Integrating Change

The Vermont Integrated Curriculum evolves to better serve today's students and faculty.
The UVM Medical Alumni Association invites you and your family to plan now to join your classmates for Reunion 2011 — June 10–12, 2011. Come back to Burlington and the UVM campus, your home during medical school. You may have lost contact with your classmates and former teachers, but Reunion will give you the chance to reconnect, rekindle old friendships, check out favorite places, talk with faculty, meet the medical students of today, and experience first-hand the growth and evolution of your medical alma mater.

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EVENTS INCLUDE: Medical Education Today Session • Tours of the College, including the Medical Education Center and new Courtyard Building • Alumni Awards and Reception • Medical Alumni Picnic • Nostalgia Hour • Class Receptions

Register today for your reunion! www.med.uvm.edu/alumni
Expanding Horizons

As health care changes, the Vermont Integrated Curriculum followed by medical students changes too, providing new ways to learn the caring arts, and new venues for that instruction.

By Sona Iyengar

16 Fostering Successful Science, and Scientists

UVM is distinguished by having taken full advantage of the National Institutes of Health’s program for growing new research, and research careers.

By Edward Neuert

You’re Never too Young to Learn

SmileDocs, Project Micro, and MedQuest are just some of the many ways in which students, faculty, and staff of the College of Medicine reach out to elementary, middle, and high school students and, in the process, help to build future generations of physicians and scientists for Vermont and the nation.

By Jennifer Nachbur

Philanthropy 2010

Alumni and friends showed strong support for the College of Medicine in fiscal year 2010. The Philanthropic Report recognizes those who have helped the College fulfill its missions.

ON THE COVER: Steven Schaub ‘12 examines a young patient during a clinical clerkship at Danbury Hospital. Photograph by Raj Chawla, UVM Med Photo.
Throughout 2010, our faculty, students, and staff moved the College of Medicine forward in the fulfillment of all our missions. Indeed, so much good work takes place here every day that advances education, research, patient care, and community engagement that it’s difficult to pick the perfect time to stop and review our progress. The fact is, there is no perfect moment to take a “snapshot” — this place is just too dynamic to hold still for the shutter. But the middle of the academic year seems like a reasonable time to try to capture a sampling of the important efforts and accomplishments at the College that you will find in this, our Year-in-Review issue of Vermont Medicine.

Our mission of educating the next generation of physicians for Vermont and the nation continued to advance in 2010. The College attracted an exceptionally bright, academically prepared, and diverse class of students, who will experience a revitalized Vermont Integrated Curriculum. In this issue you’ll read about those updates, including the introduction of three new clinical education sites, spanning from Maine to Florida. Along with our teaching hospital partner Fletcher Allen Health Care, we are committed to bringing a breadth and diversity of experiences to the future physicians who will call Vermont their alma mater. Elsewhere in the magazine you’ll see a sampling of the ways people at the College help to pave the way for medical students of the future by engaging young Vermonters who are interested in science and medicine.

In the last issue of Vermont Medicine we announced the record total of research funding garnered by our faculty across 16 departments. In these pages you can read about some of the scientists who are a part of that effort, building Centers of Biomedical Research Excellence on our campus, and mentoring the next generation of medical investigators.

All of our efforts are aided immensely by the generous philanthropy of our many donors whose contributions help to fund successful efforts in all our missions, and we are glad to acknowledge their gifts to us in this issue. Sadly, 2010 was notable also for the number of such friends who were lost to us, among them Houghton “Buck” Freeman, Thomas J. Sullivan, M.D.’66, Nan Frymoyer, and Robert Hoehl. Their engagement with our work and their important gifts to the College have had a significant impact on medical education, which will benefit our students and the physicians they will become, as well as physicians across Vermont and the patients they serve. They have left a legacy that will continue to inspire all of us at the College and they will be greatly missed.

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Landmark Study Supports Sentinel Node Biopsy

A less invasive surgical procedure for detecting breast cancer spread has for the first time been proven to achieve the same cancer survival and recurrence control as traditional lymph node removal surgery in patients whose initial sentinel node biopsy tested negative for cancer. These findings were reported in *Lancet Oncology* by an international team led by UVM Professor of Surgery David Krag, M.D.

The radiotracer technique Krag developed, sentinel node biopsy, involves the removal of only a few key lymph nodes versus axillary dissection, which removes all lymph nodes in the armpit for examination. Sentinel node biopsy produces fewer long-term side effects, such as chronic swelling of the arm, infection, and loss of mobility in the area where surgery occurred.

In addition to reduced long-term side effects, sentinel lymph node biopsy allows patients to return home on the day of the procedure, eliminates the need for a fluid drain at the surgical site, and reduces any need for physical therapy following the procedure. Begun in 1998, the ten-year study involved more than 5,000 study participants.

“What this means—beyond a shadow of a doubt—is that at least two-thirds of breast cancer patients do not need to have their lymph nodes removed,” says Krag. “There is a significant benefit to sentinel node biopsy when it comes to improved recovery and potential side effects, because the area heals so quickly.”

In addition to Krag, his UVM/Vermont Cancer Center co-authors on the sentinel node study include researchers Seth P. Harlow, M.D., Takamaru Ashikaga, Ph.D., and Donald L. Weaver, M.D.

Leahy Visits MRI Center for Biomedical Imaging

Senator Patrick Leahy visited UVM in October for an inaugural tour of the MRI Center for Biomedical Imaging, established and supported by nearly $4 million of federal funding secured by the Senator.

The MRI Center is an important resource for clinical and translational researchers at UVM and Fletcher Allen, who are engaged in 48 active projects that range from studying the brain to understand more about memory, to developing new methods for diagnosing abdominal issues in children. Researchers have been so successful in their efforts that in February 2009, the UVM MRI Center was chosen by Philips for the first installation in North America of its Achieva 3.0T TX, one of only four in the world at the time.

“Advanced tools like this MRI machine will allow UVM and Fletcher Allen to continue to attract top-notch faculty and personnel,” said Senator Leahy. “That is essential to maintaining and improving the level of quality health care we have in Vermont. I am proud to lend support to forward thinking, collaborative projects like this that will help Vermont lead in the 21st century.”
College Celebrates Latest Frymoyer Scholars

The John and Nan Frymoyer Fund for Medical Education has selected four program proposals for scholarship awards in 2010–11, including:

**Rycki Maltby, Ph.D., R.N.,** professor of nursing, **Linda “Sue” Greenfield, Ph.D., R.N.,** associate professor of nursing, and **Jan Carney, M.D., M.P.H.,** research professor of medicine, will collaborate on a project titled “Second Life: Simulating Public Health for Medical and Nursing Students.”

**Mark Gorman, M.D.,** associate professor of neurology, received a scholarship to develop a “Web-based Interactive Stroke Teaching” program for stroke care providers at UVM and Fletcher Allen and their associated facilities.

**Paula Duncan, M.D.,** professor of pediatrics, has developed a proposal, titled “Shared decision-making and strength-based approaches: Two educational modules to strengthen positive relationships and communication between health care professionals and their child/adolescent patients and their families to encourage healthy behavior choices.”

And **Laura Wright McCray, M.D.,** assistant professor of family medicine, developed a proposal with an overall aim of improving patient care. Titled “Preventing Burnout: The Development of a Medical Student and Resident Physician Wellness Curriculum.”

The Frymoyer Scholars program is an investment in outstanding medical education and promotes teaching that emphasizes the art of patient care. Scholars are selected based on the quality of their project proposal; the strength of the project’s contribution to improvement of the relationship between clinician and patient; and evidence of commitment to clinical education, commitment to project and support of department/division programs.

A Life of Education and Healing

**Nan Frymoyer, 1937–2010**

Nan Frymoyer, who died on September 14, 2010, was a former community health nurse and had a strong interest in patient advocacy that was based on her own experiences as a patient in the health care system. She served on the UVM College of Nursing and Health Sciences advisory board and helped plan and implement the Frymoyer Community Health Resource Center at Fletcher Allen Health Care. Nan was devoted to the notion of the healer-teacher, and the Frymoyer Scholars program stands as a memorial to both her and her husband’s tireless work in that area. The Frymoyer Scholars program at UVM is supported by The John and Nan Frymoyer Fund for Medical Education. John Frymoyer served as dean of the UVM College of Medicine from 1991 to 1999 and also served as CEO of Fletcher Allen from 1995 to 1997.


Heroic Research

The College of Medicine’s first graduate to receive a Purple Heart during the nation’s current conflicts in Iraq and Afghanistan, **Jonathan Martin, M.D.’97,** recently published findings on pediatric neurosurgical care in Iraq based on his experiences in 2007. Martin’s clinical article appeared in the September 2010 issue of the *Journal of Neurosurgery: Pediatrics.*

Martin received the Purple Heart in 2007 after sustaining a gunshot wound to the leg. He is shown at left receiving his award, and at right, “hitting the floor” with fellow military surgeon and UVM Professor of Surgery Michael Ricci, M.D., during a nighttime mortar attack on the base where both doctors were then stationed.

**Norman Ward, M.D.,** (at left) and Frymoyer Scholar Laura Wright McCray, M.D., speak with John Frymoyer, M.D.
Kirkpatrick and Team Study New Dengue Vaccine Formulations

A series of phase 1 clinical trials funded by the National Institutes of Health (NIH) was recently launched at the UVM Vaccine Testing Center and Johns Hopkins University to examine new tetravalent vaccine formulations against dengue fever infection. Since beginning a five-year research collaboration with NIH/National Institute of Allergy and Infectious Diseases and the Johns Hopkins Bloomberg School of Public Health in 2009, Beth Kirkpatrick, M.D., UVM associate professor of medicine and director of the Vaccine Testing Center, Kristen Pierce, M.D., assistant professor of medicine, and colleagues had been testing multiple formulations of dengue vaccine. Their trials are designed to test vaccine safety and effectiveness. UVM co-investigators on the trial include Caroline Lyon, M.D., assistant professor of medicine, and Ann Fingar, M.D., assistant professor of medicine.

Heil Co-Authors NEJM Opioid Study

Using buprenorphine instead of methadone — the current standard of care — to treat opioid-dependent pregnant women may result in healthier babies, suggests findings published in the Dec. 9 New England Journal of Medicine (NEJM) by an international research team including Research Associate Professor of Psychiatry and Psychology Sarah Heil, Ph.D. Buprenorphine, which is an alternative treatment for opioid dependence, has not been extensively studied in pregnancy. The team’s research revealed that babies born to mothers taking buprenorphine to counter heroin and/or prescription opioid addiction needed less morphine to treat drug withdrawal symptoms and spent half as much time in the hospital after delivery compared to babies born to mothers taking methadone. UVM co-investigators on the study, which was supported by the National Institute on Drug Abuse, include: John Brooklyn, M.D., clinical assistant professor of family medicine; Stephen Higgins, Ph.D., professor of psychiatry and psychology; Anne Johnston, M.D., associate professor of pediatrics; Marjorie Meyer, M.D., associate professor of obstetrics, gynecology and reproductive sciences; and Stacey Sigmon, Ph.D., research associate professor of psychiatry and psychology.

Rose Leads Interactive Voice Response-Based Alcohol Screening and Intervention Study

A new $3.3 million, five-year grant from the National Institute on Alcohol Abuse and Alcoholism will test the efficacy of an Interactive Voice Response (IVR)-based screening and brief intervention (SBI) program for use in primary care offices. Gail Rose, Ph.D., University of Vermont research assistant professor of psychiatry, is principal investigator on the grant.

The Japan-Vermont Connection

Since 2008, the College of Medicine has been engaged in a cooperative agreement with Japan’s Tottori Prefectural International Exchange Foundation. Tottori is the most rural prefecture in Japan, similar to Vermont’s role as the nation’s most rural state. In the past, faculty members from Tottori University College of Medicine have visited UVM, and medical students from both institutions have exchanged visits. Most recently, Masatoshi Kida, M.D., professor of pathology, joined Dean Rick Morin and his wife, Tracy, visiting Tottori in September 2010. They met with Tottori University president Takayuki Nose (above) and toured the university, including its agricultural department (below).
Colletti, ImproveCareNow Partners Receive Grant for National Pediatric Registry

A $12-million federal grant is funding creation of a medical registry system unlike any before it, providing information in real time on thousands of cases around the country — and eventually the world. The grant focuses on pediatric inflammatory bowel disease (IBD) and enhances an already successful collaborative network called ImproveCareNow, created by researchers and caregivers to improve the care of chronically ill children and directed by Professor of Pediatrics Richard Colletti, M.D.

The grant, which was awarded to Cincinnati Children’s Hospital Medical Center as the lead site, involves an extraordinary collaboration among seven institutions, including UVM, where ImproveCareNow is based. The new registry will make available data about symptoms, treatments and outcomes for patients at multiple locations. It will allow doctors and researchers to assess various conditions and options on past and present cases, providing a searchable database — never possible before — about which procedures are having the greatest positive impacts on patients.

This grant builds on the research from a 2009 $8 million “transformative” research grant from the National Institutes of Health to create a network of patients, clinicians and researchers to improve management of chronic care.

Rather than waiting months or years for peer-reviewed papers to be published on outcomes involving a relatively small number of patients, the new registry will allow information to flow directly from patients’ electronic medical records into the database, creating a real-time body of shared knowledge that can be accessed and reviewed immediately, making best practices and corresponding outcomes available to clinicians, researchers, hospitals, clinics, administrators, policymakers, and even patients themselves.

The registry is the next step in what has been a successful effort over the past four years among caregivers and researchers who have been sharing information on IBD through the ImproveCareNow network of physicians, which includes nearly 30 different sites taking care of thousands of patients. By sharing information and comparing notes, doctors have been able to improve remission rates for patients with IBD by as much as 20 percentage points over just the past three years.

While this award focuses on the ImproveCareNow network and IBD, it also serves as a pilot for implementation of a nationwide consortium of academic health centers that propose to share electronic health records and related clinical data for the purposes of transforming children’s healthcare. The network was launched at an October meeting of the Institute of Medicine and is called PEDSNet.
VMS Recognizes UVM Faculty

At its annual meeting in November, the Vermont Medical Society (VMS), recognized several award recipients, including Neil Hyman, M.D.’84, Samuel B. and Michelle D. Labow Professor of Surgery, who received the 2010 Physician of the Year Award. Hyman was recognized for his outstanding performance in the quality of care given to his patients, and his demonstrated dedication to their welfare. Barbara Frankowski, M.D., professor of pediatrics, received the Physician Award for Community Service. Her award recognized her outstanding record of community service apart from her specific duties as a physician.

Paula Duncan, M.D., professor of pediatrics, was named president of the VMS at the meeting. Duncan is the Youth Project Director for the Vermont Child Health Improvement Program. She serves as chair of the American Academy of Pediatrics Bright Futures Implementation Advisory Committee and co-editor of the third edition of Bright Futures Guidelines for Preventive Services. She previously served as the Maternal Child Health Director and as the principal assistant to the secretary of the Vt. Agency of Human Services.

Also elected by VMS members as vice president of the society was Norman Ward, M.D., associate professor of family medicine at UVM/Fletcher Allen. Ward has been a member of the UVM faculty since 1987.

First Receives National Communications Award

Lewis First, M.D., professor and chair of pediatrics, received the 2010 Holroyd-Sherry Award at the American Academy of Pediatrics (AAP) National Conference and Exhibition on October 2 in San Francisco, California. Presented annually by the AAP Council on Communications and Media, the Holroyd-Sherry Award recognizes an AAP member whose outstanding contributions have demonstrated the powerful influence mass media have on the health and well-being of children and adolescents. First, who is also chief of Vermont Children’s Hospital at Fletcher Allen Health Care, was recognized for his role in the program “First with Kids” — a medical advice program for families, which airs on television and radio and is featured in a column in community newspapers.

Lewis Recognized for Innovation in Education

The Association of Directors of Medical Student Education in Psychiatry (ADMSEP) presented Judith Lewis, M.D., associate professor of psychiatry, with an Innovations Award at the organization’s 36th Annual Meeting this past summer. Lewis was honored for developing a set of online multimedia educational modules for medical and nursing students. Andrew Verhelst, senior developer in the College of Medicine’s COMET office, collaborated with Lewis on the design of the modules. The project was supported by a Frymoyer Scholarship Lewis received in 2007.

Ward Named Chair of PLoS Board

The board of directors of the Public Library of Science (PLoS) has appointed Gary Ward, Ph.D., professor of microbiology and molecular genetics, as board chairman. Ward, a charter member of the PLoS Biology Editorial Board, has a longstanding association with PLoS and was recognized by the organization for his expertise in and support of Open Access — a policy of providing free, public online access to scientific research literature. Ward joined the UVM faculty in 1996, and currently serves as co-director of the Vermont Center for Immunology and Infectious Diseases at UVM.
The college received 5,516 applications for the 114 positions in the Class of 2014, who began their first year in August 2010.

Total Medical Students .................................................. 452
In-State ........................................................................ 28.5%
Women .......................................................................... 49.3%
Men .............................................................................. 50.7%
Graduate Students ......................................................... 121
Post-Doc Fellows & Associates .................................... 59
MD-PhD Students .............................................................. 18

Class of 2014
Median undergraduate GPA ........................................ 3.69
Median MCAT — Verbal ................................................. 10.0
Median MCAT — Physical Science ................................ 10.0
Median MCAT — Biological Science ............................ 11.0
Science and Math Majors ............................................. 50%
Average Student Age .................................................. 24.6 years

Students come from 22 states, and speak 25 native languages.

GRADUATES/ALUMNI
Class of 2010
2010 graduates went on to residencies at 66 institutions across the nation, including Stanford Hospital, Duke University, Yale-New Haven Medical Center, the Mayo Clinic, Massachusetts General Hospital for Children, and Fletcher Allen Health Care.

Percentage of Vermont physicians educated or trained at the academic health center ...................... 38%

Alumni
Number of living alumni of the College .................. 4,135
Alumni who live in New England ...................... 46%
Percentage of Alumni who contribute philanthropically ...... 35%

The College is among the top medical schools in the nation for percentage of medical alumni who give each year.

ENDOWMENTS (Market Value as of June 2010)
Department Support ...................................................... $55,627,354
Scholarship .............................................................. $19,326,155
Total Endowment Value ........................................ $74,953,509

PRIVATE GIFT REVENUES
Private philanthropy to the College of Medicine from alumni, friends, and organizations totaled $13.2 million for fiscal year 2010 For more detailed information about philanthropy, see page 44.
FACULTY
Basic Science .................................................... 76
Clinical ............................................................... 553
Volunteer (Vt, Maine, NY) ................................. 1,632
Staff ................................................................. 454

DEPARTMENTS
Basic Science .................................................... 5
Clinical ............................................................... 11

RESEARCH SUPPORT
Total dollars..................................................... $89.3 million

There was a total of 342 research projects active at the College in 2010, with 153 principal investigators. Funding was up $11 million over 2009, and represents 61 percent of the total UVM research funding. The National Institutes of Health (NIH) support three Centers of Biomedical Research Excellence at UVM, which focus on neuroscience, lung biology, and immunobiology, respectively. College of Medicine researchers have also garnered three NIH Challenge Grants and a Grand Opportunity Award supported by the American Recovery and Reinvestment Act (ARRA). The College had a total of 57 ARRA awards worth $18.6 million.

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.

The Courtyard at Given was awarded Gold LEED certification in 2010, and received Efficiency Vermont’s “Best of the Best” award. Facilities projects under construction or development are Given Research Labs, Clinical Simulations Laboratory, and, at the Colchester Research Facility, an Inhalation Facility, COBRE Immunology Lab, and the State Public Health Collaboration.
Health care changes, and the Vermont Integrated Curriculum evolves too — moving onward and outward as the College of Medicine sends students to clerkship sites throughout the East, and prepares a new state-of-the-art clinical simulation laboratory.
When third-year medical student Auna Otts Leatham got off the plane in West Palm Beach on her way to a pediatrics clerkship last August, she felt the hot, humid air on her skin, and she let out a sigh: it felt like home. Leatham spent part of her childhood in Florida; her parents live in Orlando. She was looking forward to being near home — and excited at the chance to practice medicine in a different part of the country.

Leatham and a handful of her UVM classmates are gaining clinical experience at three new clerkship sites before the programs are rolled out to all clerkship level students in March. The new programs — at Danbury Hospital in Connecticut, Eastern Maine Medical Center in Bangor and St. Mary’s Medical Center in West Palm Beach, Florida — are just one of several important changes taking place this year. From training with electronic medical records to building a new Clinical Simulation Laboratory to expanding a course on student reflection, communication and professionalism, the Vermont Integrated Curriculum (VIC) is continuing to evolve to meet the changing needs of students and patients.

“The nature of health care is changing, medical education is changing and technology is changing,” says William Jeffries, Ph.D., senior associate dean for medical education. “We’ve been able to leverage all of those opportunities and produce a couple of big innovations.”

Ultimately, the changes underway will provide students with a more practical understanding of health care, says Jeffries. “Our students are going to have more clinical experiences earlier, which means they’re going to be more prepared for actual health care once they hit the clerkships,” he says. “When they get to the clerkships, they’re going to be exposed to a wider array of patients and a wider array of physicians and systems. They’re also going to be aided by a new course that helps them make sense of all of it.”

Preparing for new clerkship sites began several years ago in anticipation of the end of the College’s affiliation with Maine Medical Center. Even by increasing the number of students at Fletcher Allen Health Care, the College’s primary teaching hospital, the number of available clinical slots just didn’t add up, Jeffries says. So the College established clinical teaching partnerships with three additional sites, which students will rotate through in addition to Fletcher Allen. The three new sites give students a wide range of patients, systems, and pathologies to learn from, Jeffries says. St. Mary’s Medical Center in West Palm Beach, for example, is a community hospital with a diverse patient population, many of whom are underserved.

Leatham, who spent seven weeks at St. Mary’s, said the majority of the patient population was Hispanic, Haitian, or African-American, with Caucasians being a minority. “It was pretty exciting because we saw some pathology we don’t normally see in Vermont,” she says, referring to cases of sickle cell disease and large numbers of patients with of HIV.

Barbara Barrett, director of Medical Staff Services at St. Mary’s, serves as one of the main contact people for the students, helping them with everything from schedules and directions to finding good restaurants to supplying a needle and thread. “It’s nice to see them come here and be so excited about the type of medicine and patients we have to offer,” she said.
The relationship with St. Mary’s not only benefits students and helps with patient care — it also gives physicians a chance to teach and stay on top of the latest technology, news and advances in their field, Barrett said. The hospital hosts students in other health professions, but hasn’t had medical students previously.

Physicians at Danbury Hospital in southwestern Connecticut — a large regional medical center about five hours from Burlington — have some experience with teaching medical students. Eitan Kilchevsky, M.D., who directs clinical clerkships, as well as the pediatric clerkship at the hospital, is impressed with the UVM students and their eagerness to study. “They’re being proactive in the education they receive, in making sure the education they receive is really what they expected,” he said. “It shows maturity and an eagerness to learn.”

UVM students will also begin clerkships this March at Eastern Maine Medical Center in Bangor, Maine — the second largest hospital in Maine, which serves approximately two-thirds of the state. “They are going to get a tremendous amount of experience at this site,” Hunter Sharp, M.D., director of medical education at Eastern Maine, said of UVM students. “They’re going to have a lot of hands-on.”

Shannon DeGroff ’12, who helped test out the Bangor program this past autumn, sees a benefit to having different clerkship sites. “It’s good to get that experience down . . . to realize that you’re going to have to change your way of thinking, and understand that there are different systems.” DeGroff, a native of Southern California, also has enjoyed being near the Maine coast. She went hiking in Acadia National Park when she first arrived, and has discovered a few good restaurants in town. On an afternoon in December, she had just come from a psychiatry lecture by UVM faculty — held in Burlington — which she attended through interactive video-conferencing. The technology allowed her to ask questions and be an active part of the session.

**An infusion of technology**

New technologies are having a significant impact on medical education, Jeffries says. A key example is clinical simulation. UVM is expected to complete construction of a new 9,000-square-foot Clinical Simulation Laboratory, on the second floor of the Rowell Building, in early 2011. The facility, created as a central hub and resource serving the College of Medicine, College of Nursing and Health Sciences and Fletcher Allen, as well as the Vermont National Guard, is funded by a generous gift from a College of Medicine alumnus, the late Thomas Sullivan, M.D.’66, along with a federal grant secured by U.S. Senator Patrick Leahy.
Our students are going to have more clinical experiences earlier, which means they’re going to be more prepared for actual health care once they hit the clerkships … when they get to the clerkships, they’re going to be exposed to a wider array of patients and a wider array of physicians and systems. They’re also going to be aided by a new course that helps them make sense of all of it.

—William Jeffries, Ph.D., Senior Associate Dean for Medical Education

The Expanded World of Clerkships

Starting in March, third-year UVM medical students will experience a redesigned clerkship year, and have the opportunity to do clerkships at four different hospitals.

With the new structure, there are seven different schedules of evenly spaced clerkship types, says Tania Bertsch, M.D., director of the Clinical Education and Assessment. Each student will choose a rotation schedule through a lottery system. They will be with a group of up to 17 students who will follow that rotation schedule all year.

At a second lottery, students are assigned a location — either Fletcher Allen Health Care in Burlington, the College’s continuing main partner in clinical education, Danbury Hospital in Connecticut, St. Mary’s Medical Center in West Palm Beach or Eastern Maine Medical Center in Bangor. The students will spend seven weeks at the site they are assigned to and while there, will participate in lectures and presentations in Burlington via interactive video-conferencing at each site.

Students will then return to Burlington for the one week Bridge Clerkship — a course that focuses on issues in professionalism and ethics, and applying foundational science to clinical cases — before starting their next rotation.

From top: Shannon DeGroff ’12 did a neurology clerkship at Eastern Maine Medical Center in November. Jessica Sayre ’11 assists Maj Eisinger, M.D., at Fletcher Allen Health Care; Makeda Semma ’12 (left) assists Sameer Kaiser, M.D., in surgery at Danbury Hospital; Michael Visker ’12 discusses a patient with Janis Jones, M.D., at St. Mary’s Medical Center in West Palm Beach.
At the lab, which has been functioning on a smaller scale in temporary space for more than a year, students practice clinical skills on whole body mannequins, as well as partial body-part models used to develop specific skills. UVM’s nationally recognized Standardized Patient Program, where community members serve as instructors and act the part of patients with different clinical conditions, will also play an important role.

The new simulation lab, overseen by Director of Clinical Simulation and Professor of Surgery Michael Ricci, M.D., will have six patient rooms, built to closely resemble patient rooms at Fletcher Allen, in addition to a multi-purpose room for OR, ER and ICU simulations; a virtual reality lab; a professional skills lab; and debriefing rooms. Simulation mannequins contain very sophisticated computer technology, with pulses and heart beats. They can mimic many clinical conditions. One mannequin, named Noelle, actually “gives birth.” In addition, the mannequins are wireless and mobile; they can be moved to patient rooms throughout Fletcher Allen, travel to locations in the community, or be hooked up in an ambulance.

"it is practice without risk and practice on demand." 
— Cate Nicholas, Ed.D., M.S., P.A., Director of Standardized Patient Program
Clinical simulation is an important way to help reduce medical errors and improve patient safety, College leaders say. Currently, clinical education heavily relies on time and chance, said Cate Nicholas, Ed.D., M.S., P.A., the College’s director of clinical skills education. With simulation, students can practice any clinical skill and procedure when they need it, Nicholas said. “It is practice without risk and practice on demand.”

As an example, Jeffries notes that students can now practice suturing artificial skin, inserting IV bags and learning how to do a lumbar puncture. And Fletcher Allen residents and house staff are using simulators to practice inserting central lines for chemotherapy — to improve skills at all levels.

**EMRs in the classroom**

Another new technology now part of the curriculum is the electronic medical record. The College is using Fletcher Allen’s electronic medical record, called PRISM, to train medical students as part of its clinical skills program.

First-year students are now learning clinical skills and documentation with the EMR, says Cynthia Forehand, Ph.D., director of Foundations and Pre-clinical Assessment. For example, when students learn the basic physical exam and go to write up their history, they are doing it in PRISM, and it is graded in PRISM, she said.

Plans are also underway to use the Standardized Patient Program to help test out best practices for using the EMR at Fletcher Allen, for quality improvement purposes, Jeffries says.

**Time for Reflection**

Along with the experience of new technologies — and new clerkship sites — there will be increased opportunities for reflection. Starting in March, third-year students will be offered a new course — an expansion of Professionalism, Communication and Reflection, or PCR — previously called Medical Student Leadership Groups.

PCR is currently offered through the first 18 months, up to the end of the Foundations level, but will now be expanded into the clerkship year. It will allow students to come together to discuss more sophisticated topics and process the clinical learning they’ve witnessed, as well as discuss issues of professionalism, coping, and wellness, Jeffries says.

“It’s well known now that one of the essential clinical skills of a physician is reflection,” Jeffries says. “In order to improve yourself and improve the system that you work in, you have to be able to digest what you’ve seen, reflect on it and form a new plan for action each time — both for the benefit of your patients and the benefit of your own well-being.”

For example, with clinical simulation, Nicholas says, the real learning takes place not in the simulation itself, which typically runs for eight minutes, but in the 45-minute debriefing that follows. Students are asked to reflect on what they felt, as well as what worked and didn’t work.

Having time to process and evaluate also is essential for the progress of the VIC and medical education. Jeffries notes that the VIC’s strong evaluation component allows the College to continually look at what’s working and not working, and revise the curriculum on an ongoing basis.

Nicholas agrees. “We don’t need to go through any monumental shifts. The VIC was built to evolve, to continually evolve. . . . If we didn’t have that strong foundation, we wouldn’t be able to do what we’re doing now. That’s what makes us unique.”
FOSTERING SUCCESSFUL SCIENCE, AND SCIENTISTS
THE UNIVERSITY OF VERMONT’S CENTERS OF BIOMEDICAL RESEARCH EXCELLENCE

by Jennifer Nachbur  |  photography by Mario Morgado

Combine one part intellectual curiosity, one part self-motivation and liberal amounts of observation, support, and interaction. Mix thoroughly for best results. This could, broadly, be the recipe for fostering scientific success. Two decades ago, the National Institutes of Health (NIH) recognized how important such a careful mixture can be to ensuring that early-career scientists achieve a high level of productivity, produce high-quality experiments, and attract independent extramural funding, a process that helps build research capacity at institutions. In 1993, NIH established the Institutional Development Award Program (IDeA) to broaden the geographic distribution of NIH funding for biomedical and behavioral research. Supported by the National Center for Research Resources (NCRR) Division of Research Infrastructure, the IDeA’s Centers of Biomedical Research Excellence program (commonly known as COBRE) supports the establishment of disease-specific research centers that involve a multidisciplinary group of investigators.

The College of Medicine has distinguished itself by receiving funding for three COBRES over the past eleven years, in the fields of Neuroscience, Lung Biology, and Immunology and Infectious Diseases. The COBRE in Lung Biology recently "graduated" to phase 3 status following successful five-year phase 1 and phase 2 funding cycles. According to Cynthia Forehand, Ph.D., co-principal investigator of UVM’s Center for Neuroscience COBRE and professor of anatomy and neurobiology, phase 1 of the COBRE focuses on building excellence, supporting core facilities and junior faculty, and linking junior principal investigators (PIs) with senior faculty mentors with demonstrated expertise in the project focus area. “There are lots of ways to support faculty on COBRE, not just the traditional junior PI who graduates,” shares Forehand. “The neuroscience COBRE has supported nine junior PIs, five of whom have received...

"[THE NEUROSCIENCE COBRE] HAS ALSO ALLOWED US TO BRING ON EIGHT ADDITIONAL FACULTY WITH PILOT PROJECTS... AND SEVEN OF THOSE INVESTIGATORS HAVE GONE ON TO RECEIVE RELATED EXTERNAL FUNDING.”

—Cynthia Forehand, Ph.D., co-principal investigator of UVM’s Center for Neuroscience COBRE and professor of anatomy and neurobiology
extramural support for projects directly related to COBRE, but it has also allowed us to bring on eight additional faculty with pilot project monies or start-up support, and seven of those investigators have gone on to receive related external funding,” she adds.

One example of the COBRE model’s success is Beth Kirkpatrick, M.D., associate professor of medicine and director of the UVM Vaccine Testing Center, whose original COBRE project focused on Cryptosporidium parvum, a parasite that is widely considered to be the most ubiquitous and deadly waterborne pathogen in the developing world.

“Beth is a vital member of the Vermont Center for Immunology and Infectious Diseases and one of the College of Medicine’s emerging stars,” says Kirkpatrick’s mentor Ralph Budd, M.D., professor of medicine, director of immunobiology, and co-director of the Center for Immunology and Infectious Diseases COBRE. “She’s a self-starter who is energetic, incredibly organized, and has a keen sense of the overlap between basic immunology and microbiology and vaccine development. Beth single-handedly put together a phenomenally successful vaccine clinical trials center, which has received funding from numerous agencies, including NIH,” says Budd. In the last few years, vaccine center has performed important research helping to stem the spread of infectious diseases.

Self-described as a “bit of a late-bloomer,” Kirkpatrick had her initiation into research after her medical school and residency, during an infectious disease fellowship with two “rock stars” in the field. Working with Cynthia Sears, M.D., and David Sack, M.D., of Johns Hopkins’ Center for Global Health and Bloomberg School of Public Health respectively, she gained a strong foundational understanding of basic science immunology and vaccine development models while conducting field study in Haiti.

Arriving at UVM/Fletcher Allen in 1999 as a full-time clinician with a field trial in tow, she subsequently launched a typhoid vaccine trial, applied for an NIH K08 Career Development Award with Budd and by 2004, had transitioned her focus to 25 percent clinical and 75 percent research. Her lab is now kept very active by the UVM Vaccine Testing Center’s formal clinical trials, as well as exploratory immunological research and pending field studies supported by a brand new grant from the Bill & Melinda Gates Foundation.
UVM COBREs AT-A-GLANCE

UVM’s Centers of Biomedical Research Excellence (COBRE), have been established by funding from the National Center for Research Resources of the National Institutes of Health. COBRE grants are designed to strengthen an institution’s biomedical research capacity through flexible support to expand and develop biomedical faculty research capability and enhance research infrastructure through support of multi-disciplinary centers.

COBRE funds are used in part to support existing junior investigators, as well as to recruit new faculty. This enables the institution to establish a critical mass of investigators in a particular area and enhance their competitiveness for other traditional NIH support. Support is also provided for maintaining state-of-the-art core facilities as well as active seminar series.

A given institution can receive no more than three COBRE grants. UVM has distinguished itself in receiving three such awards:

COBRE IN NEUROSCIENCE

Lead investigators are Rodney Parsons, Ph.D., chair and professor of Anatomy and Neurobiology, and Cynthia Forehand, Ph.D., professor of Anatomy and Neurobiology.

Faculty supported in current neuroscience projects are Alan Howe, M.D., Miguel Martin-Caraballo, Ph.D., Jeffrey Spees, Ph.D., and Uma Wesley, Ph.D.

The Neuroscience COBRE also supports Cell/Molecular and Imaging/Physiology core facilities.

COBRE IN LUNG BIOLOGY

Lead investigator is Charles Irvin, Ph.D., professor of Medicine and Molecular Physiology ad Biophysics, and director of the Vermont Lung Center.

New pilot grants under this COBRE are supporting projects by Anne Dixon, M.D., Sean Diehl, Ph.D., Charles Irvin, Ph.D., Matthew Poynter, Ph.D., Mercedes Rincon, Ph.D., Benjamin Suratt, M.D., and Matthew Wargo, Ph.D. Drs. Diehl, Rincon, and Wargo are co-funded for pilot studies through the immunology COBRE.

COBRE IN IMMUNOLOGY AND INFECTIOUS DISEASES

Lead investigators are Ralph Budd, M.D., professor of Medicine, and Gary Ward, Ph.D., professor of Microbiology and Molecular Genetics.

Faculty supported in current immunology and infectious disease projects are: Jonathan Boyson, Ph.D., Oliver Dienz, Ph.D., Jane Hill, PD, Christopher Huston, M.D., Beth Kirkpatrick, M.D., Jason Botten, Ph.D., Matthew Wargo, Ph.D.
One of the early mentors of Matthew Rand, Ph.D.’95, taught him to embrace work from the ground up — from creating the simplest of buffers at the lab bench to interpreting significant data — versus only focusing on one arm of the project. “I’ve held onto that sense; instead of just reaching for the lowest hanging fruit, I approach the work with that style, especially when I launch into new arenas,” says Rand, a research assistant professor of anatomy and neurobiology.

Rand was a member of the initial Neuroscience COBRE at UVM when it began nine years ago. After studying blood clotting as a graduate student, he pursued a postdoctoral fellowship with blood-clotting scholar Johan Stenflo at Sweden’s Lund University, during which his research interest broadened to studying neural cell receptors that shared similar structural characteristics with blood-clotting proteins. Today, his work focuses on mercury neurotoxicity and its effect on neurodevelopment in fruit flies, and collaborations with his Swedish colleagues continue.

The hot field of stem cell research keeps Daniel Weiss’s lab buzzing with activity. Always curious and interested in identifying novel approaches to curing lung diseases, Weiss was originally designated for a COBRE grant when recruited by mentor Charles Irvin, Ph.D., professor of medicine and director of the Vermont Lung Center. He was able to secure alternative funding quite soon thereafter, funding that set him on his current course studying the ability of a potent type of adult stem cell — mesenchymal — to grow new lung tissue in diseased and damaged lungs. An associate professor of medicine who holds both M.D. and Ph.D. degrees, Weiss initially examined the benefits of gene therapy and then expanded to studying whole cells and finally stem cells during his tenure at the University of Washington, where collaborations with mentor H. Denny Liggitt, current chair of comparative medicine, assisted his research progress in this area.

“Dan is an innovative investigator,” says Polly E. Parsons, M.D., professor and chair of medicine. “He has developed a national reputation for his work in stem cells and lung disease and is the founding chair of an internationally recognized meeting of stem cell biologists.”

— Polly E. Parsons, M.D., Professor and Chair of Medicine
the University of Vermont and allows us to showcase our investigators.”

To maintain research momentum, COBRE researchers rely heavily on what Kirkpatrick describes as “reciprocal mentoring” — seeking out and sharing advice and knowledge with peer and senior colleagues to stay abreast of new avenues, potential collaborations, and funding opportunities. In addition, says Kirkpatrick, “Mentees keep you on your toes, they keep ideas moving.”

One of those idea-movers for Kirkpatrick is Kristen Pierce, M.D.’03, assistant professor of medicine, who also works on the dengue vaccine project. “Beth constantly encourages me to accept new challenges and responsibilities while providing support and direction to foster these efforts and ensure that I have the tools to succeed,” says Pierce. “In working together on the dengue vaccine, she has trusted me with more and more responsibility, yet still provides support and teaching.”

UVM has a long-standing history, which the COBREs have helped to foster, of supporting the professional development of not only graduate students and postdoctoral fellows, but technicians too. Rand is one of three former technicians who have earned their Ph.D.’s in the UVM lab of Professor and former Chair of Biochemistry Kenneth Mann, Ph.D. And Weiss, who finds technicians equally as enthusiastic about the work and science as grad students and post-docs, is, along with technician Amanda Daly, co-mentoring local high school student Pooja Desai. Daly assists Desai with an independent project focusing on Weiss’s research examining the effect of stripping cells from cadaveric lungs and seeding them with a patient’s own stem cells in an effort to create new healthy lungs.

Nearly a decade into the process, the COBRE model has helped foster dozens of new scientific careers, and brought UVM and Vermont increased research activity. And in just the past 18 months or so, the faculty mentioned here have generated approximately $7 million in new research funding.
You’re never
The sounds of a second grade classroom on a December afternoon are usually not described as muted, but for the students of Sue Catozzi at St. Francis Xavier School in Winooski, Vt., the most interesting sound one such afternoon was the muffled, steady thump-thump-thump of their classmates’ hearts, heard through the stethoscopes belonging to UVM medical students. This classroom was part of the SmileDocs program, a 15 year-old effort that brings medical students into elementary schools to teach elementary children about health and the human body. SmileDocs is just one of several ways in which students, faculty members, and staff of the College of Medicine reach out to elementary, middle, and high school students and, in the process, help build interest in science and health-related careers.

Second-year medical student Amanda Schwartz leads the medical student interest group of about two dozen students who regularly head out to local elementary schools to run SmileDoc sessions. These groups visit the same classrooms several times in a semester, with one of a number of educative modules that have been developed by the group.

Even in elementary, middle, and high school, students get a taste for careers in the health sciences.
At top: Torin Maggiani of Essex High School learns about eye examination by performing one on standardized patient instructor Kenny Bassett in the simulation laboratory at UVM. Bottom left: SmileDocs participant Jared Sutherland ’13 explains lung function to two second graders at St. Francis Xavier School in Winooski; bottom right: UVM's Project Micro visits a Vermont middle school; facing page: MedQuest alumna and current medical student Gwen Fitz-Gerald instructs a high-school participant during the 2010 MedQuest health careers camp.
Microscopes Find New Life in Vermont Schools

This fall, the College of Medicine gave new purpose to 120 of its microscopes. As medical students moved to an online microscopy tool, the microscopes were stored in student lockers in the Medical Education Center until members of the COM Microscope Committee decided to donate them to local schools. Working with school science coordinators around the state, Microscope Committee members Cynthia Forehand, Ph.D., professor of anatomy and neurobiology, Carson Cornbrooks, Ph.D., associate professor of anatomy and neurobiology, Nicholas Hardin, M.D., professor emeritus of pathology, and Shere Youngberg, Office of Medical Student Education manager, with the assistance of Tom Teel, COM research facilities coordinator, identified several schools in need of the equipment. Beneficiary schools have included Bellows Free Academy Fairfax, Burr and Burton Academy, Cambridge Elementary, Camels Hump Middle School, Colchester High School, Enosburg Falls Middle School, Fletcher Elementary, Harwood Union High School, Hinesburg Community School, and Lamoille Union Middle School.

The microscopes have been a hit with staff and students at the schools. “The current fiscal issues facing public schools make it impossible for us to have purchased any equipment that even remotely resembles these microscopes,” says Fletcher Elementary School principal Jeffrey Teitelbaum. “These will be a tremendous benefit for our students.”
DEPARTMENTS & CENTERS

Brief reports on the activities of the departments and major centers at the College in fiscal year 2010
The Department of Anatomy and Neurobiology (ANNB) continues to maintain strong research programs and participate actively in graduate student training and medical and undergraduate student education. The Center of Biomedical Research Excellence (COBRE) in Neuroscience completed its ninth year of funding. The Neuroscience COBRE supports faculty research programs and two multi-user research cores. With funds from the parent COBRE grant and an American Recovery and Reinvestment Act (ARRA) supplement, 21 students were supported in the Summer Neuroscience Undergraduate Research Program.

ANNB faculty maintain research programs in molecular and developmental neuroscience, neural control of GI function and environmental toxicology. Many obtained ARRA supplemental grants. Rae Nishi, Ph.D., obtained a highly competitive multi disciplinary NIH Challenge Grant to study the effects of nicotine on adolescent brains.

The University-wide Neuroscience graduate training program, which evolved out of the ANNB graduate program, had 20 students enrolled. Dr. Nishi is the director and Cynthia Forehand, Ph.D., serves on the Steering Committee. Many other ANNB faculty serve as student mentors.

Dr. Forehand continues to direct the Foundations Level of the Vermont Integrated Curriculum (VIC) and also directs the VIC Neural Science Course. She assisted with the creation of the new undergraduate neuroscience major. Drs. Cornbrooks, Fiekers and Ezerman were Directors of the VIC Connections, Cell and Molecular Biology, and Human Structure and Function courses, respectively. Ellen Cornbrooks, Ph.D., and Jean Szilva, M.D., received awards from the Class of 2012 in recognition of their dedication and commitment to student learning.

ANNB faculty made significant professional contributions in the past year. Dr. Nishi, as president of the Association of Neuroscience Departments and Programs, was instrumental in completing its merger with the Society for Neuroscience. She served as president of the Vermont Chapter of the Society for Neuroscience, organized UVM’s 5th Annual Neuroscience Research Forum, and was a member of the UVM Neuroscience, Behavior, and Health Spire working group. Victor May, Ph.D., continues as a member of the Scientific Advisory Committee for International Symposia on VIP, PACAP, and Glucagon Related Peptides and is an organizer of the 10th International Symposium to be held in Jerusalem. In July 2010, Dr. Forehand was appointed as associate dean of the UVM Graduate College. She continues to serve as a member of the USMLE Neurology/Neuroscience Task Force and National Board of Medical Examiners Step 1 Interdisciplinary Review Committee. Gary Mawe, Ph.D., serves as a member of the Advisory Board of the International Foundation for Functional Gastrointestinal Disorders and a Councilor for the American Neurogastroenterology and Motility Society. Rodney Parsons, Ph.D., continues as chair of the External Advisory Board for the Howard University Special Neuroscience Research Program. ANNB faculty were invited speakers at many international scientific meetings, continued to serve on NIH Study Sections and NSF Program Review Panels, were members of scientific journal editorial boards, acted as manuscript reviewers and participated in College, University, state, and national committees.

The research work of Professor Rae Nishi, Ph.D., focusing on the effects of nicotine on adolescent brains was supported this year by a highly competitive NIH Challenge Grant.
The Department of Anesthesiology continues to grow in the number and quality of our faculty to meet the demand for our clinical services and teaching activities. A recent faculty hire, Donald Mathews, M.D., has accepted directorship of the residency program from Ralph Yarnell, M.D., who had served in this position for the previous three years and had guided our program through a successful Residency Review Committee site visit last fall. In addition to 45 attending anesthesiologists, our department has 20 residents in the core program, two trainees in our pain medicine fellowship, 18 certified registered nurse-anesthetists, and six anesthesiology assistants.

Continuing his research on helmet use during snow sports, Robert Williams, M.D., participated in conferences in Honolulu and New York on the effects of anesthetic medications on neural development in infants.

Mitchell Tsai, M.D., and residents Christopher Yen, M.D., and Eric Kent, M.D., presented posters on preoperative evaluation and communication response time at the International Anesthesia Research Society Annual Meeting. Another resident, Elrond Teo, M.D., gave two oral presentations at the New England Anesthesia Residents Conference in Boston.

Vincent Miller, M.D., has taken an active role in departmental and institutional efforts to use simulation as a training tool for medical and nursing students, housestaff, and faculty. He has been instrumental in the ongoing development of the UVM simulation laboratory.

Dr. Tsai attained a Master’s in Medical Management from the USC Marshall School of Business. One of our current chief residents, Jennifer Hay, M.D., was awarded the Society for Education in Anesthesia/Health Volunteers Overseas Traveling Fellowship for 2010–2011. Dr. Hay will be teaching principles of anesthetic management to fellow trainees in Peru for four weeks. Several faculty members have continued to provide anesthesia for humanitarian trips to Haiti, Vietnam, and Guatemala.
The Biochemistry department sustained and demonstrated its commitment to excellence in research, education and local, national and international service in 2010. Our research activities were supported by 20 grants from federal, non-profit organizational or corporate funding sources. These funds allow all departmental faculty to remain actively engaged in their various research endeavors, the majority of which reflect a commitment to collaborative investigations with each other, with members of our university community and with other national and international research scientists. Despite national declines in research funding, Professor Chris Francklyn, Ph.D., was successful in garnering an additional five years of support for his NIH-funded program dealing with a specific enzyme in protein synthesis. Associate Professor Rob Hondal, Ph.D., was awarded a new NIH grant to continue his studies on a unique class of proteins that contain selenium. Professor Scott Morrical, Ph.D., garnered an additional five years of NIH support for his studies of DNA replication and repair American Recovery and Reinvestment Act funding was secured by three faculty members, which not only supplemented their individual research programs, but also supported undergraduate training in the laboratory, and fostered collaborative studies with investigators in other institutions.

Our collective research endeavors resulted in 30 peer-reviewed publications in some of the most prestigious journals in the individual faculty member’s area of emphasis. Eighteen graduate students, three post-doctoral fellows, three research associates and several undergraduate students made significant contributions to our research programs and productivity, as evidenced by their being the first authors on several of our publications. Indeed, the first authors of our five most notable publications in FY 2010 were trainees. Anand Minajigi, Ph.D., one such outstanding trainee, received his doctoral degree and is now in post-graduate training at Harvard University. All of our trainees continue to excel, with active participation in national and international meetings through both oral and poster presentations of their work.

Kathleen Brummel-Ziedins, Ph.D., Saulius Butenas, Ph.D., Dr. Francklyn, and Dr. Hondal received invitations to discuss their work in platform presentations at international meetings. Dr. Hondal received the 2009 Journal of Peptide Science Best Publication Award. Dr. Francklyn remains on the editorial board of The Journal of Biological Chemistry and more recently began service as a regular columnist of “Study Section Insider” for principalinvestigators.org. Kenneth Mann, Ph.D., saw his four decades of outstanding contributions to the field of hematology earn recognition as a “Legend” in that field from the American Society of Hematology and his recent service as chair of working groups within the NIH and US Army. National and international recognition/service is also evident in the work of Professor Paula Tracy, Ph.D., who earned election as one of 15 councillors (Board of Directors) of the International Society for Thrombosis and Hemostasis for a six-year term.

The Biochemistry department was extremely pleased to welcome Stuart Kauffman, M.D., to its faculty this year as part-time visiting professor. As one of the world’s most eminent scientists, Dr. Kauffman is a founder of the field of complex systems science, a pioneer of biocomplexity research, as well as a MacArthur “Genius” Fellow. As a member of UVM’s Complex Systems Center, he brings a new and exciting dimension to our department and institution.

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There were many highlights for the Department of Family Medicine in 2010. Thomas Peterson, M.D., was named chair following a national search. Dr. Peterson brings longstanding experience as a clinician, educator, and organizational leader to the position. The department implemented the electronic health record (PRISM), and acquired a rural family practice and teaching site in Hinesburg, Vermont. This year marked our 34th Annual Family Medicine Review Course and ninth Annual Cultural Awareness Workshop.

New faculty include Tavis Cowan, M.D., James Ulager, M.D., and Nellie Wirsing, M.D., who bring expertise in acute care, rural family medicine, and residency education. Department faculty with new roles include Alicia Jacobs, M.D., Dan Weinstein, M.D., and Dale Stafford, M.D., as medical directors; Charlotte Reback, M.D., directs the Generations Course in the Vermont Integrated Curriculum (VIC), Candace Fraser, M.D., directs the VIC’s Third Year Clerkship, and Brian Flynn, Sc.D., is interim director of research.

Faculty and staff support the community through activities such as free clinics, wilderness rescue, boards and foundations service, and invited lectures on topics from lactation to palliative medicine.

The department has substantial achievement in medical student education through its third-year clerkship, elective offerings, course leadership, and advising programs. Our graduating students enter family medicine residencies at a rate exceeding national trends, and generate superlative reviews from residency programs. The department has written or co-written multiple educational innovation grants; many proposal funded, and all have led to enhancement. Our faculty have been recognized with national curriculum and teaching development leadership roles.

Our residency program thrives with record numbers of applicants seeking out innovative curriculum, and commitment to rural and underserved health, patient-centered medical home development, and community medicine. Fifty percent of recent residency graduates elected to practice in Vermont — reaching our targeted goal.

Faculty scholarship is expanding with projects in farmworker care, 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.

Family Medicine faculty receiving awards include Laura McCray, M.D., as a Frymoyer Scholar, Michael Sirois, M.D., as Faculty Teacher of the Year, and Melanie Lawrence, M.D., and Kerry Crowley, M.D., with UVM Medical Alumni Association Awards.

Selected Highlights


- Grants include those from The Agency for Healthcare Research and Quality; Health Resources and Services Administration; the American Recovery and Reinvestment Act; U.S. Department of Agriculture; and the National Institutes of Health Center for Scientific Review.
The past year has seen continued growth and excellence in all of the areas that define our mission: research, clinical care, education. The Department of Medicine comprises 138 full-time faculty and over 350 part-time faculty and it continues to grow. New faculty members joined the department in Immunobiology, Dermatology, Pulmonary and Critical Care Medicine, Rheumatology, and Nephrology.

The Department is a national leader in research. This year we held the third department-wide Research Day on June 11, 2010, which highlighted the strength and breadth of the research enterprise. Department faculty published nearly 300 manuscripts, reviews, chapters, and books. Many faculty members serve on NIH study sections, are editors of journals, and are members of editorial boards. Research funding continues to be robust and includes COBRE awards, a Program Project Grant, a contract to establish and support a Vaccine Testing Center, mentored awards such as K08 and K23, T32 (training) grants, and individual RO1 and R21 awards. The department was very successful in competing for additional research funds made available through the American Recovery and Reinvestment Act, with over 6.5 million dollars in awards.

Members of the Department of Medicine are dedicated to teaching and education. The faculty participate extensively in the VIC curriculum and more than 100 trainees including house officers, chief medical residents, undergraduate students, graduate students and post-doctoral fellows (M.D. and Ph.D.) are actively engaged in research, education and clinical care in the Department. The faculty received a number of honors and awards this year for their contributions to education. Mark Levine, M.D., and Florian (Flo) Foerg, M.D., were named the Teachers of the Year by the Medicine House Staff. William Hopkins, M.D., received the Foundations Teaching Award, the Foundations Course Director Award, and the AMSA Golden Apple Award from the Class of 2012. The course that he directs, Cardiovascular, Respiratory & Renal Systems, won the award for Outstanding Foundations Course for the fourth year in a row. Jason Brazelton, M.D., was chosen by the Class of 2012 for the Humanism and Excellence in Teaching Award. Jan Carney, M.D., was selected as a Frymoyer Scholar for the 2011 and 2012 academic years.

The Department provides extensive clinical care not only at Fletcher Allen Health Care but at numerous satellite sites throughout Vermont and New York State. The primary focus of the ambulatory clinics this year has been the implementation of the PRISM electronic medical record. The ambulatory clinics are also continuing their involvement in the Vermont Blueprint for Health.

Subspecialty providers continue to develop opportunities for collaborative interactions with other departments and services to provide multidisciplinary care. New clinical initiatives this year included the establishment of a state-wide Heart Failure Registry Network, expansion of the STEMI Program, and the creation of a Pediatric-Adult Endocrine Transition Clinic.

Selected Highlights

■ Virginia Hood, M.D., was elected to be the President of the American College of Physicians.

■ Department of Medicine faculty members published in such journals as the New England Journal of Medicine; Nature Genetics; Diabetes; Vaccine; and Lancet.

■ In addition to awards for teaching, faculty have also been recognized for their leadership, Chris Grace, M.D., received the Vision Award from Fletcher Allen Health Care.

Professor of Medicine Virginia Hood, M.B.B.S, M.P.H., became president-elect of the American College of Physicians in 2010, and will assume the ACP presidency in 2011.
The Department of Microbiology and Molecular Genetics and its thirteen 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 over 30 doctoral students, teaches medical students in the Vermont Integrated Curriculum, and offers two undergraduate degrees, one in Microbiology and the other in Molecular Genetics.

The department has two principal research foci, Microbiology and Microbial Pathogenesis and Protein-Nucleic Acid Transactions. The MMG faculty whose research is focused on microbiology interact with adjunct faculty in Infectious Diseases and Animal Sciences. These faculty members also work together in the Immunology and Infectious Disease COBRE Program. A new faculty member, Aimee Shen, Ph.D., who studies Vibrio cholerae and has a prestigious K99 award, will join the Department in April 2011. The faculty whose research focuses on proteins and nucleic acids interact with additional adjunct faculty here at the University as well as with Joann Sweasy, Ph.D., who is an adjunct faculty member from Yale. This group has recently been successful in getting their Program Project on DNA repair enzymes renewed.

The department also has a small but growing group of faculty who are bioinformaticists and whose work interfaces with and supports the research of the bench scientists in the Department. During the past year, Department faculty published almost 60 papers in high profile journals and are members of 12 editorial boards including Eukaryotic Cell, Structure, and The Journal of Biological Chemistry. MMG faculty have given numerous presentations at other universities as well as at national and international meetings, and several faculty were elected to organize prestigious scientific meetings. For example, Markus Thali, Ph.D., was recently selected to chair next year’s FASEB meeting on “Membrane Organization by Molecular Scaffolds.” MMG faculty are also members of or serve as ad hoc reviewers for numerous national review panels.

Selected Highlights

- Faculty members published several research articles in the prestigious Proceedings National Academy of Sciences USA as well as in Traffic: The International Journal of Intracellular Transport.
- Granting agencies to the department include the National Institutes of Health (NIH) National Institute of Dental Research; National Institute of Allergy and Infectious Diseases; National Cancer Institute; and the Vermont Agency for Human Services.
The Department of Molecular Physiology & Biophysics continues to garner international recognition and success in the area of cardiovascular research and protein structure and function. A major research focus is directed at understanding the molecular basis of muscle contraction, with special emphasis on how it relates to normal and diseased function of the heart and blood vessels. The Department is considered the premier center of muscle research in the United States. An additional research focus is on protein atomic and molecular structure, with expertise in x-ray crystallography and high resolution 3-dimensional electron microscopy.

The department maintains a highly prestigious NIH Program Project Grant to study genetic heart failure. This multi-investigator grant serves as the foundation for a collaborative interdisciplinary (Physiology and Pharmacology) NIH Training grant that supports the stipends of four postdoctoral fellows and four graduate students. 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 such as Michael Radermacher, Ph.D., speaking at the International Workshop of 3D Molecular Imaging by Cryo-Electron Microscopy in Beijing, China, while Teresa Ruiz, Ph.D., organized 2 symposia at the Microscopy & Microanalysis meeting. David Warshaw, Ph.D., also organized a symposium at the Gordon Research Conference on Biomolecular Interactions. Bradley Palmer, Ph.D., spoke at Myofilament 2010 in Madison, Wisc., a newly organized meeting highlighting the latest in muscle research. Drs. Ruiz and Radermacher have individually been honored for their expertise in structural biology by being elected to chair the 2011 Gordon Conference on 3D Electron Microscopy and the Program Chair for the Microscopy Society's Microscopy & Microanalysis 2013 meeting, respectively. Faculty members play key service roles for the NIH. Christopher Berger, Ph.D., served as an adhoc member of the NIH "Macromolecular Structure and Function Study Section," while Dr. Warshaw continues to serve on the Scientific Advisory Panel for the NIH Nanomedicine Initiative and as an adhoc member of the NHLBI's Board of Scientific Councilors.

College of Medicine. Drs. Radermacher and Ruiz once again held a “Practical Course on Three-dimensional Cryo-Electron Microscopy of Single Particles” that attracted over 20 international scientists.
The Department of Neurology programs in education, research, and clinical care remain productive and strong. Neurology faculty contribute throughout the Vermont Integrated Curriculum and teaching during the Neurology clinical core curriculum, senior elective programs, and acting internships. The Neurology residency training program and post-residency fellowship training have excellent candidate pools. Graduate and medical students in the M.D./Ph.D. program “study” in laboratories under the mentorship of Neurology faculty members. At the local, national, and international level, faculty from neurology are recognized for contributions in education, research, and clinical care. The following accolades are representative of their accomplishments:

- Frymoyer Scholarship Award
- Member, UVM Neuroscience Spire Task Force
- Director, Program in Integrative Medicine
- Vice-Chair Institutional and Animal Care Use Committee
- Association of University Professors of Neurology — Chair of Graduate Education Committee
- Society of Gynecological Research — Presidential Achievement Award and Lecture
- Perinatal Research Project — President
- American Society for Experimental Neurotherapeutics — President
- Invited Lecturer at European Congress for Integrative Medicine (Berlin)
- Clinical/Medical Advisory Committees: Myasthenia Gravis Foundation, National Multiple Sclerosis Society
- Research Advisory committee for PSP and ALS
- Steering Committee of NIH NINDS IRIS stroke trial
- Members of NIH study sections and other national research review panels
- Editorial boards and senior associate editor

Selected Highlights

- Over the 2009–2010 academic year Neurology faculty contributed 65 publications to biomedical literature.
- Faculty were awarded 18 new or yearly renewed grants from the National Institutes of Health (NIH) or other funding agencies and received grant funding for 35 clinical trials from NIH or industry sources.
- Four faculty members serve on NIH study sections or research review panels for major foundations, and five faculty members serve on a total of seven journal editorial boards. Collectively, Neurology faculty review manuscripts for 50 journals.

Our clinical programs at UVM/Fletcher Allen provide excellent neurological care: our stroke program is recognized as a JCAHO and AHA approved Stroke Center, with outcome measures ahead of relevant benchmarks. The program in Functional Neuroscience (Deep Brain Stimulation) has continued to grow and bring leading edge technologies to patients.

In summary, the strength of the Neurology faculty have led to major contributions to education, research, and patient care — the core missions of our Academic Medical Center.
For our Department, this past year provided tremendous opportunities, successes, and challenges. Our opportunities have included revisions of our medical student Ob/Gyn clerkship with the addition of two new clinical sites, modification of our residency program to enhance its educational content while at the same time adjusting to further restrictions in duty hours, and the initiation of a mentored training program for new Ob/Gyn physician-scientists. Our successes have included our total extramural research funding that reached almost $3 million this year (an all-time high for the department), our designation as one of the highly competitive NIH-funded programs for Women’s Reproductive Health Research (WRHR) (funding for the mentored physician-scientist training program), the announcement of George Osol, Ph.D., as a recipient of the University Scholar Award, and the academic promotions of Christine Murray, M.D., and Emmanuel Soultanakis, M.D., to associate professor and Elizabeth Bonney, M.D., to full professor. Our significant challenges during the past year have been related to implementation of the PRISM electronic medical record in our ambulatory clinics, and the challenging financial situation produced by the national economy resulting in reductions in our clinical volumes, especially for gynecologic surgery and obstetrics.

Other academic and clinical highlights during the past academic year include the appointment of Marjorie Meyer, M.D., as the Division Director for Maternal-Fetal Medicine, the recruitment of Renju Raj, M.D., as the first of three WRHR program physician-scientists, and the presentation of twenty biomedical research abstracts (including three award winning presentations) at the annual meeting of the Society for Gynecologic Investigation. In addition, we initiated an in-hospital Hospitalist/Laborist program with the recruitment of George Till, M.D., to our faculty. This program provides in-hospital night-time coverage of labor and delivery with dedicated, well-rested physicians — thereby addressing the issue of physician fatigue resulting from prolonged duty hours. With the successful recruitment of a second physician for this program (Erica Hammer, M.D.), the night-time hospitalist/laborist coverage will extend to six nights per week, with the remainder of our 24/7/365 in-hospital coverage being provided by faculty physicians with shifts limited to 12–16 hours. Our regional outreach programs expanded this past spring with the establishment of an MFM subspecialty clinic at the Rutland Regional Medical Center. This is in addition to our ongoing Gyn-oncology clinic at Rutland; Reproductive Endocrinology, MFM and Gyn-onc clinics at Malone, NY; and another Gyn-onc clinic at Central Vermont Hospital.

In addition to her funded research and care of patients, Professor Elizabeth Bonney, M.D., serves on the NIH study section for Infectious Disease, Reproductive Health, Asthma & Pulmonary Conditions.
Selected Highlights

- Publications in such journals as: *Journal of Bone Joint Surgery*, *Journal of Biomechanics*, and *Spine*.
- Bruce Beynnon, Ph.D., and Ian Stokes, Ph.D., are both National Institutes of Health study section members/reviewers.

Faculty in the Department of Orthopaedics and Rehabilitation continue to contribute to the academic mission in all three realms. Their research has been presented nationally and internationally. The educational focus is clear. The Connections section of the Vermont Integrated Curriculum continues to be well received, with increased student interest in orthopaedics. Faculty members are involved with many national organizations.

Professor David Aronsson, M.D., was honored with the American Academy of Pediatrics, Section of Orthopaedic Surgery Distinguished Service Award for his career-long contributions to the musculoskeletal care of children. He continues to serve as secretary and board member of the International Federation of Pediatric Orthopaedic Societies.

David Halsey, M.D., associate professor, is recognized nationally for his work with the American Academy of Orthopaedic Surgeons. Most recently, he participated in the National Orthopaedic Leadership Conference.

Adam Shafritz, M.D., associate professor, serves as president of the Vermont Orthopaedic Society. Nationally, he is a member of the AAOS Upper Extremity Self-Assessment Examination Committee. These examinations are critical for the nurturing of life-long learning and are essential staples for maintenance of competency by the American Board of Orthopaedic Surgery.

Associate Professor S. Elizabeth Ames, M.D., program director for the Orthopaedic Surgery Residency Program, has raised the bar for graduate medical education. She has been awarded grants from the American Orthopaedic Association to develop a business curriculum and another from the Orthopaedic Research and Education Foundation to develop a curriculum on leadership. In addition, her spine research has been presented nationally.

Professor Bruce Beynnon, Ph.D., continues his NIH funded work on identifying risk factors that lead to ACL injuries, and his collaborative work with Associate Professor James Slauterbeck, M.D., which examines anatomic factors and gender-based factors, has been published in leading journals.

Our department continues to focus on the educational, service, and research aspects of our work, and remains a productive department in the College of Medicine.
The research foci of the Department continue to be Environmental Pathology and Cardiovascular Disease/Thrombosis. The research foci of the Environmental Pathology investigators are asbestosis and asthma, with an emphasis on oxidative stress. The Laboratory for Clinical Biochemical Research (Russell Tracy, Ph.D., Director) at our Colchester Facility is the center for cardiovascular research in the department. The cardiovascular research group works in the area of molecular and genetic epidemiology and has one of the pre-eminent biomarker/biosensor laboratories in the country. Our Division of Experimental Pathology, directed by Kum Cooper, M.B.Ch.B., is focused on translational research and has led to our department being in the top 10 percent for invited presentations at the premier national anatomic pathology meeting. The department has 42 extramurally funded projects across these areas, of which 19 were new awards. Three of these were funded by the American Recovery and Reinvestment Act (ARRA). Dr. Tracy received two ARRA awards to study HIV as part of the INSIGHT group and to support human exome sequencing in large NHLBI cohorts. Vernon Walker, Ph.D., received an ARRA award to investigate Adducts as Quantitative Markers of Butadiene Mutagenesis. Eight faculty members served on a total of 23 study sections for the NIH, AHA, and DOD. Our faculty published 110 papers across all fields of interest.

The department has an active graduate student program, offering a masters degree in Environmental Pathology and a Ph.D. degree through the Cell and Molecular Biology Program. Our highly competitive clinical training programs include 16 residents and three fellowships. Our faculty is heavily involved in the Vermont Integrated Curriculum (VIC) at all levels. This past year, pathology faculty members were nominated 23 times for VIC teaching awards for which there were 82 nominees. The Department was awarded the new “Outstanding Teaching Department Award” by the Class of 2012. We also teach in the Fletcher Allen School of Cyto technology, where students score at the top on their national qualifying exams every year, with one of the students achieving the highest score in the country. One of the cytotechnology students won third place in the national oral “interesting case competition.” Finally, our faculty teach courses and mentor students in the UVM College of Nursing and Health Sciences.

On our clinical service, departmental faculty manage all the inpatient and outpatient laboratories for our teaching hospital and outpatient facilities, performing over 2.8 million tests a year, including 38,000 surgical pathology cases, 67,000 outpatient gynecologic cyto-pathology cases, 120 hospital autopsies, and 450 medical examiner autopsy cases. Our clinical laboratory has developed state of the art molecular diagnostic services, an area at the cutting edge of clinical diagnosis. We also perform laboratory testing for a wide variety of clinical research projects initiated by faculty from our clinical and basic science departments.

Raj Chawla, UVM Med Photo

Edwin G. Bovill, M.D., chair of Pathology and Laboratory Medicine, accepts the Outstanding Department Award at the Class of 2012 Foundations award ceremony.
This past academic year, our department again admirably met its academic mission. Educationally, members of our faculty continue to actively participate in all four years of the Vermont Integrated Curriculum, earning several individual teaching awards from our students as well as being runner-up for Clinical Department of the Year. Barry Heath, M.D., director of Inpatient and Critical Care Pediatrics, was awarded the University’s Kropesh-Maurice teaching award for his teaching expertise. In addition, our faculty continue to play leadership roles in national organizations such as the American Board of Pediatrics, the Council on Medical Student Education in Pediatrics, and the National Board of Medical Examiners. In 2009, Lewis First, M.D., took over the editorship of Pediatrics, the peer-reviewed journal of the American Academy of Pediatrics, following in the footsteps of Jerold Lucey, M.D., who held this position for 35 years.

From a research perspective, we continue to receive federal, state, and foundation grants and project awards, most notably in areas of health services research. Of note has been the growth of the “ImproveCareNow” network involving major children’s hospitals across the country sharing data on improving care to children with inflammatory bowel disease. This relatively new health services network is spearheaded by Richard Colletti, M.D. His work joins the other collaborative research networks we lead, including the Vermont Oxford Neonatal Network (VONN), the national AAP research network Pediatric Research in Office Settings (PROS), and the Vermont Child Health Improvement Program (VCHIP) — celebrating its tenth anniversary this year and now overseeing the development of similar programs developing in 20 other states, all modeled after VCHIP.

Our other clinical programs continued to flourish in both the inpatient and outpatient areas, with quality and patient satisfaction metrics remaining high. Paul Rosenau, M.D., a graduate of our residency and now one of our hospitalists, was appointed director for quality for our department and the Vermont Children’s Hospital at Fletcher Allen. He plans to lead efforts to formalize our quality metrics in all clinical areas and by doing so enhance the care we provide to our pediatric patients.

From a standpoint of community advocacy, the department continued to have its faculty, residents, and students volunteer their services and work actively in numerous community outreach activities for children and families throughout the region. Some of our residents this past year have received grants from the AAP to further their community outreach and advocacy work that ranges from programs to help teenage mothers to providing mentors to schoolage and teen diabetics. These resident projects have resulted in presentations at national pediatric meetings given the outstanding results they have achieved in advocating for better health for children and families in our region.

Finally, it is important to recognize that after more than fifty years of active service to our department, Dr. Jerry Lucey has officially retired and become Emeritus Professor of Pediatrics — yet he remains as active as ever working on advances in neonatal care and research even in his emeritus role. The Harry Wallace Professorship that he held was transitioned and proudly awarded to one of Dr. Lucey’s protégés, Roger Soll, M.D., who is the Clinical Director of our Division of Neonatology.
The Department of Pharmacology continued to make substantial contributions to the academic mission of the College of Medicine and the University. In the area of research, the department published approximately 37 peer-reviewed articles in top biomedical journals. Departmental research was cited in other publications more than 2000 times in 2010. The department’s research effort was largely focused on understanding the function and dysfunction of the vascular and cerebrovascular systems. This research has provided fundamental new insights and new therapeutic modalities in the areas of urinary incontinence, cerebral vasospasm, regulation of vascular tone, cell migration, environmental toxins and thyroid function, structure/function of signaling molecules, modulation of sympathetic innervation and ion channel function, gene expression changes in hypertension and following exposure to asbestos and how computationally active neurons regulate regional blood flow in the brain.

Faculty members gave more than 35 invited presentations at universities and international symposia. Extramural support remained strong, with a total funding of nearly $7 million from the NIH, American Heart Association, foundations, and industry. New NIH grants were awarded, including a $11.5 million Program Project Grant focused on the control of blood flow in the brain in health and following ischemic and hemorrhagic stroke. The faculty were active participants in several NIH training grants for graduate and postdoctoral trainees. The department continued to receive generous support from the Totman Medical Research Trust to support an interdepartmental research effort to understand cerebrovascular function and disease. Karen Lounsbury, Ph.D., was promoted to professor with tenure.

The department continued its high quality teaching and mentoring efforts to medical, graduate, and advanced undergraduate students, as well as to postdoctoral fellows. This effort included one-on-one mentoring in research laboratories, didactic lectures in molecular and cellular pharmacology, toxicology, medicinal chemistry, cancer biology, cell and molecular biology, and introduction to pharmacology. The minor in pharmacology for undergraduates has seen steady growth. The pharmacology faculty taught in virtually all courses in the Foundations course of the Vermont Integrated Curriculum, as well as taught a Medical Summer Pharmacology course.

In the area of service, faculty members served on grant review committees for the NIH and the American Heart Association. Departmental members support the College and University by serving and chairing on a number of committees, which guide the teaching and research missions of the College of Medicine and the University.

At Graduate Student Research Day in October, Professor of Pharmacology Wolfgang Dostmann, Ph.D., discussed a research project with graduate student Jane Roberts.
The Department of Psychiatry has had an excellent year of research, scholarship, and professional service. The major areas of research covered empirically-based assessment and genetics of childhood psychopathology, clinical neuroscience and brain imaging of aging and chronic pain, various topics in substance use disorders, and projects in public psychiatry.

The Vermont Center for Children, Youth, and Families (VCCYF), under the direction of James Hudziak, M.D., and his close collaborators Robert Althoff, M.D., Ph.D., David Retew, M.D., and Masha Ivanova, Ph.D., are carrying out NIMH funded projects on the genomics of twin development and determinants of adolescent exercise among other grant-funded projects, while directing a medical school student child psychiatry training program and a child and adolescent fellowship program.

Thomas Achenbach, M.D., is continuing his groundbreaking research on multicultural evidence-based assessment of psychopathology. Valerie Harder, Ph.D., the newest member of the VCCYF group, is the recipient of an NIH Mentored Career Scientist Development Award that supports her mental health research in Kenya.

The Clinical Neuroscience Research Unit (CNRU), directed by Paul Newhouse, M.D., and his close collaborators Julie Dumas, Ph.D., Magdalena Naylor, M.D., and Alexandra Potter, Ph.D., has continued to develop and grow with eleven active projects and five NIH-funded grants supporting this research. Their projects include examining the effects of cognitive behavior therapy on brain activity in pain patients, nicotinic stimulation in children with ADHD and the neural circuitry of geriatric depression and aging. They are also active in graduate and postdoctoral training.

The Center on Substance Abuse Research and Treatment, directed by Stephen Higgins, Ph.D., remains highly productive. Dr. Higgins and his colleagues Sarah Heil, Ph.D., and Stacey Sigmon, Ph.D., have nine NIH research grants and two federal contracts supporting studies on addiction to cocaine, opioids, tobacco, behavioral genetics, and neuroimaging of early smoking abstinence. John Hughes, M.D., continues his internationally recognized research on tobacco control and marijuana addiction, funded by three NIH research grants. These faculty have applied to continue their highly successful 20-year NIH-supported pre- and postdoctoral training program in addictions. That team was joined in December, 2010 by Hugh Garavan, Ph.D., an internationally recognized neuroimaging researcher in addictions from Trinity College in Dublin, Ireland.

John Helzer, M.D., and Gail Rose Ph.D., are continuing their very successful collaborative research on brief interventions for problem alcohol use and using Interactive Voice Operated Relay technology for health screening. Dr. Rose recently received her first NIH R01 grant to continue this research. The Division of Public Psychiatry, under the direction of Thomas Simpatico, M.D., is continuing its important research on identifying mental illness and traumatic brain injury among veterans who become involved with the criminal justice system with support from a SAMSHA grant.
The Department of Radiology is proud of its accomplishments in the last year. We continue to be state-of-the-art in every aspect of our practice. Exceptional patient care is enhanced by strong relationships with industry partners that allow us to test the newest equipment on the market. For example, we have new software for the 3T MRI that allows us to shorten exam time and acquire diagnostic images for cardiac, fetal, pediatric, neuro, and musculoskeletal imaging. MRI protocols for pediatrics have been developed here that allow us to diagnose causes of pediatric abdominal pain in a very short time with no sedation and no radiation.

With the 256-slice CT scanner we can screen for causes of chest pain in 2.5 seconds (two heart beats). This is one of the fastest and most efficient ways of examining the heart for coronary artery disease and other anomalies. The new CT scanner also allows us to immediately assess a patient's brain using special techniques that reveal both the area of a stroke and more importantly the brain that is at risk for future stroke. Patients can be triaged in a more effective way in order to save lives.

Our faculty has published 49 papers in respected peer-reviewed journals during the last year. Presentations have been given by members of the department, spanning the globe from the U.S. to Taiwan, China, India, Italy, and Sweden. Members of the department hold esteemed positions in national and international organizations. Christopher Filippi, M.D., Neuroradiology Section head, was named the John P. and Kathryn Tamps Green and Gold Professor of Radiology this year, and was appointed the director of the Biomedical Imaging Center at the College of Medicine.

The Imaging the World project is a very exciting organization established by Kristen DeStigter, M.D., vice-chair and Radiology Residency Program director. This organization has a demonstration project in Uganda that will show the efficacy of ultrasound using simple protocols and cell phone technology to save lives. ITW took five UVM medical students to Uganda to do this project. This non-profit organization has gained over $1,000,000 in grants and donations as well as international exposure from the United Nations and Project Hope.

U.S. Sen. Patrick Leahy visited UVM’s Biomedical Imaging Center in November, where Professor George Hebert, M.D., at center, and Professor and Chair of Radiology Steven Braff, M.D., explained the uses of the advanced MRI.
The Department of Surgery had an outstanding year of growth and continued excellence in all missions during the academic year, with exemplary contributions in research, education, service, and clinical excellence.

The divisions of Otolaryngology, Urology, Ophthalmology, and General Surgery recruited prominent new faculty, including Marion Couch, M.D., as the new chief of Otolaryngology and Head and Neck Surgery. Bruce Tranmer, M.D., served as president of the New England Neurosurgical Society and James Hebert, M.D., is the president-elect of the New England Surgical Society. Community outreach was expanded upon this year as well. Gino Trevisani, M.D., Jon Yamaguchi, M.D., and Michael Ricci, M.D., all served our country in overseas deployments, and trauma surgeon William Charash, M.D., contributed to the relief effort after Haiti’s devastating earthquake. The exemplary service to the community of Peter Cataldo, M.D., led to his winning the Leonard Tow Humanism in Medicine Award.

Research has continued to thrive. Significantly, Dr. Ricci received continued funding for his simulation collaboration among UVM, Fletcher Allen Health Care, and the Vermont National Guard. Ted James, M.D., received grant funding for his study of the effectiveness of surgical simulation training. Neil Hyman, M.D., continued his ongoing study of the timing of rectal cancer response to chemoradiation. Katarina Zvarova, M.D., Ph.D., and Jon Boyson, Ph.D., continued their funded bench research in Urology and Transplant, respectively. Urologist Gerry Mingin, M.D., had NIH-funded studies in lower urinary tract development continued, and Peter Zvara, M.D., Ph.D., received an award for development of novel delivery methods of prostate drugs. Important clinical research trials were added or continued in the divisions of urology, transplantation, ophthalmology, general surgery, otolaryngology, neurosurgery, and surgical oncology. Department members, residents, and students published more than 45 manuscripts in peer-reviewed journals.

This year was notable for the approval of a new residency program in urology to add to our exceptional residency programs in general surgery, neurosurgery, and otolaryngology. Mark Plante, M.D., division chief of urology, is the developer and program director for the urology training program. In addition to Dr. Cataldo receiving the Gold Humanism Honor Society award this year, Andrew Stanley, M.D., received the Jerome Abrams teaching award. AmiLyn Taplin ‘11 won the award for Best Paper by a Student at the New England Neurosurgery Society annual meeting and Anand Rughani, M.D., won the Best Paper by a Resident at the same event. Patrick Mannal, M.D., and Vincent Mase, M.D., surgical residents, presented their basic investigational efforts at the prestigious American College of Surgeons Surgical Forum.
General Clinical Research Center & Center for Clinical and Translational Science
Richard A. Galbraith, M.D., Ph.D., Program Director
The General Clinical Research Center has been continually funded by the National Institutes of Health for 44 years. The Center is a shared environment for the safe conduct of high-quality clinical investigation to promulgate the advances of basic science to the bedside and to relay new problems and questions back to basic scientists. The Center for Clinical and Translational Science was founded in 2008 to provide a seamless opportunity for young professionals to be trained in clinical and translational research and to perform such research in conjunction with a mentor. The eventual goal is for them to write successful grants, become independently funded and form the next generation of well-trained clinical and translational researchers. To that end, the Center for Clinical and Translational Research offers a Certificate, a Master of Science, and a Doctor of Philosophy degree in Clinical and Translational Science. These new initiatives serve to broaden the scope of GCRC-sponsored research to include not only translational research but also community-based research throughout the State of Vermont.

Office of Health Promotion Research
Brian S. Flynn, Sc.D., Director
This group of investigators is dedicated to translational research on critical behaviors affecting population health, with a focus on development and evaluation of strategies for primary and secondary prevention of major chronic diseases. The Vermont Breast Cancer Surveillance System is led by Berta Geller, Ed.D., as is a study focused on colorectal cancer screening. Brian Flynn, Sc.D., leads projects that develop strategies to reach youth audiences and assess the impact of multiyear campaigns on smoking prevalence. Laura Solomon, Ph.D., leads a project evaluating the impact of cessation message campaigns on a population cohort of adolescent smokers, and collaborates on studies assessing impact of counseling and incentives on smoking cessation in pregnant women. Theodore Marcy, M.D., develops and tests methods to assist primary care physicians to implement national cigarette smoking cessation guidelines. Dr. Flynn collaborates with other investigators in the university on development of strategies to improve utilization of cancer genetics in primary care, reduce risk of obesity among preschool children, and increase adult physical activity. Drs. Flynn and Marcy serve on the state’s oversight board for tobacco control programs.

Vermont Cancer Center
Nicholas Heintz, Ph.D., Interim Director for Basic Science Cancer Research
David McFadden, M.D., Interim Director for Clinical Cancer Care and Research
The Vermont Cancer Center (VCC) is a nationally recognized team of scientists committed to state-of-the-art cancer research, treatment, and education. The institution plays a vital role in Vermont and northern New York, serving to influence standards of cancer prevention and treatment across the region. High-quality patient care is provided through the patient care areas at Vermont’s academic medical center, Fletcher Allen Health Care, including the Breast Care Center, and the Hematology/Oncology, Surgical Oncology, Radiation Oncology, Gynecologic Oncology, and Dermatology units, and the Cancer Patient Support Program. VCC physicians and scientists have also made significant contributions to advances in cancer research that are keys to understanding, preventing and treating this disease. VCC research is conducted primarily at the University of Vermont and encompasses cancer prevention and control; clinical research; cell signaling and growth; and genome stability and expression. Development of clinical trials and translation of laboratory science into patient-directed studies remain high priorities for the VCC.
An Inspiring Time

Fiscal Year 2010 demonstrated the unwavering support of the alumni and friends of the College of Medicine. Both gifts and pledges and cash received rose significantly. UVM’s success despite a deep recession is a remarkable testimony to its donors, who propelled fundraising at the UVM College of Medicine upward by 134 percent since FY 2006, including a 38 percent climb in FY 2009 en route to an even higher total in FY 2010.

Why has UVM remained successful? Look no further than the names on these pages — every individual name. Thomas J. Sullivan, M.D.’66, stepped forward with unprecedented individual gifts that enabled construction of the Clinical Simulation Laboratory, rehabilitation of Carpenter Auditorium, and numerous other major projects. The estate of Bartlett Stone, M.D.’38, and Mable Stone created a large scholarship fund that will support numerous medical students in each class as long as a medical school stands in Vermont. Equally significantly, nearly 5,200 other individuals and organizations supported the College. Among these were nearly 40 percent of our medical alumni — a rate of medical alumni giving that is double the national average and that each year places UVM in the top two or three medical schools in the nation.

Generosity is a learned trait, and as usual UVM’s medical students are not satisfied to learn by just sitting in a lecture hall. In 2010, nearly three-quarters of the first-year UVM medical students teamed up on the College of Medicine Marathon Team to train and compete together while raising almost $40,000 for the neuroblastoma research of faculty member Giselle Sholler, M.D.

Sadly, since FY 2010 ended in June, we have seen the loss of Dr. Sullivan, Houghton “Buck” Freeman and several others so crucial to UVM’s recent success. Still, thinking of those students logging their miles and raising funds in the little spare time medical school affords, we are confident that our alumni and friends will continue to inspire.

— Rick Blount
Assistant Dean for Development & Alumni Relations

FISCAL YEAR 2010 PHILANTHROPIC SUPPORT

Gifts and Pledges to the College of Medicine (by fiscal year)

Philanthropic Cash Received by the College of Medicine (by fiscal year)
Medical Ira Allen Society

UVM’s Ira Allen Society is named in tribute to the University’s founder, who pledged the initial funds to establish the institution. In the same spirit, the following alumni, friends, parents, faculty, and organizations have made generous contributions of $1,000 or more to the College of Medicine during fiscal year 2010 (July 1, 2009 – June 30, 2010).

$5,000,000+
Thomas J. Sullivan, MD’66*

$1,000,000+
Los Howe McClure

$500,000–$999,999
Mable & Bartlett Stone, MD’41*

$100,000–$499,999
American Chemistry Council Corinne & Paul Cohen, M.D.’39* Roger & Gabrielle Cóce Crandall Elinor Bergeron Tourville Bennett Trust Fletcher Allen Health Care The S.D. Ireland Cancer Research Fund, Inc. The S.D. Ireland Family Stuart & Margaret Scott D. & Kim Stephen D. Lake Champlain Cancer Research Organization H. Gordon Page, MD’45 Alice Schwendler Trust The Starr Foundation William C. Street, MD’54 & Lorraine Hassan-Street Ray W. Totman & Ildah Totman Medical Foundation William C. Street, MD’54 & Lorraine Hassan-Street Ray W. Totman & Ildah Totman Medical Foundation

$50,000–$99,999
Ellen Andrews, MD’75 Helen & Robert Larner, MD’42 Mary Hitchcock Memorial Hospital Adine & Hillel S. Panitch, MD* Mary Hitchcock Memorial Hospital Helen & Robert Larner, MD’42

$5,000–$9,999
Cynthia & Frank* Babbott, Jr., MD

$25,000–$49,999
Cynthia & Frank* Babbott, Jr., MD

$10,000–$24,999
Anonymous

$5,000–$9,999
Elsie & Anthony Z. Fischman, MD’43*

$2,500–$4,999
Accordia Global Health Foundation

$1,000–$2,499
Jeannette Grace Abrams Thomas M. Achenbach, PhD & Leslie Altman Rescorla, PhD John Goldthwaite Adams, Jr., MD’54

$500–$999
Mary Hitchcock Memorial Hospital Albert D. and Margaret M. Blenderman Fund Tom Covey Memorial Fund V.F. W. Auxiliary Department of Vermont

$2,500–$4,999
Accordia Global Health Foundation

$1,000–$2,499
Jeannette Grace Abrams

$500–$999
Mary Hitchcock Memorial Hospital

$250–$499
Michael Robert Saxe, MD’82

$100–$249
Mary P. Goodman, MD’73

$50–$99
Mary P. Goodman, MD’73

$25–$49
Mary P. Goodman, MD’73

$10–$24
Mary P. Goodman, MD’73

$5–$9
Mary P. Goodman, MD’73

$2–$4
Mary P. Goodman, MD’73

$1
Mary P. Goodman, MD’73

* indicates deceased

2010 YEAR IN REVIEW
Medical 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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($250–$999 within 10 years of graduation)

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Lawrence Scott Bennett & Betsy Lee Sussman, MD’81
Thalia & Leonard James Swaner, MD’66
Tacoma Radiation Oncology Center, Inc.
Judy Tam, MD
F. Todd Tumburine, MD’86

Fiscal Year 2010 — July 1, 2009—June 30, 2010

2010 Year in Review
Vermont Cancer Center Donors

The College of Medicine and the Vermont Cancer Center are grateful to the following donors of $100 or more who made contributions to support cancer research and education programs at the University of Vermont. In all, over 3,094 donors supported this important work in fiscal year 2010.

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The UVM Women's Basketball Team, wearing pink uniforms, raised funds and awareness in 2010 for the third year in a row for breast cancer research at the Vermont Cancer Center.
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Houghton “Buck” Freeman, who passed away December 1, 2010, was a member of a family whose generosity has helped hundreds of medical students. The College has established the Freeman Foundation Legacy Medical Scholarship Fund to honor this generosity and its impact.

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This past year, alumnus Thomas J. Sullivan, MD’66, (above, left) continued his extraordinary generosity to his medical alma mater. Sadly, he died in December 2010. His philanthropy was recognized in 2009 with the naming of the Sullivan Classroom. Among the projects made possible through Dr. Sullivan’s generosity was the refurbishing and upgrading of Carpenter Auditorium. Dr. Sullivan’s impact has been and will continue to be enormous. The College’s educational mission was vitally important to Dr. Sullivan, who is remembered with great admiration by one of his colleagues, Harte Crow, M.D., for his careful training of residents: “Tom was the consummate radiologist — well read, widely experienced, curious, and deeply interested in his specialty. Not only did he practice at an extremely high level, he was also facile in passing on his judgment and knowledge to others — especially residents. Because of his abilities he was greatly admired by all with whom he worked, no matter what their professional role.” (Dr. Sullivan’s obituary appears on page 71.)

* indicates gifts made to the Vermont Cancer Center
Many donors have their gifts matched by their or their spouse’s employer. The following companies made matching gifts to the College in fiscal year 2010.

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Reunion receptions are just one of many kinds of events held in the Hoehl Gallery, named for local business leader and philanthropist Robert H. Hoehl, who died in November 2010, and his wife, Cynthia.

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### Drs. Marvin Nierenberg and Melvyn Wolk from the 50th Anniversary Class of 1960 present the Reunion giving check to Dean Rick Morin.

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(Classes that have already celebrated their 50th Reunion)

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1973

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Stephen John Woodruff

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Agent: F. Farrell Collins, Jr.

1975

**Medical Ira Allen Society ($1,000+)**

Edward Andrew Blanchette
Stephan Tolman Glass
Albert Joseph Hebert, Jr.
James F. Howard, Jr.
Frederick Michael Perkins
John Arthur Persing
Jay G. Stearns

**Contributors**

Palmier Quintar Bessey, Jr.
James Gerard Gallagher
Stephen John Haines
David Nelson Little
John Frank Siraco

1977

**Medical Ira Allen Society ($1,000+)**

Robert Wolcott Backus
John Thomas Bowers, III
S. Kent Callahan
Don P. Chan
John Rogers Knight
Richard Mason McNeer, III
John E. Rowe
Fredric E. Shaw, Jr., JD
Richard L. Staley

Participation: 49%
Total: $22,698
Agent: David M. Eddy
Agent: Cajsa N. Schumacher

1978

**Medical Ira Allen Society ($1,000+)**

Robert Wolcott Backus
John Thomas Bowers, III
S. Kent Callahan
Don P. Chan
John Rogers Knight
Richard Mason McNeer, III
M. Jonathan Mitchenon
William Ward Pendlebury
Matthew Robert Zetumer

**Contributors**

Bruce Row Brown, Jr.
Timothy Stephen Carey
Elliot Sidney Feit
John Alfred Bisson
Michael Lawrence Gentry
Peter Scott Hopewood
Kevin Christopher Kelley
Nancy Coaller Latroop
Richard Michael Lewis
Helen Loeser
George Edward Maker
Richard A. Marfuggi
William G. Muller
Ralph Angus Naxon, Jr.
David Truax Noyes
Bonita Ann Palmer
Robert C. Parke
Doris Croisetiere Pliskin
Erich Jay Reines
Lee Howard Rome
R. Bruce Smith

1979

**Medical Ira Allen Society ($1,000+)**

Ellen Andrews
Palmier Quintar Bessey, Jr.
James Gerard Gallagher
Stephen John Haines
David Nelson Little
John Frank Siraco

**Contributors**

R. Jeffrey Bergquist
John W. Blute, Jr.
Patrick Michael Catalanino
Emanuele Gi Chiaianneli
James Wilder Cummings
Eugene Louis Curletti
Stephen Alan Degray
Allen Edmund Fongemie
William R. K. Johnson
Alan Howard Kanter
Norman Brunswick Lokens
John Gerald Long
Thomas Edward McCormick
Robert M. McCready
David Richard Miller
Michael J. Quinn
Brian Joseph Reilly
David Reveille
Stephen Francis Rowe
Christopher Tompkins Selvage
Delight Ann Wing
Thomas Allen Wolf

Participation: 48%
Total: $37,575
Agent: Ellen Andrews

Medical Alumni Association President Jim Hebert, M.D.’77, and his wife, Mary Ellen, speak to medical students Elizabeth Anson ’13 and Shetal Patel ’13 at Reunion.
Melanie Lawrence, M.D.’00, recipient of an Early Achievement Award at Reunion 2010, sees a young patient at Little Rivers Health Care in Bradford, Vt.
2010 YEAR IN REVIEW

FISCAL YEAR 2010 — JULY 1, 2009—JUNE 30, 2010

William Chin, M.D.’00, received an Early Achievement Award at Reunion 2010 and spoke to students about career choices.
### Fiscal Year 2010 Philanthropic Alumni Support

<table>
<thead>
<tr>
<th>Reunion Class</th>
<th>Total $</th>
<th>% Part.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1945 65 Year</td>
<td>$210,685</td>
<td>100%</td>
</tr>
<tr>
<td>1950 60 Year</td>
<td>$6,338</td>
<td>30%</td>
</tr>
<tr>
<td>1955 55 Year</td>
<td>$32,050</td>
<td>55%</td>
</tr>
<tr>
<td>1960 50 Year</td>
<td>$24,537</td>
<td>70%</td>
</tr>
<tr>
<td>1965 45 Year</td>
<td>$15,125</td>
<td>63%</td>
</tr>
<tr>
<td>1970 40 Year</td>
<td>$16,025</td>
<td>58%</td>
</tr>
<tr>
<td>1975 35 Year</td>
<td>$77,965</td>
<td>42%</td>
</tr>
<tr>
<td>1980 30 Year</td>
<td>$73,525</td>
<td>58%</td>
</tr>
<tr>
<td>1985 25 Year</td>
<td>$73,525</td>
<td>58%</td>
</tr>
<tr>
<td>1990 20 Year</td>
<td>$12,788</td>
<td>38%</td>
</tr>
<tr>
<td>1995 15 Year</td>
<td>$11,337</td>
<td>34%</td>
</tr>
<tr>
<td>2000 10 Year</td>
<td>$5,100</td>
<td>29%</td>
</tr>
<tr>
<td>2005 5 Year</td>
<td>$1,150</td>
<td>19%</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>$479,255</td>
<td>51%</td>
</tr>
</tbody>
</table>

#### Alumni Participation

- **Top 5 Classes (by %)**
  - 1960: 70%
  - 1961: 69%
  - 1965: 63%
  - 1966: 63%
  - 1970: 58%

#### Alumni Giving

- **Top 5 Classes (by $)**
  - 1960: $12,788
  - 1961: $7,584
  - 1965: $11,337
  - 1966: $1,150
  - 1970: $5,100
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. 
Rachel A. Bell, ’10  
Andrew J. Eyre, ’10  
Robert C. Johnston, ’09  
Aaron S. Kraut, ’10  
Matthew R. Lynch, ’10  
Quinn C. Meisinger, ’10  
Matthew J. Meyer, ’10  
Hunter B. Moore, ’10  
Amy S. Oddeley, ’10  
Dana C. Ribeiro, ’10  
Isaac M. Robertson, ’10  
Peri P. Tso, ’10  
Abigail R. Woodhead, ’10

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.
Dino N. Barboun, ’09  
Angus L. Beal, ’10  
Rachel A. Bell, ’10  
Benjamin J. Briggs, ’10  
Theresa N. Duong, ’10  
Andrew J. Eyre, ’10  
Luz del Carmen Felix-Manriquez, ’10  
Megan E. Gossling, ’10  
Abby A. Gross, ’10  
Alicia D. Horn, ’10  
J. Kristopher Ware, ’10

The Ellsworth Amidon Award for outstanding proficiency in Internal Medicine
Justin M. Stinnett-Donnelly, ’10

The David Babbott, M.D. “Caring and Seeing” Award for compassion in medicine
Jason I. Halperin, ’10

*The Dean William Eustis Brown Award for broad cultural interests, and loyalty to the College of Medicine
Jason I. Halperin, ’10  
Trevor R. Pour, ’10

The Hirman Buttes Award for excellence in Systematic Pathology
Alise N. Rymer, ’12

The Carbee Award for academic excellence in Obstetrics, Gynecology and Reproductive Sciences
Amy L. Savoy, ’10

The James E. Deaneus Surgical Research Prize
First place: Jeffrey J. MacLean, ’10
Second place: Christopher R. Randall, ’10
Third place: Shahin Foroutan, ’10

The Family Medicine John P. Fogarty Leadership Award
David E. Longstroth, ’10  
Justin G. Smith, ’10

The Edward E. Friedman Award for promise of excellence in the practice of Family Medicine
Amy L. Savoy, ’10

The Dr. & Mrs. Nathaniell Gould, M.D.’37 Prize for outstanding achievements in Orthopaedic Surgery
Jessie W. Janowski, ’10

The Harry Howe, M.D.’52 Senior Student Award for excellence in Surgery
Vanessa W. S. Hui, ’10

The Kerzner Family Prize for service to the community
Pei Chen, ’10

*The Lamb Fellowship Award for best exemplifying concern and care for the total patient
Jason I. Halperin, ’10

The John J. Maack, M.D.’39 Robe Recipient for overall excellence in Obstetrics, Gynecology and Reproductive Sciences
Amy L. Savoy, ’10

The Maine Medical Center Surgery Clerkship Award for best demonstration of the combination of academic ability, leadership and compassion while on the Surgery ClerkshipAndrew B. O’id, ’10  
Yana R. Wirengard, ’10

The Herbert Martin Sr. Award for excellence in Neurology
Joseph Y. K. Cheung, ’10  
Joanna M. Hellmuth, ’10

The John E. Mazuzan Jr., M.D. ’54 Award for excellence in Anesthesiology
Elise J. Heath, ’10

The American Academy of Neurology Medical Student Prize for excellence in Neurology
Pei Chen, ’10

The H. Gordon Page, M.D.’45 Award for excellence in Surgery
Alia F. Whitehead, ’10

The Pitcher Award for representing the qualities of Eleanor & Lewis Pitcher of devotion to family and patients, with a high regard for ethics and honesty.
Christopher R. Randall, ’10

The Radiology Achievement Award for excellence in Radiology
Michael B. Salmela, ’10

The B. Albert Ring, M.D. Memorial Grant Award for best exemplifying compassion, humor, humility, devotion to family and friends, and intellectual curiosity.
W. Tristram Arcott, ’12

The Charles T. Schechtman, M.D.’26 Award for Clinical Excellence
in ’09 Jeffrey J. MacLean, ’10
in ’09 Anna S. Liberator, ’10
in ’09 Abigail R. Woodhead, ’10

The Durwood Smith Award for excellence in Pharmacology
Renee N. Bratspis, ’12

The Society for Academic Emergency Medicine Award for excellence in Emergency Medicine
Sarah E. B. Logan, ’10

The Ralph D. Sussman/Medical Alumni Award for excellence in Pediatrics
Abigail R. Woodhead, ’10

The William Sweetser Award for excellence in Psychiatry
Kelly N. Mestus, ’10

The David M. Tormey Award for perseverance in the pursuit of medical education
Wayne S. Moss, ’10

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: Yana R. Wirengard, ’10
Faculty Award: Peter A. Cataldo, M.D.

The Joseph B. Warshaw Scholarship Award for M.D.-Ph.D. thesis excellence
David P. Curley, Ph.D.

The Henry & Phyllis Wasserman Phorplus Scholarship Prize for excellence in the Basic Sciences
Renee N. Bratspis, ’12  
Martha A. Choa, ’12  
Alyse N. Rymer, ’12  
Tyler F. Stewart, ’12

The Laura Weed, M.D. Award for qualities of excellence, service, and commitment in Internal Medicine
Lisa G. Chui, ’10

*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.
Melissa A. Marotta, ’12

The Ephraim Wolf Award for excellence in General Pathology
Marissa G. Bucci, ’12

*Awarded by vote of the class
Endowed Chairs & Professorships

Listed chronologically by year created.

- The Thayer Professorship in Anatomy (1910)
- Elliot W. Shipman Professorship in Ophthalmology (1934)
- McClure Professorship in Musculoskeletal Research (1987)
- E.L. Amidon Chair in the Department of Medicine (1989)
- Henry and Carleen Tufo Chair in General Internal Medicine (1999)
- S.D. Ireland Family Professorship in Surgical Oncology (1999)
- Robert B. and Genevieve B. Patrick Chair in Nephrology (2000)
- John Van Sicklen Macek, MD'39 Chair in Obstetrics and Gynecology (2000)
- Stanley S. Fieber MD'48 Chair in Surgery (2002)
- A. Bradley Soule and John Tampas Green & Gold Professor in Radiology (2005)
- Robert B. and Genevieve B. Patrick Chair in Nephrology (2000)
- John Van Sicklen Macek, MD'39 Chair in Obstetrics and Gynecology (2000)
- Stanley S. Fieber MD'48 Chair in Surgery (2002)
- A. Bradley Soule and John Tampas Green & Gold Professor in Radiology (2005)

Student Assistance

We are grateful to the supporters of the following funds which provided financial aid assistance to medical students at the University of Vermont College of Medicine:

- Benjamin Adams, MD09 Loan Fund
- Philip Adler, MD’53 Scholarship Fund
- Elicia M. Alger, MD’93 Memorial Scholarship Fund
- Donato Anthony Astone, MD’24 Medical Endowed Scholarship Fund
- David Babbott, MD Caring & Seeing Award Endowed Fund
- Paul Davidson Barash Loan Fund
- Elinoir Bergeron Tourville Bennett Loan Fund
- Peary B. Berger, MD’36 Medical Scholarship Fund
- John L. Berry, MD’29 and Kathleen V. Berry Fund
- Albert Blumberman, MD’43 Medical Endowed Scholarship Fund in memory of Margaret M. Blumberman
- Moses D. Carbee Scholarship Fund
- Louis Chester, MD’38 Medical Scholarship Fund
- Leo C. Clauss Scholarship
- Edward J. Collins, MD’33 Medical Scholarship Fund
- Roger S. Colton, MD’s8 Endowed Scholarship Fund
- Jack & Gertrude Cooper Scholarship Fund
- Lucien J. Clété, MD’54 Endowed Scholarship Fund
- Dahl-Salem Family Endowed Scholarship Fund
- Dwight C. Deyette Fund
- Harriet Dustan, MD’44 Scholarship Fund
- Willy Eiley Scholarship Fund
- Grover Emery Scholarship Fund
- John W. and John Seeley Estabrook, MD’33 Fund
- Edward Vincent Farrell, MD’40 Scholarship Fund
- Finance Authority of Maine
- Jean and Wilford Fortin, MD’65 Scholarship Fund
- Freeman Foundation Legacy Medical Scholarship Fund
- Alan Godfrey, MD’27 and Helen Godfrey Godfrey Scholarship Fund
- The Margaret S. and Manfred I. Goldberg, MD’54 Memorial Scholarship Fund
- James Roby Green, MD’70 Scholarship Fund
- Harold Haskel, MD’21 Scholarship Fund
- Edward Hawes Scholarship Fund
- Clifford Herman Class of ’94 Endowed Scholarship Fund
- Harry E. Howe, MD’52 and Theodora Howe Endowed Scholarship Fund
- Perley A. Hoyt, MD Scholarship Fund
- Robert W. Hyde, MD Medical Scholarship Fund
- Simon and Hannah Josephson Scholarship Fund
- Bernard M. Kaye, MD’47 Scholarship Fund
- John P. Keane, MD’65 Medical Student Grant Fund
- Edith Kidder Scholarship Fund
- Martin J. Koplewitz, MD’52 Scholarship Fund
- Kenneth and Bessie Ladeau Trust
- Austin W. Lane, MD’21 and Janet C. Lane Scholarship Fund
- Robert Larner, MD’42 Loan Fund
- Dr. Aldo J. Leani & Marguerite D. Leani Scholarship Fund
- William H. Lugninbuhl, MD Scholarship Fund
- John Van Sicklen Macek, MD’39 Scholarship Fund
- Maine Medical Association
- John E. Mazzara, Jr., MD’54 Endowed Scholarship Fund
- PE. McSweeney Scholarship Fund
- Michael J. Moynihan, Sr., Medical Scholarship Fund
- George Murnane, MD’72 Scholarship Fund
- National Health Service Corps Scholarship Program
- John Ordonaux Scholarship Fund
- Carlos G. Olso, MD’37 Medical Scholarship Fund
- Hannah Hildreth Pendergast, MD’49 Memorial Medical Grant Fund
- George and Frances Phillips Memorial Scholarship Fund
- Dr. U. R. and Joseph Plante Endowed Scholarship Fund
- John Poczaabur, MD’61 and Thea Poczaabur Medical Scholarship Fund
- Hortense A. Quimby Scholarship Fund
- Dr. Shepard Quinby Medical Scholarship Fund
- Eva C. Quitt Medical Student Grant Fund
- Jonathan Harris Ranney, MD’09 and Zilipah Fay Ranney Scholarship Fund
- Robert Richards, MD’54 Scholarship Fund
- Herbert P. Russell Scholarship Fund
- Winston A.Y. Sargent, MD’32 Loan Fund
- Winston A.Y. Sargent, MD’32 Medical Scholarship Fund
- Charles Schechman, MD’26 and Sylvia Schechman Scholarship Fund
- Ruth Andrea Seeler, MD’02 Medical Endowed Scholarship Fund
- Edward Joseph Sennett, MD’43 Endowed Scholarship Fund
- Peter Shammon Scholarship Fund
- C.V. Starr Endowed Medical Scholarship Fund
- Bartlett H. and Mable L. Stone Scholarship Fund
- William C. Street, MD’59 Endowed Scholarship Fund
- F.D. Streeter Scholarship Fund
- Michael & Hedwig Strobbe Endowed Scholarship Fund
- Alfred J. Sweeney, MD’24 Medical Endowed Scholarship Fund
- Henry Tinkham Scholarship Fund
- Leo E. and Ruth C. Tracy Fund
- E. Turgeon Scholarship Fund
- United States Army Medical Scholarship Program
- United States Air Force Medical Scholarship Program
- United States Navy Medical Scholarship Program
- United States Primary Care Loan Program
- University of Vermont College of Medicine Foundation
- 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, MD’35 Medical Scholarship Award Fund
- Winokur Family Endowment Fund
- Keith Wold, MD’53 and Elaine Wold Medical Scholarship Fund
- UVM Medical Alumni Association Challenge Scholarships
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 the Class of 1955 (shown above listening to the legendary Prof. Ellsworth Amidon, M.D. ’32) spent much of their time in the hall. Today’s students take in lectures in the Sullivan Classroom or in the recently renovated Carpenter Auditorium, but the College’s educational mission of inspiring a lifetime of learning in the service of the patient remains the same. The Hall A magazine section is a meeting place in print for all former students of the College of Medicine.
For me, one of the personal milestones of the past year has been, of course, taking on the honor of serving as president of the Medical Alumni Association. As I’ve said to many of my fellow alumni this year, one of the most important things I hope to communicate through my tenure is the need for the alumni’s continued engagement with their alma mater. I hope you’ll keep watch on the “Upcoming Events” column in the magazine (and on the Web at www.med.uvm.edu/alumni) and take advantage if you can of receptions and other opportunities to keep in touch.

I hope that alumni in the Boston area, for instance, will consider dropping by for the alumni reception I’ll be hosting April 8 at the Boston Park Plaza Hotel. And if you practice in Vermont, by all means try to attend the White Coat Ceremony on February 18. It’s a wonderful chance to share in the excitement of the latest group of future physicians as they prepare to embark on their clinical education, and it’s truly reaffirming to raise your hand along with the class and again take the oath to our chosen profession.

As a professor of surgery, I am honored to share the knowledge and skills I gained at UVM with future health care practitioners and scientists. My greatest pride is when students fully utilize the education they received from the College to help their patients. Recently a former student emailed me about an experience with one of her patients. She was in the difficult situation of delivering bad news about the patient’s medical condition. After she gave the diagnosis, her patient complimented her on the manner in which she provided the information! My former student told me that she had used the same methods she had learned from me during her time as a student. This really touched me because, as a student, I had learned those very same methods from my mentors and professors. We truly are links in the chain of medical knowledge and care.

I hope that in the coming year we keep our place in that chain in mind and, as much as we can, support the next generation of physicians — including the important financial support we can offer the College in order to provide aid for scholarships, student research opportunities, and community service endeavors. This magazine contains a listing of the many people who have assisted the College in the past year. I’d like to add my personal thanks to all of those people, and my hopes for an even more successful 2011.

Jim Hebert, M.D.’77
Albert G. Mackay, M.D.’32 and
H. Gordon Page, M.D.’45 Professor of Surgery

Send Us Your Stories!
If you have an idea for something that should be covered in Vermont Medicine, please email: vmstories@med.uvm.edu.
If you have news to share, please contact your class agent or the Development & Alumni Relations office at medalumni.relations@uvm.edu or (802) 656-4014. If your email address has changed, please send it to medalumni.relations@uvm.edu.

**Upcoming Events**

- **February 18, 2011, 2:00 p.m.**
  - White Coat Ceremony
  - Ira Allen Chapel, reception to follow in Billings Student Center
  - UVM Campus

- **March 16, 2011, 6:00 p.m.**
  - Class of 2011 Dinner
  - Sheraton Hotel and Conference Center
  - South Burlington

- **March 17, 2011, Noon**
  - Match Day Celebration
  - Given Courtyard Square and Hoehl Gallery
  - UVM Campus

- **April 8, 2011**
  - Boston Area Alumni Reception
  - Hosted by Jim Hebert, M.D.’77, President of the Medical Alumni Association & College of Medicine Dean Rick Morin.
  - Boston Park Plaza Hotel, 6–7:30 pm.

- **April 9, 2011**
  - Spring Alumni Executive Committee Meeting
  - Boston Park Plaza Hotel

- **May 22, 2011**
  - Commencement
  - Ira Allen Chapel, reception to follow in Given Courtyard Square and Hoehl Gallery
  - UVM Campus

- **June 10–12, 2011**
  - Medical Reunion 2011
  - UVM Campus

**M.D. Class Notes**

### 1943

**Francis Arnold Caccavo**  
(M.D. Dec. 1943)  
51 Thibault Parkway  
Burlington, VT 05401  
(802) 862-3841  
dracac@verizon.net

**Carleton R. Haines**  
(M.D. Dec. 1943)  
88 Mountain View Road  
Williston, VT 05495  
(802) 878-3115

**Harry M. Rowe**  
(M.D. March 1943)  
65 Main Street  
P.O. Box 755  
Wells River, VT 05081  
(802) 757-2325  
rowe1912@charter.net

### 1944

**Wilton W. Covey**  
357 Weybridge Street  
Middlebury, VT 05753  
(802) 388-1555

### 1945

**Robert E. O’Brien**  
414 Thayer Beach Road  
Colchester, VT 05446  
(802) 862-0394  
drreobrien@aol.com

**H. Gordon Page**  
9 East Terrace  
South Burlington, VT 05403  
(802) 864-7086

### 1946

**S. James Baum**  
1790 Fairfield Beach Road  
Fairfield, CT 06430  
(203) 255-1013  
baum@optonline.net

### 1949

**Joseph C. Foley**  
32 Fairmount Street  
Burlington, VT 05401  
(802) 862-0040  
jcfoley@adelphia.net

**Edward S. Sherwood**  
24 Worthley Road  
Topsham, VT 05076  
(802) 439-5816  
lois@vermontel.net

### 1950

**Simon Dorfman**  
8256 Nice Way  
Sarasota, FL 34238  
(941) 926-8126

**Marjorie J. Topkins**  
“Retired January 1, 1996. They asked me to return part-time September 1997. I stayed until June 30, 1998 and then retired again as much for my husband, who needed me more than the hospital and school. I had thought our retirement would offer us several years of travel, theatre, companionship. But ‘life is what happens while you’re making other plans.’ After three years in the home, Avrom died in January 2004.”  
Email: mtopkins@yahoo.com

### 1951

**Edward W. Jenkins**  
7460 South Pittsburg Ave.  
Tulsa, OK 74136  
(918) 492-7960  
DrEWJmd@aol.com


### 1952

**Please email medalumni.relations@uvm.edu if you’d like to serve as 1952 class agent.**

**William & Nancy Eddy** report that William is still working part time and teaching at St Vincent’s Hospital in Worcester, Mass. Nancy is painting, now doing oils.

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For updates on events see:  
www.med.uvm.edu/alumni
Arthur Kunin writes: “At the age of 85, I owe what good health I have to drinking a large glass of orange juice each morning for the last 50 years.”

Richard N. Fabricius
17 Fairview Road
Old Bennington, VT 05201
(802) 442-4224

John E. Mazuzan Jr.
366 South Cove Road
Burlington, VT 05401
(802) 864-5039
mazuzan@burlingtontelecom.net

1955
Marshall G. London
102 Summit Street
Burlington, VT 05401
(802) 864-4927
marshall19554susanne@gmail.com

1956
Bruce Chaffee writes: “Sorry to miss my 50th Reunion and seeing so many close friends including my cadaver team Herzl Spiro and Marty Bloomfield and roommate Jack Stetson and so many others.”

1957
Larry Coletti
34 Gulliver Circle
Norwich, CT 06360
(860) 887-1450

1958
Peter Ames Goodhue
Stamford Gynecology, P.C.
70 Mill River Street
Stamford, CT 06902
(203) 359-3340

1959
Jay E. Selcow
27 Reservoir Road
Bloomfield, CT 06002
(860) 243-1359
jeselcow@comcast.net

1960
Marvin A. Nierenberg
15 West 81st Street
New York, NY 10024
(212) 874-6484
mnierenbergmd1@verizon.net

Melvin H. Wolk
Clinton Street
PO. Box 772
Waverly, PA 18471
(570) 563-2215
melwiemar@aol.com

John Stetson writes: “Fantastic 50th Reunion in June. Wonderful to reconnect with long-time friends. Thanks to the planning committee!”

1961
Wilfred L. Fortin
17 Chapman Street
Nashua, NH 03060
(603) 882-6202
willy410@aol.com

George B. Reservitz “Retired from being chief of the division of Urology at Mt. Auburn Hospital in Cambridge, Mass. ten years ago. Now work part time in office. Started free walk-in clinic for men five years ago and it is flying.”

1962
Ruth Andrea Seeler
2431 North Orchard
Chicago, IL 60614
(773) 472-3432
seeler@uiuc.edu

1963
John J. Murray
P.O. Box 607
Colchester, VT 05446
(802) 865-9390
jackjmurray@aol.com

H. Alan Walker
229 Champlain Drive
Plattsburgh, NY 12901
(518) 561-8991

1964
Anthony P. Belmont
211 Youngs Point Road
Wiscasset, ME 04578
(207) 882-6228
apb8229@aol.net

Prescott J. Cheney enjoys “Hearing of fellow classmates news and travels. Active with property management, running construction machinery, building roads, gardening, lobstering, clamming on coast. Miss orthopedics, but now have a life.”
Email: picheney@sidewater.net

1965
George A. Little
97 Quechee Road
Hartland, VT 05048
(802) 436-2138
garage.a.little@dartmouth.edu

Joseph H. Vargas III
574 US Route 4 East
Rutland, VT 05750
(802) 775-4671
jvargasmd@aol.com

1966
Robert George Sellig
31 Overlook Drive
Queensbury, NY 12804
(518) 793-7914
rsellig@aol.com

G. Millard Simmons
3165 Grass Marsh Drive
Mount Pleasant, SC 29466
millrom@att.net

Rabbi Howard Meridy is “Still enjoying life in South Florida. Busy in retirement with rabbinical services, U.S. Coast Guard Auxiliary, and learning to play the accordion. Looking forward to our 45th Reunion gathering.”
Email: hmeridy@aol.com

1967
John F. Dick II
P.O. Box 60
Salisbury, VT 05769
(802) 352-6625

1968
David Jay Keller
4 Deer Run
Mendon, VT 05701
(802) 773-2620
djnhk60@comcast.net
Walter H. Jacobs is “Still in solo family practice, but also started general law practice with intent to focus on healthcare law. Son, Travis, practices general law and my daughter is in her last year of law school.” Email: wjacobslaw@gmail.com

Constance M. Passas has closed her solo rheumatology practice in Portsmouth, N.H., and has merged to join and form a group single specialty rheumatology practice at Wentworth Douglas Hospital in Dover, N.H. Email: cmpmd@myfairpoint.net

Ellen Andrews
195 Midland Road
Pinehurst, NC 28374
(910) 293-6646
eland@mindspring.com

Elliot Fett writes: “Sandy and I are celebrating 37 years of marriage with three married children and three grandsons. Life is good.” Email: elliotfett@gmail.com

Mark A. Popovsky
22 Nauset Road
Sharon, MA 02067
(781) 784-8824
mpopovsky@haemonetics.com

Sam Broaddus has been selected by the American College of Surgeons (ACS) to receive the Surgical Volunteerism Award for international outreach in recognition of his commitment and significant contributions toward improving surgical care in Haiti.

Mary Maloney reports: “I am still at UMass in Worcester. Mike Galica, Ken Stevens and Kirk Johnson are all here too. Unbelievably my daughter starts UVM med school. How did that happen?” Email: maloneym@ummhc.org

Paul McLane Costello
Essex Pediatrics, Ltd.
89 Main Street
Essex Junction, VT 05452
(802) 862-8556

Richard Nicholas Hubbell
80 Summit Street
Burlington, VT 05401
(802) 862-5551
rich.hubbell@vtmednet.org

Bruce Leavitt, MD ’81
312 Four Sisters Road
South Burlington, VT 05403
bjleavitt@comcast.net

Betsy Sussman, MD ’81
325 Dorset Heights
South Burlington, VT 05403
betsysussman@hotmail.com

Louis Polish, MD ’81
11 Vale Drive
South Burlington, VT 05403
louis.polish@vtmednet.org

Bruce Leavitt is “Looking forward to seeing members of our class at our 30th Reunion this coming June.”

Andrew Weber writes: “My oldest son, Marc, is a freshman at Newhouse Communication in Syracuse. He hopes to be the next voice of the Yankees. Harris is applying to college for an eight-year medical degree. We met Priscilla Martin visiting Rochester for lunch. All is well.” Email: lungsdr@opline.net

David and Sally Murdock
murdock@cyberport.net

Diane M. Georgeson
2 Ravine Parkway
Oneonta, NY 13820
(607) 433-1620
dgeorgeson@stny.rr.com
Eddy Luh “Started a new great practice called Las Vegas Surgical Associates and am presently Chief of surgery at Valley Hospital Medical Center. My wife Carrel and I recently returned from a two week cruise to the Baltics and St. Petersburg Russia.” Email: chluh@yahoo.com

1995
Allyson Miller Bolduc 252 Autumn Hill Road South Burlington, VT 05403 (802) 866-4902 allyson.bolduc@vtmednet.org

Laurie Yntema writes: “Very full life continues like a river’s rapids in downeast Maine — can’t fight it so I do my best to completely enjoy the chaos.” Email: laurieyntema@gmail.com

1996
Anne Marie Valente 66 Winchester St. Apt. 503 Brookline, MA 02446 anne.valente@cardio.chboston.org
Patricia Ann King 832 South Prospect Street Burlington, VT 05401 (802) 862-7705 patricia.king@vtmednet.org
Amy Roberts McGaraghan writes: “I continue to practice at the Center for Women at Mount Auburn Hospital in Cambridge, Mass. Neil and I are living in Lexington and happily over our heads with work and raising three amazing children, Jack (8), Leo (6), and Lucy (3). Looking forward to reunion in June.” Email: amyandneil@yahoo.com
Anna Morales (previously Sanchez) writes: “Hope to see my best girlfriends Nettie, Janna, Sande and Carin at Reunion in June….missed the 10th year…” Email avmorales@verizon.net

1997
Julie Smail 390 Bridge St. South Hamilton, MA 01982 (978) 468-1943 chinook41@hotmail.com

Steven Battaglia reports: “Matt Danigelis stopped by on his way back from an Australian surf safari, and at 42 is in the best shape of his life. He tells me he spends much of his free time building a custom log cabin in the woods near
Florence, Oregon. Matt would love to chat (his email is: danigelism@gmail.com). Mine is: sbattaglia@hotmail.com"

1998

Halleh Akbarnia
2011 Prairie Street
Glennie, IL 60025
(847) 998-0507
hakbarnia@gmail.com

1999

Everett Jonathan Lamm
11 Autumn Lane
Stratham, NH 03885
(603) 929-7555
ejamm6@comcast.net

Deanne Dixon Haag
4215 Pond Road
Sheldon, VT 05483
(802) 524-7528

Peter Swarr “Celebrated the birth of my daughter — Caroline Brice Swarr on May 6, 2010.” Email: pswarr@gmail.com

2000

Jay Edmond Allard
USNH Yokosuka
PSC 475 Box 1757
FPO, AP 96350
jeallard@pol.net

Michael Jim Lee
71 Essex Lane
Irvine, CA 92620
michael_j_lee1681@yahoo.com

Naomi R. Leeds
303 Third St. #204
Cambridge, MA 02142
nleeds@partners.org

Maya Jerath writes: “I was sorry to miss our 10th reunion this year! I am an allergist/immunologist at the University of North Carolina at Chapel Hill. My husband, Sanjoy, and I have a 7 ½ year-old daughter, Noor.” Email: Jerath@gmail.com

2001

R E U N I O N '11

Ladan Farhoomand
1481 Regatta Road
Carlsbad, CA 92009
(626) 201-1989
ladanmd@gmail.com

Joel W. Keenan
Greenwich Hospital
Five Perryridge Road
Greenwich, CT 06830
joelkeenan@hotmail.com

2002

Joan Louise Monaco
1034 Fifth Avenue
New York, NY 10028
(212) 988-7788
joanlmonaco@aol.com

Kinjal Nanavati writes: “My husband and I are moving back to the US from South Korea where we spent a year at the 121st Combat Support Hospital. I’m moving to Maryland to join the faculty at University of Maryland Department of Emergency Medicine. We’re looking forward to returning to the East Coast.” Email: kinjal.sethuraman@gmail.com

Maureen C. Sarle
maureensarle@yahoo.com

Thuan Nguyen reports: “My wife, Sarah Moesker, and I welcomed our second son, Davis Nguyen, on July 26, 2010. His older brother, Reece Nguyen, will celebrate his second birthday this Thanksgiving. Reece and Davis are getting along splendidly. I am still working in several different emergency departments in Phoenix and am the medical director for the fire departments of Tempe and Guadalupe, Ariz.” Email: nunjen@yahoo.com

Martin Shreeve writes: “We are now living in southern California. Having fun working for Pfizer as a medical Oncologist.” Email: Martin.shreeve@gmail.com

2003

Omar Khan
33 Clearwater Circle
Shelburne, VT 05482
(802) 985-1131
omar.khan@vtmednet.org

For Information Contact:
University of Vermont
Continuing Medical Education
128 Lakeside Avenue Suite 100
Burlington, VT 05405
(802) 656-2292
http://cme.uvm.edu

Continuing Medical Education
MARCH–JUNE 2011 Conference Schedule

Vermont Perspectives in Anesthesia
March 2–6
Stowe Mt. Lodge, Stowe, Vt.

Vermont Blueprint for Health Conference
April 11
Sheraton Hotel & Conference Center, South Burlington, Vt.

Vermont Geriatrics Conference
April 12
Montpelier, Vt.

Child Psychiatry for the Primary Care Provider
May 5–6
Doubletree Hotel, South Burlington, Vt.

Women’s Health Conference
May 11–13
Sheraton Hotel & Conference Center, South Burlington, Vt.

Family Medicine Review Conference
June 7–10
Sheraton Hotel & Conference Center, South Burlington, Vt.

Vermont Summer Pediatric Seminar
June 16–19
Equinox Hotel, Manchester, Vt.

College of Medicine alumni receive a special 10% discount on all UVM Continuing Medical Education conferences.
Obituaries

John C. Patten, M.D.’47
Dr. Patten died June 20, 2010, at Huggins Hospital in Wolfeboro, N.H. He was 87. He attended Yale University and received his bachelor’s degree from the University of Vermont in 1944, before attending the College of Medicine. He interned at the Mary Fletcher Hospital in Burlington. Dr. Patten served in the U.S. Army in World War II and Korea. He did a six-year residency in surgery at LDSH Hospital in Salt Lake, Utah and Lenox Hospital in New York City. He practiced in Austin, Minn., for 13 years, then moved to Wolfeboro, where he practiced surgery at Huggins Hospital until his retirement in 2000.

Anthony M. Alberico, M.D.’51
Dr. Alberico, 89, a retired family physician and medical director for the Philadelphia Police and Fire Medical Association, died October 2, 2010, of progressive supranuclear palsy, a neurological disorder, at home in Westmont, Penn. He was raised in Vermont and served in the U.S. Navy as a pharmacist’s mate in the Pacific during World War II. After the war he earned his undergraduate degree from UVM before entering the College of Medicine. He interned at St. Mary Hospital in Philadelphia and completed an internal medicine residency at Thomas Jefferson University. He practiced in the Philadelphia area, and in 1980 he became medical director of the Philadelphia Police and Fire Medical Association.

Chester Boulris, M.D.’66
Dr. Boulris died on June 20, 2010, at his home in Needham, Mass., of complications following several strokes. He was 73. Until suffering a heart attack and a massive stroke in August 2001, he maintained a practice as an ophthalmologist in Boston, and in Yarmouth, Mass. He was born in New Haven, Conn., and later moved to Springfield, Mass. Athletic achievements were the highlights of many years of his life. A member of the Harvard College Class of 1960, he turned down offers to play both professional football and baseball. After medical school he served his internship in Burlington, then served for two years as a captain in the United States Air Force during the Vietnam War. Following military service, Dr. Boulris served his ophthalmology residency at the Massachusetts Eye & Ear Infirmary (MEEI) and was later a clinical instructor in ophthalmology at Harvard Medical School and an associate surgeon at MEEI.
McLean Home in Simsbury, Conn. He Bergdorf Health Center and, later, The and disenfranchised populations. Dr. quality health care services for underserved to the development and provision of high 2010. He was 64. His career was devoted motor vehicle accident on September 3, Conn., died from injuries sustained in a Roy V. Erickson, M.D.'71 Joseph-Martin Hospital in Martin, Ky. had practiced on the cardiology staff at St. Heart and Vascular Center in Portsmouth, he had practiced at the King's Daughters Guard from 1970 to 1972. In the past a lieutenant commander in the U.S. Coast medical school and residency, he served as in Bangor, Maine. After graduation from to 2001 he was an associate professor of radiology at Dartmouth Medical School. His gift for teaching was recognized by Teacher-of-the-Year awards from his residents. He practiced at Upper Valley Radiology till his retirement in 2004. Dr. Sullivan was a key supporter of the College of Medicine's efforts, in recognition of which the school's main lecture hall was named for him in 2009. Earl Perrigo, M.D.'69 Dr. Perrigo, of Prestonsburg, Ky., died October 7, 2010. He was born in 1942, in Bangor, Maine. After graduation from medical school and residency, he served as a lieutenant commander in the U.S. Coast Guard from 1970 to 1972. In the past he had practiced at the King's Daughters Heart and Vascular Center in Portsmouth, Ohio. Since January 2010 Dr. Perrigo had practiced on the cardiology staff at St. Joseph-Martin Hospital in Martin, Ky. Roy V. Erickson, M.D.'71 Dr. Erickson, M.D., a resident of Simsbury, Conn., died from injuries sustained in a motor vehicle accident on September 3, 2010. He was 64. His career was devoted to the development and provision of high quality health care services for underserved and disenfranchised populations. Dr. Erickson served as medical director at the Bergdorf Health Center and, later, The McLean Home in Simsbury, Conn. He was formerly the national medical director for Evercare and at the time of his death was the Connecticut medical director of AmeriChoice.

Faculty

Obituaries for Professor of Neurology Hillel Panitch, M.D., who died Dec. 25, 2010, and for Associate Professor of Medicine Emeritus Carner Van Buren, M.D., who died Jan. 7, 2011, will appear in the next issue of Vermont Medicine.

James F. Clapp III, M.D.'63 Dr. Clapp died September 22, 2010. He was a noted researcher in the area of exercise and pregnancy since the early 1980s. He was a professor in the Department of Obstetrics and Gynecology at the UVM College of Medicine from 1970 to the late 1980s. He also served as the director of research from 1979 to 1987. He was most recently the director of obstetrical research at Metro Health Medical Center in Cleveland, Ohio, and a professor in the Department of Reproductive Biology at Case Western Reserve University School of Medicine.

Platt R. Powell, M.D.'39 Dr. Powell died August 9, 2010, at The Arbors in Shelburne, Vt. He was 97. Born and raised in Milton, Vt., he entered the University of Vermont as an engineering student but then shifted to premedicine. After internning at Bryn Mawr Hospital in Philadelphia, Dr. Powell was appointed to a teaching fellowship in pathology at the UVM. In 1942 he joined the U.S. Army Medical Corps as Captain/Major Chief of Urology of the 39th Station Hospital in England. He returned home in 1945 and began his urology residency training, first at Morrisania Hospital in New York City and later at the UVM College Of Medicine. Dr. Powell began in 1950 as instructor in urology at UVM and rose to the rank of professor of clinical urology, dividing his time between teaching, clinical research and practice until 1977.

Charles M. Poser, M.D. Dr. Poser, a neurologist who was prominent in the field of multiple sclerosis and was for many years chair of the Department of Neurology at UVM, died of pneumonia November 11, 2010, at his home in Boston, Mass. He was 86. He was born in 1923 in Antwerp, Belgium. After Germany invaded Belgium in 1940 Dr. Poser, then a Belgian Boy Scout, volunteered for service at a makeshift British Military Hospital near Dunkirk during the epic Anglo-French evacuation of forces to England of May–June 1940. The Poser family subsequently escaped Belgium and settled in New York City. After serving in the U.S. Army attended CCNY and Columbia College of Physicians & Surgeons, and trained at the New York Neurological Institute. In 1983, refining criteria previously outlined by George Schumacher, M.D. at the UVM, Dr. Poser published the first definitive system for measuring and describing Multiple Sclerosis — the “Poser Criteria.”

Ethan A. H. Sims, M.D. Dr. Sims, internationally renowned for his work in diabetes and obesity, and a direct descendant of Vermont pioneer Ethan Allen, died November 9, 2010, at his home at Wake Robin, Shelburne, Vt.

He received a B.A. from Harvard College and his M.D. from Columbia College of Physicians and Surgeons. He joined the UVM College of Medicine faculty in 1950 and spent the remainder of his academic career there, eventually becoming professor of medicine emeritus. In 1991, UVM named its metabolic research center in his honor.

Dr. Sims was known for coining the term “diabesity,” describing the result of genes interacting with other genes and environmental factors to produce obesity-induced type 2 diabetes.
First-year medical student Adam Ackerman shadows Linda Thompson, R.N., as she cares for Nancy Allen at Fletcher Allen Health Care. Ackerman and other medical students shadow nurses prior to the beginning of clinical education as part of the Professionalism, Communication, and Reflection component of the Vermont Integrated Curriculum.

photograph by Raj Chawla, UVM Med Photo
Enduring Connections

The naming of a physical space, scholarship, or academic position is a way of creating a lasting legacy, a way to provide support and at the same time build the “culture of giving back” throughout the College of Medicine community. The Pasanen family joined the list of supporters recognized by a naming opportunity in 2010, with a bridge in the Courtyard at Given that commemorates Wayne Pasanen, M.D. ’71 and his son, Associate Professor of Medicine Mark Pasanen, M.D. ’92 (shown on the bridge that bears his family’s name).

To learn more about these naming opportunities, contact:

University of Vermont
College of Medicine
Medical Development & Alumni Relations Office
(802) 656-4014 | medical.giving@uvm.edu
www.med.uvm.edu/giving