horstmann  
Todd Richard Howland  
Omar Abdullah Khan  
Lynn E. Madsen  
Hannah Sidney Mitchell

Participation ..... **14%**  
Total..... \$3,850  
Agent ..... Omar Khan  
Agent ..... Scott Goodrich

**'04 Annual Ira Allen Society — Young Alum Patron**  
Shunpei Keith Iwata

**Contributors (\$1–\$999)**  
Amy K. Chekos  
Allison Leigh Ciolino  
Carolyn Elizabeth Come  
Diane Jean Hakey  
Erica Shields Hammer  
Rebecca C. Hunt

Lee Avrum Kaback  
Stephanie S. Kehoe  
Steven David Lefebvre  
Nicole Patricia Piscatelli  
Eliana Yael Schenk  
Faye Blacker Serkin

Participation ..... **15%**  
Total..... \$2,010  
Agent ..... Jillian Sullivan  
Agent ..... Stephen Lefebvre

**'05 Contributors (\$1–\$999)**

Julie Ann Alosi  
Marta Zofia Bator  
Roshelle J. Beckwith  
Carolyn J. Brenner  
Katherine Brownlowe  
Robert G. Congdon  
Rachel Elizabeth Gaidys  
Krista Nightingale Haight  
Salwa Khan  
Samir Elie Kodsi  
Kristina Eileen McAteer  
Andrea M. Pliakas  
Mohammad Imran Safdar  
David Scott Spar  
Sarah Czok Whittier

Participation ..... **17%**  
Total..... \$1,968  
Agent ..... Julie Alosi  
Agent ..... Richard J. Parent

**'06 Contributors (\$1–\$999)**

Sarah Anne Blair  
Leslie S. Bradford  
Anya Maurer Chandler  
Wells Michel Chandler  
Ashley L. Clark  
Abigail A. Donaldson  
Webb Ellis Long  
Elisha C. McLam  
Jessica E. Panko  
Alison Jaquith Schneider

Participation ..... **10%**  
Total..... \$1,320  
Agent ..... William C. Eward  
Agent . Deborah Rabinowitz Abrams

**'07 Annual Ira Allen Society — Young Alum Patron**  
Gabrielle A. Jacquet

**Contributors (\$1–\$999)**  
Samuel Benjamin Braff  
Anne Coates, M.D  
Gregory John Connolly  
Leah McLane Costello  
Kurt H. Kelley  
Renee Camilla Rickard  
James Knowles Rustad  
Amanjit Kaur Sekhon-Atwal

Participation ..... **9%**  
Total..... \$1,133  
Agent ..... Allison Collen Adler  
Agent ..... Scot Millay  
Agent ..... Anne Coates

5-YEAR REUNION

**'08 Contributors (\$1–\$999)**

Letizia Mariana Alto  
Carl E. Barus  
Megan Moran Leitch  
Gregory C. Manske  
Erika Cajsa Schumacher  
Emily Anderson Stebbins  
Elizabeth Jennifer Watson  
Jenne Rachel Wax  
Alyssa Mae Wittenberg

Participation ..... **11%**  
Total..... \$750  
Agent ..... Mark Hunter  
Agent ..... Alyssa Wittenberg

**'09 Contributors (\$1–\$999)**

Rebecca M. Brakeley

Participation ..... **1%**  
Total..... \$100  
Agent ..... Rebecca Brakeley  
Agent ..... Kate Murray Mitchell  
Agent ..... Campbell Stewart

**'10 Contributors (\$1–\$999)**

Kristen VanWoert Connolly  
Katherine Davisson Dolbec  
Elizabeth Sara Lycett  
Isabella Wetherill Martin  
Heidi K. Schumacher

Participation ..... **5%**  
Total..... \$103  
Agent ..... Michael Alavian  
Agent ..... Pei Chen  
Agent ..... Heidi Schumacher

**'12 Annual Ira Allen Society — Young Alum Patron**  
Patrick O. Butsch

Participation ..... **1%**  
Total..... \$125  
Agent ..... Melissa Marotta Houser  
Agent ..... Auna Leatham  
Agent ..... Meghan Beucher  
Agent ..... Martha Choate Monson

**'13 Contributors (\$1–\$999)**

Idil Aktan  
Mohammed Almzaayen  
Jonathan R. Ameli  
Elisabeth A. Anson  
Robert Campbell Areson  
Charles Warner Ashley  
Nkem Nkenchoe Aziken  
Felicia L. Bahadue  
Mena M. Bakhit  
Naiera Sbroggio Barbosa  
Adam R. Bensimhon  
Griffin Thomas Boll  
Leslie Anne Bradbury  
Krista Lynn Buckley  
Aaron Wallace Burley  
Christopher Paul Cahill  
Olivia J. Carpinello  
Katherine C. Clark  
Jessica Grace Shelton Clem  
Brian V. Costello

Participation ..... **83%**  
Total..... \$1,188  
Agent ..... Idil Aktan  
Agent ..... Elizabeth Anson  
Agent ..... Shetal Patel

Samantha Rebien Couture  
Jennifer M. Covino  
Mark J. Dammann  
Matthew T. Davies  
Shane Patrick Diamond  
Christopher Taylor Duncan  
Gwendolyn Mae Fitz-Gerald  
Claire Alice Frost  
Mayo Hitomi Fujii  
Matthew Timothy Graf  
Megan E. Gray  
Alberto Gutierrez  
Andrew Wesley Harris  
Erin E. Hayes  
Delia French Horn  
Kuang-Ning Huang  
Shohei Ikoma  
Katherine Frances Irving  
Mohammad S. Jafferji  
Jonathan S. Jolin  
Catherine Anne Kelley  
Ashleigh Jordan Kennedy  
Aaron M. Kinney  
Lindsay Tyrol Kleeman  
Jeremy Matthew Korsh  
Taylor Elizabeth Lincoln  
Victoria M. Lindstrom  
Jeffrey R. McLaren  
Anna C. Meyendorff  
Louisa B. Mook  
Stephen Randolph Morris  
Diana Marie Mujalli  
Asya S. Mu'Min  
Catherine E. Naber  
Ariana Elizabeth Nesbit  
Erica Hubley Pasciullo  
Stell D. Patadji  
Shetal E. Patel  
Phillip Robert Perrinez  
Sarah Merriman Persing  
Lynsey Erin Rangel  
Melissa Marie Romero  
Joseph Michael Rosenberg  
Kyle A. Schoppel  
Amanda Elaine Schwartz  
Katie Elizabeth Pepi Shean  
Allison G. Smith  
Tyler Francis Stewart  
Meghan Stier  
Laura A. Sturgill  
Jared Sutherland  
Alexandra L. Swartz  
Aleksy Tadevosyan  
Susanna B. Thach  
Lindsay Karr Thornton  
Peymaun A. Vakhshoorzadeh  
Cristine Sandra Velazco  
Jesse R. Victor  
Luke Edward Vierthaler  
Darryl C. Whitney  
Jared Miles Winikor  
Katie M. Wright

Participation ..... **83%**  
Total..... \$1,188  
Agent ..... Idil Aktan  
Agent ..... Elizabeth Anson  
Agent ..... Shetal Patel

Named Lectureships

As of June 30, 2013.

**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

**Madison Jaurigue**  
Endowed Lectureship in Neurosurgery

Endowed Chairs & Professorships As of June 30, 2013. 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 Beynnon, 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. Alibee, M.D.'31 Professorship in Surgery (2000)**  
Vacant

**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.,

**Stanley S. Fieber M.D.'48 Chair in Surgery (2002)**  
Vacant

**Duncan W. Persons, M.D.'34 Green & Gold Professor in Ophthalmology (2003)**  
Vacant

**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



The late Professor of Neurology Hillel Panitch, M.D., for whom the Panitch Endowed Lectureship is named.

**Cordell E. Gross, M.D. Green & Gold Professor in Neurosurgery (2005)**  
Bruce Tranmer, M.D.

**Mary Kay Davignon Green & Gold Professor (2005)**  
C. Lawrence Kien, M.D., Ph.D.

**John P. and Kathryn H. Tampas Green & Gold Professor in Radiology (2005)**  
Kristen DeStigter, M.D.

**Albert G. Mackay, M.D.'32 and H. Gordon Page, M.D.'45 Professor in Surgical Education (2005)**  
James Hebert, M.D.

**Michelle D. Labow Green & Gold Professor in Colon & Rectal Surgery (2005)**  
Neil Hyman, M.D.

**A. Bradley Soule and John Tampas Green & Gold Professor in Radiology (2005)**  
Jeffrey Klein, M.D.

**R. James McKay Jr., M.D. Green & Gold Professor in Pediatrics (2005)**  
Marshall L. Land Jr., M.D.

**Jerold F. Lucey, M.D. Chair in Neonatal Medicine (2007)**  
Jeffrey Horbar, M.D.

**Thomas M. Achenbach Chair in Developmental Psychopathology (2007)**  
James J. Hudziak, M.D.

**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)**  
Vacant



Stanley S. Fieber, M.D.'48, left, who endowed a chair in the Department of Surgery that bears his name, visited the campus again this year during Reunion 2013. Dr. Fieber is joined at the reunion picnic by [left to right] his granddaughter, Sarah Beth Fieber, who is a member of the College's Class of 2016, his partner, Alice Kohn, and Dean Rick Morin.



Class Awards — 2013

Awarded by the students to departments, faculty, and staff.

<b>Foundations Teacher of the Year</b> Ellen Black, Ph.D.	<b>American Medical Women's Association Gender Equity Award</b> Diane Jaworski, M.D.
<b>Foundations Course Director of the Year</b> William E. Hopkins, M.D.	<b>Colette Award</b> Emma Faustner
<b>Outstanding Foundations Course</b> Cardiovascular, Respiratory and Renal Systems	<b>Howe Outstanding Teacher Award</b> Robert Borrego, M.D. John Fortune, M.D.
<b>The Dean Warsaw Integration Award</b> Richard Salerno, M.D.	<b>Clinical Teacher of the Year</b> William Raszka, M.D.
<b>The Silver Stethoscope Award</b> Nicholas Hardin, M.D.	<b>Clinical Department of the Year</b> Pediatrics
<b>Above and Beyond Award</b> Ellen Black, Ph.D.	<b>Resident of the Year</b> Sanchit Maruti, M.D.
<b>Outstanding Teaching Assistant</b> Jeffrey MacLean, M.D.	<b>Dignity in Medicine Award</b> Cate Nicholas, M.S., P.A., Ed.D.
<b>American Medical Student Association Golden Apple Award</b> Jean Szilva, M.D.	<b>Best Support Staff</b> Aaron Hurwitz



Professor of Pediatrics William Raszka, M.D., above left, received the Clinical Teacher of the Year award. Staff member Emma Faustner, above right, received the Collette Award.

Class of 2013 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.

Mohammed Amzayyen	Jeffrey McLaren
Naiara Barbosa	Alexandra Messerli
Aaron Burley	Louisa Mook
Mark Dammann	Stephen Morris
Matthew Davies	Ariana Nesbit
Christopher Duncan	Shetal Patel
Andrew Harris	Kurt Schaberg
Delia Horn	Amanda Schwartz
Taylor Lincoln	Tyler Stewart

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.

Idil Aktan	John Hoyt
Robert C. Areson	Kuang-Ning Huang
Elisabeth Anson	Katherine Irving
Mena Bakhit	Mohammed Jafferji
Adam Bensimhon	Louisa Mook
Krista Buckley	Erica Pasciulo
Jennifer Covino	Melissa Romero
Mark Dammann	Laura Sturgill
Meghan Garcia-Webb	Aleksey Tadevosyan
Andrew Harris	Jesse Victor



Idil Aktan, M.D.'13 received the Laura Weed, M.D., Award for 2013.

The James E. Demeules Surgical Research Prize

**First place:** Nkem Azizen  
**Second place:** Matthew Davies  
**Third place:** Darryl Whitney

The Family Medicine John P. Fogarty Leadership Award

Melissa Romero

**The Edward E. Friedman Award** for promise of excellence in the practice of Family Medicine  
Matthew Graf

**The Dr. & Mrs. Nathaniel Gould, M.D.'37 Prize** for outstanding achievements in Orthopaedic Surgery  
Lindsey Kleeman

\* indicates awarded by vote of the class



Andrew Harris, M.D.'13 received several awards, including the Lamb Fellowship and Durwood Smith awards.

Class of 2013 Academic Awards and Honors (continued)



Nkem Azizen, M.D.'13 was awarded the first place James E. Demeules Surgical Research Prize for 2013.

The Harry Howe, M.D.'52 Senior Student Award

for excellence in Surgery  
Christine Velazco

The Kerzner Family Prize

for service to the community  
Brian Costello

**\*The Lamb Fellowship Award** for best exemplifying concern and care for the total patient  
Andrew Harris

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

**The Herbert Martin Sr., M.D. Award** for excellence in Neurology  
Jesse Victor

**The John E. Mazuzan Jr., M.D. '54 Award** for excellence in Anesthesiology  
Christina Pedro

**The Medical Student Prize** for excellence in Neurology  
Stephen Morris

**The H. Gordon Page, M.D.'45 Award** for excellence in Surgery  
Griffin Boll

**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.  
Katie Shean

**The Radiology Achievement Award** for excellence in Radiology  
Chris Duncan                      Aaron Maxwell  
Gwendolyn Fitz-Gerald

**The B. Albert Ring Award** for compassion, humor, humility, devotion to family and friends, and intellectual curiosity.  
Phillip Perrinez

**The Durwood Smith Award** for excellence in Pharmacology  
Andrew Harris

**The Charles T. Schechtman, M.D.'26 Award** for Clinical Excellence  
Andrew Harris                      Alexandra Swartz

**The Society for Academic Emergency Medicine Award** for excellence in Emergency Medicine  
Louisa Mook

**The Ralph D. Sussman, M.D.'38/Medical Alumni Award** for excellence in Pediatrics  
Michael Hart

**The William Sweetser Award** for excellence in Psychiatry  
Ariana Nesbitt

**The David M. Tormey Award** for perseverance in the pursuit of medical education  
Mohammed Almzayyen      Alison Smith  
Brian Costello

**The Joseph B. Warshaw Scholarship Award** for M.D.-Ph.D. thesis excellence  
William Damsky

**The Henry & Phyllis Wasserman Phorplus Scholarship Prize** for excellence in the Basic Sciences  
Aaron Burley                      Kurt Schaberg  
Andrew Harris                      Alexandra Swartz  
Ariana Nesbit

**The Laura Weed, M.D. Award** for qualities of excellence, service, and commitment in Internal Medicine  
Idil Aktan

**\*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.  
Aleksey Tadevosyan

**The Ephraim Woll Award** for excellence in General Pathology  
Andrew Harris

**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:** Idil Aktan  
**Faculty Award:** Ursula McVeigh, M.D.



Mayo Fujii, M.D.'13, in foreground, was awarded the inaugural Mildred A. Reardon M.D.'67 Award for service to the College of Medicine.

\* indicates awarded by vote of the class



Jeffrey R. McLaren, M.D.'13 was chosen by his classmates to deliver the Student Address at the 2013 Commencement Ceremony in Ira Allen Chapel.





James Hebert, M.D.'77, and his wife, Mary Ellen Hebert, support today's students at the College of Medicine through the Hebert Family Scholarship Fund.

## 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  
Harriet 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  
Finance Authority of Maine  
Jean and Wilfrid Fortin, M.D.'61 Scholarship Fund  
Freeman Foundation Medical Scholars Program Fund  
Freeman Foundation Legacy Medical Scholarship Program Fund  
Amos Ginn Medical Scholarship Fund  
Alan Godfrey, M.D.'27 and Helen Godfrey Scholarship Fund  
The Margaret S. and Manfred I. Goldwein, M.D.'54 Memorial Scholarship Fund  
James Roby Green, M.D.'70 Scholarship Fund  
Harold Haskell, 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  
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 Larner, M.D.'42 Loan Fund  
Dr. Aldo J. Leani & Marguerite D. Leani Scholarship Fund  
William H. Luginbuhl, M.D. Scholarship Fund  
John Van Sicklen Maeck, M.D.'39 Scholarship Fund  
Bruce R. MacKay & Phyllis Davis MacKay Endowed Scholarship Fund  
Maine Medical Association  
John E. Mazuzan Jr., MD.'54 Endowed Scholarship Fund  
P.E. McSweeney 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 Poczaabut, M.D.'41 and Theia Poczaabut 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  
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 Shammoun 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) 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 small group environments and in UVM's cutting-edge Clinical Simulation Laboratory. 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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1950s



1980s





## PRESIDENT'S CORNER

As fall arrived in full force here on the College of Medicine campus — complete with brilliant red maples and the first dustings of snow on the mountaintops — another class of medical students finished settling in at the academic medical center.

That process is recognized publicly at the College by the White Coat Ceremony in the Ira Allen Chapel, when the Class of 2017 processed in wearing just business attire, and left the chapel an hour later, each clad for the first time in their new white coat (funded in part by your Medical Alumni Association).

Though it has become one of the most visible traditions at the College, the White Coat Ceremony is really a fairly new thing. We didn't have one in my day as a student. Indeed, there was no public recognition of the taking on of the white coat at any medical school in the nation until 1993. The College of Medicine began its tradition a couple of years later.

For physicians who, as I do, practice at the academic medical center, the arrival of a new group of students in the clinic is a yearly ritual, and a welcome infusion of inquisitive minds. Having those people in short white-coats around really does keep you on your toes. And it is a reminder of how much the future of our profession is built now, in part through our interactions with the students who will someday take our place.

These future physicians will face many different challenges in the constantly evolving world of medicine. One thing we can do to help is to provide as much scholarship assistance as possible, so that these bright people can make their choice of specialty based on their interests and talents, not on financial need. If you're planning your end-of-year charitable giving, please keep that next generation in mind.

**Mark Pasanen, M.D.'92**  
Associate Professor of Medicine



## MEDICAL REUNION JUNE 6-8, 2014

1944	1954	1964	1974	1984	1994	2004
1949	1959	1969	1979	1989	1999	2009

### The University of Vermont Foundation

#### MEDICAL DEVELOPMENT & ALUMNI RELATIONS OFFICE

**Interim Team Leader — Medical Development & Alumni Relations; Vice President and Chief Operating Officer, UVM Foundation**  
Shane Jacobson

**Chief Development Officer for Health Sciences**  
Kevin McAteer

**Senior Director of Development — Vermont Cancer Center**  
Manon O'Connor

**Director of Major Gifts**  
Meredyth Armitage

**Director, Medical Alumni Relations**  
Cristin Gildea

**Director, Administration**  
Ginger Lubkowitz

**Assistant Director, Annual and Major Gifts**  
James Gilbert

**Assistants**  
Jane Aspinall  
Trish Hartigan

### University of Vermont Medical Alumni Association

#### ALUMNI EXECUTIVE COMMITTEE

##### Officers (Two-Year Terms)

**President**  
Mark Pasanen, M.D.'92 (2012–2014)

**Vice-President**  
H. James Wallace III, M.D.'88 (2012–2014)

**Treasurer**  
Paul B. Stanilonis, M.D.'65 (2012–2014)

**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)  
Betsy L. Sussman, M.D.'81 (2012–2018)  
Mark Allegretta, Ph.D.'90 (2012–2016)  
Suzanne R. Parker, M.D.'73 (2012–2016)  
Omar Khan, M.D.'03 (2012–2016)  
Ellen Andrews, M.D.'75 (2012–2016)  
Don P. Chan, M.D.'77 (2012–2015)  
Leslie S. Kerzner, M.D.'95 (2012–2015)  
Frederick Mandell, M.D.'64 (2012–2015)

**Ex Officio Member**  
Dean Frederick C. Morin III, M.D.

#### Send Us Your Stories

If you have an idea for something that should be covered in *Vermont Medicine*, please email: [vmstories@med.uvm.edu](mailto: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](mailto:medalumni.relations@uvm.edu) or (802) 656-4014. If your email address has changed, please send it to [medalumni.relations@uvm.edu](mailto:medalumni.relations@uvm.edu). For complete list of class agents, please see page 72.

### 1960s

REUNION 2014: 1964 + 1969

**'67 Edward Rabinowitz** writes: "I have just completed my 13th year as the first College Psychiatrist for the School of Visual Arts in New York City. And I will have a watercolor exhibit in Rockland, Maine, at Acadia National Park, in May 2014."

### 1970s

REUNION 2014: 1974 + 1979

**'77** After 32 years as a practicing family physician in Michigan, **Bill Gifford** retired from full-time work in December 2012. This April he was honored by his family physician colleagues and the Michigan Academy of Family Physicians as the 2013 "Family Medicine Educator of the Year" at the Academy's Scientific Assembly in Troy, Mich.

**'79 Douglas Losordo** has been appointed chief medical officer of NeoStem, Inc., a New York-based company that is a leader in the emerging cellular therapy market. Douglas is a cardiologist and has done extensive cell therapy research. He is an associate editor of *Circulation Research*.

**Michael Stone** has joined Stamford Hospital in Connecticut as the new chair of the Department of Surgery. He joined the hospital from Boston University School of Medicine, where, since 2001, he served as chief of surgical oncology at Boston Medical Center, as well as vice chairman of surgery and professor of surgery.

### 1980s

REUNION 2014: 1984 + 1989

**'81** Sanofi, the pharmaceutical company, has appointed **David Meeker** to its Executive Committee. David was previously CEO of Genzyme, a Sanofi subsidiary. David joined Genzyme in 1994 as medical

director to work on its Cystic Fibrosis Gene Therapy program.

**'82** Agile Edge Technologies, Inc., in Virginia has named **Major General George W. Weightman** (Ret.) to its advisory board. George retired from the U.S. Army in 2009 after 36 years of military service.

**'85 Jay Piccirillo** is "Continuing clinical research and research training at Washington University in St. Louis. My third and final child is off to college."

**'88** In August, Colorado Gov. John Hickenlooper announced that **Larry Wolk** would be the next executive director of the Colorado Department of Public Health and Environment. Larry has two decades of leadership experience in various aspects of public health and healthcare. He previously was the CEO of the Colorado Regional Health Information Organization (CORHIO) in Denver. In his new role, Larry also serves as Colorado's Chief Medical Officer. In addition to his work at CORHIO, he is the founder and executive director of the Rocky Mountain Youth Clinics and he is a clinical professor in the Department of Pediatrics with the University of Colorado Health Sciences Center. Larry plans to continue his volunteer work with Rocky Mountain Youth Clinics.

### 1990s

REUNION 2014: 1994 + 1999

**'90 Daniel Zapson** writes: "Enjoying anesthesiology practice in South Florida, but missing New England. Already thinking about returning to Burlington in 2015 for our 25th reunion. Hope to see you there!"

**'91 Mark Leondires**, who is medical director and fertility specialist at Reproductive Medicine Associates of Connecticut, has been selected as a Castle Connolly Regional Top Doctor for his work the field of reproductive endocrinology and infertility.

**'93 Stanford R. Plavin** was recognized by *Becker's Spine Review* this summer as one of "176 Physician Leaders in the Ambulatory Surgery Center Industry." He has served as a member of Ambulatory Anesthesia of Atlanta since its inception and has been the managing partner for the last several years.

**'94** Praising her as a leader in clinical practice, education, research and the community, Brown University and Care New England Health System officials the August announced that **Maureen Glennon Phipps** will be the new chair of the Department of Obstetrics and Gynecology and assistant dean for teaching and research on women's health in the Warren Alpert Medical School of Brown University, and chief of Obstetrics and Gynecology at Women & Infants Hospital of Rhode Island and the executive chief of Obstetrics and Gynecology at Care New England. She will also hold the Chace-Joukowsky Professorship in Obstetrics and Gynecology.

**'96** In July, **Elizabeth Ames** was recognized by *Becker's Spine Review* in their feature on "10 Spine Surgeons Directing Residency Programs." Elizabeth is an associate professor and residency program director in the Department of Orthopedics and Rehabilitation at UVM/Fletcher Allen, where she also coordinates the musculoskeletal curriculum. She is also an attending surgeon.

### 2000s

REUNION 2014: 2004 + 2009

**'05 Hannah Swayze-Quinn**, a native of Tunbridge, Vt., is joining the Central Vermont Medical Center hospitalist team after recently completing her residency in Internal Medicine at Baystate Medical Center/Tufts University of Medicine in Springfield, Mass.

**'06 Sundip Karsan** reports: "Every year a few friends from the

## UPCOMING EVENTS

#### March 20, 2014

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

#### March 21, 2014

Match Day  
Noon  
Hoehl Gallery  
UVM Campus

#### March 22, 2014

Spring Medical Alumni Association  
Executive Committee Meeting

#### May 18, 2014

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

#### June 6–8, 2014

Medical Reunion Weekend 2014  
UVM Campus

#### October 10–12, 2014

UVM Homecoming &  
Family weekend  
UVM Campus

#### October 11, 2014

Alumni reception in conjunction with the American Academy of Pediatrics National Conference, (October 11–14, 2014)  
San Diego, Calif.

(All local alumni & friends welcome.)

#### October 27, 2014

Alumni reception in conjunction with the American College of Surgeons — Annual Clinical Congress (October 27–30, 2014)  
San Francisco, Calif.

(All local alumni & friends welcome.)

#### December 2, 2014

Alumni reception in conjunction with the Radiological Society North America (November 30–December 5)  
McCormick Place, Chicago, Ill.

(All local alumni & friends welcome.)

For updates on events see:

[www.uvm.edu/medicine/alumni](http://www.uvm.edu/medicine/alumni)

College of Medicine graduates are also members of the UVM Alumni Association. See those events at: [alumni.uvm.edu](http://alumni.uvm.edu)



proud class of 2006 pick a place in the U.S. to meet up for a weekend. This year the lucky spot was Chicago. We use the time to catch up and reconnect. We are already looking forward to next year!" Present this summer besides Sundip were **Andy Cummins** from San Diego, **Jeff Randazza** from Boston, and **Harry Abrahamian** from Glendale, Calif.

**'07 Amy Sekhon-Atwal** writes: "Although this is a little late, my husband and I were pleased to welcome our son, Himith Atwal, on December 19, 2012. The past several months with him have been amazing!"

**Gabrielle Jacquet** reports that she married Ted Fastert at the UVM Newman Center in June 2013. She just started a job as the director of global health and assistant residency Program Director at the Boston University Emergency Medicine Residency at Boston Medical Center.

**'08 Walter Schuyler** has joined Pain Specialists of Charleston, Penn.,

as a pain management physician. He recently completed an anesthesia residency at Maine Medical Center.

**'09 Bradley Cutler** has joined the Linden Oaks Medical Groups behavioral health team in Naperville, Illinois.

**Larry Najera**, who is a pain medicine physician, has joined the Silver Cross Medical Staff in OrlandPark, Illinois. Larry completed a psychiatry residency at Schwab Rehabilitation Hospital in Chicago.

## 2010s

**'10 Wayne Moss**, who is a resident with the University of Florida Department of Psychiatry, recently joined the staff at the Mental Health Walk-In Center of Vero Beach. Wayne is providing initial psychiatric evaluation and psychopharmacology for clients in need of medication.

This August, Southern Vermont Medical Center Pediatrics and the Dartmouth-Hitchcock Putnam

Physician Group welcomed **Meghan E. Gunn** to their team.

**'12** The College of American Pathologists (CAP) Foundation presented **Joanna Lin Conant** with the Leadership Development Award at a special ceremony in October at the College's annual conference in Orlando, Fla. Joanna is a resident at UVM/Fletcher Allen.

**'13** Six members of the Class of 2013 have begun their residencies as members of the U.S. Armed Services: **Javier Nestor De Luca-Johnson**, Lieutenant, United States Navy; **Chantell R. Hemsley**, Captain, United States Air Force; **Asya Mu'Min**, Captain, United States Army; **Phillip Robert Perrinez**, Lieutenant, United States Navy; **Jared Michael Sutherland**, Lieutenant, United States Navy; and **Jonathan Thomas**, Captain, United States Air Force.

## Ph.D. NOTES

**'73 William D. Niemi, Ph.D.** '73 writes: "I retired last year. After UVM I became a senior research associate at the College of Physicians & Surgeons of Columbia University, focusing on neuromuscular diseases and serving as lab instructor in physiology, followed by 32 years at the Sage Colleges in Troy, N.Y., where I taught physiology and did research on the effects of PCBs on the nervous system. During the latter time I also served as a visiting scientist at the Wadsworth Center in Albany, N.Y. At Sage I served as president of the Faculty Senate, president of Sage's AUUP chapter, and professor and chairman of the Biology Department."

**'96 Brenton Graveley** writes: "I am a professor in the Genetics and Developmental Biology Department at the University of Connecticut Health Center and associate director of the Institute for Systems Genomics at the University of Connecticut. My laboratory studies many aspects of RNA biology with an emphasis on alternative splicing in *Drosophila*. My laboratory was part of the NHGRI funded modENCODE project in which we characterized the complete transcriptome of *Drosophila*. More recently, my lab became part of the

ENCODE consortium and we are working on identifying the functional elements in the human genome recognized by 250 RNA binding proteins."

**'03 Brian McLellan** reports: "I completed a DMD from the University of Connecticut in 2003, in addition to my UVM Ph.D. Then a residency in Orthodontics and Dentofacial Orthopaedics from Eastman Dental Center (University of Rochester/Strong Memorial Hospital). I live and practice in the Madison, Wisconsin, area with my wife (a UVM School of Natural Sciences graduate) and three young children. I have fond memories of my time at UVM with Drs. Budd and Rincon and all the other talented scientists in the Given Medical Building!"

**Sean A. Diehl** reported in on his activities over the past ten years. After graduating from Cell and Molecular Biology (CMB) Program in 2003 from Mercedes Rincon's lab, Sean moved abroad to the Academic Medical Center in Amsterdam, The Netherlands, to perform mechanistic human immunology research with Hergen Spits, Ph.D. While at the AMC, Sean was funded by an NRSF F32 postdoctoral fellowship and helped to develop a novel platform technology to immortalize human B cells. Sean returned to his home department (Medicine) at the College of Medicine in 2009 as a research associate and is now assistant professor of Medicine in the Infectious Disease division, working on the UVM Vaccine Testing Center team. His current research interests are on the effect of malnutrition on the immune system and the role of prior infectious exposures on vaccine-induced cellular immune responses in humans. Sean is also a new faculty member of the Cellular and Molecular Biosciences program, the successor to the CMB program. Sean lives in Shelburne with his wife, two daughters and the same dog, Clover, whom he adopted while a Ph.D. student.

**'05 Krishnan Venkataraman** reports: "I graduated from the Microbiology and Molecular Genetics program and am now an associate professor of gerontology at Huntington University in Sudbury, Ontario, Canada."

## FLASHBACK



### View the Originals

To view several more of Dr. Hastings' 1950s slides and to see the previous Flashback 1970s photo with identifications, go to the *Vermont Medicine* website: [uvm.edu/medicine/vtmedicine](http://uvm.edu/medicine/vtmedicine)

## On the Wards at the DeGoesbriand

This issue's Flashback is an interesting photographic treasure — one of a series of four large-format color transparencies from the College of Medicine publicity files. The slide is mounted on a 5-by-8-inch card, with a long typewritten caption that reads in part: "Third year medical students spend their afternoons in local hospitals where they receive practical instructions from staff doctors and do physical examinations and take histories of ward patients." (As a comparison, today's medical students begin their clinical education very early in their first year.)

The white-coated students in the slide are not named. The photographer whose stamp appears on each slide card is an

interesting figure. "Philip R. Hastings" was, in fact, a 1950 graduate of the College of Medicine who went on to a distinguished career in Iowa, specializing in psychiatry. He was also well known to railroad enthusiasts, until his death in 1987, as one of the premier railroad photographers in the U.S. He published several books of photos of different rail systems in the steam era, two of which are in the collection of UVM's Bailey-Howe Library.

Do you recognize anyone in this photo, or have memories of Dr. Hastings you'd like to share? Write to [edward.neuert@uvm.edu](mailto:edward.neuert@uvm.edu) and we will include your information in a future issue of *Vermont Medicine*.



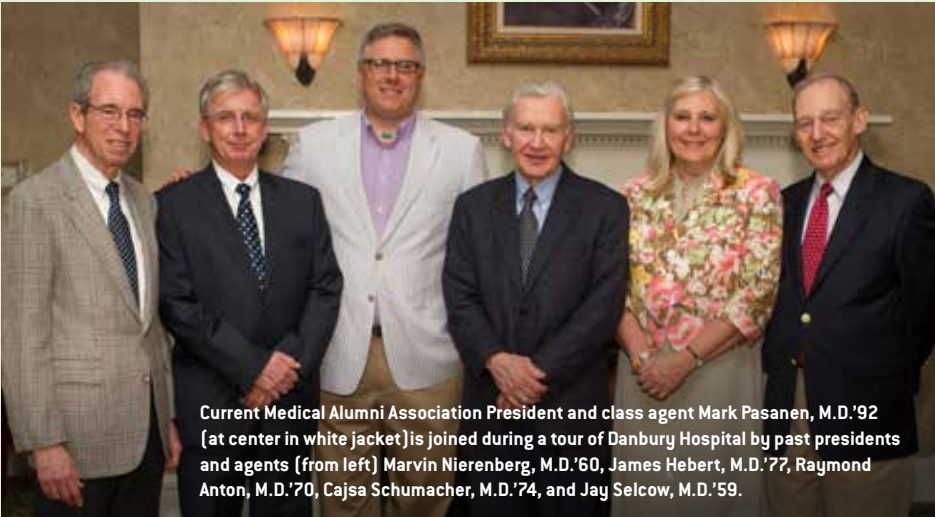
◀ The Flashback photo in the previous *Vermont Medicine* drew responses identifying several of the people pictured in old Hall B in the somewhat shaggier days of the 1970s. Cynthia Sprague, M.D., Cynthia Christy, M.D.'79, and Ralph Manchester, M.D.'79 wrote in to identify this as a large group of Class of 1979 members. Tim Plante, M.D.'11 ID'd his dad, Dennis Plante, M.D.'79. And Associate Professor of Pathology Emeritus Bruce MacPherson, M.D.'67 admitted to being the lecturer in the shot. "The photo must have been taken in 1975 or 1976," he guesses, "since we taught pathology to first- and second-year students at the time." Dr. MacPherson admits to even more: "I still have that 1970s sport coat — shabby, but wearable."



# 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) 656-4014 or **Cristin.Gildea@uvm.edu**.

- '43 Francis Arnold Caccavo, 51 Thibault Parkway, Burlington, VT 05401, (802) 862-3841, drcac@verizon.net
- '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
- '46 Please 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
- '48 Please 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
- '49 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
- '52 Arthur Perelman, 165 Woodland Ave., Summit, NJ 07901, (908) 277-6454, ajperelman@verizon.net
- '53 Please email **medalumni.relations@uvm.edu** if you'd like to serve as 1953 class agent.
- '54 John E. Mazuzan Jr., 366 South Cove Road, Burlington, VT 05401, (802) 864-5039, mazuzan@burlingtontelecom.net
- '55 Richard Bailey, 2100 Lambiance Circle, Apt 201, Naples, FL 34108, rhhboo@gmail.com
- '56 Ira H. Gessner, 1306 Northwest 31st Street, Gainesville, FL 32605, (352) 378-1820, gessnih@peds.ufl.edu
- '57 Larry Coletti, 34 Gulliver Circle, Norwich, CT 06360, (860) 887-1450



- '58 Peter Ames Goodhue, Stamford Gynecology, P.C., 70 Mill River Street, Stamford, CT 06902, (203) 359-3340
- '59 Jay E. Selcow, 27 Reservoir Road, Bloomfield, CT 06002, (860) 243-1359, jeselcow@comcast.net
- '60 Marvin A. Nierenberg, 15 West 81st Street, New York, NY 10024, (212) 874-6484, mnierenbergmd1@verizon.net
- '60 Melvyn H. Wolk, Clinton Street, P.O. Box 772, Waverly, PA 18471, (570) 563-2215, melliemar@aol.com
- '61 Wilfred L. Fortin, 17 Chapman Street, Nashua, NH 03060, (603) 882-6202, willy410@aol.com
- '62 Ruth Andrea Seeler, 2431 North Orchard, Chicago, IL 60614, (773) 472-3432, seeler@uic.edu
- '63 John J. Murray, P.O. Box 607, Colchester, VT 05446, (802) 865-9390, jackjmurray@aol.com
- '63 H. Alan Walker, 229 Champlain Drive, Plattsburgh, NY 12901, (518) 561-8991, awalker8991@charter.net
- '64 Anthony P. Belmont, 211 Youngs Point Road, Wiscasset, ME 04578, (207) 882-6228, apbfacp@gmail.com
- '65 George A. Little, 97 Quechee Road, Hartland, VT 05048, (802) 436-2138, george.a.little@dartmouth.edu
- '65 Joseph H. Vargas III, 574 US Route 4 East, Rutland, VT 05701, (802) 775-4671, jvargasmd@aol.com
- '66 Robert George Sellig, 31 Overlook Drive, Queensbury, NY 12804, (518) 793-7914, rsellig@aol.com
- '66 G. Millard Simmons, 650 Mystic Point Drive, Sun City Hilton Head, Bluffton, SC 29909, (843) 705-2264, milro@comcast.net
- '67 John F. Dick II, P.O. Box 60, Salisbury, VT 05769, (802) 352-6625
- '68 David Jay Keller, 262 Maplewood Common, Moretown, VT 05660, (802) 496-2623, dknk60@wcvt.com

- Timothy John Terrien, 14 Deerfield Road, South Burlington, VT 05403, (802) 862-8395
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- '73 Suzy Parker, lifeform22@aol.com
- '74 Douglas M. Eddy, 5 Tanbark Road, Windham, NH 03087, (603) 434-2164, dhkaeddy@att.net
- '74 Cajsa Schumacher, 78 Euclid Avenue, Albany, NY 12203, cajsa.schumacher@gmail.com
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- '77 James C. Hebert, 583 Stockbridge Road, Charlotte, VT 05445, james.hebert@vtmednet.org
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- '78 Paul McLane Costello, Essex Pediatrics, Ltd., 89 Main Street, Essex Junction, VT 05452, (802) 879-6556, pmcost@aol.com

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- '82 Diane Rippa, drippa82@gmail.com
- '83 Diane M. Georgeson, 2 Ravine Parkway, Oneonta, NY 13820, (607) 433-1620, dgeorgeson@stny.rr.com
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**'38 Ray W. Collins Jr., M.D.**  
Dr. Collins died September 14, 2013, in Middlebury, Vt. He was born in Brookline, Massachusetts, in 1914, while his father, Ray Sr., was a pitcher for the Boston Red Sox. The family moved to Colchester, Vt., in 1915 to operate the family farm. Dr. Collins graduated from UVM in 1935 with a BS degree in premedical science. After graduating from the College of Medicine, he completed a one-year rotating internship at Waterbury (Conn.) Hospital in 1939. He then completed a six-month residency in pediatrics and obstetrics at St. Francis Hospital in New York City, where he also received training in general surgery. From January 1942 to September 1945, he served as a U.S. Army surgeon on troop transport ships, both in the Atlantic and Pacific theaters. He returned to his surgical training at the University of Pennsylvania Graduate School of Surgery until June 1946, and then spent two years completing a teaching fellowship in surgery at UVM. He started a surgical practice in Burlington but also traveled weekly to Middlebury to perform surgeries there. In 1952 he moved his young family permanently to Middlebury. Dr. Collins was Middlebury's first full-time surgeon. Throughout his career spanning well into his 70s, he was an active force in Porter Hospital's management and development. He served on the Union District #3 School Board from 1955 to 1978, holding the position as chairman from 1968 to 1978. He created the Ray W. Collins Family Scholarship Fund at UVM to help young Vermonters afford a college education in the nursing and health sciences. In 1993 he received the Medical Alumni Association's A. Bradley Soule Award.

**'46 Howard MacDougall, M.D.**  
Dr. MacDougall died August 25, 2013, at his residence in Spring Garden Township, Penn. He was 92. Born in Hammonton, New Jersey, he was a 1942 graduate

of Rutgers University. After receiving his medical degree from UVM, he interned at Abington Memorial Hospital in Abington, Pennsylvania, in 1946 and 1947. He then joined the United States Army as a First Lieutenant and served in the U.S. Medical Corps in Korea and Japan until completing his tour in 1949 with the rank of Captain. Dr. MacDougall then entered private practice in Washington, Pennsylvania. In 1953 he joined his identical twin brother, Robert D. MacDougall in York, where they practiced family medicine until his retirement in 1991. From 1953 until 1970 they were also the physicians for Caterpillar, Inc., in York.

**'53 David Leslie Kendall, M.D.**  
Dr. Kendall died with his family at his bedside in New Mexico on Aug. 27, 2013. He was 93 years old. Born in Montpelier, Vt., he graduated from McGill University before receiving his medical degree from the UVM, which he entered after serving in World War II. He moved to Farmington, N.M., in 1958, where he opened his general surgery practice. He was inducted in the San Juan Regional Medical Center Hall of Fame in 2006.

**'54 John Joseph Cahill, M.D.**  
Dr. Cahill died August 3, 2013, at Kemper House in Kirtland, Ohio. He was born in 1928, in Middletown, Ohio. After earning his medical degree, he served his residency at The Cleveland Clinic. Dr. Cahill served in the U.S. Navy, stationed in Newport, R.I., and New London, Conn. He was a charter member of the American College of Emergency Physicians (A.C.E.P.) and developed the training and certification for the first Emergency Medical System (EMS) in Lake County, Ohio. He served on the boards of numerous community organizations, including the Willoughby Chamber of Commerce, where he served as president in 1970 and was honored with the Annual Distinguished Citizen's Award in 1981.

**'55 Arthur J. McPadden, Jr., M.D.**  
Dr. McPadden died in Altos Hills, Calif., on March 28, 2013. He was 85 years old. Born in Bridgeport, Conn., he attended the University of Connecticut from 1946 to 1947 before serving for two years as a U.S. Army sergeant stationed in Japan from 1948 to 1949. After his military service, and while working two jobs, he attended Lafayette College, where he was elected to the Phi Beta Kappa Society in 1950, and graduated in 1951, *summa cum laude*. After receiving his medical degree, he served an internship at St. Vincent's Hospital in Bridgeport, Conn. He completed his residency in pediatrics and earned a fellowship in endocrinology at Philadelphia Children's Hospital from 1955 to 1957. After three years of private practice in Bridgeport, he moved to California in 1962 to become a member of the Kaiser Permanente Medical Group. He was a beloved Kaiser pediatrician for 37 years and was honored as the "Outstanding Physician of 1990."

**'59 Americo B. Almeida, M.D.**  
Dr. Almeida M.D., who lived in Fall River, Mass., died on Aug. 29, 2013. He was 87. Born in Arrifes, São Miguel, in the Azores, he attended Southeastern Massachusetts University from 1948 to 1952, graduating with a B.S. in Chemistry, attended Brown University from 1952 to 1955, graduating with a M.S. in Physiologic Chemistry, before coming to UVM for medical school. He did an Internship in 1958 at DeGoesbriand Memorial Hospital and a rotating internship at Charlton Memorial Hospital in Fall River in 1959. From 1979 to 1988 he was the chair of the Department of Family Practice at Charlton Memorial Hospital. He later was chair for eleven years of the Department of Family Practice and on the Executive Medical Committee at St. Anne's Hospital in Fall River. From 1997 to 2011 he was the president and medical director of Prima CARE, P.C. of Fall River.

**'64 Herbert F. Hein, M.D.**  
Dr. Hein died on July 26, 2013. He was born in Brooklyn, N.Y., in 1938. He received a bachelor of arts degree in history from UVM before pursuing his M.D. Dr. Hein completed his internship at Newark Beth Israel Medical Center and his residency in ophthalmology at Mount Sinai Hospital in Manhattan. In 1965, he entered the United States Navy and then served a year in Vietnam with the Marine Corps. Afterwards, he built an ophthalmology practice in Newark. He served as the president of the medical staff at Saint James Hospital in Newark for two years.

**'65 John P. Keane, M.D.**  
Dr. Keane died on July 9, 2013 at Coastal Hospice at the Lake in Maryland. He was 73. A native of Boston, Mass., Dr. Keane received his Bachelor of Science degree in biology from Boston College, where he was president of the university student government and received the Stanton Prize as the outstanding pre-medical student. After earning his M.D. at UVM, he did his internship at the University of Rochester, Strong Memorial Hospital, in Rochester N.Y. He was a lieutenant commander in the Navy serving both aboard ship and in the U.S. Naval Hospital in Newport R.I. He came to Salisbury, Md., from the Cleveland Clinic, where he completed his residency in urology. While at the Cleveland Clinic, Dr. Keane was a member of the kidney transplant team. In 1979, a traumatic brain injury required him to retrain as a radiologist at the University of Pennsylvania. This difficult transition was successful and he returned to serve the Salisbury community. He provided medical care to the eastern shore for 21 years before his retirement in 1997. Dr. Keane's legacy is remembered at the College of Medicine through the endowed scholarship that bears his name.

**'77 David P. Granger, M.D.**  
Dr. Granger died Sept. 29, 2013. He was 61. After graduating from the College of Medicine he completed his pediatrics residency at West Virginia University Medical Center in Morgantown, W.V. After serving five years in the Medical Corps of the U.S. Navy as a commander, Dr. Granger moved to the Dallas, Texas area. He established his practice in the Rowlett/Rockwall area in May 1987. He was an active member of the medical staff of Lake Pointe Medical Center, where he served as Chief of Staff and Chairman of the Board of Trustees.

*We also note with sadness the passing of Raymond P. Koval, M.D. '52 on August 25, 2013, and that of S. James Baum, M.D. '48 on October 15, 2013.*

FACULTY

**Steven M. Grunberg, M.D.**  
UVM Professor of Medicine Steven M. Grunberg, M.D., died September 22, 2013. An outstanding teacher and beloved clinician, he was recognized around the world for his contributions to the care of patients with cancer. During his 20 years at UVM, Fletcher Allen Health Care, and the Vermont Cancer Center, he became a sought-after mentor and valued colleague. Dr. Grunberg earned his undergraduate and medical degrees from Cornell University. Following a residency at the University of California, San Francisco, he completed a medical oncology fellowship at the Sidney Farber Cancer Institute in Boston, now the Dana Farber. He then joined the faculty at the University of Southern California School of Medicine in Los Angeles, where he spent 12 years before joining UVM/Fletcher Allen in 1993 as Professor of Medicine, Director of Hematology/Oncology, and Associate Director for Clinical Research at the Vermont Cancer Center. Specializing in lung and head and neck cancers, he had a



prolific publication record and was internationally renowned for his work. At the time of his death, Dr. Grunberg was the president of the Multinational Association for Supportive Care in Cancer (MASCC). He had an outstanding record of active participation with the National Cancer Institute clinical research network, and chaired multiple research protocols and participated in many other clinical research studies. These studies will have long lasting and beneficial effects for cancer patients.

**John W. Heisse Jr., M.D.**  
Dr. Heisse died on Oct. 3, 2013. He was born in 1927, in Baltimore, Md. His formal education and training was received in Baltimore,

at the Friends School, Johns Hopkins University, University of Maryland School of Medicine, and Internship and Residency in Otolaryngology and Anesthesiology at Mercy Hospital. He was a clinical instructor at the College of Medicine, and also taught at the UVM School of Nursing, Champlain College, University of Maryland School of Medicine, Weeks Memorial Hospital (N.H.), and Copley Hospital (Vt.). Dr. Heisse served in the Navy during WWII as an electronic technician's mate, and liked to jokingly brag that due to that service no enemy submarines ever accessed the Great Lakes. In 1956, he moved from Baltimore to Burlington to begin his medical practice as

an otolaryngologist. In 2007 he moved to Shelburne's Wake Robin, where he remained until his death. He served his community as a long-term supporter and trustee of Champlain College (1970–1980) and was a 2012 recipient of an honorary Doctorate in Public Service from that institution. He was also an active member of the Service Corps of Retired Executives (SCORE).

**'45 Robert E. O'Brien, M.D.**  
Dr. O'Brien, a longtime resident of Winooski and Colchester, Vt., died September 29, 2013. He was born in 1921, and graduated from Saint Michael's College in 1942. After receiving his M.D. from UVM, he served his country as a Captain with the U.S. Army in World War II. He then interned at Mary Fletcher Hospital. He served his residency at St. Francis Hospital in Hartford, Conn., and served the Winooski community in private practice specializing in Internal Medicine and Cardiology for 50 years. He was a past president of Medical Staff at Fanny Allen Hospital, DeGoesbriand and Mary Fletcher Hospitals, and served on executive committees and many hospital committees. Dr. O'Brien was the first chief of medicine at Fanny Allen Hospital, and was founder and first director of Coronary Care Unit at Fanny Allen Hospital. Among his many organizational honors, he was a Life Member of the Vermont State Medical Society, and was chair of the Vermont Board of Medical Practice. He was president of University of Vermont Board of Trustees from 1972 to 1973, and a member of the Saint Michael's College Board of Trustees from 1975 to 2005. Among his academic awards was the College of Medicine Medical Alumni Association Award for Outstanding Service to Medicine and Community. He served as a clinical professor of medicine at the College of Medicine. Dr. O'Brien also served as Winooski Health Officer for 45 years.



October 18, 2013

3:12 p.m.

The College of Medicine Class of 2017  
whoops it up for its group photo  
following the White Coat Ceremony  
at Ira Allen Chapel.

photograph by Ed Neuert







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