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THE YEAR 2004 WAS FILLED WITH notable milestones for the University of Vermont College of Medicine, as its faculty, staff, and students worked in a myriad of ways toward the fulfillment of the school’s mission in four principal areas: education, research, patient care, and community involvement. As we have done for the past four years, we offer this report as a record of many of the outstanding efforts by members of the College of Medicine community, and as a recognition of the philanthropic support of our alumni and friends that has helped us to meet our goals.

Foremost of all our missions is the education of the physicians and scientists of the future. 2004 marked the two-hundredth anniversary of medical education in Vermont, when Dr. John Pomeroy, who later helped found the College, first began instructing students at his practice on the Burlington waterfront. Today, more than a hundred new medical students a year enter our halls and, following the path laid out by our Vermont Integrated Curriculum (VIC), they begin to assimilate the latest scientific knowledge and patient care techniques, and setting the stage for a lifetime of learning. Our faculty are constantly improving the curriculum to be responsive to students and the changing health care environment.

New insights that are the basis of health care come from medical research, and the researchers in the laboratories and clinics of our academic health center have continued to chart their own paths of discovery in the areas of cancer, cardiovascular disease, lung biology, addiction, neuroscience, immunobiology, and other important fields. Our faculty and students continue to publish in the most prestigious scientific journals. Our research activity has grown above and beyond that expected, because of the increase in the NIH budget, reflecting the outstanding quality of our faculty, students, and staff. As federal funding levels off, it will be our challenge to continue our growth. I believe we are up to that task, and this report will give you a glimpse of the outstanding talent we have at our institution.

We are also fortunate to have a true unity of purpose among all the participants in our academic health center, including Fletcher Allen Health Care, which welcomed its new chief executive officer, Melinda Estes, M.D., during this year. This shared vision among the senior leadership of the University, and our colleagues at Fletcher Allen and Maine Medical Center has given us a strong strategic view that will guide us well in the coming years. Our academic health center continues to serve the patients, students, and communities of our entire region. The highlights you will read about in the patient care and community sections of this report give only a flavor of the thousands of important connections, day in and day out, that our institutions help bring about.

Thank you to all faculty, students and staff for your outstanding work that is the basis of this report. Thank you to all alumni, friends and foundations that have helped provide the support that allows us to do our work.

Sincerely,

John N. Evans, Ph.D.
Dean
HISTORY
The University of Vermont College of Medicine was established in 1822 as the nation’s seventh medical school, and its roots reach back to 1804 when Dr. John Pomeroy began instructing students in his Burlington home.

CHARACTER
The College, in alliance with our teaching hospital, Fletcher Allen Health Care, has as its mission to render the most compassionate and effective care possible, to educate new generations of physicians in every area of medicine, and to advance medical knowledge through well-designed and carefully constructed research.

HIGHLIGHTS
• One of 125 medical schools in the country.
• Conducting nationally and internationally recognized studies in a number of areas, including cardiovascular disease, cancer, lung disease, neuroscience, addiction and immunobiology.
• Ranked in the top third of U.S. medical schools for research grants per faculty member.
• Class of 2007 makes up largest class in the College’s history.
• External funding for research more than tripled from 1992-2003.

STUDENTS
The College received 4868 applications for the 101 positions in the Class of 2007. 214 were accepted to fill the slots.

Medical Students ..............................................407
In-State................................................................30%
Women .............................................................62%
In-State Tuition & Fees ..................................... $23,281
Out-of-State Tuition & Fees ................................ $40,001
Graduate Students ............................................104
Post-Doctoral Fellows ...........................................77
MD-PhD Students ..............................................16

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

FACULTY
Basic Science ........................................................87
Clinical ..............................................................448
Volunteer (VT, ME, NY) ..................................1,275
Staff .....................................................................460

RESEARCH SUPPORT
Total Dollars ..................................................$80.6 million
NIH .....................................................................85.13%
Industry .............................................................1.6%
Other .................................................................13.27%
Clinical Trials ..................................................$5.5 million

RESEARCH PROGRAMS
Cardiovascular Disease, Cancer, Neuroscience, Lung Biology,
Environmental Pathology, Outcomes, Clinical Epidemiology,
Addiction and Behavior

FACILITIES/PHYSICAL PLANT
Gross Square Feet
Given Building ..................................................196,000
HSRF .................................................................110,000
Stafford Hall .....................................................70,000
Colchester ........................................................36,000
DeGoesbriand ....................................................16,000
Others ...............................................................35,400
Total .................................................................463,400

ENDOWMENTS
College of Medicine Endowments—
Market Value as of June 2004
Departments .....................................................$44,367,097
Scholarships ....................................................$21,634,383
Total ...............................................................$66,001,480

PRIVATE GIFT REVENUES
Private philanthropy to the College of Medicine totaled $12 million
in fiscal year 2004. Significant contributions have been received from alumni, friends, and foundations in support of the College.
THE YEAR 2004 MARKED

the 200th anniversary of medical education in Vermont. When, in 1804, Dr. John Pomeroy welcomed his first student apprentice at his home and office on Burlington’s waterfront, and began his efforts that would culminate in the College’s founding in 1822, he could hardly have envisioned his small clearing in the wilderness would someday produce more than a hundred doctors and scientists every year. Today, students at the College come from throughout Vermont’s small towns, and from towns and cities across the nation. They study at a place where the teaching of medicine is always engaged in a process of improvement—witnessed by the introduction this year of the new Vermont Integrated Curriculum. The College prepares these students to remain active learners throughout the rest of their careers.
S enator Patrick Leahy and his wife, Marcelle, visited the College in the spring of 2004 to experience first-hand the results of the nearly $1 million federal Health Resources and Service Administration grant he secured to establish the Professional Learning and Assessment Center at the school. “We are grateful to Senator Leahy for his support of medical education and his ongoing commitment to our College of Medicine as a partner in Vermont’s only academic health center,” said Dean John Evans, who led the Leahy’s tour of the center. The new curriculum integrates basic science and clinical learning from the outset, and the Assessment Center provides an environment where medical students can train and practice their patient care skills early on. “It has been a huge success we could not have achieved without the senator’s support,” said Evans.

Donor Support: MILDRED “MIMI” REARDON, M.D.’67

“It’s exciting for me to have been a student here and now be able to contribute to the educational mission of the College,” says MILDRED “MIMI” REARDON, M.D.’67. Dr. Reardon’s gift of $200,000 to the Dean’s Research & Education fund will help support the College’s strategic priorities. The Reardon Classroom in the new Medical Education Center (scheduled for completion in 2005) will, for years to come, be a first-rate learning environment for 40 or more students at a time. Dr. Reardon’s connection to her alma mater are longstanding and deep—she has been a member of the faculty since 1971, and is currently associate dean for primary care, clinical professor of medicine, and principal investigator of the College’s Area Health Education Centers program.

College of Medicine students begin their educational journey in the classroom, but they soon continue it throughout Vermont (like AMYLYNNE FRANKEL ’07, at left, who studied marijuana and tobacco links in Vermont teens this past summer) and in the far corners of the globe. Students are encouraged to pursue research and clinical experiences throughout the world, and some receive help to further their educational plans. During the summer of 2004, students pursued research studies in seven states of the U.S., and in several countries overseas, including Ethiopia, Nepal, Vietnam, England, and Argentina. “This experience was so amazing,” says Thai Lan Tran ’07, who studied HIV transmission among sex workers in Vietnam. “I learned so much about so many dimensions of this problem, not just the public health one, from actually being there.” Student research projects are regularly funded by the College’s Medical Annual Fund. Contributors to the Annual Fund this year also gave more than $1.2 million in scholarship support to the student body.
For students, medical and graduate education is a long series of “firsts”—whether it is a first gross anatomy class, first meeting with a laboratory mentor, first clinical experience, or any number of new experiences that come with the territory. The 2003-2004 school year saw the largest class ever of new medical students—101 in all—enter the College, along with more than two dozen new graduate students. Those 101 first-years gathered in Carpenter Auditorium on January 12 to be formally outfitted for clinical rotations at the WHITE COAT CEREMONY. Helping students don their new coats were, among others, Dean John Evans and Fletcher Allen Health Care CEO Melinda Estes, M.D. Later in the year, the Class of 2004 celebrated Match Day, when they found out their new residency appointments at the more than 60 prestigious institutions around the country at which they are now continuing their training.

When College of Medicine alumni return to campus, they often reminisce about the place; but the first thing they almost always talk about are their former teachers. These personal relationships are the most meaningful part of the experience of becoming a physician or scientist. Faculty of the College are regularly recognized by students for the important role they play. The Class of 2004 honored Professor and Chair of Surgery Steven Shackford, M.D., with the Alpha Omega Alpha medical honor society award in May. “Teaching has always been a priority—ever since I was a resident,” says Shackford. “I have an opportunity to learn while I teach, and it really keeps me on my toes. Our students are very motivated and eager to learn. They are a real enjoyment to teach.” Another faculty member honored this year was Professor of Biochemistry PAULA TRACY, PH.D., (at left) who was named one of four University Scholars for 2003-04. The University Scholars program was established by UVM’s Graduate College to recognize outstanding and sustained contributions by faculty to research and scholarship in their disciplines. “I was very pleased and honored to have my research endeavors recognized by my colleagues,” said Tracy. “Equally important for me was having the opportunity to share my work with them, which I truly enjoy doing.”
JUST AS MEDICAL EDUCATION has continued for two centuries in Vermont, medical research has longstanding roots in the state. One of America’s first great researchers, William Beaumont, trained in the Green Mountain State in the early 1800s before making landmark findings in the previously unknown workings of human digestion. Today, researchers at the College continue to make strides in understanding the broad spectrum of wellness and disease, with a focus on cardiovascular, cancer, neuroscience, addiction and behavior, immunobiology, and infectious disease. Research funding at the College totaled more than $80.6 million in 2004, more than triple that of a decade ago, and clinical trials at the academic medical center brought in an additional $5.5 million of support.

For Associate Professor of Pathology YVONNE JANSSEN-HENINGER, PH.D., the College of Medicine is a place where research proceeds in a vibrant, interdisciplinary milieu. A faculty member since 1993, she explores how the epithelial cells of the body’s airways are activated in response to allergens, and what their role is in the primary inflammatory response in asthma. Janssen-Heninger is a member of the Lung Biology and Pathology study section of the National Institutes of Health. Her paper on the signaling molecule nitric oxide was highlighted in the Proceedings of the National Academy of Sciences, and was accompanied by a commentary from internationally renowned cancer experts. “The successes of the past year reflect the outcome of years of hard work that was performed as a team by excellent young and senior scientists from different laboratories,” says Janssen-Heninger. “Vermont’s supportive research environment comes from small centers structured around central topics that are supported by state-of-the-art core facilities. It is this formula that my laboratory will continue to support, with the opportunity to do state-of-the-art research.”
Why were these seemingly rational adults doing this tremendously irrational thing?” says Professor of Psychiatry John Hughes, M.D., as he recalls his adolescent observations of adult cigarette smokers. Later in life, during his medical residency, he was struck by the number of tobacco-related illnesses he saw, and his research path was set. One of Hughes’ earliest findings was that nicotine withdrawal syndrome drags out over three to four weeks, rather than a shorter period of more intense symptoms common in other addictions. “That duration is important,” he notes, “because a low-grade withdrawal over a long time is perhaps more difficult to resist.” Today, Hughes studies tobacco and nicotine addiction, including nicotine replacement therapy and the role of motivational advice. His work was honored in the fall of 2003 with the prestigious Alton Ochsner Award Relating Smoking and Health from the American College of Chest Physicians. Hughes is a director of the UVM Human Behavioral Pharmacology Lab and is a past chair of the Vermont Tobacco Evaluation and Review Board.
DONOR SUPPORT: THE TOTMAN TRUST
This summer, the members of the TOTMAN TRUST, below right, visited the College’s Totman Center for Human Cerebrovascular Research to be briefed on progress in cerebrovascular research and the future direction of research at the center to which they provide such significant support. Ray W. Totman, a businessman from Malone, NY, established the foundation in the mid-1980s. Mr. Totman wished that his estate be used to further medical research and find solutions for health problems. The first of many annual gifts from the Totman Trust was received by the College in 1989, a year after Ray Totman’s death. The Ray W. Totman and Ildah Totman Medical Research Fund was established, and the funds were used to construct and operate a laboratory for research concerning Ischemic Cerebrovascular Disease. Today the Totman Lab in the Department of Pharmacology is directed by Professor and Chair of Pharmacology Mark Nelson, Ph.D.

The College of Medicine is one of only a dozen sites nationwide participating in a Phase II clinical trial of to evaluate a new VACCINE AGAINST ANTHRAX. The study, initiated by VaxGen, Inc., as a part of a contract from the National Institutes of Health, will evaluate the safety and immune response at various doses. The vaccine is protein-based and contains no bacteria, so it cannot cause anthrax. “Development of a next-generation vaccine against anthrax is a priority of the federal government,” said principal investigator Beth Kirkpatrick, M.D., assistant professor of medicine, who is supervising the study. “Having a solid clinical trials infrastructure and a track record of success in vaccine studies helped to bring this important study to UVM, and we are excited to be a part of the development of this new anthrax vaccine.”
Late one night several years ago, IRA BERNSTEIN, M.D.’82, professor of obstetrics and gynecology, was kept awake by an idea about a line of patient-oriented research he had been considering. “I got up and wrote it down at about 2 o’clock in the morning,” he recalls. That idea became a hypothesis that sought out to explain the occurrence of preeclampsia—one of the leading causes of maternal mortality in the world. Preeclampsia, a condition characterized by high blood pressure, affects about 5 percent of all pregnancies. It has been documented for thousands of years, but no one has ever identified the mechanism that causes the condition, or found a way to identify which pregnant women will develop it. It can progress into seizures, hemorrhage, and strokes in the mother and risky early delivery for the baby—the only cure for the condition. Bernstein is now testing the idea that first occurred to him that sleepless night—that a difference in the physiology of some women leads to a poor adaptation to the changes in blood volume in pregnancy, which leads to preeclampsia. He is now engaged in a five-year study he hopes will lead to a way to predict the disorder before it occurs.

ALMOST EVERY MINUTE OF every day, College of Medicine students and faculty are engaged in some way in patient care situations, understanding an illness or disease, talking with a family, or providing treatment and care. A key component of the new medical curriculum that guides students is the full integration of basic science and clinical learning, so that the reason for medical learning—care of the patient—is always front and center. Along with partner Fletcher Allen Health Care, the College works to improve the health of all the people of Vermont, through state-of-the-art facilities, treatment and therapies, clinical trials of important new potential breakthroughs, and good old-fashioned human caring, instilled and underscored, one personal experience at a time, at the bedside.
This summer, the academic health center comprising the College of Medicine and Fletcher Allen Health Care became the first in the nation to utilize two of the most highly advanced imaging systems available. Fletcher Allen installed a Philips high-performance Intera 3.0 Tesla (T) magnetic resonance imaging (MRI) system that dramatically increases scan speed and image resolution, and also added a Philips Brilliance 40-slice computed tomography (CT) system, enabling clinicians to see details never before seen in CT. Both products are the first installations in the state of Vermont and the Brilliance 40-slice CT system is one of the first installed in the world. “This will greatly improve care for our patients,” said Melinda L. Estes, M.D., president and chief executive officer, Fletcher Allen Health Care. “This partnership enhances the ability of our physicians to deliver high-quality care and conduct leading research.”

The College fulfills an important role providing new doctors to serve Vermont’s health care needs—nearly 40 percent of Vermont’s physicians either received their M.D. at the school or did their residency at our teaching hospital partner. Vermont’s physicians, in turn, contribute greatly to the educational and patient care mission of the school by serving as clinical faculty members. One prominent local example is pediatrician Joseph Hagan, M.D., who celebrated his twenty-fifth year as a clinical faculty member this year. Year after year, a steady stream of students has shadowed Dr. Hagan in his Burlington pediatric practice, and learned from him in guest lectures at the College. “I really appreciate the questioning atmosphere students produce in my practice,” he says. “They keep me asking myself important questions about the way I treat patients, and that often suggests new ways to improve.”
For patients with irregular heartbeats, and for medical students and physicians learning better ways to treat them, the newly enhanced electrophysiology treatment lab at Fletcher Allen Health Care has the most advanced knowledge and techniques in patient care. Electrophysiology is the study of the electrical currents of the heart and the treatments used to correct cardiac irregularities, which include atrial fibrillation, the most common irregularity, in which the heart rapidly quivers instead of beating steadily. Associate Professor of Medicine Peter Spector, M.D., and his fellow electrophysiology team members use the newly updated lab facilities to perform such high-tech procedures as radiofrequency catheter ablation, a technique that prevents the irregular flow of electricity to the heart and returns the patient’s heartbeat to normal. Dr. Spector and his team are frequently called upon to teach other physicians, so educational space has been designed into the lab.

Professor of Medicine Hyman Muss, M.D., co-authored an article in the New England Journal of Medicine in November 2003 on the result of a clinical trial that tested the effectiveness of the drug letrozole in more than 5,000 women who had breast cancer and who had been treated for five years with the drug tamoxifen. Muss and his colleagues in the study found that “letrozole therapy after the completion of standard tamoxifen therapy significantly improves disease-free survival.” Muss has been on the faculty of the College since 1996 and is the principal investigator for several multi-center studies on breast cancer treatments as well as being head of Hematology and Oncology and director of the Breast Care Center.

Donor Support: Meredith and David Babbott, M.D.

The first David M. Babbott, M.D., Caring and Seeing Award was presented in November 2003 to then fourth-year medical student Susan Campbell, M.D.’04. The award was established by Dr. Babbott’s wife, Meredith, to honor the physician, educator, and caring community member who served as a role model for decades of students and residents at the College before his retirement from the faculty in 1993. The Babbott Award provides recognition and support for a student who demonstrates a deep commitment to the patient as a whole human being—a view that is at the core of the College’s educational and patient care missions.
ALONG WITH THE THREE primary missions of the College, equally important is its engagement with the community it serves—locally, nationally, and worldwide. “From direct care for our population in terms of patient care, to our outreach to encourage youngsters to think about careers in medicine and science, to working with policy makers in our state to create a better health system for the citizens of Vermont and, hopefully, the nation, we choose to be integral members of this community,” explains Dean John Evans. “You could carry on a lot of what we do without going ‘outside the walls,’ so to speak. That’s not the choice that we’ve made.”
Ophthalmologist and associate professor of surgery Geoff Tabin, M.D., was nationally recognized this year for his work to provide care and physician training in an impoverished region of the world with a staggeringly high incidence of cataracts. The Himalayan Cataract Project, of which Tabin is the co-director, was the subject of a National Geographic Ultimate Explorer documentary, “Miracle Doctors,” that aired on television in the fall of 2003 and again in the spring of 2004. Ultimate Explorer host Lisa Ling and a National Geographic crew trekked for a week with Tabin and his colleague, Sanduk Ruit, M.D., through a remote region of Nepal where, it is theorized, extreme altitude has led to a markedly increased incidence of cataracts in the population. Since founding the project in 1994, Tabin and Ruit have restored the sight of over 60,000 people.

For nearly ten years, the Vermont Child Health Improvement Project (VCHIP) has supported clinicians in the state in their efforts to improve care by providing the tools and techniques of quality improvement. Through one-on-one and group support, VCHIP helps doctors deliver better care by improving their office systems. VCHIP’s efforts were honored in the fall of 2003 with the March of Dimes Fifth Annual Health Awards. While accepting the award, Research Assistant Professor of Pediatrics Judy Shaw, VCHIP’s director (pictured with Don Swartz, M.D., of the Vermont Department of Health) took the opportunity to announce a new VCHIP initiative, funded by the March of Dimes, to improve prenatal care in Vermont. VCHIP is a program of the Department of Pediatrics, in collaboration with a number of health care agencies.

Donor Support: Philip Adler, M.D.’53
This year, Dr. Philip Adler, a longtime continuing supporter of the College, pledged $20,000 to establish a Medical Alumni Association Challenge scholarship that will bear his name. The Adler Scholarship is earmarked to increase diversity at the College by providing funds to assist a student based on personal need and background including, but not limited to, having been disadvantaged or overcoming hardship due to socio-economic issues, health concerns, or substandard educational opportunities. Dr. Adler was honored most recently with an alumni association Award for Service to Medicine and Community for his bold action championing the racial desegregation of Tampa General Hospital in the 1960s.
Medical student **Joann Romano-Keeler '06** was recognized as a United Way Volunteer of the Week this spring for her enthusiastic work to help stem the tide of poor nutrition and diabetes in the community. Romano-Keeler, who was a recipient of a Schweitzer Fellowship for community service in her second year of medical school, initially started working at the Committee on Temporary Shelter (COTS) in Burlington as part of a project to provide nutrition outreach services and health screening for COTS clients at places like the Firehouse Family Shelter. “Joann has incredible enthusiasm and energy,” said Helen Oetjen, COTS program director. “She is very knowledgeable in nutrition and can present it in a way that people can use. Joann can engage and develop a relationship with anyone—the clients we serve love her.”

When Vermont Governor Jim Douglas visited the College last fall, he was presented with a new copy of the second edition of the **Health Careers Directory**, produced by the College’s Area Health Education Centers program office. The guide was distributed to middle and high school guidance counselors, school nurses, librarians, and health and science teachers throughout Vermont. It details over 50 health care occupations and provides information on work environments, job outlook, salary, education needs, educational/preparatory programs in Vermont, New York and New England and professional web sites. It is a valuable resource for those interested in health careers with a wide range of career options that are available and needed in Vermont.
Year in
DEPARTMENT OF ANATOMY AND NEUROBIOLOGY
RODNEY L. PARSONS, PH.D., CHAIR

The past year was very successful and exciting for the Department of Anatomy and Neurobiology (ANNB). This marked the third year of funding for our Center of Biomedical Research Excellence (COBRE) grant in Neuroscience, which provided federal support for the research programs of five junior investigators, two multi-user research cores (Cell/Molecular Biology and Imaging/Physiology), and a Translational Core that promotes interaction between clinical and basic neuroscientists. We are particularly pleased that three of the original COBRE-supported junior PIs have obtained independent R01 funding, allowing COBRE funds to support new pilot projects for two other junior faculty. Last year we also obtained supplemental COBRE funds to increase proteomics research capabilities in the Cell and Molecular Core facility, thus enhancing the state-of-the-art molecular biology technology offered by this facility to the UVM research community. On September 22, the second COBRE-sponsored Neuroscience Plenary Lecture featured Dr. Stephen Heinemann, Professor of the Molecular Neurobiology Laboratory at the Salk Institute and President-elect of the Society for Neuroscience.

ANNB faculty maintained multiple extramurally-funded research programs that focused on cellular, molecular, and developmental neuroscience as well as on the neural regulation of GI, urinary, and cardiac function. Research results were published in highly regarded, peer-reviewed journals and many faculty members were invited speakers at national and international meetings as well as invited seminar speakers at other academic institutions. We continue to participate on NIH study sections, serve on editorial boards and review scientific manuscripts.

Department faculty remained dedicated to a diverse educational mission that includes teaching responsibilities for residents and medical, allied health, undergraduate, and graduate students. ANNB faculty participated actively in the inaugural year of the Foundations Level courses in the Vermont Integrated Curriculum (VIC). Cynthia Forehand, Ph.D., director of the Foundations Level curriculum, also is co-director of the Neural Science Course. Drs. Cornbrooks, Fiekers, and Wright serve as directors of other VIC Foundations Level courses: Connections, Cell and Molecular Biology, and Human Structure and Function, respectively. Jean Szilva, M.D., was instrumental in developing the highly-rated imaging modules that were key components of many Foundation Level courses. The medical class of 2006 presented Mr. Bruce Fonda with the “Golden Apple Award” in recognition of teaching excellence.

Other significant faculty accomplishments include the appointment of Rae Nishi, Ph.D., as co-director of the highly regarded Summer Neurobiology Course held at the Marine Biological Laboratory in Woods Hole, Massachusetts; the election of Victor May, Ph.D., to the Scientific Advisory Committee for the 7th International Symposium on VIP, PACAP and Glucagon-Related Peptides; and Dr. Forehand’s appointment as U.S. representative to the Executive Committee of the International Society for Autonomic Neuroscience and as a member of the USMLE Neuroscience/Neurology Task Force. Faculty continued to provide service to the community with talks at local schools, specialized presentations to EMTs and participation in the Smile Doc Program, Girls Discovery Day Program, MedQuest High School Program and the UVM/FAHC Community Medical School Series.

DEPARTMENT OF ANESTHESIOLOGY
HOWARD M. SCHAFFERO, M.D. ’80, CHAIR

Members of the Department of Anesthesiology continued to take active roles in education within the College of Medicine during the 2003-2004 year. Anesthesiology faculty serve as lecturers within the basic sciences (Drs. Paganelli, Adams and Rathmell), the clinical sciences (Drs. Paganelli, Adams, Elliott and Rathmell), and the Allied Health Sciences (Drs. Borrello, Tarver and Rathmell). Drs. Rathmell and Paganelli have taken an active role in the design of the Vermont Integrated Curriculum; Dr. Rathmell as co-director of the Neural Sciences course, and Dr. Paganelli as a member of the Fluids in Motion Course design team. Dr. Rathmell was awarded the College of Medicine’s Frymoyer Scholarship along with Todd Maugans, M.D., of Neurosurgery to develop electronic, interactive case-based learning modules for the VIC Neural Sciences course.

Joseph Fitzgerald, M.D., leads the medical student curriculum in anesthesiology, and we welcome UVM and visiting medical students for rotations within the department. Dr. Rathmell has served as mentor for numerous students during their undergraduate medical training; in every case, this collaboration has led to meaningful, peer-reviewed scientific publication for the participants.

Our training programs have been completely revised, including clinical experiences and didactic teaching. As a result, this year the residency program was awarded a five-year reaccreditation from the ACGME, the highest possible ranking. We have expanded the pain fellowship to three trainees per year, and the core residency program to six trainees each year. Dr. Rathmell serves as the president of the Association of Pain Program Directors, and chairs an ACGME task force to develop a national curriculum to train pain physicians.

David Adams, M.D., continues to serve as a member of the Committee on Human Subjects; David Johnson, M.D., and James Rathmell, M.D., serve on the College of Medicine Admissions Committee. Dr. Rathmell serves on a committee for selection of candidates for the newly established M.D.-Ph.D. program, and also serves on the nominating and research committees. Riley Elliott, M.D., serves on the Advancement Committee. Joseph Fitzgerald, M.D., serves on the Technologies Committee.

Research within the department continues to grow. In addition, we are actively assisting other departments in their research endeavors. The department has six funded research protocols and a full-time departmental research associate. A formal departmental research committee has been established under the leadership of Christopher Viscomi, M.D.

The department is excited about two new initiatives this year, the first of which is the purchase of a full body simulator. A committee headed by Christopher Greene, M.D., is assembling scenarios to be used with the simulator. We believe this is a powerful teaching tool for residents and medical students. The department also has purchased the software for an electronic anesthesia record. Together with the Fletcher Allen Information Services Department, this initiative will be led by David Adams, M.D. We anticipate the installation to take us well into the next fiscal year.

DEPARTMENT OF BIOCHEMISTRY
KENNETH G. MANN, PH.D., CHAIR

A longstanding effort to develop an undergraduate program in Biochemistry came to fruition in 2004. The program has all the earmarks of a successful undergraduate biochemistry program. UVM began to offer a bachelor’s degree in biochemistry three years ago as a joint effort between the colleges of Medicine, Arts and Sciences, and Agriculture and Life Sciences. The Department of Biochemistry
is a key contributor to this program, and teaches three new courses as part of the degree requirements. Since its inception three years ago, Introductory Biochemistry (205) has grown from an enrollment of 35 to 50 students in each subsequent year. A one-semester Biochemistry laboratory course was offered in 2003-2004. The laboratory course had nine students in its initial semester and the course is now filled at 16 students. There are now 35 undergraduate majors in biochemistry, 17 as first-year students.

The federally-funded Summer Undergraduate Research Experience (SURE) program run by the Department of Biochemistry has trained more than two dozen undergraduates in the past three years. This year the program, run by Christopher Franklyn, Ph.D., Margaret Daugherty, Ph.D., and Stephen Everse, Ph.D., selected 11 students from as nearby as Saint Michael's College to as far away as Oregon State University. These students train within ongoing research projects. A measure of the SURE program's impact can be evaluated by the three papers and five abstracts that bear SURE participants’ names. Another measure is the eight past participants who are now in graduate school—two at UVM.

The “Nutrition, Metabolism and the Gastrointestinal System Course” (NMGI) of the new Vermont Integrated curriculum was designed and implemented to provide first-year medical students with an integrative approach to understand how individuals assimilate and utilize/metabolize nutrients for energy production in healthy, stressed, and disease states with a focus on the pathogenesis and management of disorders of the GI tract and endocrine system. This course integrates cell metabolism, endocrinology, normal and pathologic anatomy, pharmacology, physiology, pathophysiology, as well as the physical examination and related interviewing skills, diagnostic testing and imaging provided the framework for mastery of the material. The course director, Paula Tracy, Ph.D., and the faculty were completely engaged in this course and its success with the students. Pathology laboratories accessed both slide images and preserved specimens, and contained imaging modules. The weekly small group discussions, which were focused around cases prepared by course faculty worked well, also. The disease-based teaching modules (diabetes, obesity, alcoholism, and injury metabolism) were very well received and integration of material throughout the course was viewed as a real strength of the course.

Dr. Paula Tracy was selected a UVM Scholar for 2003-04, was elected to the Vermont Academy of Science and Engineering and gave major lectures at the International Society on Thrombosis and Hemostasis (ISTH) meeting in Birmingham, England and at the FASEB Summer Conference. Scott Morrical, Ph.D., began a six-month sabbatical in January of this year and was promoted to Professor of Biochemistry. Kenneth Mann, Ph.D., received the Mayo Medical School Distinguished Alumnus Award, was a recipient of the Mammen Lectureship at the Detroit Antithrombotic Symposium and was a featured speaker at the ISTH, FASEB, and European Hematology Association meetings. Dr. Mann was also elected to the Board of Directors of the National Hemophilia Foundation for which he also serves as director of the research program.

A truly significant highlight of the department research for the year was the solution and publication of the crystal structure of Factor Vai by Dr. Everse and his students. Ty Adams, the graduate student who was principal author on this study, received the First Prize for his presentation at the American Crystallographic Society meeting. Beth Bouchard, Ph.D., received the Bayer Early Career Award, and Kathleen Brummel Ziedens, Ph.D., received the Hemophilia Foundation Career Award. Dr. Brummel was also senior author on a major chapter on coagulation in a new Wintrobe publication. This chapter of more than 97 pages and over 2,100 citations is in the most prestigious textbook of hematology.

DEPARTMENT OF FAMILY MEDICINE
JOHN FOGARTY, M.D., CHAIR

This year for the department can best be summarized with the word “transition,” and was marked by significant changes in all areas after changing the name of the department and health care service from Family Practice to Family Medicine. This change reflects a national movement for the specialty of family medicine and kept us consistent with all of the other academic family medicine departments in U.S. medical schools.

In our residency training program, we are excited about the successful creation of the Family Medicine Service at Fletcher Allen, allowing daily admissions/coverage for our patients, and establishment of an acting internship. The residency received good news this year with another successful five-year accreditation by the Residency Review Committee and a renewal of Residency Training Grant renewed for another three years (2003-2006). We recruited a new residency program director, John King, M.D., who joined us in December from a Virginia Commonwealth University affiliated program. Tom Peterson, M.D., is taking on a new role as an associate chair for operations/clinical affairs and after ten years of superb leadership of the residency program, was pleased to turn over the reins to Dr. King. We again had a highly successful resident match this March with outstanding candidates, including two from our own College of Medicine.

Department faculty members are involved at multiple levels in support of the Foundations and Clerkship portions of the Vermont Integrated Curriculum. The family medicine clerkship continues to receive high marks for the quality of experience for our students, and David Little, M.D., with support from Yumi Jarris, M.D., and Martha Seagrate, continues to innovate in teaching and evaluation. They recently received a three year (2004-2007) Pre-doctoral Training Grant in support of their work to enhance clinical training during the rotation. Dr. Little continues to expand his roles in the Area Health Education Centers program and will be giving up his role as Clerkship Director this next year, a position he has held since 1995.

The clinical service for Family Medicine continued to be very busy at our centers in Milton, Colchester, South Burlington, Berlin, and the Walk-in Care Center. These sites provided over 105,000 outpatient visits and each supports the College’s medical student and resident educational programs. We have had new physicians join each of our sites, adding to the transitions and strengthening our family of Family Medicine.

DEPARTMENT OF MEDICINE
BURTON E. SOBEIL, M.D., CHAIR

During the past year the Department of Medicine provided 74,088 specialty visits and care for 11,077 hospitalized patients (42,962 patient days).

Department faculty published 357 manuscripts, monographs, reviews, and chapters. Journals edited by departmental faculty include the Journal of Parenteral and Enteral Nutrition (Dr. Matthews); Coronary Artery Disease (Dr. Sobel); and Proceedings of the American Society of Clinical Oncology (Dr. Grunberg). In addition to ongoing multidisciplinary NIH supported programs such as BAR 2D and COBRE, several major grants were awarded including a National Research Service Award training grant (Dr. Irvin, P.I.), and individual grants on the genetics of susceptibility to demyelinating disease (Dr. Teuscher), plaque vulnerability in diabetes (Dr. Sobel), and mechanisms of prothrombosis in diabetes (Dr. Schneider).

In addition to its vigorous participation in medical student education activities, the department’s Graduate Medical Education responsibilities include training of 42 house officers: three chief residents,
two of whom are instructors in College of Medicine; 38 clinical subspecialty fellows, many of whom acquire additional experience in research laboratories; and a contingent of postdoctoral research fellows supported by research grants, training grants, and an NIH COBRE Grant, externally supported fellowships, program project grants, and research grants and contracts supported by NIH, the American Diabetes Association, the American Heart Association, professional and subspecialty societies, and industry. Residents presented numerous research projects locally and at national meetings.

The department comprises 487 faculty including 108 salaried faculty, 155 faculty at the Maine Medical Center, 157 volunteer faculty at the MCHV and Fanny Allen campuses as well as at the Trudeau Institute, and 67 additional attending physicians. The Department’s 14 units and 17 standing committees function under administrative leadership comprising a chair, Dr. Sobel; six associate chairs: Drs. Budd (Research Training), Gennari (Academic Affairs), Hopkins (Clinical Affairs), Irvin (Research Affairs), Levine (Medical Education and Housestaff Affairs), and LeWinter (Administration). It is served also by an administrative director (Dr. Mead), a coordinator of faculty affairs (Ms. Quackenbush), a financial specialist (Mr. Stanislas), a research program coordinator (Ms. Dales), a grants manager (Mr. Gagnon), a director of residency training (Dr. Levine), and a coordinator of ambulatory services (Dr. Cooper).

Some of the department’s pivotal activities in 2004 included the establishment of the Cardiovascular Center, involving faculty in our department and several other departments in the college, the addition of physician-scientists in the Infectious Diseases Unit (Dr. Huston), expansion of clinical electrophysiological research initiatives (Drs. Lustgarten and Spector), the expansion of cardiovascular imaging (NMR and multi-slice spiral computed tomography) – activities in collaboration with Radiology – and implementation of the elder care program under Dr. Pendlebury’s leadership.

DEPARTMENT OF MICROBIOLOGY & MOLECULAR GENETICS
SUSAN WALLACE, PH.D., CHAIR

The Department of Microbiology and Molecular Genetics has research foci in a number of areas including pathogenic microbiology/virology, the molecular mechanisms underpinning protein/nucleic acid interactions in cells and eukaryotic molecular genetics. An outstanding young Toxoplasma geneticist/molecular biologist, Mariana Matrajt, Ph.D., joined the department in January. Faculty in the Department are making excellent progress towards their research goals with recent extramural funding by the Human Frontier Science Program to Sylvie Doublé, Ph.D., NIH funding to Paula Fives-Taylor, Ph.D., and Markus Thali, Ph.D., and NFS funding to Thomas Fowler, Ph.D., and Douglas Johnson, Ph.D., the latter to fund a postdoctoral fellow from an underrepresented minority group. Overall, the research program at the Department is very strong, Dr. Wallace, who is Principal Investigator on a large infrastructure grant from the Department of Energy EPSCoR which started in July, contributes significantly to structural and computational biology here at the University. Dr. Wallace was also recently notified that a large five-year Program Project Grant has been awarded. Significant players in this Program Project also include Dr. Doublé and Jeffrey Bond, Ph.D., Scott Morrical, Ph.D., from the Department of Biochemistry and Mark Rould, Ph.D., from the Department of Molecular Physiology and Biophysics. Faculty in the department have had a number of high profile papers this year. Gregory Gilmartin, Ph.D., in Molecular Cell published a mechanism for the regulation of pre-mRNA 3’ processing, and Cedric Wesley, Ph.D., in Molecular and Cellular Biology published the results of regulation of notch signaling by a novel mechanism. Gary Ward, Ph.D., published his innovative small molecule approach to study invasion mechanisms of Toxoplasma gondii in the Proceedings, while Dr. Johnson published ground breaking work on the transition from the budded-to-hyphal-form of Candida albicans in Eukaryotic Cell. In a collaborative study, Drs. Doublé and Wallace published a novel crystal structure of a DNA polymerase in complex with DNA containing a site of base loss in the EMBO Journal. Finally, Dr. Thali had a very high profile paper in Nature Medicine on HIV’s great escape.

Several major accolades went to Department members this past year. Dr. Fives-Taylor was elected to the American Academy of Microbiology and Dr. Johnson received the UVM College of Agriculture and Life Sciences’ Joseph E. Carrigan Award for Excellence in Teaching and Undergraduate Education. Drs. Doublé and Burke serve on the Faculty of 1000. Dr. Doublé was appointed to the Editorial Board of Structure and Dr. Johnson to the Editorial Board of Eukaryotic Cell. Dr. Ward is on the Steering Committee for the New England Regional Center of Excellence for Biodefense and Emerging Infectious Disease Research, and is Chair of the Finance Committee and was elected Treasurer for the American Society for Cell Biology.

Faculty members from MMG have also been very active in the implementation of the new Vermont Integrated Curriculum. The Department also has a large and successful graduate program and teaches two undergraduate majors in the College of Agriculture and Life Sciences. Thomas Lewis, Ph.D., has been involved with UVM’s partnership with the Christopher Columbus High School in New York by mentoring ALANA students in his research laboratory.

DEPARTMENT OF MOLECULAR PHYSIOLOGY & BIOPHYSICS
DAVID WARSHAW, PH.D., ’79, CHAIR

The Department of Molecular Physiology & Biophysics continues to garner international recognition and success in the area of cardiovascular research. The department’s 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. The highly collaborative nature of the departmental research program stems from the faculty’s complementary expertise in protein biochemistry, molecular biophysics, molecular genetics, structural biology, and physiology. In addition to biophysical and biochemical studies of the mechanical performance of the heart and its molecular motors, there is a significant focus on the atomic structure of the heart’s molecular motor proteins, with expertise in x-ray crystallography and high resolution three-dimensional electron microscopy.
Our highly focused and collaborative group of investigators has been awarded two independent NIH Program Project Grants, funded to 2006, to study genetic heart failure with emphasis on the molecular basis of muscle force production. These multi-investigator grants serve as the foundation for an interdepartmental NIH Training grant that supports the stipends of four postdoctoral fellows and three graduate students. In addition, several independent investigator-based NIH grants were also awarded this past year in the area of molecular cardiovascular biology. The faculty have published over 20 articles in prestigious journals such as Nature Cell Biology, Proceedings of the National Academy of Science, the Journal of Cell Biology, and Circulation Research, as well as serving on Editorial Boards for several journals.

Faculty members have been honored as symposium organizers and invited speakers at three prestigious international scientific conferences. At the Biophysical Society meeting, Christopher Berger, Ph.D., presented at a symposium on “Structural Dynamics of Myosin,” while Kathleen Trybus, Ph.D., presented at a workshop for junior scientists on strategies for future funding at the NIH. David Warshaw, Ph.D., spoke at the fiftieth anniversary of the “Sliding Filament Model of Muscle Contraction” at University College in London. Teresa Ruiz, Ph.D., and Michael Radermacher, Ph.D., organized and presented in a symposium entitled “3D Electron Microscopy Of Macromolecules: Unveiling Structural/Functional Relationships Through Imaging Conformational Changes” at the Microscopical Society of America meeting.

In education, two of the faculty play key leadership roles in the development of the new medical school curriculum and graduate program in Biomedical Sciences. Joseph Patlak, Ph.D., serves as the head of “Cardiovascular, Renal, Respiratory” section of the Vermont Integrated Curriculum. Dr. Berger was appointed director of the new Umbrella Graduate Program and the Cell and Molecular Biology Graduate Program, with the mission to develop a college-wide graduate program that takes advantage of the research strengths of the faculty to attract high-quality graduate students. In addition, Drs. Radermacher and Ruiz held a “Practical Course on Three-dimensional Cryo Electron Microscopy of Single Particles” that attracted over 20 international scientists and was met with high recognition from the scientific community—so much that the NIH will contribute to the next offering of the course.

DEPARTMENT OF NEUROLOGY
ROBERT HAMILL, M.D., CHAIR

The Department of Neurology programs in education, research and clinical care continue to expand with substantial accomplishments in all domains.

In education, under the leadership of Timothy Fries, M.D., the first year of the full clerkship in neurology for medical students was completed successfully. Neurology also expanded its role in the preclinical years, assuming a major role in the new Vermont Integrated Curriculum Neuroscience Course. Felix Eckenstein, Ph.D., developed a “Basic Science of Neurological Disease” course for the COBRE Neuroscience program and these efforts have provided an opportunity for clinical disease to be understood at a more mechanistic level. Our residency and fellowship training programs remain competitive and we are particularly proud that two of our residents were selected by a vote of the entire medical student body to receive the Arnold P. Gold Foundation Humanism in Medicine Award. For two of our residents to be selected, and for two more to have been nominated, from a program that only has six residents, makes our department particularly proud of the quality and character of our residents.

In research, the Department’s basic and clinical programs continue to garner national and international recognition and compete very favorably for extramural funding. Margaret Vizzard, Ph.D., garnered two additional NIH R01 grants, has six papers published or in press in the top journals in her field and became a permanent member of an NIH study section, as well as being invited to join the NIDDK Data Safety and Monitoring Board. Helene Langevin, M.D., was selected to deliver the keynote lecture at the American Academy of Medical Acupuncture and was elected president of the Society for Acupuncture Research. She was program chair for the Society for Acupuncture Research Symposium at Harvard School of Graduate Education, and was selected to join the NCI Special Emphasis Review Panel on “Development Projects in Cancer Complementary and Alternative Medicine.” Dr. Langevin published four papers during this academic year and her remarkable observations, supported by NIH R01 grants, have led to the novel concept that fibroblasts form a body-wide cellular network and that studies of mechanotransduction may reveal new principles and understanding of the therapeutic principles of acupuncture. The research of Marilyn Cipolla, Ph.D.’97, on the cerebrovasculature has received national and international attention and her recent observations of the role of aquaporin expression in eclampsia and hypertensive encephalopathy are truly novel. These studies were accomplished by Dr. Cipolla and medical student Alison Quick, who was supported during her year out fellowship by the COBRE Neuroscience Grant.

Clinical research programs have focused on experimental neurotherapeutics and under the leadership of Hillev Panitch, M.D., the Clinical Trials Unit has expanded and now conducts 23 trials with extramural funding from the NIH and the biotechnology and pharmaceutical industry. Our future goal includes integrating basic and clinical research efforts to reach a new understanding of translational neuroscience.

Hrayr Attarian, M.D., was recruited to direct the sleep program for the Department of Neurology and was recently selected to lead and direct the Comprehensive Sleep Center for Fletcher Allen Health Care. The program has expanded and now brings the most advanced care to our region and the State of Vermont, and is the only program in the State that will qualify for accreditation by the American Academy of Sleep Medicine. Dr. Attarian has published five papers and a monograph since joining the faculty and has initiated clinical research studies in sleep. Drs. Panitch, Shapiro, Tandan and Hamill are nationally and internationally recognized in their respective fields and serve on national and/or international Medical and Scientific Advisory Boards, are all funded by extramural grants. Integrated programs in Clinical Neuroscience are evident in the Memory Center (Neurology and Psychiatry), and the Comprehensive Epilepsy Center, Functional Neuroscience and Deep Brain Stimulation Program, and the Stroke Center are the result of strong colleagues in Neurology, Neurosurgery and Neuroradiology collaborating to bring the highest and most advanced level of care to our community. These clinical programs (Neurology, Neurosurgery, Neuroradiology and Psychiatry) are working together to begin a process to integrate clinical neuro-
DEPARTMENT OF OBSTETRICS & GYNECOLOGY
MARK PHILLIPPE, M.D., CHAIR

During the past academic year the faculty in the Department of Obstetrics & Gynecology have continued to pursue our tripartite missions of medical education, research, and clinical care. At the present time, the department is composed of a solid complement of academic faculty in our major subspecialty areas including Gynecologic Oncology (two faculty), Maternal-Fetal Medicine (seven faculty), Reproductive Endocrinology and Infertility (six faculty), and Urogynecology (two faculty), along with Ob/Gyn Generalists (five faculty) and Ph.D. Investigators (three faculty). Kym Boyman, M.D., joined the faculty in Summer 2003 and Robert Hayward, M.D., joined the faculty in Spring 2004; both as part-time generalists and clinical educators.

This past academic year saw further implementation of the Vermont Integrated Curriculum (VIC) in the form of the combined Ob/Gyn-Surgery Bridge Clerkship for the third-year medical students. The Ob/Gyn Bridge component has undergone enhancements in clinical experience and didactic lectures under the guidance of Dr. Boyman. In addition, the Ob/Gyn faculty (including Drs. Bonney, Osol, and Cipolla) have lectured in several preclinical VIC courses. The faculty have also begun preparation for our participation in the Generations course which had its inaugural presentation in November 2004. Generations is the main course in the VIC in which reproductive biology and physiology are taught.

The residency program in Obstetrics & Gynecology at UVM/Fletcher Allen Health Care continues to be a highly competitive academic training program. This past year we received a total of 110 applications for our three PGY1 positions; we ultimately ranked 32 applicants and matched our three positions within our top six applicants. The subspecialty fellowship programs offered by our department also remain highly competitive. Natalie Burger, M.D., a recent graduate from our residency and medical graduate from the Medical College of Georgia, was recruited as the first-year fellow in reproductive endocrinology and infertility. Robert Fuller, M.D., Ph.D., a graduate from the Ob/Gyn residency at Mercer University and M.D./Ph.D. graduate from the University of Illinois, was recruited as the first-year fellow in Maternal-Fetal Medicine.

Ob/Gyn faculty with NIH funding during the past year included Drs. Bernstein, Bonney, Cipolla, Gokina, Osol, Phillippe, and Sites. In addition, multiple other members of the faculty received funding from pharmaceutical companies and various foundations to support their clinical and translational research. These faculty members include Drs. Capeless, Cherouny, Johnson, Viselli, Wong, and others.

Within the Reproductive Endocrinology and Infertility division, the In Vitro Fertilization (IVF) program continues to increase its scope and success. This past year the IVF pregnancy rate reached 42 percent, with no high order multiple gestations (triplets or more). The urogynecology program faculty (Drs. Viselli and Charland) have continued their busy clinical activity; this past year they have worked to develop plans for an institutional Continence Center with the urologists, colorectal surgeons, neurologists, etc. Drs. Maurer and Bonney, general gynecology faculty, have developed a special clinic to address vulvovaginitis and other disorders of the female perineum. In addition to building their busy gynecologic oncology practice and research at Fletcher Allen, Drs. Wong and Soultanakis have initiated several collaborative outreach programs with medical providers at Porter, Gifford, Central Vermont, Potsdam and Malone hospitals to improve the regional care for women with gynecologic cancers.

For obstetrics, this past academic year saw the opening of the new Birthing Center at Fletcher Allen. The Maternal-Fetal Medicine faculty have continued their busy practice in the care of high-risk pregnancies and the development of the Antenatal Diagnostic Ultrasound unit. MFM faculty have received research awards and honors including Drs. Bernstein, Meyer, Cherouny, Capeless and Phillippe. The Certified Nurse Midwifery program at FAHC remains an important component of the clinical care and teaching of the Department; this year the midwives initiated a Lactation Consultation Service.

DEPARTMENT OF ORTHOPAEDICS AND REHABILITATION
CLAUDE E. NICHOLS III, M.D., CHAIR

The Department of Orthopaedics and Rehabilitation is excited to assume its role in the Vermont Integrated Curriculum. As part of the Connections portion of the curriculum, the faculty, under the leadership of Suzanne E. Ames, M.D., has taken a cutting edge role in developing medical school musculoskeletal curricula around the country. Dr. Ames is a member of a program sponsored by the American Academy of Orthopaedic Surgeons to support the development of integrated musculoskeletal teaching programs in selected “magnet” U.S. medical schools.

Involvement at a national level is evident within the Department. David D. Aronsson, M.D., assumes the position of President-elect of the Pediatric Orthopaedic Society of North America. Bruce D. Beynnon, Ph.D., Director of Research, was the keynote speaker at the annual meeting of the American College of Sports Medicine in Indianapolis, Indiana. Robert J. Johnson, M.D. presented the Carl E. Badgley Lecture at the University of Michigan. Stephen J. Incavo, M.D. presented two papers on the topic of total knee arthroplasty at this year’s annual meeting of the American Academy of Orthopaedic Surgeons.

The department’s research focus continues to concentrate on spine biomechanics, as evidenced by Ian A.F. Stokes, Ph.D., who received an NIH R01 grant award to study the function of the intervertebral disc. Industrial funding opportunities are also being identified and granted to support resident research. Several research papers on the topics of articular cartilage and spine biomechanics were presented at this year’s Orthopaedic Research Society Meeting. Drs. Beynnon and Stokes remain quite active on NIH Study Groups.

The Department continues to concentrate on maintaining strong research and educational visions, in addition to the superb subspecialty clinical practices in order to continue to attract the highly competitive resident applicants.

DEPARTMENT OF PATHOLOGY
EDWIN G. BOVILL, M.D., CHAIR

The past fiscal year has been successful for the Department of Pathology. We continue to thrive in all three areas of our mission: education, research and patient care. We are proud of our faculty, who are some of the best qualified individuals in the nation.

Teaching honors the department and its members earned this year include: Basic Science Department of the Year; American Medical Women’s Association Gender Equity Award (Sharon Mount, M.D.); and Inspirational Cameo Teaching Award (Dr. Mount and Matt Kida, M.D.) Our faculty is strongly committed to teaching and continue to play an important role in the Vermont Integrated Curriculum.

The research foci of the Department continue to be environmental pathology and cardiovascular disease/thrombosis. New grant awards of note include one from the Leducq Foundation (Edwin Bovill, M.D., P.I.) “Leducq International Network Against Thrombosis”; National
Institute of Health; and an R01 awarded to Russ Tracy, Ph.D.: “Epidemiology of Vascular Inflammation and Arteriosclerosis.”

The research faculty made 61 extramural presentations, published 50 abstracts and authored 136 papers in journals including Circulation, New England Journal of Medicine, and Proceedings of the National Academy of Science. Our research faculty serve on 30 editorial boards and hold 15 grant review appointments.

Speaking engagements of note included: Brooke Mossman, Ph.D., “First International Conference in Environmental Medicine” Institut für umweltmedizinische Forschung in Dusseldorf, Germany, “Cell Signaling Pathways in Response to Particles and Fibers,” and Albert van der Vliet, Ph.D., Third International Conference on the Biology, Chemistry and Therapeutic Applications of Nitric Oxide, Nara, Japan, “Nitric oxide in airway inflammation – Regulation of cell signaling.”

In our clinical service, department faculty manage all the inpatient and outpatient laboratories for our teaching hospital and outpatient facilities, performing over two million tests a year including 28,000 surgical pathology cases. We have recruited three new faculty members. Ronald Bryant, M.D., as a hematopathologist and director of clinical pathology, Alex Kalof, M.D., as a surgical pathologist, and Mark Fung, M.D., Ph.D., as director of the Blood Bank and the HLA lab.

DEPARTMENT OF PEDIATRICS

LEWIS R. FIRST, M.D., CHAIR

The Department of Pediatrics achieved new milestones in academic year 2003-2004 that continue to demonstrate its ongoing growth and development in the areas of education, research, clinical care, and advocacy. Our department received recognition for being Department of the Year, having the Clinical Teacher of the Year, and Resident of the Year. Our faculty continued to take leadership roles in the creation and implementation of all components of the Vermont Integrated Curriculum. We have also taken on key roles as well in the development of national curricula for the Council of Medical Student Educators in Pediatrics (COMSEP) and the Association of Pediatric Program Directors (APPD).

Our faculty also currently sit in leadership positions on the National Board of Medical Examiners and the American Board of Pediatrics. Our residency program had another strong pool of strong students from all over the country and we are again delighted with the results of this year’s internship match process. We continue to lead educationally as well in national pediatric publications with faculty continuing to be the editors in chief of Pediatrics and AAP Grand Rounds (two national publications of the American Academy of Pediatrics), and to be national teachers for CME courses both in-state and around the country.

Our research agenda continued to grow as well in the past year with, again, more than 20 presentations from our faculty, residents, and students at the Annual Pediatric Academic Society meetings. Barry Finnette, M.D., Ph.D., continues to publish actively on his work on somatic mutation frequencies in the peer review literature. The Vermont Oxford Neonatal Network (under the guidance of Jeffrey Horbar, M.D.) continues its work on medical errors in neonatal intensive care units as well as by expanding its horizons by engaging in quality improvement and health services research involving normal newborn nurseries, not just the high-risk ones. Our Vermont Child Health Improvement Program (VCHIP), led by Judy Shaw, earned the March of Dimes recognition award for its work. The Pediatric Research in Office Settings Program of the American Academy of Pediatrics (PROS), spearheaded by Mort Wasserman, M.D., was a finalist for best research program at the annual meetings. The Vermont Interdisciplinary Leadership for Health Performance Program directed by Steve Contompasis, M.D. also was renewed for an additional five years due to its successful work to date.

Our clinical activity grew during the past year with the arrival of new specialists such as P.J. Zimakas, M.D., to spearhead our Division of Endocrinology and J. P. Capolicchio, M.D., to collaborate with nephrologist Ann Guillot, M.D. in enhancing pediatric urologic and renal services. We look forward to expanding our pediatric subspecialty services in the upcoming year with the move of our Specialty Center to additional space on Smith 5 at the hospital prior to moving into the new Ambulatory Care Center in Fall 2005. The arrival of Christa Zehle, M.D., as our first hospitalist also helped enhance the continuity and, in turn, quality of the inpatient care services, which has been important given how busy our inpatient services have been in the past year.

Finally, from an advocacy standpoint, our students, residents, and faculty continue to participate actively in numerous community outreach programs advocating for families throughout the region. Given what we have accomplished to date, we certainly look forward to ongoing growth and development and more milestones being achieved and surpassed in the upcoming academic year.

DEPARTMENT OF PHARMACOLOGY

MARK T. NELSON, PH.D., CHAIR

The Department of Pharmacology continued to make substantial contributions to the academic mission of the College in 2004. Alan Howe, Ph.D., was recruited to join the department as a new assistant professor. He brings with him the prestigious Howard Temin Career Award from the National Cancer Institute and his research interest is to understand, at a molecular level, how cells integrate information from cell adhesion and soluble factors to regulate cell cycle progression and cell motility. Wolfgang Dostmann, Ph.D., and Karen Lounsbury, Ph.D., were promoted to associate professor with tenure. In the area of research, the Department published approximately 24 peer reviewed manuscripts, including articles in the prestigious Journal of Clinical Investigation, Journal of Biological Chemistry, as well as articles in the American Journal of Pathology, the American Journal of Physiology, Circulation Research, Molecular Pharmacology, the Journal of Physiology, Trends in Cardiovascular Medicine, and others. Faculty members were invited to speak at conferences in the U.S., Puerto Rico, Canada, France, Germany, Norway, and Scotland. Extramural research support increased substantially including three new NIH R01 grants, with support from the NIH, National Science Foundation, American Heart Association (AHA), Department of Defense, NCCR, GlaxoSmithKline, the Mary Kay Ash Charitable Foundation, the Vermont Genetics Network, Ortho-Procrit, and the Totman Medical Research Fund.

The Department continued its high quality teaching to a diverse student population. John McCormack, Ph.D., continues to be instru-
ment in the planning and implementation efforts for the College's new Vermont Integrated Curriculum (VIC). The faculty was engaged in teaching both in the VIC and the old curriculum, including the last presentation of the regular Medical and Clinical Pharmacology courses.

In the area of service, Joseph Brayden, Ph.D., serves on the AHA Cardiovascular Regulation Study Section. George Wellman, Ph.D., served both on the National AHA and NSF grant review committees. Mark Nelson, Ph.D., served on two NIH study sections, and was the organizer of the International FASEB Meeting on Smooth Muscle in July 2003. Dr. John McCormack serves on the DOD's Prostate Cancer Research Program Grant Review Committee and the NIH's National Center for Complimentary and Alternative Medicine Grant Review Committee, as well as several College of Medicine committees. Alan Howe, Ph.D., was selected as Co-Chair of the Vermont Cancer Annual Research Symposium.

DEPARTMENT OF PSYCHIATRY
ROBERT PIERATTINI, M.D., INTERIM CHAIR

The Department of Psychiatry is pleased to report on its contributions to the missions of the College of Medicine and our academic medical center. Department faculty have provided national and regional leadership in the past year. James Hudziak, M.D. was elected president of the American Psychopathological Association. He has also been named as one of six members to the national psychiatry Resident Review Committee of the ACGME, representing child psychiatry. Warren Bickel, Ph.D. moved to the University of Arkansas to head its new Substance Abuse Center as the Wilbur Mills Professor of Psychiatry. Susan Wehry, M.D. will take a leave of absence to serve the state of Vermont as the Deputy Commissioner of Mental Health. Scott Waterman, M.D. was named Associate Dean for Student Affairs at UVM. John Hughes, M.D. was appointed Chair of the Vermont Tobacco Evaluation and Review Board. Alan Budney Ph.D. was elected President (2006) of Division 28, Substance Abuse and Psychopharmacology, of the American Psychological Association. Richard Bernstein was the first recipient of the Bruce A. Gibbard Memorial Award, conferred by the Vermont Psychiatric Association in tribute to a faculty member who best exemplifies the values and teaching of our late colleague.

Research in the department has focused on substance abuse, childhood psychopathology, and cognition and aging.

New grants this year were awarded to study Delay Discounting in Drug Dependence; Training in Behavioral Pharmacology; Clinical Significance of Marijuana Withdrawal; Integrating multisource data on youth psychopathology; Early abstinence effect on later abstinence in smokers; Advancing ADHD diagnosis via standardized observation; telephone-based extended behavioral therapy for weight maintenance; Estrogen effects on older women; Transdermal nicotine treatment; telephone-based extended behavioral therapy for weight maintenance; smokers; Advancing ADHD diagnosis via standardized observation; youth psychopathology; Early abstinence effect on later abstinence in smokers; Significance of Marijuana Withdrawal; Integrating multisource data on childhood psychopathology, and cognition and aging.

The Psychiatry Residency Training Program received Continued Full Accreditation following a site visit in 2003. The 2003 residency recruitment culminated in the match of four excellent physicians. Resident scholarship this year included publications by Robert Althoff, M.D. (Genetic and Environmental Contributions to the Child Behavior Checklist Obsessive-Compulsive Scale) and Abhay Singh, M.D. (Effects of nicotine on cognitive performance and neuropsychiatric disorders). Judy Lewis, M.D. has been named the Director of the Medical Student Clerkship.

In the clinical arena, plans were submitted for state approval for a new psychiatry inpatient unit planned for the Shepardson building. The new inpatient unit will replace antiquated facilities and increase capacity. The Chittenden Center, Vermont's first methadone clinic, is fully operational now in partnership with Howard Center for Human Services. Isabelle Desjardins, M.D. was named the Director of Inpatient Psychiatry.

DEPARTMENT OF RADIOLOGY
NORMAN V. STURTEVANT, M.D., CHAIR

STEVEN P. BRAFF, M.D., INTERIM CHAIR (as of November 2004)

During the last year, we have again seen continued robust growth in both diagnostic imaging and interventional radiology. Although the shortage of radiologists across the country persists, and recruitment for academic departments remains especially difficult, we did add two faculty members during the last year. Lisa Miller, M.D., is a breast imager, and John Miller, M.D., joined the Body Imaging section. With sadness and a great sense of loss, I must report the death of Howard Mindell, M.D., a faculty member for more than 35 years. Dr. Mindell was a well-known uroradiologist who made contributions to the literature in uroradiology throughout his career. During the last year we have begun a single vendor agreement with Philips Medical Systems. This agreement includes aggressive pricing, and a research relationship. A significant part of that relationship has been field testing a 40 slice CT scanner. We are one of only four sites in the world to have one of these scanners, and are in active investigation into its use in coronary artery and other cardiac imaging, neuroimaging, chest, and body imaging. We recently performed our first few CT colonography examinations and will be developing that service in the next few months.

One year ago we were anticipating Certificate of Need approval for a three Tesla magnet. That MRI scanner is now in place, performing clinical examinations, and is available for research as well. Recruitment of a functional MRI Neuroradiologist, near completion, will enable us to enter that new arena of research and clinical activity. It is noteworthy that we are the only institution in the world to have both a Philips 40 slice CT scanner and 3T magnet.

Our Breast Imaging section continues to expand with a nearly completely digital department, using computer assisted diagnosis for screening examinations. The Breast Imagers have all recently completed mini fellowships at Sloan Kettering Memorial Cancer Center in preparation for an expanded Breast MRI Program.

DEPARTMENT OF SURGERY
STEVEN SHACKFORD, M.D., CHAIR

The Department of Surgery continued to flourish and grow during the academic year. Two surgeons were added to the faculty of the Division of Trauma. Clinical programs in vascular surgery, cardiothoracic surgery, surgical oncology and urology were expanded. The department continued to emphasize surgical outcomes and quality. The Surgical Activity Tracking System, used to monitor surgeon and resident performance, was automated during the past year to facilitate point-of-service data entry (i.e., in the Operating Room and in the Outpatient Clinic). The Department continued to participate in the American College of Surgeons National Trauma Data Bank and the Northern New England Cardiovascular Study Group. Participation in the Northern New England Vascular Study Group was initiated during the past 12 months. These national and regional databases allow the Department to benchmark its outcomes with national normative data. The outcomes of the Department of Surgery continue to be at or above the benchmarks established by systematic data analysis.
During the past year, members of the department participated in medical missions to Central America, Peru, Nepal, and Haiti. Members of the department were elected to office in a number of professional societies including the New England Society for Vascular Surgery, the American Venous Forum, the American Telemedicine Association, and the American Association for the Surgery of Trauma. Several members of the department were recognized for their teaching efforts by the graduating class of 2004 and the College of Medicine Chapter of Alpha Omega Alpha. Geoff Tabin, M.D., of the Division of Ophthalmology received numerous awards for his humanitarian efforts with the Himalayan Cataract Project to eradicate blindness in the high mountainous region of Asia.

**GENERAL CLINICAL RESEARCH CENTER**

**RICHARD A. GALBRAITH, M.D., PH.D., PROGRAM DIRECTOR**

The General Clinical Research Center at the University of Vermont, one of 82 such centers nationwide, has been continually funded by the National Institutes of Health for 40 years. The Center serves as a shared resource to provide an optimum 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 thus sits as a bridge between the increasingly subspecialized worlds of basic and clinical science.

The Center is currently host to 39 active protocols involving investigators from all departments in the College of Medicine and to investigators in the Colleges of Arts and Sciences, Agriculture and Life Sciences and the School of Allied Health Sciences. Investigators conducting these studies generate research funding to support studies which could not be conducted anywhere other than the GCRC. To support these studies, the GCRC itself receives annual funding from the NIH. These funds are used to underwrite inpatient and outpatient facilities, a team of skilled nursing staff, a full research kitchen and research dietitian, core laboratories in biochemistry, human physiology, imaging and mass spectrometry, informatics systems, and a biostatistician.

**OFFICE OF HEALTH PROMOTION RESEARCH**

**BRAD S. FLYNN, SC.D., DIRECTOR**

The Office of Health Promotion Research is a nationally recognized center dedicated to research on critical behaviors affecting population health.

The Vermont Breast Cancer Surveillance System led by Berta Geller, Ed.D., records all mammography performed in Vermont, and links these reports to records for individual women, and to pathology and cancer registry data. The VBCHSS is one of seven collaborating centers funded by the National Cancer Institute. This consortium has received international recognition for contributions to practice and utilization of screening mammography. Dr. Geller also leads new studies addressing colorectal cancer screening participation among low-income adults.

The OHPR group is conducting a multi-state test of interventions to reduce youth cigarette smoking. This study evaluates impact of theory-based messages delivered through television and radio. John Worden, Ph.D., is principal investigator and leader for assessment of youth audience targeting strategies; Brian Flynn, Sc.D., is leader for assessment of message impact on smoking prevalence; and Laura Solomon, Ph.D., is evaluating impact of smoking cessation messages. Similar projects currently address adolescent marijuana and alcohol use.

Development of effective cigarette smoking cessation programs for adults has been a priority area. Dr. Solomon collaborates on studies assessing impact of counseling and incentives on smoking cessation in pregnant women, and has made significant contributions to assessment of cessation services supplied through telephone counseling. Ted Marcy, M.D., is developing methods to assist primary care physicians to implement national cigarette cessation guidelines for their patients.

Craig Trumpo, Ph.D., is opening new research strategies for the group on risk perception and risk communication applied to topics as diverse as cancer clusters and participation in cancer screening. Dr. Flynn is developing new research studies on obesity prevention, focusing on preschool children.

Members of the group participate in scientific peer review committees and serve as advisors and leaders for public health programs in the areas of tobacco control, cancer prevention and control, and child health. Drs. Flynn and Marcy served on the state’s oversight board for tobacco control programs and Dr. Solomon served on the scientific advisory panel for this program. Active engagement with both peer review and public health practice contributes to the relevance of our work.

**VERMONT CANCER CENTER**

**DAVID YANDELL, SC.D., DIRECTOR**

Founded in 1974, the Vermont Cancer Center (VCC) at the University of Vermont continued its rich tradition of leadership in the fight against cancer through the year 2004. One of a prestigious group of comprehensive cancer centers designated by the National Cancer Institute (NCI), VCC unites over 100 distinguished clinicians and scientists from all departments of the College of Medicine and six other colleges and schools of the University. Together, VCC members develop and implement multidisciplinary approaches to cancer research, prevention, patient care, and community education in alliance with Fletcher Allen Health Care.

Supported for more than 25 years by the NCI, VCC receives additional support from the College of Medicine and the Lake Champlain Cancer Research Organization, a private foundation dedicated to supporting cancer research. VCC members receive considerable funding from individual investigator grants awarded by the NCI, National Institutes of Health, National Science Foundation, American Cancer Society, and other major funding sources. Research is focused in four major program areas: genome stability and expression, cell signaling and growth control, clinical research, and cancer prevention and control.

This year, discoveries in VCC laboratories were particularly noteworthy. As reported in *EMBO Journal*, Susan Wallace, Ph.D., and Sylvie Doublé, Ph.D., became the first scientists to crystallize a replicative DNA polymerase (the enzyme that copies DNA) in complex with DNA that has just incorporated a nucleotide opposite an abasic site. In other studies, Barry Finette, M.D., Ph.D., discovered that children who undergo chemotherapy and survive acute lymphocytic leukemia (ALL) experience a 200-fold increase in the frequency of genetic damage, putting them at greater risk for new cancers and other diseases. Dr. Finette’s findings were published in *Cancer Research*. The laboratory of Dr. Nicholas Heintz described a new paradigm for the activity of the oncogenic protein c-Fos in the control of cell division; the work was published in *Molecular and Cellular Biology*.

On the VCC educational front, Brian Flynn, Sc.D., Marc Greenblatt, M.D., David Krag, M.D., Ted Marcy, M.D., Sharon Mount, M.D., and Mark Plante, M.D., appeared on a cancer education television series. VCC presented two conferences for cancer experts this year: “Translational Cancer Research: From Basic Science to Patient Care” and “Highlights of the American Society of Clinical Oncology.” For the community, VCC presented “Embracing the Family Tree,” a retreat for people whose lives have been affected by hereditary cancers.
Many important papers, lectures and awards were presented and earned during 2004. The list below is a sampling which may be of interest.

**PUBLICATIONS**


**SPEAKING ENGAGEMENTS & AWARDS**

Kenneth G. Mann, Ph.D., received the Mayo Medical School distinguished Alumnus Award.

Martin LeWinter spoke at the International Academy of Cardiovascular Sciences, Belo Horizonte, Brazil, October 2003.

Polly Parsons, M.D., was the Thomas Neff Lecturer at the University of Colorado School of Medicine, January 2004.

Markus Thal, Ph.D., was an invited speaker at the Keystone Symposium on HIV Pathogenesis, April 2004.

Teresa Ruiz, Ph.D., and Michael Radermacher, Ph.D., organized and presented a symposium on 3D electron microscopy of macromolecules at the Microscopical Society of America Meeting.

Helene Langevin, M.D., presented the keynote lecture at the March 2004 meeting of the American Academy of Medical Acupuncture.

Robert J. Johnson, M.D. spoke on Rehabilitation Following ACL Reconstruction at the VIIIth International Olympic Committee Olympic World Congress on Sports Science, Athens, Greece, October 2003.

R.C. Wasserman, M.D., was Visiting Professor, Robert Wood Johnson Clinical Scholars Program, University of Washington, April 2004.

Mark Nelson, Ph.D., was Chair and Speaker, 8th FASEB Summer Research Conference on Smooth Muscle, Snowmass, Colorado, July 2003.

Brian Garra, M.D., spoke on Lesion Size in Vibrational Doppler Imaging at the 10th Congress of the World Federation of Ultrasound in Medicine and Biology, June 2003, Montreal, Canada.


Neil Hyman, M.D., delivered the Keynote Address, 2nd International Conference on Inflammatory Bowel Disease, Tokyo, Japan, July 2004.


Russell Tracy, Ph.D., presented at the Italy-United States Symposium on Biomarkers for the Metabolic Syndrome and Related Cardiovascular Diseases; Milan, Italy.

**GRANTS AWARDED**

James P. Rathmell, M.D. and Todd Maguns, M.D., received the Frymoyer Scholarship, University of Vermont College of Medicine.

A three-year Health Resources and Services Administration grant was awarded to the Clerkship Program for a pre-doctoral program in primary care under the direction of Karen Richardson-Nassif, Ph.D.

Charles Irvin, Ph.D. received a National Research Service Award Multidisciplinary Training Grant in Lung Immunobiology from the National Heart, Lung and Blood Institute (NHLBI).

Peter VanBuren, M.D., received a grant from NHLBI to study contractile dysfunction in ischemic heart disease.

Sylvie Doublé, Ph.D., received a Human Frontier Science Program Grant for an international collaboration for performing molecular, structural, and functional analysis of RNP-complexes controlling gene expression."

Susan Wallace, Ph.D., received a Department of Energy EPSCoR grant for an “Initiative in structural biology and computational biology/bioinformatics, Phase II.”

Mark Phillippe, M.D., is principal investigator for a five-year National Institute of Child Health and Human Development Research Grant to study thrombin-stimulated intracellular signaling pathway.

Edwin Bovill, M.D., is the principal investigator on a grant from the Leducq Foundation to form a “Leducq International Network Against Thrombosis.”

Russell Tracy, Ph.D. was awarded a grant from the NHLBI to study the “Epidemiology of Vascular Inflammation and Arteriosclerosis.”

R.C. Wasserman received a grant from the HRSA Maternal and Child Health Bureau for the development of a national practice-based network to improve children’s health care.

Paul Newhouse, M.D., received an NIH grant to study transdermal nicotine treatment of mild cognitive impairment.

Neil Hyman, M.D., received a grant to study quality in colorectal cancer from the American Society of Colon and Rectal Surgeons.

David Krag, M.D., reviewed a grant from the National Cancer Institute to study in-vivo selection of ligands for targeted therapy.

Berta Geller, Ed.D., is the principal investigator on a grant from the National Cancer Institute to study “Patient-activated colorectal cancer screening in primary care practice.”

Barry Finette, M.D., Ph.D., received a grant from the National Cancer Institute, to study “Genotoxicity and the Emergence of Genomic Instability in Humans.”

Theresa Ruiz, Ph.D., received a grant from the National Institute of General Medical Sciences to study “Eukaryotic phosphofructokinase: structure and function.”
IN GIFTS LARGE AND SMALL,
through cash or stock contributions and through estate provisions, donors to the College of Medicine contributed a total of more than $12 million during fiscal year 2004 (July 1, 2003 through June 30, 2004). Cash, stock, and gifts-in-kind totaled over $9,800,000. Contributors included hundreds of loyal M.D. and Ph.D. alumni of the school, dozens of individuals and groups seeking to memorialize and honor their friends and colleagues, and more than 200 faculty and staff who wished to show their deep commitment to the place where they teach and work.

One gauge of the vitality of philanthropic giving at the College is the success of this year’s Medical Annual Fund, which exceeded its goal of $1,700,000. Overall, more than 4000 people, nearly ten percent more than in Fiscal Year 2003, made charitable gifts to the fund. Class gifts given in conjunction with Reunion 2004 amounted to more than $900,000. In difficult economic times, this level of support is reassuring.

In October 2003, the Campaign for the University of Vermont was formally announced, with a goal of raising $250 million for the University—$60 million of which represents the individual goal of the College of Medicine. Response to the Campaign has been robust—so much so that Dean John Evans has revised the College’s goal upward to $80 million. The University announced in October 2004 that the Campaign had reached 65% of its goal.

On June 16, UVM President Daniel Mark Fogel and Rachel Kahn-Fogel, College of Medicine Dean John Evans, Vermont Cancer Center Director David Yandell, and other key leaders at UVM hosted a reception and dinner to thank the Lake Champlain Cancer Research Organization (LCCRO) for close to $10 million in support for VCC over their 26-year partnership. The event took place at Englesby House, on the UVM campus in Burlington.

Dean Evans applauded LCCRO’s long-time loyalty to VCC. He pointed out that no private organization has supported any activity of the College of Medicine for as long as the LCCRO has.

Founded by the late J. Walter Juckett, the LCCRO is a private philanthropy dedicated to funding cancer research of the highest scientific standards. The Hudson Falls, New York-based organization has had a close partnership with VCC since 1978, providing funding for state-of-the-art laboratory instrumentation, pilot and academic awards, research symposia and lectures, and other projects that have been critical to VCC’s success.

Today, the LCCRO is led by Floyd Rourke, (pictured above with Evans and University of Vermont President Daniel Mark Fogel), Nancy Juckett Brown (J. Walter’s daughter); William Bitner III; Joseph Campbell; Robert Sponzo, a Glens Falls Hospital oncologist; and Jerome Yates, national vice president of research for the American Cancer Society in Atlanta and former VCC planning director.
MEDICAL IRA ALLEN SOCIETY  UVM’s Ira Allen Society is a testament to the University’s founder, who pledged the funds needed to establish the institution. The following alumni, friends, parents, and faculty have made generous leadership contributions of $1,000 or more to the College of Medicine in this same spirit, and with a strong belief in the value of the medical educational experience for students and the community. We welcome them to the Medical Ira Allen Society, the cornerstone of our private individual support.

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* indicates deceased
When Bill Pendlebury grew interested in Alzheimer’s disease during a post-doc fellowship in neuropathology at the College of Medicine in 1983, the diagnosis was widely regarded as worse than a death sentence. “Dealing with Alzheimer’s disease today is totally different from twenty years ago,” he says. “It can be diagnosed earlier, drugs can treat it and more are on the way, and we know how to improve the patient’s environment. You can participate in planning your own future, and that future is bright.”

Dr. Pendlebury founded The Memory Center in 1990 to ensure that future. A multidisciplinary team consisting of a physician, a psychologist, a psychologist-technician or tester, and a social worker conducts a three-hour evaluation of first-time visitors to the center, recommends a course of action, and makes referrals to lawyers, financial advisers, and community-based groups. “Our goal is to maintain quality of life and independence,” Dr. Pendlebury says, “to keep people at home and families intact.” He doesn’t think of curing Alzheimer’s disease so much as he does of managing it for several years until an elderly patient is more likely to die of other causes.

Dr. Pendlebury estimates that 10,000 Vermonters suffer from Alzheimer’s or related disorders, and that roughly half of them live within reach of the Memory Center. With a roster of 400 to 500 active patients, the center sees only close to 10 percent of the potential clients within its outreach area.

Vermont has a high concentration of elderly because its residents tend to be healthier and more settled than many people elsewhere. Despite his youthfulness, Dr. Pendlebury may be a case in point. The Rhode Island native and Brown alumnus has not budged from the Burlington area since he enrolled in the College of Medicine and graduated in the Class of 1976.

By Dr. Pendlebury’s count, as many as fifty faculty members at the College of Medicine and the University of Vermont have a research interest in geriatrics or gerontology. The contribution they make to the quality of later life in Vermont is enormous and exemplified by Dr. Pendlebury’s dedication, in his own words, to “working with and for the community to improve the health of the community.”
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GIVING AT THE COLLEGE OF MEDICINE

The College of Medicine gratefully acknowledges the support of its faculty and staff.
Jacquelin and Jessica Panko exemplify the achievement and idealism of the exceptional medical students at the College of Medicine. It is for students like the Pankos, and graduate students in the basic sciences, that the College is seeking to raise funds for scholarships and other direct aid.

Working at a women’s clinic in Kenya while she was an undergraduate at Amherst convinced Jacquelin “Jackie” to become a doctor. After conducting neurological research at the University of Virginia and earning a master’s at Eastern Virginia Medical School, Jackie enrolled in the College of Medicine and graduated in 2003. Following graduation, she began a residency at Fletcher Allen Health Care.

In 2002, Jackie revisited Africa as one of three College of Medicine students who won all but one of the four Lambarene Schweitzer Fellowships awarded annually to fourth-year students in American medical schools. Tending patients in Gabon was “a wonderful learning opportunity,” Jackie says, “but emotionally it was very hard. People would come in not knowing they had AIDS and ask, ‘What do I do about this rash?’

Jacquelin’s older sister, Jessica, took a more roundabout route to a career in medicine. After a stomach disorder forced her to leave the Air Force Academy, she transferred to Harvard, where she majored in religion, and then worked for a decade in employee development. Jessica arrived at a point, she says, where “I wanted to have more impact on people’s lives.” Jackie’s experience at the College of Medicine “was so awesome it really carried a lot of weight.” And so it was that seventeen years after she took basic chemistry at the Air Force Academy, Jessica completed organic chemistry at the head of her first-year class. “I’ve been very hungry for an intellectual challenge,” she says. “I’ve come back to knowing what I want to do and why.”

Jessica expects to graduate, as her sister did, carrying educational debt. “I would not choose a specialty that would make it impossible ever to break even,” she acknowledges, but her sister speaks for both of them when she says, “It would be crazy to do this for the money, because it’s so much hard work.”
GIVING AT THE COLLEGE OF MEDICINE

MEMORIAL GIFTS  Gifts were received in memory of the following individuals.

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Herbert White, MD’54
Millicent Tuck White
Dr. Marie E. Wood

* indicates deceased
SUPPORTING RESEARCH

DAVID M. WARSHAW, PH.D.’79
PROFESSOR AND CHAIR, MOLECULAR PHYSIOLOGY AND BIOPHYSICS

One of the goals of the Campaign for the College of Medicine is, in the words of one of its faculty members, “to institutionalize our ability to conduct brilliant science in islands of excellence.” Working toward that goal, the College is seeking philanthropic support for programs that are making or have the potential to make great contributions to science, clinical care, and medical education.

One leading scientist, Professor and Chair of Molecular Physiology & Biophysics David Warshaw, Ph.D.’79 is studying myosin, the molecular motor that drives the 2.5 billion beats of the human heart in an average lifetime. Laser optical trapping enables Dr. Warshaw and his colleagues to measure the forces generated by a single molecule. “The laser trap is real-life version of Star Wars,” Dr. Warshaw says. “It can hold a single cell.” His laboratory has taken this technology a step further by developing a microscope that allows researchers to tag a myosin molecule with a fluorescent probe and track changes in the orientation of the probe as the myosin flexes. By pinpointing how mutant myosins malfunction in deadly diseases such as Familial Hypertrophic Cardiomyopathy, he explains, “we’re understanding how the heart fails at the level of the individual molecule.”

Dr. Warshaw applauds plans to expand research space at the College of Medicine. “You can have all the money in the world,” he says, “but if you don’t have space you have no place for people to work.” According to Dr. Warshaw, a young scientist generally needs only a small lab accommodating four or five people. As his or her research bears fruit, however, room must be found for more people and equipment. “The College of Medicine wants to be the best,” he says, “and we’re at capacity right now. The only way for us to get better is to make room for new people and fresh ideas.”

As an example of fresh ideas, he imagines the breakthroughs that an interdisciplinary life sciences group might make if a mathematician, an engineer, and a biologist were able to work side by side. Dr. Warshaw became interested in the intersection of engineering and biology while studying engineering at Rutgers, and it appealed to him all the more strongly as he earned his doctorate in physiology and biophysics in Burlington. “If you put us together,” Dr. Warshaw says, “I guarantee we could come up with some very promising science. If you can’t bump into someone on the way to the water cooler and have a scientific conversation, you’ll never know what you have missed. Such meetings are critical to the advancement of science.”
### GIVING AT THE COLLEGE OF MEDICINE

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<table>
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<th>Year</th>
<th>Donated</th>
<th>% Participation</th>
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- Marilyn Jo Coplita '97
- William Anthony DeBassio, PhD '71, MD '77
- Bonnie Lynn Dixon '98
- Suzanne Fachon-Kalweit '88
- Paula Fives-Taylor '73
- Patricia Jeanne Gregory '86
- Paul F. Hoar, PhD '70, MD '71, '70
- Carl Andrew Hubel '69
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- John S. Poczabut
- Michael W. Abajian, PhD '73, MD '77
- Robert L. Wood Jr.

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  - Nathaniel Gould

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- Geoffrey P. Wiedeman
- John Thomas Wright
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  - Total: $6,151
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- Robert Ellis Johnston (Mar)
- John Thompson Prior (Mar)
- Harry M. Rowe (Mar)
- Clark W. Stevens (Dec)

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- Francis Arnold Caccavo (Dec)
- Murray N. Levin (Mar)
- William A. Pratt (Dec)
- Elizabeth Donlon Proctor (Dec)
- Edward Joseph Sennett (Mar)
- James E. Simpson (Dec)
- George A. Tullin (Mar)
- Arthur D. Wolk (Dec)
  - Participation: 58%
  - Total: $16,150
  - Agents: Francis A. Caccavo
  - Carleton R. Haines
  - Harry M. Rowe

**1943**
- **MEDICAL IRA ALLEN SOCIETY $1,000+**
  - Albert D. Blenderman (Dec)
  - Carleton R. Haines (Dec)
  - Robert Ellis Johnston (Mar)
  - John Thompson Prior (Mar)
  - Harry M. Rowe (Mar)
  - Clark W. Stevens (Dec)

**CONTRIBUTORS $1,999**
- Arnold H. Becker (Dec)
- Francis Arnold Caccavo (Dec)
- Murray N. Levin (Mar)
- William A. Pratt (Dec)
- Elizabeth Donlon Proctor (Dec)
- Edward Joseph Sennett (Mar)
- James E. Simpson (Dec)
- George A. Tullin (Mar)
- Arthur D. Wolk (Dec)
  - Participation: 58%
  - Total: $16,150
  - Agents: Francis A. Caccavo
  - Carleton R. Haines
  - Harry M. Rowe

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  - Robert E. O'Brien
  - H. Gordon Page
  - John C. Robinson

**CONTRIBUTORS $1,999**
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  - Participation: 71%
  - Total: $7,150
  - Agents: Robert E. O'Brien
  - H. Gordon Page

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  - Frederick C. Barrett
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  - Total: $8,132
  - Agents: Frederick C. Barrett
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  - Total: $9,426
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  - Virginia H. Donaldson
  - James Edgar Downs

**CONTRIBUTORS $1,999**
- James P. Burke
- Frances Phillips Cokkin
- Edward W. Jenkins
- Mordi Glenn MacDonald
- William J. Sohn
  - Participation: 50%
  - Total: $6,100

**1952**
- **MEDICAL IRA ALLEN SOCIETY $1,000+**
  - Nathan Glover
  - Luke A. Howe
  - Arthur Jason Perelman
  - Jack Carlton White

**CONTRIBUTORS $1,999**
- Marvin Garrel
- Theodore H. Goldberg
- Cornelius O. Granai Jr.
- Martin E. Glenn
- Alvin S. Kunin
- John A. Warden
  - Participation: 48%
  - Total: $5,925
  - Agent: Brewer D. Martin

**1954**
- **MEDICAL IRA ALLEN SOCIETY $1,000+**
  - Philip Adler
  - Bertrand P. Bisson
  - Frederick E. Pratt

**CONTRIBUTORS $1,999**
- George H. Collins
- Robert I. Davies
- John R. Eddy

**1955**
- **MEDICAL IRA ALLEN SOCIETY $1,000+**
  - Philip Adler
  - Bertrand P. Bisson
  - Frederick E. Pratt

**CONTRIBUTORS $1,999**
- George H. Collins
- Robert I. Davies
- John R. Eddy

**1956**
- **MEDICAL IRA ALLEN SOCIETY $1,000+**
  - Philip Adler
  - Bertrand P. Bisson
  - Frederick E. Pratt

**CONTRIBUTORS $1,999**
- George H. Collins
- Robert I. Davies
- John R. Eddy

---

* indicates deceased
1955
MEDICAL IRA ALLEN SOCIETY $1,000+
Nicholas G. Alexiou
Richard H. Bailey
Samuel Barrera
Peter V. Bove
Stanley L. Burns
John Richard Fitzgerald
Theodore Joseph Goodman
Raymond Lewis Hackett
Edward Okun
Theodore L. Munsat
Donald E. Holdsworth
Ira H. Gessner
Participation. . . . . . . . . . . 53%
Total . . . . . . . . . . . . . . $9,514
Agent . . . . . . . . . . . . . . . John E. Mazuran

1957
MEDICAL IRA ALLEN SOCIETY $1,000+
William Edward Allard Jr.
James D. Cherry
Larry Coletti
Daniel G. Fischer
Barton J. Gershon
Leonard William Halling
Howard S. Irons
Denton E. MacCarty
Bruce R. Mackay
Mark R. Margiotta
Carl L. Perry
Edward J. Quinlan Jr.
Frank J. Schmeltz Jr.
Hollis N. Truax
Donald N. Zehl

CONTRIBUTORS $1-$999
Edward Okun
Theodore L. Munsat
Donald E. Holdsworth
Ira H. Gessner
Participation. . . . . . . . . . . 69%
Total . . . . . . . . . . . . . . $41,905
Agent . . . . . . . . . . . . . . . Jay E. Selcow

1960
MEDICAL IRA ALLEN SOCIETY $1,000+
Bruce A. Chaffee
William H. Doolittle
Joseph R. Jurkic
Edward A. Kujic
Richard M. Narkiewicz
Marvin A. Nierenberg
Lawrence C. Schne
George Adam Soufleris

CONTRIBUTORS $1-$999
Charles R. Brinkman III
Richard C. Dillihunt
Antonio I. German
Stephen G. Pappas
John W. Stetson
James Cedric Stevens *
Philip G. Whitney
Melvin H. Walk
Participation. . . . . . . . . . . 42%
Total . . . . . . . . . . . . . . $14,716
Agent . . . . . . . . . . . . . . . Ruth A. Seeler

1956
MEDICAL IRA ALLEN SOCIETY $1,000+
William S. Burnett
Ira H. Gessner
Herbert I. Goldberg
Donald E. Holdsworth
Theodore L. Munsat
Edward Okun

CONTRIBUTORS $1-$999
Elizabeth Clark Clewley
Edward D. Fram
William W. Frock Jr.
Fred Dewitt Holford Jr.
Hugh S. Levin
Don Richard Lipsitt
John S. Manuelian
Mark I. Pitman
Irwin W. Pollack
J. Loren Rosenberg
Saul M. Spino
J. Ward Stackpole
Valery Worth Yandow
Participation. . . . . . . . . . . 69%
Total . . . . . . . . . . . . . . $56,125
Agent . . . . . . . . . . . . . . . Ira H. Gessner

1958
MEDICAL IRA ALLEN SOCIETY $1,000+
Eugene M. Beaugre
Roger S. Colton
Peter Ames Goodhue
Daniel J. Hanson
Robert H. Perkins
H. James Wallace Jr.

CONTRIBUTORS $1-$999
Peter J. Bartelloni
Bernard R. Blasi
Edgar Jacob Caldwell III
Neil G. Diorio
Robert G. Dolan
Charles P. Gnaassi
Olin D. Samson
Peter B. Webber
Participation. . . . . . . . . . . 45%
Total . . . . . . . . . . . . . . $10,594
Agent . . . . . . . . . . . . . . . Larry Coletti

1961
MEDICAL IRA ALLEN SOCIETY $1,000+
Charles G. Brennan
Wilfrid L. Fortin
Thomas G. Howigian
Allen W. Mathies Jr.
John C. Hersch
Patrick M. Moriarty
Donald R. Morton
Marianne Vas

CONTRIBUTORS $1-$999
Robert C. Guiduli
Rudolph M. Keimowitz
John B. Laffave
Kenneth J. Levin
Alan A. Mackay
John M. McGinnis Jr.
Charles E. Meszaros Jr.
Richard D. Morrison
James Edward O'Brien
George S. Roserwitz
David A. Stephens
Andrew M. Stewart

1962
MEDICAL IRA ALLEN SOCIETY $1,000+
Donald R. Dooley
Donald Thomas Evans
Dean S. Louis
Ruth Andrea Seeler

CONTRIBUTORS $1-$999
Ralph David Akeroff
Roger D. Baker
Spencer W. Burney
Stuart Donald Cook
Daniel H. Day
S. Edwin Fineberg
Donald M. Ford
Allan H. Greenfield
Joshua C. Kaplan
Donald P. Miller
Robert G. Mondou
Daniel I. Palant
Sherwin H. Ritter
Leroy M. Slater
Participation. . . . . . . . . . . 55%
Total . . . . . . . . . . . . . . $8,350
Agent . . . . . . . . . . . . . . . Ruth A. Seeler

1963
MEDICAL IRA ALLEN SOCIETY $1,000+
John D. Capra
Ann Tompkins Durak
Gerald L. Evans
Thomas J. Halligan Jr.
John J. Murray
Henry S. Ngro
Paul C. Rutkowski
H. Alan Walker

CONTRIBUTORS $1-$999
M. Zazzini Bueno
Alan F. Crosby
Wolston W. Doane
Dorothy Indick Eisengart
John A. M. Hinsman Jr.
Sanford Levine
Frederick G. Liptor III
George A. Little
Jan H. Mashman
James S. McGinn
David E. Osgood
Andrew B. Packard
Gordon S. Perlmuter
Paul B. Stanilions
Joseph H. Vargas III
Richard Wulf
Participation. . . . . . . . . . . 58%
Total . . . . . . . . . . . . . . $16,396
Agent . . . . . . . . . . . . . . . Anthony P. Belmont

1964
MEDICAL IRA ALLEN SOCIETY $1,000+
Marlene Ann Albo-Benson
Merrill D. Benson
James F. Butler III
Patricia A. Fenn
Allan L. Gardner
David I. Hirsch
Robert I. Keimowitz

CONTRIBUTORS $1-$999
Mazzini Bueno
Alan F. Crosby
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Sanford Levine
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George A. Little
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James S. McGinn
David E. Osgood
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1965
MEDICAL IRA ALLEN SOCIETY $1,000+
William W. Frock Jr.
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Hugh S. Levin
Don Richard Lipsitt
John S. Manuelian
Mark I. Pitman
Irwin W. Pollack
J. Loren Rosenberg
Saul M. Spino
J. Ward Stackpole
Valery Worth Yandow
Participation. . . . . . . . . . . 53%
Total . . . . . . . . . . . . . . $9,514
Agent . . . . . . . . . . . . . . . Ira H. Gessner

45-Year Reunion
MEDICAL IRA ALLEN SOCIETY $1,000+
Americo B. Almeida
Virginia Lee Ault
Clifford M. Herman
Bernard Passman
Jay E. Selcow
Robert E. Starkey
Stanley L. Stein
Stephen William Weinstein

1966
MEDICAL IRA ALLEN SOCIETY $1,000+
Fredric I. Fagelman
Jean E. Long
Ellen Mansell
Leonard James Swinyer

1962
MEDICAL IRA ALLEN SOCIETY $1,000+
Donald R. Dooley
Donald Thomas Evans
Dean S. Louis
Ruth Andrea Seeler

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Roger D. Baker
Spencer W. Burney
Stuart Donald Cook
Daniel H. Day
S. Edwin Fineberg
Donald M. Ford
Allan H. Greenfield
Joshua C. Kaplan
Donald P. Miller
Robert G. Mondou
Daniel I. Palant
Sherwin H. Ritter
Leroy M. Slater
Participation. . . . . . . . . . . 55%
Total . . . . . . . . . . . . . . $8,350
Agent . . . . . . . . . . . . . . . Ruth A. Seeler

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Gerald L. Evans
Thomas J. Halligan Jr.
John J. Murray
Henry S. Ngro
Paul C. Rutkowski
H. Alan Walker

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Sanford Levine
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George A. Little
Jan H. Mashman
James S. McGinn
David E. Osgood
Andrew B. Packard
Gordon S. Perlmuter
Paul B. Stanilions
Joseph H. Vargas III
Richard Wulf
Participation. . . . . . . . . . . 58%
Total . . . . . . . . . . . . . . $16,396
Agent . . . . . . . . . . . . . . . Anthony P. Belmont

1964
MEDICAL IRA ALLEN SOCIETY $1,000+
Anthony P. Belmont
Taylor J. Cook
John Samuel Gould
Herbert F. Hein

1965
MEDICAL IRA ALLEN SOCIETY $1,000+
Marlene Ann Albo-Benson
Merrill D. Benson
James F. Butler III
Patricia A. Fenn
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James S. McGinn
David E. Osgood
Andrew B. Packard
Gordon S. Perlmuter
Paul B. Stanilions
Joseph H. Vargas III
Richard Wulf
Participation. . . . . . . . . . . 58%
Total . . . . . . . . . . . . . . $16,396
Agent . . . . . . . . . . . . . . . Anthony P. Belmont

1966
MEDICAL IRA ALLEN SOCIETY $1,000+
Fredric I. Fagelman
Jean E. Long
Ellen Mansell
Leonard James Swinyer

* indicates deceased
1969
35-Year Reunion
MEDICAL IRA ALLEN SOCIETY $1,000+
John F. Dick II
Bruce Reed MacPherson
Irving G. Peyer
Bruce J. Poitrast
Mildred Ann Reardon
Myer H. Rosenthal
M. Jonathan Mishcon
Society
Total . . . . . . . . . . . . . . $9,465
Participation. . . . . . . . . . . 48%

CONTRIBUTORS $1-$999
G. Millard Simmons
Peter R. Shrier
John Jerome Saia
Jeffrey J. Pomerance
Douglas A. Deaett
James Vincent Mogan
Society
Total . . . . . . . . . . . . . . $28,491
Participation. . . . . . . . . . . 46%

GIVING AT THE COLLEGE OF MEDICINE

1971
MEDICAL IRA ALLEN SOCIETY $1,000+
Paul F. Hoar
Wallace N. Hubbard
Lorraine A. Kretchman
Philip A. Levin
Wayne E. Pasanen
Jeffrey Warren Rubman
Richard D. Skileen
Howard D. Solomon

CONTRIBUTORS $1-$999
Alan D. Ayer
Charles M. Belisle
David John Coppe
Robert J. Englund
David W. Haskell
David R. Hootnick
Alan E. Irwin
Carol Collin Little
William J. MacDonald Jr.
Stephen T. O'Brien
David A. Peura
Participation. . . . . . . . . . . 51%
Total . . . . . . . . . . . . . . $14,413
Agent . . . . . . Wayne E. Pasanen

1972
MEDICAL IRA ALLEN SOCIETY $1,000+
Jeffrey Robert Alpert
Joseph Charles Benedict
F. Farrell Collins Jr.
Donald Scott Morrison
John J. Opendek Jr.
James F. Shaw

CONTRIBUTORS $1-$999
James H. Bress
Adrienne Buick Butler
John E. Butler
David M. Coddaire
Alan D. Covyne
Mark A. Donavan
Mark L. Dubay
John H. Elliott
Alan Brian Feltmarch
Robert J. Giuffre
Mark A. Giuffre
Thomas J. Myers
Leon Stechenberg
James Michael Stember
G. Thomas Trono Jr.
Lloyd Edward Witham
Charles James Wolcott
Participation. . . . . . . . . . . 46%
Total . . . . . . . . . . . . . . $29,230
Agents . . . . . . Philip L. Cohen
James F. Betts

1974
30-Year Reunion
MEDICAL IRA ALLEN SOCIETY $1,000+
Denise Duff Cassani
Douglas M. Eddy
Richard Louis Gamelli
Albert Joseph Hebert Jr.
James F. Howard Jr.
Thomas J. LaPlace Jr.
Thomas J. Myers
Cajsa Nordstrom Schumacher
Jeffrey Adrian Schumacher
Jay G. Stearns
Society
Total . . . . . . . . . . . . . . $35,455
Agent . . . . . . F. Farrell Collins

1973
MEDICAL IRA ALLEN SOCIETY $1,000+
Ralph Stephen Albertini
James M. Betts
Philip L. Cohen
Edward John Collins Jr.
Phillip Harland Deos
Merrill Hugh Epstein
David Nelson Little
John Frank Siraco

CONTRIBUTORS $1-$999
R. Jeffrey Bergquist
John W. Blute Jr.
Patrick Michael Catalano
Eugene Louis Curfetti
Stephen Alan Degray
Allen Edmund Fongemie
James Gerard Gallagher
David J. Goodenough
James Nelson Icken
William R. K. Johnson
Douglas Norman Klauke
Robert Francis LeGendre Jr.
John Gerald Long
Thomas Edward McCormick
Robert A. McCready
Robert Allen Penney Jr.
David Revel
Stephen Francis Rowe
Christopher Tompkins Selvage
Delight Ann Wing
Thomas Allen Wolk
Participation. . . . . . . . . . . 42%
Total . . . . . . . . . . . . . . $13,650
Agent . . . . . . . . . . . . . . . Society

1975
MEDICAL IRA ALLEN SOCIETY $1,000+
Ellen Andrews
Palmer Quintard Bessey Jr.
James Wilder Cummings
Stephen John Haines
Alan Howard Kantor
David Nelson Little
John Frank Siraco

CONTRIBUTORS $1-$999
Society
Total . . . . . . . . . . . . . . $23,413
Participation. . . . . . . . . . . 56%
Agents . . . . . . Douglas M. Eddy
Cajsa N. Schumacher

1976
MEDICAL IRA ALLEN SOCIETY $1,000+
Robert Wolcott Backus
Don P. Chan
Richard Mason McNeer III
M. Jonathan Mishcon
William G. Muller
William Ward Pendlebury

Participation. . . . . . . . . . . 43%
Total . . . . . . . . . . . . . . $35,455
Agent . . . . . . F. Farrell Collins

43
<table>
<thead>
<tr>
<th>Year</th>
<th>MEDICAL IRA ALLEN SOCIETY $1,000+</th>
<th>Participants</th>
</tr>
</thead>
<tbody>
<tr>
<td>1977</td>
<td>William Anthony DeBassio</td>
<td>48%</td>
</tr>
<tr>
<td>1978</td>
<td>Michael William Abajian</td>
<td>40%</td>
</tr>
<tr>
<td>1980</td>
<td>Steven Michael Davis</td>
<td>40%</td>
</tr>
<tr>
<td>1981</td>
<td>James Edward Campbell</td>
<td>54%</td>
</tr>
<tr>
<td>1982</td>
<td>Mary Ellen Belitt-Kersey</td>
<td>40%</td>
</tr>
<tr>
<td>1983</td>
<td>Ronald D. Blatt</td>
<td>36%</td>
</tr>
<tr>
<td>1984</td>
<td>Mark Richard Albertini</td>
<td>35%</td>
</tr>
</tbody>
</table>

* indicates deceased
1985

**MEDICAL IRA ALLEN SOCIETY $1,000+**

Suzanne Gay Frisch

Daniel R. Hovenstine

Seth Lawrence Krauss

Jonathan David Levine

Howard J. Silberstein

Michael J. G. Somers

David F. Sturdevant

James Kevin Wolcott

**CONTRIBUTORS $1-$999**

David R. Austin

John K. Baxter III

Kevin Thomas Carey

Anne Glover Chipperfield

Robert Nickerson Cooney

John Wight Durham

Stephen Scott Ehlich

Daniel Kenneth Fram

Eric Scott Frost

Cheryl Ann Gibson

Michael Alan Gordon

Rory Philip Houghtalen

Vito D. Imbasciani

Marc Immerman

Sheryl Peterson Keller

Thomas Edward Kingston Jr.

Linn Marie Larson

Scott Franklin London

Richard Dana Lovett

William M. Martin

Lucille Jean Poulin

Lynn Ann Rogers

Bruce S. Rothschild

Elizabeth Anne Seward

Brian C. Shiro

Curt M. Snyder

John William Solari

Jane A. Sullivan-Durand

Jacqueline A. Tetreault

Roger S. Virgile

Linda Louise Walker

Donald Neal Weinberg

Barbara Jane Word

Participation: 44%

Total: $15,712

Agent: Vito Imbasciani

1986

**MEDICAL IRA ALLEN SOCIETY $1,000+**

Kim Rinh Qoi

Robert Ralph Harding

F. Todd Tamburine

1987

**MEDICAL IRA ALLEN SOCIETY $1,000+**

David George Evelyn

James Michael Jaeger

James Louis Vayda

**CONTRIBUTORS $1-$999**

Theodore Olo Bruno

Erin Colleen Dawson-Chalat

Harry Danielon

Thomas Peter Dowhan

Elizabeth Howd Eldredge

Robert Mark Glassberg

Helene Goldman

Davidson Howes Hamer

Craig Allan Hawkins

James Robinson Howie V

Susan So-Hyoun Kim-Foley

William Emer Lubimguldhi

Judith Howard McBean

Thomas M. Montague

Marcia Ann Procopio

Linda Karen Rathbun

Denise Michelle Soucy

David Alban Stevenson

Christopher Edward Swide

Elizabeth A. Tonon

Erica Turner

Cynthia Letteri Walter

Barbara Ellen Weber

Alison Elizabeth Wondraska

Participation: 29%

Total: $8,665

1989

**15-Year Reunion MEDICAL IRA ALLEN SOCIETY $1,000+**

Catherine Josephine Cantwell

Mary Cushman

Suzanne Farrow Graves

Jane Evelyn Hitti

Dean George Mastras

Cemuelus John McGinn

Peter M. Nalin

Keith Michael Shute

**CONTRIBUTORS $1-$999**

Judith Ford Baumhauser

Victoria Roaf Cavalli

Robert Edward Chicoine

Lisa Michele Cohen

Craig Lanier Donnelly

Raj Keith Gulati

Richard Bernard Hessler

Jeffrey Christopher Hong

Eric Paul Kohler

Judith Lynne Lewis

Laurie May Marston

Lorraine Letoumoune McElwain

Martha Jane Moulton

Sarah Ann Ormsby

Adam Bennett Pass

David Cammack Picard

Elke Pinn

Nathan Todd Rudman

Sheila Ellen Ryan

Peter Jon Tesler

Participation: 32%

Total: $15,646

Agent: Peter M. Nalin

1990

**MEDICAL IRA ALLEN SOCIETY $1,000+**

Elizabeth Conklin

Marco Paolo Dirks

Jacquelyn Ann Hedlund

John William Homer

**CONTRIBUTORS $1-$999**

Christopher Jon Bigelow

Anne Stevens Bingham

Stephen Henry Buzzell

Paula Jo Carbone

Giulio Isidoro Cavalli

Nancy Elizabeth Comish

Paul Edward DeMeo

Paul Andrew DiSilvestro

Karen Anne Dittrich

Christopher A. Dowling

Gregory Charles Fanaras

Daniel R. Goldby

Kimberly O’Sullivan Hall

Debra J. Shuma-Hartswick

Participation: 28%

Total: $7,650

Agent: Barbara A. Dill

1991

**MEDICAL IRA ALLEN SOCIETY $1,000+**

John Dewey

Margaret Bunce Garahan

Dale LaCroix

**CONTRIBUTORS $1-$999**

Scott Adelman

Maria C. Aveni

Peter Joseph Bellafiore

Peggy A. Carey

Mark Charles Cascione

Catherine Welch Dinauer

Charles Gordon Goldberg

Robert Edward Goldsby

Kimberly O'Sullivan Hall

Miss Jacob Linder

Stephen B. Mason

Theodora Jeanne Nelson

Peter Takeo Shimura

David Harris Peel

Theodore Mark E. Pasanen

Lisa Ruane Thomas

Sara Oakes Vargas

Alan David Verrill

Mara Vijay Vipus

R. Bradford Watson

Susan Cyrus Winter

1993

**CONTRIBUTORS $1-$999**

Barbara Kyoko Ariuie

Russell Stuart O. Bradley

David John Coppola

David Joseph Ewell

Jean Elizabeth Howe

Scott Christopher Jaynes

Doris Mwon Kim

Stephen F. Keioeb

Mark Zak Lamoue

John Joseph McGrath III

Zaki Nashef

Christine D. Northrup

Jeanie Kathie Ritchie

Steven Lawrence Shapiro

Stephen David Surgenor

Lisa Ruane Thomas

Sara Oakes Vargas

Alam David Verrill

Mara Vija Vipus

R. Bradford Watson

Susan Cyrus Winter

1994

**10-Year Reunion YOUNG ALUM PATRONS $250-$999**

Amy Martha Backer

Deborah Bowers

James Agnew Evans

Anne E. McSailey

Alison D. Moore

Maureen Glennon Phipps

Seth Alan Ral

Holliday Kaye Rayfield

Kathleen Ann Reed

Eric Stephen Stam

1995

**CONTRIBUTORS $1-$999**

John Joseph Albertini

Marianne Margaret Beterton

Timothy D. Bicknell

Charles Adam Bottleneck

L. Lucy Boulanger

Andrew Scott Ellowitz

Mary Elizabeth Farwell

Joseph Robert Fitzgerald

Bryan Matthew Huber

John Nicholas Julian

Heidi M. Larson

Susan Meltzor Long

Katherine Ray Maguire

Martin Devore McCarter

Kenedy Kathyn McCullin

David Gary Nelson

Stephen O'Donnell

Mark Elliot Pasanen

Jennifer Pedolnich Rowley

Patrick Joseph Rowley

Jeffrey Paul Thurlow

Jennifer Lee Woodward

Participation: 25%

Total: $3,675

Agent: Mark E. Pasanen

**CONTRIBUTORS $1-$999**

Holliday Kaye Ariuie

Russell Stuart O. Bradley

David John Coppola

David Joseph Ewell

Jean Elizabeth Howe

Scott Christopher Jaynes

Doris Mwon Kim

Stephen F. Keioeb

Mark Zak Lamoue

John Joseph McGrath III

Zaki Nashef

Christine D. Northrup

Jeanie Kathie Ritchie

Steven Lawrence Shapiro

Stephen David Surgenor

Lisa Ruane Thomas

Sara Oakes Vargas

Alan David Verrill

Mara Vija Vipus

R. Bradford Watson

Susan Cyrus Winter

1996

**CONTRIBUTORS $1-$999**

Holliday Kaye Ariuie

Russell Stuart O. Bradley

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Steven Lawrence Shapiro

Stephen David Surgenor

Lisa Ruane Thomas

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Alan David Verrill

Mara Vija Vipus

R. Bradford Watson

Susan Cyrus Winter

1997

**CONTRIBUTORS $1-$999**

Holliday Kaye Ariuie

Russell Stuart O. Bradley

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Jeanie Kathie Ritchie

Steven Lawrence Shapiro

Stephen David Surgenor

Lisa Ruane Thomas

Sara Oakes Vargas

Alan David Verrill

Mara Vija Vipus

R. Bradford Watson

Susan Cyrus Winter

1998

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John Joseph McGrath III

Zaki Nashef

Christine D. Northrup

Jeanie Kathie Ritchie

Steven Lawrence Shapiro

Stephen David Surgenor

Lisa Ruane Thomas

Sara Oakes Vargas

Alan David Verrill

Mara Vija Vipus

R. Bradford Watson

Susan Cyrus Winter

1999

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Steven Lawrence Shapiro

Stephen David Surgenor

Lisa Ruane Thomas

Sara Oakes Vargas

Alan David Verrill

Mara Vija Vipus

R. Bradford Watson

Susan Cyrus Winter
The following funds support medical students at the University of Vermont College of Medicine during the 2003-2004 academic year. The College and its students are grateful for the generosity of these donors.

Benjamin Adams MD 1909 Loan Fund
Ellice M. Alger MD’93 Memorial Scholarship Fund
George P. Baron, MD’69 and Mary Ferraro Baron Medical Scholarship Fund in memory of Mrs. Helen Ferraro*
Peary B. Berger MD’36 Medical Scholarship Fund
John L. Berry MD’29 and Kathleen V. Berry Fund
Albert Blenderman, MD’43 Medical Endowed Scholarship Fund in memory of Margaret Morse Blenderman*

Bowdoin College Medical Scholarship Funds
Charles R. Boys, MD’53 Medical Scholarship*
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The Harland M. Deos, MD’43 Memorial Medical Scholarship*
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John W. and John Seeley Estabrook MD’33 Fund
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Edith and Charles B. Howard, MD’69 Medical Scholarship Fund (I)*
Edith and Charles B. Howard, MD’69 Medical Scholarship Fund (II)*
The Harry E. Howe, MD’52 and Theo. O. 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 Student Grant Fund
Edith Kidder Scholarship
Martin Koplewitz MD’52 Scholarship Award
Leonard Kreisler, MD’57 & Joan Dorfman Kreisler ’56 Medical Scholarship*
Kenneth and Bessie Ladeau Trust
Austin W. Lane MD’21 and Janet C. Lane Scholarship Fund
Robert Larner MD’42 Loan Fund
Aldo J. Leani MD’34 Scholarship Fund
William H. Luginbuhl MD Scholarship Fund
John VanSicklen Maek MD’39 Scholarship Fund
The Ellsworth Amidon Award for outstanding proficiency in Internal Medicine
Amy S. Branning
Carolyn E. Come

The David M. Babbott, M.D. “Caring and Seeing” Award for demonstrating empathy and compassion
Susan S. Campbell

The Dean William Eustis Brown Award for broad cultural interests, and loyalty to the College of Medicine*
Nicole P. Piscatelli

The Hiram Buttles Award for excellence in Pathology
Carolyn E. Come

The Carbee Award for excellence in Obstetrics/Gynecology
Mary A. Berger

The James E. Demeules Surgical Research Prize
First place: Julie L. Bykowski
Second place: Amir H. Ajar
Third place: Steven D. Lefebvre and Kerry A. Sibert

The Edward E. Friedman Award for promise of excellence in the practice of Family Medicine
Rachel B. DiSanto

The Howe Senior Student Award for excellence in Surgery
Brandon D. Lawrence

The Kerzner Family Prize for service to the community
Emily A. Vail

The Lamb Fellowship Award for best exemplifying concern and care for the total patient*
Julie E. Wilbur

The Jerold Lucey Award for contribution to Pediatric research
Allison J. Grenier

The Herbert Martin Sr. Award for excellence in Neurology
Susan S. Campbell

The American Academy of Neurology Medical Student Prize for excellence in Neurology
Darren C. Volpe

The John E. Mazuzan Jr., M.D. Award for proficiency in Anesthesiology
E. David Bravos

The H. Gordon Page Award for excellence in Surgery
Amir H. Ajar

The New England Pediatric Society Prize for best exemplifying those qualities one looks for in a Pediatrician
Jeremy S. Hertzig

The B. Albert Ring, M.D. Memorial Grant Award for best exemplifying compassion, humor, humility, devotion to family and friends, and intellectual curiosity
Steven D. Lefebvre

The Radiology Achievement Award for excellence in Radiology
Dishant G. Shah

The Charles T. Schechtman, M.D., ’26 Award for Clinical Excellence
Carolyn E. Come
LaVene E. Simmons

The Durwood Smith Award for excellence in Pharmacology
Julie K. Phillips

The Society for Academic Emergency Medicine Award for excellence in Emergency Medicine
Colin F. Coor

The Ralph D. Sussman/Medical Alumni Award for excellence in Pediatrics
Douglas T. Leonard

The William Sweetser Award for excellence in Psychiatry
Julie E. Wilbur

The David M. Tormey Award for perseverance in the pursuit of medical education
Heather M. Lanphere

The Henry & Phyllis Wasserman Phorplus Scholarship Prize for excellence in the Basic Sciences
First place: Darren C. Volpe
Second place: Joanna G. Bolton, David C. Scalzo, and Dishant G. Shah

The Laura Weed, M.D. Award for qualities of excellence, service, and commitment in Internal Medicine
Susan S. Campbell

The Ephraim Woll Award for the highest average in the Pathology 301 course
Joanna G. Bolton

Note: The Brown and Lamb awards, marked with an asterisk (*) are awarded by vote of the class.
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