The Renewed Medical Campus
This report details the activities of, and donations to, the UVM College of Medicine during fiscal year 2005 (July 1, 2004–June 30, 2005).
“WHAT A THRILL TO SEE THE CORE MISSION OF OUR MEDICAL SCHOOL SET IN FOOT-HIGH LETTERS ON THIS BEAUTIFUL NEW STONE FAÇADE.”

Nearly ten years ago, the College of Medicine and Fletcher Allen set out on a path to revitalize our academic health center campus. This fall, we saw that dream come to fruition with the dedication of the beautiful new Medical Education Center and Ambulatory Care Center.

As Vermont’s medical school, we have a responsibility to our community, to our state, and even to the world, to fulfill our missions of education, research, patient care and community service. We share these missions in alliance with Fletcher Allen, and this beautiful new space is a tribute to our partnership.

However, no matter how beautiful and functional the buildings may be, it is the work that goes on behind the walls – the education of the next generation of physicians and scientists, the research into new cures, the rendering of first-rate care, and the continual involvement in our community, that matters most.

Students and faculty now have classroom facilities that are ideally suited for our new curriculum. Patient care for the people of Vermont will be improved with the addition of Fletcher Allen’s Ambulatory Care Center, as will the clinical education of our students. And the new Dana Medical Library stands as a resource for both the College and surrounding community.

Within these walls we will educate physicians and scientists who are prepared to take on the challenges that exist beyond the medical center campus, ready to be passionate advocates not only for their patients but for their communities. Here we will nurture researchers who will turn dreams into discoveries, discoveries into therapies, and therapies into standards of care. Here we will provide exceptional care for all our patients and their families. And here we will serve and collaborate with our community on programs and projects that improve the health of all of our citizens.

We are blessed to have so many people who have helped us arrive at this exciting crossroads. Our thanks go to all of you who believe in the power of education and the promise of research, who are passionate about delivering world class care to every member of the community, and who generously support our missions in so many ways.

It has been a year of notable accomplishment for the College, including the full eight-year accreditation from the Liaison Committee on Medical Education (LCME), the national accrediting organization for medical schools. This report showcases some of those accomplishments, highlighting just a small sampling of the work of our faculty, our staff, and our students who continually seek to make a difference in the world around them.

Sincerely,

John N. Evans, Ph.D.
Dean
370,000 cubic yards of dirt were excavated to construct the Fletcher Allen Ambulatory Care Center, the UVM Medical Education Center, and the project’s underground parking facility. 3,600 tons of steel were erected. 27.5 miles of plumbing were installed, as were 30.5 miles of ductwork. 1,034 miles of electrical wiring are contained in the new buildings.
The Renewed Medical Campus

For the first time in nearly 40 years, the College of Medicine campus has undergone a major renewal. As fiscal year 2005 came to a close, workers were putting the finishing touches on a multi-million dollar project—ten years in planning and execution—to dramatically improve classroom and library space at the College, and expand and upgrade outpatient facilities at Fletcher Allen Health Care.

In the new Medical Education Center, medical students have the kinds of flexible classroom spaces that enable the new Vermont Integrated Curriculum to be experienced in the best possible way. When they gather as a large group, they now can do so in the 120-seat Case Method Classroom. Small-group learning, an important component of the new curriculum, takes place in 15 new classrooms outfitted with large flat-screen displays and the latest videoconferencing technology, and all bearing the names of supporters of the College from among the alumni, the faculty, and the community. Medium-size groups can use the 38-seat Mildred A. Reardon, M.D. ’67 Classroom.

A new medical library offers easier access to information for students, faculty, and members of the public. The bright, curving concourse outside the library connects the College of Medicine with Fletcher Allen Health Care’s new Ambulatory Care Center, creating an even more efficient, tightly-knit academic health center for 21st Century Vermont.
New meets old in the Medical Education Center, built onto the north face of the Given Building. Students, faculty, staff and friends began using the center this summer. At right, Carmen and Gino Dente, M.D.’41 walk across the outdoor plaza. At far right, the ribbon is cut on the new center and the Fletcher Allen Health Care Ambulatory Care Center by (starting second from right) Dean John Evans, Governor Jim Douglas, Fletcher Allen CEO Melinda Estes, M.D., UVM President Daniel Mark Fogel, Fletcher Allen board president William Shubart, and Burlington Mayor Peter Clavelle.
Three Centuries of Medical Campuses

In 1829, just seven years after the College of Medicine was founded, the school moved into its first official home just south of the UVM green. Later named Pomeroy Hall after John Pomeroy, a Burlington physician who first began teaching medical students in his home in 1804, the building was enlarged in the late 1850’s—a third storey was added, and the medical amphitheatre was expanded to accommodate the larger student bodies of the newly-reorganized school. Pictured in the stereoview above are student body members perched all about the school in the late 1870s.

By that time, the size limitations of Pomeroy were a real problem for the growing school. After several years of considering new building plans, the solution was presented by a local philanthropist, John Purple Howard, who offered to buy the mansion on the north side of the UVM green and convert it into a medical building. Howard added a mansard roof and a cupola, as well as improved teaching facilities inside, and the building was dedicated in 1884.

Less than twenty years later, on a cold December morning in 1903, a carelessly discarded cigar stub started a fire that, by the middle of the afternoon, had left only the outside walls of the structure standing. The College temporarily took residence in UVM’s Old Mill building, and by June of 1905 an alumni effort helped raise enough money to build a new building that reflected the huge strides medical education and medical science had taken in the previous quarter-century. This “new” College of Medicine home served students, faculty, and staff for the next six decades.

In the late 1950’s the College began a three-stepped project to expand and move its medical campus. The Medical Alumni Building was constructed in 1958-9 east of UVM’s Converse Hall. The Medical Science Building—the structure that is now the northern segment of the Given Building—followed in 1962. In 1968 the remaining three sides of the Given “square” were completed and the building, shown in an architectural rendering at left, was dedicated and named in honor of the $2 million gift of the Irene and John Given Foundation.
STANDARDIZED PATIENTS TEACH HANDS-ON SKILLS

When Cate Nicholas, M.S., P.A., says “I like to see the lights go on for the students,” she’s not talking about flipping a switch on the wall. Instead, Nicholas is referring to the intellectual enlightenment provided to medical students by a group of part-time teachers she leads as director of the Standardized Patient Program. Nicholas founded the program at UVM, one of the first in the nation and now directs 50 highly trained people who expertly portray illnesses in order to teach medical students the examination and communication skills that can’t be learned from a textbook. Using standardized patients better prepares students for real-world patient encounters, and for the national board exams that all students must pass in order to be licensed to practice medicine. Innovative teaching is a hallmark of the Vermont Integrated Curriculum, which reached a milestone this year as the Class of 2007 completed Foundations, a highly-structured 18-month period that features integrated basic science and clinical studies that allow students to develop a fundamental understanding of health and illness.
OF ALL THE MISSIONS OF the College, the one most central to its core is the education of new physicians and biomedical scientists. Each year, over 100 new M.D.’s and Ph.D.’s receive their degrees from the College, and those who graduated in 2005 were part of a particularly exciting and innovative year. The Vermont Integrated Curriculum (VIC) completed its second year of implementation, and the finishing touches were applied to the new Medical Education Center, which will provide our students with a 21st Century space in which to learn 21st Century medicine. In the midst of this busy year, the Liaison Committee on Medical Education (LCME) completed a detailed examination of the College, and gave a full eight-year accreditation in a final report that cited the strength of the curriculum, the commitment of the faculty, the innovative COMET educational tools system, and the overall excellent academic standards of the College.
EDUCATION AT THE COLLEGE OF MEDICINE

NATIONAL RECOGNITION FOR MEETING PRIMARY CARE NEEDS
In a year when the Vermont legislature’s health allocation plan highlighted the state’s pressing need for primary care providers, the College of Medicine received prominent notice for its efforts to meet this need. The College ranked ninth for quality in primary care training among the country’s 125 medical schools according to the U.S. News & World Report graduate school rankings which were released in April. In the Class of 2005, nearly 60 percent accepted residencies in primary care, including 16 in Vermont. The College is committed to serving the needs of Vermonters, educating nearly 40% of the physicians in Vermont, like pediatrician Laura Bellstrom, M.D.’89 (above).

INSPIRING NEW SCIENTISTS
Every year, approximately 20 new graduate students begin their education at the College. Helping to educate the next generation of biomedical scientists is among the most important accomplishments of the faculty, who develop a close mentorship with each student. Each graduate student charts a unique path, which includes identifying an area of interest and a faculty mentor, followed by collaboration on research work. For Beth Bouchard, Ph.D.’01, that meant working closely with mentor Paula Tracy, Ph.D., Professor and Interim Chair of the Department of Biochemistry (right, with Bouchard). After receiving her degree from UVM, followed by post-doctoral fellowships at Tufts and Harvard, Bouchard returned to the College as a faculty member in 2004, with a focus on exploring the role of blood clotting in disease processes. “Mentoring students is what continues to inspire and motivate me,” explains Tracy. “I look forward to seeing Beth continue that legacy by mentoring her own students.”

SUPPORTING THE MISSION: EVA SARGENT, M.D.’35 AND RUTH SEELER, M.D.’62
Legacies from two alumnae, who graduated three decades apart with the distinction of being the sole female members of their respective classes, will help foster the medical education of future physicians. Eva Sargent overcame the tight economic circumstances of her immigrant childhood to earn her medical degree only ten years after the first woman had been accepted at the College. She went on to an obstetrical practice, delivering thousands of babies in her years of service. This year, the Sargent Family Trust, established by Dr. Sargent, who died in 2004, and her two sons, began benefiting the College as she wished. Ruth Seeler has spent her career helping thousands of children through her Chicago pediatric practice, and through her years of service at one of the first camps for hemophiliac children, which she founded more than 30 years ago. Dr. Seeler deepened her commitment to supporting medical students with a new estate provision for the Ruth Seeler, M.D.’62 Endowed Scholarship.
A YEAR OF ACCOMPLISHMENT FOR MED STUDENTS

The Class of 2005 saw great change in their own lives during the course of four years at the College, and they also saw a good amount of change come to their school. This class helped to pioneer the Vermont Integrated Curriculum, and they saw their campus transformed around them as the building project that had just broken ground when they arrived as first-year students finally neared completion this spring. On May 22, the class received their M.D. degrees at Ira Allen Chapel in a ceremony that increased their number by one: longtime anatomy instructor Bruce Fonda, battling glioblastoma multiforme cancer, was made an honorary member of the class. (Fonda, front right in the class photo, died on October 5, 2005.) The class also made a generous gift detailed on page 47.

RAISING DOMESTIC VIOLENCE AWARENESS

Vermont Medical Society statistics show aggravated assault on the rise in the state, with young females by far the most typical victims on the receiving end of domestic violence. As Antje Ricken of the Vermont Network Against Domestic Violence and Sexual Assault notes, the moment a domestic violence victim presents for care at the emergency room may be the only opportunity to guide her to the additional social help she needs to escape the cycle of fear. Because the patient may be too fearful to actively report domestic violence as the cause of their injury, it is important for health care professionals to be able to detect the underlying problem. Associate Professor of Family Medicine David Little, M.D.’75 (shown at right, with students and a standardized patient during a teaching session at the College’s Assessment Center), has worked to bring domestic violence awareness training directly into the College’s Vermont Integrated Curriculum. These efforts were recognized this year in a Burlington Free Press editorial as a crucial step forward in lessening this community problem.
Burton Sobel, M.D., (below) announced that he would step down as chair of his department to focus on his efforts on the development of a new Cardiovascular Research Institute at the College of Medicine and Fletcher Allen Health Care. “The Institute is designed to foster creative research and interaction among researchers, building programs that might otherwise not take place,” says Sobel. UVM researchers have made strong gains in understanding the role of inflammation and clotting in cardiovascular disease, exploring the relationship between diabetes and heart problems, and finding new ways to predict cardiovascular conditions.

AT THE HEART OF RESEARCH

“It’s important to keep in mind that, of all the people who died from a disease in the past year, fully half died from cardiovascular-related disease,” says Russell Tracy, Ph.D., senior associate dean for research and academic affairs. For decades, physicians and scientists at the College have explored the workings and diseases of the body’s most vital muscle. The existence of an academic health center in Vermont has meant that our citizens have access to life-saving procedures and devices like coronary bypass surgery and drug-eluting stents. This July, Professor of Medicine
IN THE FIELD OF MEDICINE,

knowledge is power—the power to extend life, to add quality to daily existence, to give hope. Medical discovery and the creation of new knowledge remain a core mission of the doctors, scientists, students, and staff at the College of Medicine. The advancement of biomedical knowledge takes place at the laboratory bench, in the clinical setting, and in translational efforts that bridge the two to ensure that discoveries in the lab lead to improvements in patient care. While federal funding of research has remained flat over the last two years, the interdisciplinary approach to research at the College has lead to extraordinary growth in research funding, with the College securing more than $87 million dollars in FY05-06 (an increase of $7 million over the previous year) to further our understanding and treatment of disease and wellness.
TRACKING THE TRIGGERS OF ECLAMPSIA
Assistant Professor of Neurology Marilyn Cipolla, Ph.D.’97, and colleagues are exploring the science behind a mysterious condition that can affect a significant percentage of expectant mothers. Preeclampsia—a condition characterized by high blood pressure in expectant mothers after the 20th week of pregnancy—can rapidly progress into eclampsia, in which seizures, hemorrhage, and stroke can occur in the mother. Cipolla (shown at far right, with M.D./Ph.D. student Anna Eusser) published results this year in the American Journal of Physiology–Heart and Circulatory Physiology which suggest that changes in cerebral artery reactivity may play a role in triggering eclampsia.

TRANSATLANTIC RESEARCH NETWORK
A $6 million grant is helping researchers at the College direct an innovative international network linking scientists who study blood-clotting disorders at three U.S. and three European universities. The five-year grant is funded by Fondation Leducq, a French institution that supports European-American collaborations in cardiovascular research. Led by Professor and Chair of Pathology Edwin Bovill, M.D., an international expert in the field of blood-clotting disorders, the Leducq International Network Against Thrombosis (LINAT) member institutions in the U.S. include the University of Vermont, the University of Washington, and the Oklahoma Medical Research Institute at the University of Oklahoma; and in Europe, the University of Leiden in the Netherlands, the University of Leuven in Belgium, and the University of Paris. “Like all research studies, this program is a bit of an experiment,” said Bovill, shown far left at the group’s first meeting in December. “The grant will allow us to more effectively support our current work, which we hope will lead to the establishment of a sustainable model that amplifies the amount of scientific training and discovery taking place.” Over three days in December, 54 representatives from the institutions in the network gathered in Burlington to present data from their current studies and discuss which research, technology and facilities will be used for LINAT.
THE MUSCLE POWER OF A FRUIT FLY

What is the connection between a fly’s aerodynamic skill and human heart function? Using the nation’s most detailed X-rays, located at the Advanced Photon Source at the U.S. Department of Energy’s Argonne National Laboratory, cardiac molecular motors expert David Maughan, Ph.D., and his colleagues from the Illinois Institute of Technology and Caltech performed research to answer that and other questions. The research team published their results in a report in January in the prestigious British journal *Nature*. To conduct their research, Maughan, who is research professor of molecular physiology and biophysics, and colleagues merged extremely bright X-ray beams and a “virtual-reality flight simulator” for flies, to probe the muscles in a flying fruit fly and examine how it generates the extraordinary levels of power that result in flight. “At the molecular level, the insect’s flight muscle and a human heart are remarkably similar,” Maughan said. “We biologists have always been amazed by how hard these muscles work. Now we have taken advantage of the fruit fly’s small size and shone light right through the whole animal, illuminating the working muscles during flight and probing the molecular motions deep within the muscle cells. Both insect flight and human heart muscles store energy during each beat that is later used to help flap the wings or expand the heart after contraction. We found that flying insects store much of the elastic energy in the protein filaments themselves, which minimizes the power costs.”

SUPPORTING THE MISSION: PILOTING NEW RESEARCH

For Associate Professor of Biochemistry Christopher Francklyn, Ph.D., bringing the germ of a new research idea into fruition needed but one crucial element: enough “pilot” support to get it off the ground. Biomedical scientists often rely on private support for the initial steps in a new research direction, one that will yield the important results that can be used to attract grant funding from the National Institutes of Health and other organizations. For Francklyn, that private support came from alumnus Richard Raynor, M.D.’55. Francklyn briefed Raynor on his theory about tuberculosis cells and compounds they secrete to defend themselves from attack. “We are extremely grateful to Dr. Raynor for providing the seed money we needed to get this research going,” says Francklyn. “We now believe we’ve found the gene responsible for this behavior, and will be able to apply for other grants to understand it further.”

SENIOR SURGERY STUDENTS PURSUE RESEARCH

For 35 years, the Department of Surgery has demonstrated its commitment to inspiring a new generation of physicians who demonstrate excellence in practice and in research, by sponsoring a Senior Major Scientific Program. Fourth-year medical students with a strong interest in surgery as a practice have the opportunity to complete a scholarly project, through a library search, a patient chart review, and/or a laboratory investigation. Students prepare their data in the form of a scientific article acceptable for publication in a professional journal and present their research at a daylong seminar in May that attracts students, residents, and faculty of the department. This year, Class of 2005 member Zechariah Gardner (at left) received first prize for his examination of glucose control in critically ill patients. A few days after the seminar, Gardner received his M.D. degree. He began his surgical residency at Fletcher Allen this July.
IMPROVING HEALTH CARE QUALITY
Second-year medical students Keith Robinson (at left) and Benjamin Huerth spent their summer minding their p’s and q’s—concentrating on physicians and quality. For 200 hours in July of 2004, they shadowed physicians at Fletcher Allen Health Care and carefully observed doctor-patient encounters to learn more about the ways in which physicians and patients interact. “They work within a framework called Quality Assurance and Quality Improvement (QAQI),” explains Henry and Carleen Tufo Professor of Medicine Benjamin Littenberg, M.D., (pictured at left behind Robinson) one of the faculty members working with the two students. “It’s a process that points out consistent, incremental pathways to improved care for patients.” Robinson agrees, “I’ve learned more about the many ways physicians and patients can interact through this project, and how to gauge quality improvement.” His interest in this subject was honed by his experience with QAQI in his ten years of emergency medical technician work before coming to medical school. “It’s all about how you can constantly improve what you do,” he says. The academic health center underscored the critical importance of quality improvement this year by appointing Steven Shackford, M.D., the Stanley S. Fieber, M.D. ’48 Professor and Chair of Surgery, to the post of Chief Quality Officer at Fletcher Allen.

Patient Care

AT THE COLLEGE OF MEDICINE,
one mission builds on another, and nowhere is this more evident than in our mission of providing better care to the people of our state, our nation, and the world. Throughout the missions of education, research and community outreach, is woven the ultimate concern for improving the health of the communities we serve. Whether they are implementing new procedures for improving the quality of care, providing guidance in the often confusing world of new medical therapies, or bringing the latest care to underserved areas near and far, they fulfill the need, as stated by Dean John Evans, “to be active participants and leaders in innovative and creative health care.”
PROMOTING HEALTHY HABITS
Preventive Cardiologist and Professor of Medicine Philip Ades, M.D., walks out into the narrow gym, glances quickly at the chattering bicycles and whirring treadmills, and smiles. Although it looks like just a gym, this is the home of Ades’ nationally renowned cardiac rehabilitation program and serves as his laboratory, his classroom, and his patients’ lifeline. This is the place where damaged hearts become strong, a place where patients rebuild their lives, one hesitant step at a time. It is also the proving ground for millions of dollars in research that seeks to find the fastest and most effective ways to bring people back from serious heart problems—and help to make sure they don’t succumb again. “For many people, heart disease is their first brush with death. It is the ultimate teachable moment,” Ades says. “If you’re ever going to change, it’s the ideal time.”

The doctor’s professional life is centered on convincing patients that a long life tastes better than steak, and channeling that realization into a diet and exercise program for the rest of their lives. The tools are simple, treadmills and weights and the food pyramid, but the results are profound. In one companion study, cardiac rehabilitation was found to reduce the risk of death in heart patients by 25 percent after three years. Ades and his UVM team try to help patients do even better by driving clinical care with a burgeoning research program, one that has received consistent National Institutes of Health funding. Ades is a passionate advocate for research that leads to improved care for patients. “What really makes this interesting for me, the part of the job that I just truly love, is asking questions that could improve care and then going out and testing different ways of treating patients to help them do better.”

SUPPORTING THE MISSION: ACCOMPLISHED ALUMNI CELEBRATE THE IMPACT OF A PROMINENT MENTOR
Many alumni of the College of Medicine can trace their eventual decision to practice a particular specialty to the shining example of one or more mentors they encountered in their years at the school. For many who have gone on to distinguished careers in neurology, that mentor was former Chair of the Department of Neurology George Schumacher, M.D., (whose son and daughter-in-law are both graduates of the school, and whose granddaughter is a current student). Beginning in the 1950’s, Dr. Schumacher led efforts to develop a criteria for diagnosis of multiple sclerosis. Today, what has come to be called the Schumacher Criteria is used worldwide. The doctor’s legacy was celebrated this year with a departmental symposium. Honoring Dr. Schumacher at the symposium were (standing, left to right): Theodore Munsat, M.D. ’56 professor emeritus and former chair of the Department of Neurology, Tufts University; Robert Hamill, M.D., current chair of the Department of Neurology at the College; Stuart Cook, M.D.’62, professor of neurology, former department chair and former president of the University of Medicine & Dentistry of New Jersey; and Hillel Panitch, M.D., professor of neurology at the College of Medicine and director of the neurology clinical trials unit.
MEETING THE NEED IN PERU
For Assistant Professor of Surgery Susan MacLennan, M.D., (below) a specialist in reconstructive and plastic surgery, the connection to her important medical volunteer work was as close the doorway across the hall. Her colleague, Associate Professor of Surgery Donald R. Laub, Jr., M.D., is the son of the California plastic surgeon who founded Interplast, a non-profit organization that provides free reconstructive surgery to patients in developing countries around the world. Today, 35 years later, MacLennan and Laub both are regular Interplast volunteers. “I had always trained with surgeons who had been Interplast volunteers, and had long wanted to work with them,” says MacLennan. That interest has led her to two medical missions in recent years in the mountains and desert country of Peru. In 2003, she was part of a surgical team that traveled to Puno, a town situated at 12,500 feet elevation on Peru’s altiplano, near Lake Titicaca. This past December, MacLennan joined a team of fourteen medical professionals who journeyed to Piurra, a city in Peru’s northern desert region. Like MacLennan, other UVM doctors and medical students regularly spend their “vacations” providing vital care to patients in underserved regions around the world.

INTERPRETING RESEARCH STUDIES
This year, consumers were bombarded with information from research studies about the role and necessity of hormone replacement therapy (HRT). Julia Johnson, M.D., professor of obstetrics and gynecology (at left), was highlighted in an article in the widely-read medical publication American Medical News, which reported on a new hormone therapy guideline issued by the American College of Obstetrics and Gynecologists. The task force reviewed the evidence regarding the use of estrogen and estrogen/progestin for menopausal symptoms and found that hormones can still play a treatment role for some women, particularly for hot flashes. “This is the kind of information patients want and need,” said Johnson, underscoring the need for physicians to help patients make informed decisions based on their own health care needs.

NATIONAL RECOGNITION FOR ORGAN DONOR ACHIEVEMENT
Currently, over 88,000 people are waiting for a life-saving organ transplant in the United States, but nationally, only 50 percent of all families in the U.S. give consent when asked to donate a loved one’s organs. Assistant Professor of Surgery Abrar Khan, M.D., chief of transplantation surgery and immunology, and his colleagues from Fletcher Allen’s federally designated organ procurement organization, the Center for Donation & Transplant (CDT), have made monumental strides in improving these statistics and helping people in the region meet this critical need. In May, Khan (below, second from left) and representatives from CDT received a Medal of Honor for successfully achieving an outstanding 100% conversion rate (the percentage of people who become organ donors out of all the potential donors in a hospital) at a ceremony hosted by the U.S. Department of Health and Human Services in Pittsburgh, Pennsylvania. The ceremony was part of the 1st Annual Organ Donation National Learning Congress, a program designed to honor hospitals across the nation that achieved an annual conversion rate of 75% or higher. “The selfless decision of the families that chose to give hope and life to others in the midst of their own grief over losing a loved one truly serves as an inspiration to everyone involved in the donation process,” said Khan. “I congratulate the staff at Fletcher Allen for their accomplishments, and encourage them to continue their efforts for those still waiting for the gift of life.”
MAKING SCIENCE COOL

“I usually don’t like insects, but the way they taught it was so cool!” Exclamations like that would warm the heart of any elementary school science educator. For many College of Medicine faculty and staff, going outside the campus to spark an interest in science among local school children is an important part of their mission to advance science. Microscopy Imaging Center technician Janet Schwartz (at left above, with fifth graders in Burlington), and many others have for the past six years brought Project MICRO—a program of the Microscopy Society of America—to middle schools throughout Vermont. The payoff comes with seeing a young face brighten to the prospect of scientific inquiry—like the Winooski fifth grader who, along with his whole class, wrote a thank you and paid the highest of compliments: “I liked being a scientist. It is very cool.”
MOST MEDICAL SCHOOLS

and academic health centers have as their missions the traditional and metaphoric “three-legged stool” of education, research and patient care. Here, the College of Medicine is committed to a more complex and involved structure, what Dean John Evans refers to as “a four-legged stool—including the involvement and engagement that we have with our community.” That fourth mission is visible across the campus, throughout the community, and around the state, from direct care for patients, to outreach that encourages young people to think about careers in medical science, to working with policy makers to create a better health care system for the citizens of Vermont. Our faculty, staff and students work every day to both serve and learn from the communities in which we live.
COMMUNITY AT THE COLLEGE OF MEDICINE

HELPING THE WORLDWIDE COMMUNITY
The summer weeks between the end of exams in June and the beginning of classes in August could be the last quiet time in years for a future physician. But, not surprisingly, College of Medicine students tend to make this potential downtime a decidedly busy time. “A large percentage of our students gain some form of experience in the summer that’s related to being a physician,” said Dean John N. Evans. “They’re performing service to our community, gaining knowledge and experience in research settings and, each step of the way, demonstrating a commitment to their profession.” Dozens of students participated in research work during the summer in communities across Vermont and the nation, as well as far-flung locations like Nepal, Ethiopia, Argentina, and Pakistan. Their efforts were funded by the College and supported by the Medical Alumni Association and the Freeman Medical Scholars Program. After her first year of medical school, Kelly Huynh ’07 (at right) used a summer research fellowship to study antibiotic use, prescribing methods, and the emergence of antibiotic resistance at Binh Dan Hospital in Ho Chi Minh City, Vietnam.

KEEPING SUMMER FUN SAFE
May is “National Skin Cancer Awareness Month,” and this year the members of the Vermont Cancer Center (VCC) at the University of Vermont took the message directly to some of the smallest community members. During Burlington’s Kids Day celebration on May 21, the VCC operated a booth at the Burlington waterfront site of the celebration, where VCC faculty members and staff taught kids the value of consistent use of sunscreen—even on cloudy days. The Kids Day event was just part of VCC efforts to raise skin cancer awareness. During May, the National Cancer Institute-designated comprehensive cancer center, one of only 39 in the nation, also offered a conference for melanoma survivors, a prevention seminar, and two conferences for cancer professionals.
ECONOMIC HEALTH—THE DESIRED SIDE EFFECT

The desired goal of new therapies and treatments is to benefit patients and their families. However, biomedical innovation has another beneficial effect on the community as a whole: helping to spark a new generation of health care companies that add a significant lift to the economy. These companies often form around the ideas of professional scientist/entrepreneurs like Mark Brann, Ph.D.’84. After earning his doctoral degree at UVM, Brann went on to a post-doctoral fellowship at the Laboratory of Cell Biology at the National Institute of Mental Health. After stints at the National Institute of Diabetes, Digestive and Kidney Diseases, and at the National Institute of Neurological Disorders and Stroke, in 1991 he returned to UVM as associate professor of psychiatry and pharmacology. In 1993, Brann founded Acadia Pharmaceuticals, a company that develops treatments for central nervous system disorders, and since then has served as the company’s president and chief scientific officer. Now based in San Diego, the company specializes in novel treatments of central nervous system disorders. In recognition of his achievements, Brann was honored this year with the College’s first Graduate Alumni Award.

SUPPORTING THE MISSION:
VERMONT BUSINESSES BACK MEDICAL EDUCATION

When the College of Medicine began the process to bring the medical campus up to the standards of the 21st century, many forms of support came from a wide spectrum of community members, including area businesses. KeyBank, the Sheraton Burlington Hotel and Conference Center, and S.T. Griswold, Inc. were three Vermont companies who showed financial support for the College. In recognition of their generous gifts, three state-of-the-art classrooms in the new Medical Education Pavilion now bear their names. “This is more than just a matter of giving,” explained KeyBank Vermont District President Scott Carpenter (shown above, left, with Dean John Evans). “We’re please to be supporting the important work the College does in educating the physicians and scientists of tomorrow.”

ECHO EXHIBIT ON AGING

The College of Medicine, Elder Care Services at Fletcher Allen Health Care and the University of Vermont College of Medicine Area Health Education Centers (AHEC) Program jointly sponsored a major exhibit at ECHO at the Leahy Center for Lake Champlain this past year. Titled “The Amazing Feats of Aging,” the hands-on health science exhibit focused on the biology of aging, aging across the animal kingdom, healthy aging, and aging of the brain. The exhibit ran from September, 2004 to January, 2005 and was visited by more than 24,000 people. In conjunction with the exhibit, faculty experts on aging delivered a series of community lectures.
The past year has been productive, but also very sad, for the Department of Anatomy and Neurobiology (ANNB). One of our most outstanding educators, Mr. Bruce Fonda, was diagnosed this spring with an inoperable brain tumor. Bruce is undergoing treatment and is in the thoughts and prayers of us all.* The Class of 2006 made Bruce an honorary member of their class at graduation in recognition of his dedication to medical education. Bruce also was honored with the “Golden Apple Award” from the American Medical Student Association of UVM, Class of 2007.

We have completed the fourth year of funding for our Center of Biomedical Excellence (COBRE) grant in Neuroscience, which provided project support and pilot grants for the research programs of seven junior faculty members, two multi-user research cores (Cell/Molecular Biology and Imaging/Physiology), and a Translational Core that promotes interaction between clinical and basic neuroscientists. Four of the original five COBRE-supported junior principal investigators have obtained independent NIH funding (three R01s and one R21). In addition, three of the original junior project directors have been promoted to associate professor with tenur, a demonstration of the success of the COBRE mentoring process. Drs. Parsons and Cynthia Forehand are currently working on the competitive renewal application for an additional five years of COBRE support. On November 15, the third COBRE-sponsored Neuroscience plenary lecture featured Dr. Gordon Shepherd, Professor of Neuroscience at Yale University and a member of the COBRE External Advisory Board.

Research programs of ANNB faculty flourished this past year. Extramurally-funded programs focused on cellular, molecular and developmental neuroscience as well as on the neural regulation of GI, urinary and cardiac function. Of particular note was the recognition received by Dr. Gary Mawe for studies done in collaboration with Dr. Peter Moses, Department of Medicine, which identify potential mechanisms underlying changes associated with inflammatory bowel disease and irritable bowel syndrome.

ANNB faculty remained dedicated to a diverse educational mission that includes teaching responsibilities for residents and medical, allied health, undergraduate and graduate students. We continue to participate actively in the Foundations Level courses in the Vermont Integrated Curriculum (VIC). Dr. Forehand, director of the Foundations Level curriculum, also is 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. Dr. Jean Szilva continues to assist in the development of many computer-based instructional modules that were significant teaching components of many Foundations Level courses.

ANNB faculty played a key role in the development of a University-wide Neuroscience graduate training program. Dr. Rae Nishi was appointed director; Dr. Cynthia Forehand serves on the program Steering Committee. It is anticipated that the program will accept its first students in the fall 2006.

Other significant faculty accomplishments include Dr. Nishi’s continued role as Co-Director of the summer Neurobiology Course held at the Marine Biological Laboratory, Woods Hole; Dr. Victor May’s membership on the Scientific Advisory Committee for International Symposia on VIP, PACAP and Glucagon Related Peptides; and Dr. Forehand’s appointment as US Representative to the Executive Committee of the International Society for Autonomic Neuroscience and as a Member of the USMLE Neuroscience/Neurology Task Force. Dr. Diane Jaworski serves as President of the Vermont Chapter for the Society of Neuroscience. ANNB faculty continue to serve on NIH Study Sections.

* Editor’s Note: Bruce Fonda died on October 5, 2005
One highlight of this past year was moving into our new office space. With a new classroom, offices, resident library and our simulator room, the space is ideal for our growing educational needs.

We look forward to additional opportunities during the coming year to add department members to the admissions interview team, to serve as faculty mentors, and to teach in the Vermont Integrated Curriculum.

DEPARTMENT OF BIOCHEMISTRY
PAULA TRACY, PH.D., INTERIM CHAIR

The productivity of the Biochemistry faculty regarding their research endeavors, teaching commitments, and service to community remains strong and consistent. Drs. Morrical, Bouchard, Brummel-Ziedins and Parhami-Seren each received new grants from various funding agencies. Dr. Morrical was instrumental in the receipt of a new NCI-sponsored Program Project Grant for which Dr. Wallace serves as principal investigator. Drs. Bouchard and Brummel-Ziedins are outstanding junior faculty who received awards to help them establish independent research careers.

Dr. Morrical also completed a six-month sabbatical leave, “Single-Molecule Studies of DNA Recombination and Replication Enzymes” at the University of California-Davis in the Section of Microbiology and Center for Genetics & Development.

Several outstanding and noteworthy publications in the form of a book, book chapters and peer-reviewed publications are also evident. Further evidence of the recognition of our research accomplishments by our peers is provided in the multiple invitations our faculty received to present their work at prestigious national/international meetings.

Rob Hondal, Ph.D., assistant professor, has established a new core laboratory at the University. The UVM Protein Core Facility officially opened in February 2005. The core was established with funding from an NIH Shared Instrumentation Grant. This grant enabled the purchase of a Symphony Cascade automated peptide synthesizer from Protein Technologies, Inc. and preparative HPLC from Shimadzu Scientific. The mission of the core laboratory is to synthesize peptides for researchers at UVM at low cost and to collaborate with researchers to enable projects that would otherwise be cost prohibitive and beyond the technical scope for a typical UVM laboratory.

Dr. Hondal also help to establish, and serves as the advisor for, a new undergraduate club—the UVM Biochemical Society. This club has been formed to help mentor students about career and educational opportunities in the biochemical sciences. The Society is looking forward to a productive inaugural year.

Additional institutional service is evident in the work of Chris Francklyn, Ph.D., as one of two co-chairs of the COM Governance committee and Paula Tracy, Ph.D., as a member of the Strategic Planning committee. Significant national service is provided by Dr. Francklyn, as well in his new role as chair of the Molecular Genetics Study Section of the NIH, which is quite an honor and recognizes his outstanding research contributions, as well as his continuous funding from the NIH. Ken Mann, Ph.D., has also assumed more national service responsibilities in his new roles as an elected member of the Board of Directors of the National Hemophilia Foundation, as well as Treasurer-Elect of the Federation of American Societies for Experimental Biology.

Finally, the most notable “event” within the department was the resignation of Ken Mann as the chairman of the department. Dr. Mann fulfilled that role for nearly 21 years and is now ready to devote more time to his research program, which has consistently remained very strong. Paula Tracy, who has served as the vice-chairperson of the department since 1997, has assumed interim leadership.

Departmental faculty are working diligently to develop a new strategic plan for the department, which will continue to support our areas of strength and develop our new, emerging areas of emphasis.

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

The Department of Anesthesiology has grown to include 35 attending faculty physicians who collectively delivered over 22,000 anesthetics in the operating rooms at Fletcher Allen Health Care and more than 13,500 pain treatment procedures in the new Center for Pain Medicine.

Departmental research activity under the leadership of Dr. James Rathmell, vice chair for education and research, has continued to grow steadily. Dr. Rathmell, in conjunction with Alex Friend, senior research associate, and research staff have completed several funded clinical trials in the area of pain and peri-operative recovery. Several of these trials have gained national recognition and highlight the successful collaboration among investigators here at UVM. We are very proud that our research efforts have led to numerous abstracts presented at national meetings. Other publications stemming from the work of faculty include original research reports and review articles. Two full-length texts have been assembled with editorial oversight from members of our department and been published.

Our residency and fellowship training programs continue to thrive. Dr. David Adams, Residency Program Director, continues to work tirelessly on behalf of resident education. The fellowship program is directed by Dr. Rathmell and has gained international recognition as one of the top training programs for pain medicine. Dr. Fitzgerald continues to lead the medical student curriculum, and welcomes UVM students on formal anesthesia rotations.

Several members of our department (Adams, Elliott, Fitzgerald, Johnson, Paganelli, Rathmell, Schapiro, Visconi) serve on medical school committees and participate in the Vermont Integrated Curriculum. Drs. Matt Fisher and Rob Williams continue to host “Vermont Perspectives in Anesthesia”, our annual continuing medical education course held in Stowe each March. We are pleased to welcome over 100 participants from all over the country. Additionally, two of our faculty members (Kreutz, Gaydos) each traveled to serve in surgical initiatives in Third World countries this past year.
DEPARTMENT OF FAMILY MEDICINE

JOHN FOGARTY, M.D., CHAIR

The year 2004-2005 has been a busy one for Family Medicine. Again, we experienced multiple transitions in programs, faculty, and personnel. In our Residency Program, we continue to attract excellent candidates and graduate future family physicians for Vermont. This year five of our six graduates are staying in the local area as their practice preference. Our “hospitalist” program and Family Medicine service at FAHC continues to expand for the local community family physicians and is a great resource for the residents with regular teaching and direct contact with faculty. The residency program training grant provides a wonderful partnership with Burlington’s Community Health Center in teaching culturally sensitive obstetrics care. This year we added a family physician / psychiatrist to Milton Family Practice, Dr. Evan Eyler, to improve behavioral medicine teaching and consultation.

Our faculty members have multiple interests and projects and many enjoy collaborative work. Some of these include Dr. Peggy Carey and her work with adolescent screening and the VCHIP Project, Dr. Rob Luebbers’ work on Prostate Screening and Community Education, Dr. Allan Ramsay’s work on Palliative Care and developing an Integrative Medicine program, and Drs. Karen Burke and Kevin Rodgers working in Nicaragua and Honduras on medical support trips. This year two of our faculty members were honored: Dr. Allyson Bolduc was selected for an Annual Alumni Association Award based on her outstanding clinical care and community involvement and Dr. Chuck Hulse was awarded a two year Frymoyer Scholarship to further his work on development of a student elective course on ecosystem health and human physical, mental and spiritual health. Karen Richardson-Nassif, Ph.D., was promoted to research associate professor, Dr. David Little returned to his clinical practice in Milton after a three year hiatus in the office of Primary Care and work with the AHEC program, and Dr. John Saia coordinated his last Family Medicine Review Course after eight years of dedicated efforts to this highly successful program. Faculty members continue to be highly energized by the Vermont Integrated Curriculum and many serve as Course Directors or key faculty in the courses. The department was well represented during the preparation for the LCME Survey and led the process as Self study Coordinator.

The clinical service for Family Medicine continued to be very busy at our family practice centers in Milton, Colchester, South Burlington, Berlin, and the Walk in Care Center. We’ve added new doctors to Colchester, Milton and Berlin and our physicians are doing great work as clinicians and teachers. These sites provided over 105,000 outpatient visits and each supports the college’s medical student and resident educational programs.

DEPARTMENT OF MEDICINE

POLLY E. PARSONS, M.D., INTERIM CHAIR

The past year has seen continued growth and excellence in all of the areas that define our mission: clinical care, education, and research. The Department of Medicine comprises 488 faculty members and continues to grow. This year several new faculty members joined the department in areas including Cardiology, Endocrinology and Infectious Disease.

The Department provides extensive clinical care demonstrated by the more than 80,000 subspecialty care visits and 12,000 hospitalized patients. Care is provided not only at Fletcher Allen Health Care but at numerous satellite sites throughout Vermont and New York State as well. This year the outreach programs in Cardiology and Rheumatology, were extended into additional sites and new sites are planned for Gastroenterology and Dermatology.

The Department continues to be a leader in research. Many faculty members serve on NIH study sections, are editors of journals, and are members of editorial boards. This year grant funding was robust, with several significant new awards. The faculty published over 300 manuscripts, reviews, chapters and books many of which were recognized in both the academic and lay press for their significant contributions to the science of medicine.

This year’s accomplishments in research were further highlighted by the naming of Dr. Burton Sobel, former Chair of Medicine, as the Director of the new Cardiovascular Research Institute at the College of Medicine and Fletcher Allen Health Care.

Members of the Department of Medicine are dedicated to teaching and in addition to extensive involvement in the education of medical students as highlighted this year by the involvement of many faculty members in both the continued development and implementation of the Vermont Integrated Curriculum, there are 43 house officers, two chief medical residents and 36 clinical subspecialty fellows in training in the department. These trainees are active both on the clinical service as well as in the research laboratories and presented both their clinical and research work at local and national meetings in the past year. This dedication to education and teaching was recognized by two significant awards. The Department of Medicine was selected as the Clinical Department of the Year by the graduating class of 2005. Dr. William Hopkins, a member of the Cardiology Unit, received the Foundations Teaching award by the students from the class of 2007.

DEPARTMENT OF MICROBIOLOGY & MOLECULAR GENETICS

SUSAN WALLACE, PH.D., CHAIR

The Department of Microbiology and Molecular Genetics continues to achieve milestones in the research arena. In the area of microbial pathogenesis Dr. Gary Ward and associates have published two high profile papers in Eukaryotic Cell and Molecular Biology of the Cell on host cell invasion by the protozoan parasite Toxoplasma gondii. Dr. Ward is also a member of the National Library of Medicine Public Access Working Group and, aligned with this interest, he is on the Editorial Board of PLoS Biology. Dr. Ward was just awarded a second NIH R01 grant to further fund his work on T. gondii. This fall the department is sponsoring a symposium to honor Professor Emeritus Dr. Paula Fives-Taylor for her pioneering work on the molecular biology of dental pathogens. Both national and international notables in the field will be giving talks. Dr. Markus Thali, a cell biologist who works on HIV, gave the keynote lecture on Retroviral Assembly at the West Coast Retroviral Meeting. Dr. Thali also had a recent high profile paper in the Journal of Cell Biology on the mechanism of HIV budding at the plasma membrane. Dr. Keith Mintz gave the keynote address at the International Association for Dental Research this year and has just received an NIH renewal award to continue his studies on Actinobacillus actinomycetemcomitans. The newest recruit to the Department, Dr. Mariana Matrajt, was just awarded a grant from the American Heart Association for her work on the genetics of Toxoplasma gondii.

Another departmental focus is on the molecular mechanisms underpinning protein nucleic acid interactions. This has been a stellar year for this group. Drs. Susan Wallace, Sylvie Doublié, and Jeffrey Bond in the department, together with Dr. Scott Morrical in Department of Biochemistry and Dr. Mark Rould in the Department of Molecular Physiology and Biophysics were awarded a Program Project from the NIH to study the structural interactions of DNA repair enzymes with their damaged substrates. Drs. Doublié and Wallace have published the first structure, a human repair enzyme, in the Proceedings of the National Academy of Sciences. Dr. Doublié is also on the Editorial Board of Structure, a member of the Faculty of 1000, a PEW Scholar, a Walter Juckett Scholar and was co-chair of the new structures session at the American Crystallographic Association meeting. Dr. Doublié and Dr. Erik Bateman, who studies
transcription of the protozoan parasite Acanthamoeba castellanii, both served ad hoc on NIH Study Sections this past year. Dr. Bateman had a notable paper in Molecular Microbiology on the analysis of a gene promoter in A. castellanii, while Dr. Gregory Gilmartin had a high profile paper in Genes and Development where he proposed a novel mechanism for vertebrate poly(A) site recognition. Dr. John Burke, also a member of the Faculty of 1000, recently received an NIH renewal for his groundbreaking work on the Hairpin Ribozyme. Dr. Wallace was also awarded an NIH renewal for years 23-27 for her work on DNA repair enzymology.

Department members have been participating fully in the second year of the Vermont Integrated Curriculum. The Department also has a large and successful graduate program; five Ph.D. degrees were awarded this past year with graduates going to prestigious postdoctoral positions. Two undergraduate majors, one in Microbiology and the other in Molecular Genetics, are also offered in the department, which also plays a major role in the cross-college undergraduate Biochemistry and Integrated Biology Programs.

**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 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.

This highly focused and collaborative group of investigators has been awarded two independent NIH Program Project Grants, one of which was renewed in 2009, 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, 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 prestigious international scientific conferences. At the Biophysical Society meeting, Dr. David Warshaw presented at a symposium on “Cooperative Mechanisms in Molecular Motors”, while Dr. Kathleen Trybus organized a symposium on “Regulation of Myosin Motors and Muscle Contraction” and Dr. Neil Kad, Research Associate, also gave an invited oral presentation at the prestigious Gordon Research Conference on Muscle Contractile Proteins. Dr. Teresa Ruiz served as a Discussion Leader at the Gordon Research Conference on “Three Dimensional Electron Microscopy.” In addition, Dr. Warshaw served as a consultant for the NIH Nanomedicine Initiative.

In education, many of the faculty play contribute substantially to the new medical school curriculum and graduate program in Biomedical Sciences. Dr. Patlak serves as the head of “Cardiovascular, Renal, Respiratory” section of the Vermont Integrated Curriculum. Dr. Berger, director of the Graduate Umbrella Program and the Cell and Molecular Biology Graduate Program, strives to develop a college-wide graduate program that takes advantage of the research strengths of the faculty to attract a high quality graduate student population. In addition, Drs. Radermacher and Ruiz will once again hold a “Practical Course on Three-dimensional Cryo Electron Microscopy of Single Particles” that attracts over 20 international scientists.

**DEPARTMENT OF NEUROLOGY**

**ROBERT HAMILL, M.D., CHAIR**

The Department of Neurology programs in academics and clinical care continue to expand. Academically, the department’s role in the education of medical and graduate students is now substantial. The Vermont Integrated Curriculum provides the opportunity for neurology faculty to lecture throughout all four years of medical school as well as work individually with students throughout their clinical rotations in the neurology clerkship as well as during senior ‘selectives’, including acting internships. At Maine Medical Center, our clinical faculty contribute substantially to the clerkship and a number of students have selected careers in neurology following their rotations in Maine. Graduate students, ‘year out’ medical students, and students in the MD-PhD program have selected neurology faculty laboratories to complete their graduate degrees and neurology leads the translational core of the COBRE grant in neuroscience.

At the postgraduate level, the neurology residency will be expanded to three residents per year, starting in July of 2006.
Fellowship programs remain strong with two of our fellows joining the faculty. All faculty have contributed to educational programs locally and regionally, and a number of faculty have participated in national and international symposia.

During the last year, our faculty contributed over 60 publications to the basic and clinical neuroscience literature, was awarded 18 grants (new or yearly renewals) from the National Institutes of Health or other funding agencies such as American Heart and Muscular Dystrophy Associations, and received grant funding for over 20 clinical trials from the biopharmaceutical industry. Faculty actively participate as reviewers of publications for journals and grants, with three being active members of NIH study sections, including providing leadership roles.

Clinically, the programs in Burlington and at Maine Medical Center continue to expand. At Fletcher Allen, 18,000 neurology visits occurred. Specific attention is drawn to the accreditation of the Vermont Regional Sleep Disorder Center at Fletcher Allen Health Care. This multidisciplinary program provides a full range of clinical services, education and research studies in sleep and the Sleep Center has established an equipment loan program so that indigent patients may start treatment while resources are identified to buy the needed medical equipment. A new program in Neurocritical Care expands and complements the Stroke Program. These programs, which are joint ventures with neurosurgery and neuroradiology, draw on the resources of the critical care programs in medicine and surgery. We also established an integrated program in deep brain stimulation (DBS) for patients with movement disorders. Thus, multidisciplinary neuroscience care is part of the future of our academic medical center.

DEPARTMENT OF OBSTETRICS & GYNECOLOGY
MARK PHILLIPPE, M.D., CHAIR
This past academic year has been a very exciting one for the faculty within the Department as we make transition plans to move our clinical activity into the new Ambulatory Care Center (ACC) in the fall. Our teaching programs including faculty involvement in the preclinical foundations curriculum, especially the generations course, the Ob/Gyn clerkship within the bridge curriculum, our Ob/Gyn residency program, and our subspecialty fellowship programs in Maternal Fetal Medicine (MFM) and Reproductive Endocrinology and Infertility (REI) have all done well this past year. Several of our academic faculty have received promotions including Dr. Peter Cheroury to professor, Dr. Elisabeth Wegner to associate professor, Dr. Cheung Wong to associate professor, and Dr. Elizabeth Bonney received tenure as an associate professor.

In the MFM Division, Dr. Eleanor Capless helped organize the annual meeting of the Northern New England Perinatal Quality Improvement Network; Drs. Marjorie Meyer and Peter Cheroury were featured speakers at the meeting. The American Institute for Ultrasound Medicine (AIUM) certified Perinatal Diagnostic Ultrasound Unit, under the direction of Dr. David Jones, performed approximately 6,000 obstetrical ultrasound studies during the past year. NIH funded research was performed by Drs. Ira Bernstein and Mark Phillippe; new clinical studies funded during the year included one by Dr. Meyer to investigate buprenorphine treatment of addicted pregnant women, and one by Dr. Jones to evaluate the utility of telemedicine for gynecologic ultrasound. In the REI Division, Dr. Christine Murray became the residency director and Dr. Peter Casson the director for the REI Fellowship Program. REI faculty and fellows presented multiple research abstracts at the Society for Gynecologic Investigation and American Society for Reproductive Medicine annual meetings. New clinical research projects included Dr. Julia Johnson’s evaluation of the effects of contraceptives pills and patch on coagulation, and Dr. Casson’s study of the effects of androgens on insulin production in postmenopausal women. Clinically, the REI faculty continued to have outstanding success with the treatment of infertile women and have expanded the IVF program into upstate New York.

The Gyne-Oncology Division has expanded its clinics into Central Vermont and Malone, New York. Drs. Wong and Emanuel Soltanakis provided educational programs for the general public, and continued their clinical and translational research. The Gynecologic Ultrasound Unit under the direction of Dr. Wegner continues to offer state-of-the-art gynecologic ultrasounds and consultations. The Vulvovaginitis Program under the direction of Drs. Tracey Maurer and Elizabeth Bonney remains very active at our Williston faculty office. Several of our faculty gynecologists including Drs. Robert Hayward and Maurer have joined Dr. Richard Kershen from Urology in the Fletcher Allen Continence Center, a multidisciplinary incontinence program that also includes neurologists, colorectal surgeons, urodynamic testing, and biofeedback training.

DEPARTMENT OF ORTHOPAEDICS AND REHABILITATION
CLAude E. Nichols III, M.D., CHAIR
The Department of Orthopaedics and Rehabilitation continues to move forward with its mission of education, research, and service. This past academic year marked a first for the department. The faculty were enthusiastic participants in the Connections section of the Vermont Integrated Curriculum. These activities, coordinated by Assistant Professor Suzanne E. Ames, M.D. were met with high approval by the second year class.

The Department was selected as a recipient of a Stryker Institutional Grant by the Stryker Corporation. This five year funding source will allow researchers in the department to continue with their work in total joint arthroplasty and trauma. Researchers in the sports medicine area were acknowledged by winning the O’Donoghue Award, given by the American Orthopaedic Society for Sports Medicine. This is the fourth time that UVM investigators have won this prestigious prize. The primary investigator for the paper, “Rehabilitation of the Knee Following Anterior Cruciate Ligament Reconstruction with a Bone-Patellar Tendon-Bone Autograft: A prospective, randomized, double-blinded comparison of accelerated versus delayed programs” was Bruce D. Beynnon, Ph.D.’91. The NIH-NIAMS grant “Training in Orthopaedic Science” continues with two post-doctoral students completing their research in the McClure Musculoskeletal Research Center.

In the service realm, members of the department participate as reviewers for National Institutes of Health Study Sections and continue to review for peer review journals. Faculty participates in American Academy of Orthopaedic Surgery and other subspecialty society committees.

This year marked the retirement of Robert J. Johnson, M.D. from the full time faculty. Dr. Johnson continues to remain active in the McClure Musculoskeletal Laboratory as a mentor for residents and junior faculty in addition to his research activities. James R. Slauterbeck, M.D. was successfully recruited from Texas Tech University to join the sports medicine section. Dr. Slauterbeck is the recipient of an Orthopaedic Research and Education Foundation Clinician Educator Grant to investigate gender differences in ACL remodeling.

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 their fields.

Teaching honors for department members included the AMWA Gender Equity Award—Nominees: Drs. Pam Gibson, Maureen

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Harmon, Masatoshi Kida, Brenda Waters; Foundations Teaching Award—Nominees: Drs. Hagen Blaszyk, Nicholas Hardin and John Lunde; Foundations Integration Award—For the faculty member whose teaching best captured the spirit of the VIC. Nominees: Drs. Nicholas Hardin, Hagen Blaszyk; The Silver Stethoscope—A.K.A “Inspirational Cameo of the Year” for the faculty member who had few lecture hours, but made a substantial contribution to your education. Winner: Dr. John Lunde. Nominees: Drs. Sharon Mount, Masatoshi Kida and Hagen Blaszyk; Above and Beyond—For the faculty member (not necessarily a lecturer) who went above and beyond the call of duty to help the students in their learning objectives. Winner: Dr. Masatoshi Kida. Nominee: Dr. Sharon Mount. Our faculty is strongly committed to teaching and continues to play an important role in the Vermont Integrated Curriculum.

Publications of note by department faculty members included Dr. Bosenberg’s in Cancer Cell; Dr. Russell Tracy’s in Arteriosclerosis, Thrombosis, and Vascular Biology; Dr. Taatjes in the Journal of Histochemistry and Cytochemistry; Dr. van der Vliet in the American Journal of Physiology; Dr. Janssen-Heininger in Molecular Cell Biology; and Dr. Mossman in Oncogene.

The research foci of the department continue to be Environmental Pathology and Cardiovascular Disease/Thrombosis.

New grant awards of note include: Cardiovascular Health Center; Russell Tracy; “Stress, Inflammation and Genetics of Human Longevity;” National Institutes of Health R01 Award; Yvonne Janssen-Heininger; “Redox-based Fas Signaling in Allergic Airway Disease;” National Institutes of Health R01 Award; Sally Huber; “Sex and Menopause in Myocarditis;” National Institutes of Health R01 Award; Albert van der Vliet; “Nitric Oxide Signaling in Allergic Airway Disease;” National Institutes of Health R01 Award/NCI; Marcus Bosenberg; “The Role of Beta-catenin Signaling in Malignant Melanoma.”

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 30,000 surgical pathology cases. We have recruited three new faculty members. Two joined our faculty this July. Michael Lewis M.D., who completed his hematology fellowship at the University of Utah and his gynecologic pathology fellowship at MD Anderson in Houston, has joined us as a hematopathologist with an interest in blood banking. Alexandra Kalof, M.D., has just completed a Surgical Pathology Fellowship at Stanford University and will be a surgical pathologist.

DEPARTMENT OF PEDIATRICS
LEWIS R. FIRST, M.D., CHAIR

The Department of Pediatrics continued its academic growth and development in academic year 2004-2005 as it reached new milestones in the areas of education research, clinical care, and advocacy. From a standpoint of medical education, our faculty continued their leadership role in the implementation of all four years of the Vermont Integrated Curriculum. We were proud that our Department was runner up this year for Department of Year and that we had residents and faculty nominated for teachers of the year. Within our department, Dr. Christa Zehle, our new hospitalist, was voted Clinical Teacher of the Year. Our Vermont Pediatric Summer Seminar sold out again this year, drawing participants from Vermont, New York, and more than 20 other states. Our faculty continued to sit in leadership positions on the National Board of Medical Examiners and the American Board of Pediatrics. Dr. William Raszka, our clerkship director, was elected president-elect of the Council of Medical School Education in Pediatrics, the national organization for all pediatric clerkship directors. Our residency program continued to draw a strong pool of students from all over the country, and we were equally delighted to see almost a quarter of the graduating class of 2005 match in pediatric residencies. Our educational publication track record remains strong with faculty continuing to be editors-in-chief of publications such as the journal Pediatrics, the newsletter AAP Grand Rounds, and this past year a new comprehensive textbook entitled Pediatrics that was co-edited and written by a number of faculty in our Department.

Our research agenda continued to grow this past year as well with grants and projects resulting in more than $5 million in research funding. Once again, our faculty and residents presented more than 20 presentations at the annual Pediatric Academic Society meetings held this past spring in Washington, D.C. Publications continue to emanate from faculty such as Dr. Barry Finnette for his work on somatic mutation frequencies and from the team from the Vermont Oxford Neonatal Network under the leadership of Dr. Jeffery Horbar. Our Vermont Child Health Improvement Program (VCHIP) led by Judy Shaw, RN,MPH, continued to expand its projects throughout the state in areas of Pediatrics, Family Medicine, Obstetrics and Gynecology and Psychiatry. The Pediatric Research in Office Settings (PROS) program of the American Academy of Pediatrics spearheaded nationally by faculty member Mort Wasserman, M.D., won the National Research Award at the Pediatric Academic Society meetings. Our focus on developing new clinical research networks expanded with the formation of an inflammatory bowel disease national network under the direction of Dr. Richard Colletti, and our Interdisciplinary Leadership for Health Professionals program directed by Steve Contompasis, M.D., continued its work in developing new strategies for coordinating care for children with special health needs throughout the state.
Our clinical activity continued to grow during the past year as we welcomed new specialty faculty including Dr. Michael D’Amico into our Division of Gastroenterology, Dr. Richard Salerno in our Division of Pediatric Critical Care, Dr. Kenneth Schroeter in our Division of Neonatology, and Dr. Jerry Larabee as Director of University Pediatrics, our on-campus primary care practice group within our Division of General Pediatrics. In the upcoming year, our Children’s Specialty Center will be moving from its temporary space into the new Ambulatory Care Center. This facility will provide us with state-of-the-art, child-friendly, family-centered care and enhance the programs and services we can provide through the Vermont Children’s Hospital at Fletcher Allen Health Care.

Finally, from an advocacy standpoint, students, residents and faculty continue to volunteer their services and work actively on numerous community outreach programs advocating for children and families throughout our region. As strong as the 2004-2005 academic year has been for our department, we look forward to continuing to improve the quality of health care we deliver to children and families as we further strengthen our academic mission in 2005-2006.

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 of Medicine and the University. Anthony Morielli, Ph.D. was promoted to associate professor with tenure, and Frances Carr Ph.D. was appointed Professor of Pharmacology with tenure. Dr. Morielli teaches medical, graduate and advanced undergraduate students, and his research focuses on cytoskeletal regulation of cellular excitability. Dr. Carr, as vice-president for research and dean of graduate studies, oversees the research mission and graduate studies of the University, and her research focuses on the thyroid gland. In the area of research, the department published approximately 43 peer reviewed articles in top biomedical journals. The department’s research effort was largely focused on understanding the function and dysfunction of the vascular and cerebrovascular systems. This research has provided fundamental new insights and new therapeutic modalities in the areas of urinary incontinence, cerebral vasospasm, regulation of vascular tone, and how computationally active neurons regulate regional blood flow in the brain.

Faculty members gave about 32 invited presentations at Universities and international symposia, and generated two Intellectual Property Patents. Extramural support increased substantially from the NIH, American Heart Association, private industry, National Kidney Foundation, and the Canadian Institutes for Health Research. The department continued to receive generous support from the Totman Medical Research Trust to support an interdepartmental research effort to understand cerebrovascular function and disease.

The department continued its high quality teaching and mentoring efforts to medical, graduate, and advanced undergraduates as well as to postdoctoral fellows. This effort included one-on-one mentoring in research laboratories, didactic lectures in Molecular and Cellular Pharmacology, Toxicology, and Medicinal Chemistry. The Pharmacology faculty taught in virtually all foundations courses in the Vermont Integrated Curriculum, and as well taught a Medical Summer Pharmacology course.

In the area of service, faculty members served on grant review committees for the NIH and the American Heart Association. Faculty members serve on numerous editorial boards, including for Circulation Research, Molecular Pharmacology, and the American Journal of Physiology. Departmental members support the College and University by serving and chairing on a number of committees, which guide the teaching and research missions of the College of Medicine and the University.

DEPARTMENT OF PSYCHIATRY
ROBERT PIERATTINI, M.D., CHAIR
Research in the Department of Psychiatry has been very active, with new and important developments in several areas. The Child Psychiatry Division has over twenty papers in press or review and will give four new research presentations, two symposia, and one institute at the upcoming Academy of Child and Adolescent Psychiatry meeting, including Dr. Jim Hudziak’s work on genetic and environmental contributions to various childhood disorders using a twin study methodology and Dr. David Rettew’s work on temperament and developmental psychopathology. Dr. Hudziak is president-elect of the American Psychopathological Association. Drs. Achenbach, McConaughy, and Dumenci published extensively and presented nationally and internationally on the use of the Achenbach System of Empirically Based Assessment, including its recent expansion into the assessment of adults and the elderly.

In the Center on Substance Abuse Research and Treatment Dr. Sarah Heil obtained NIH awards to study a new pharmacological treatment for opioid-dependent mothers and a behavioral therapy approach to promoting cessation from cigarette smoking. Dr. Stacy Sigmun published two articles on a new depot formulation of buprenorphine for treatment of opioid dependence that received national attention from major media and the National Institute on Drug Abuse. Dr. Stephen Higgins published a prestigious review in the Annual Review of Psychology in addition to a series of other articles and book chapters on behavioral treatments for substance abuse. He also obtained a five-year renewal of the group’s NIH institutional training grant (Training in Behavioral Pharmacology of Drug Abuse) that supports training of pre-doctoral and postdoctoral fellows in drug abuse research. Dr. John Hughes published a series of articles on cigarette smoking in highly-regarded journals such as JAMA and The American Journal of Psychiatry, and obtained a new NIH research grant to study barriers to treatment seeking among cigarette smokers and renewed his NIH senior scientist career development award.

The Clinical Neuroscience Research Unit has launched a Functional Brain Imaging Program under the direction of Dr. Paul Newhouse. The program, a first for the University of Vermont, was developed with strong collaboration from the Department of Radiology. Functional imaging will be used to study estrogen effects on brain activity, nicotinic effects in Attention Deficit Hyperactivity Disorder, and emotional changes in chronic pain. Also in this group, Dr. Magdalena Naylor was awarded an NIH grant to study Telephone Interactive Voice Response combined with cognitive behavioral therapy for chronic pain. Dr. Julie Dumas will present work on the cognitive effects of anticholinergic drugs at the 2005 Society for Neuroscience meeting. Dr. Alexandra Potter was awarded an NIH grant to study Attention Deficit Disorder and nicotine.

Psychiatry joined the VCHIP program to offer enhanced child psychiatry services and consultation to pediatrics practices, under the direction of Dr. Marlene Maron and Dr. Hudziak. The Psychiatry Service also entered a contract with the state of Vermont to provide clinical leadership and psychiatrists to the Vermont State Hospital.

Psychiatry hosted two major conferences this year. In October 2004, Drs. Higgins and Heil of the Center on Substance Abuse Research and Treatment hosted an NIH-sponsored research conference in Burlington on behavioral treatments for substance abuse. In May 2005, Dr. David Rettew directed “Child Psychiatry for the Primary Care Clinician,” a conference attended by over 120 people. Dr. Scott Waterman assumed the role of Associate Dean for Student Affairs at the college of Medicine. Dr. Hudziak was named to the Residency Review Committee for the American Psychiatric Association.

Among part-time clinical faculty, Dr. David Fassler serves as Trustee-at-Large of the American Psychiatric Association and on the Governing Council of the American Academy of Child and Adolescent Psychiatry. Dr. Janet Kahn has studied the effect of massage as an adjunct to the treatment of medical illness. Dr. Gayle Golden has continued to publish on sexual disorders.
DEPARTMENT OF RADIOLOGY

STEVEN P. BRAFF, M.D., INTERIM CHAIR

This past year has been an exciting one in the Department of Radiology. We are about to install an enterprise-wide Picture and Archiving System. This will allow us electronic connectivity throughout the hospital and regionally with all of our providers. This is a huge step forward for our Radiology Department and our institution. One of the first 64-slice per rotation multidetector CT scanners will be installed in our Emergency Department in September. A new flat panel state-of-the-art angiography unit is also about to be added.

In our Thoracic and Cardiovascular Imaging Section, together with the Department of Cardiology, we have co-recruited Dr. Timothy Christian, a world expert in cardiac MRI. He will be working with Drs. Curtis Green, Matt Watkins, and George Genthos who are involved in a new cardiac MR program. This cooperative effort between the Departments of Cardiology and Radiology will help to establish a new paradigm of interdisciplinary cooperation with both regional and national implications. Dr. Jeff Klein, Section Head of Thoracic Imaging, has been installed as president of the Society of Thoracic Radiology. Recently, Dr. Klein has been appointed associate dean for Continuing Medical Education at the College of Medicine.

The Division of Interventional Radiology has been working closely with the Divisions of Vascular Surgery and Cardiology on creation of a Vascular Center. It is expected that this center will be operational by the end of 2005. This will allow patients a single point of access at Fletcher Allen Health Care for all types of vascular problems and will also allow us to develop a uniform interdisciplinary and consultative approach to vascular disease with standardized therapy, follow up, and quality assurance mechanisms.

Our Section of Breast Imaging has initiated several clinical improvements to enhance procedures and advancements in productivity and new equipment in the past year. This includes establishing capability to perform diagnostic and high-risk screening breast MRI and MR-guided breast biopsy, as well as attaining 100% digital breast imaging and filmless interpretation with computer-aided diagnostic overreads. Additionally, wait times for patients to schedule screening mammograms have been reduced from three months in July of 2004 to less than two weeks currently at all three screening sites.

Our Neuroradiology Section has been joined by Dr. Christopher Filippi, an experienced neuroradiologist with expertise in neurofunctional imaging. Dr. Filippi is already involved in multiple projects in our department and in cooperation with the Department of Psychiatry utilizing our 3-Tesla MRI unit for advanced neurofunctional analysis. Our neurointerventional service under the direction of Dr. Todd Peebles continues to be active in aneurysm coiling, cerebral arteriovenous malformation, obliteration, and, in concert with our multidisciplinary stroke team, intra-arterial stroke thrombolysis is available when indicated.

Dr. Janice Gallant, of the Pediatric Radiology Section, continues to devote a great deal of her time to medical student education. She was recognized as the Clinical Science Teacher of the Year by the students from the Class of 2005. She won their overwhelming respect and affection as a teacher who is skilled in content, in style and methods, and as one who really cares about their success. Dr. Gallant was also instrumental in the development of the Vermont Integrated Curriculum at UVM.

DEPARTMENT OF SURGERY

STEVEN SHACKFORD, M.D., CHAIR

The Department of Surgery continued to flourish and to grow during the academic year 2004-2005. Faculty members were added to the Divisions of Otolaryngology and Ophthalmology. Four new clinical programs were initiated. A Voice Center, under the direction of Dr. Damon Silverman, was initiated to treat speech and voice disorders. A Continence Center was developed in collaboration with the Divisions of Urology and General Surgery. The Division of Neurosurgery initiated a program of stereotactically-assisted deep brain stimulation, headed by Dr. Paul Penar, for the treatment of movement disorders, such as Parkinson’s disease. The Division of Trauma developed a bedside procedure initiative under the guidance of Dr. Fred Rogers. This initiative allows some procedures, such as tracheostomies and gastrostomies, to be performed in the Intensive Care Unit. This has facilitated the care of critically ill patients.

The Department continues to have an active clinical and basic science research program. During the past year, members of the Division of Surgical Oncology led a multicenter surgical trial comparing sentinel lymph node biopsy to axillary node dissection in early breast cancer. This international trial completed patient accrual during the last year and is the largest Phase III Surgical Trial ever completed.

During the past year, members of the Department participated in medical missions to Peru, Nepal and Haiti.

The Department continues to receive regional and national recognition. Dr. Neil Hyman was the Commencement Speaker for the College of Medicine graduating...
Class of 2005. Dr. David Weinberg was elected president of the New England Oculoplastic Society. Dr. Andy Stanley chaired the Program Committee for the New England Vascular Society. Dr. Robert Sofferman completed a five-year term as senior board examiner for the American Board of Otolaryngology. Dr. James Hebert received the Distinguished Service Award from the National Board of Medical Examiners and Dr. Steven Shackford was elected president of the American Association for the Surgery of Trauma.

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 41 years and is up for its five-year review in 2005. 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 51 active protocols involving investigators from all departments in the College of Medicine. The investigators conducting these studies generate approximately substantial funding annually to support studies which could not be conducted anywhere other than on the GCRC. This year, five new CReFF awards were made to clinical investigators to stimulate research and to help obtain preliminary data for extramural funding. To support these studies, the GCRC itself receives annual funding from the NIH of $2,500,000. 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
BRIAN 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 records all mammography performed in Vermont, and links these reports to pathology and cancer registry data for individual women. The VBCCS is one of six 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 studies addressing colorectal cancer screening participation among low education adults and breast cancer screening behavior among breast cancer survivors.

Our group is conducting a multi-state test of theory-based mass media campaigns to reduce youth cigarette smoking. John Worden is principal investigator and project leader for assessment of strategies to reach young audiences through radio and television messages; Brian Flynn is leader for assessment of message impact on smoking prevalence; and Laura Solomon is evaluating impact of cessation messages on adolescent smokers. A similar project addresses adolescent marijuana use prevention.

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

Dr. Craig Trumbo 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 pre-school children in child care programs.

Members of the group participate in scientific peer review committees and serve as advisors and leaders for public health activities in Vermont and for national programs. Drs. Flynn and Marcy serve on the state's oversight board for tobacco control programs; Dr. Solomon serves on the scientific advisory panel for this program. Active engagement with scientific peer review and public health practice contributes to the relevance of our work.

VERMONT CANCER CENTER
DAVID VANDELL, SC.D., DIRECTOR
Founded in 1974, the Vermont Cancer Center (VCC) at the University of Vermont continued its tradition of leadership in the fight against cancer through the year 2005. One of a prestigious group of comprehensive cancer centers designated by the National Cancer Institute (NCI), VCC unites over 100 clinicians and scientists from departments of the College of Medicine and other colleges and schools of the University. Together, they design and carry out multidisciplinary approaches to cancer research, prevention, and patient care 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. VCC members receive individual investigator grants from the NCI, National Institutes of Health, National Science Foundation, and other sources. VCC researchers are focused in four major programs. Some work to understand how cancer begins and progresses, by learning more about DNA. Others try to elucidate the differences between normal cells and cancer cells by exploring critical cell signaling "switches" and "checkpoints." A third group focuses on patient care, developing and testing new cancer treatment options. A fourth group explores ways to help people adopt healthier lifestyles that reduce cancer risk.

Some of this year's highlights came from Drs. Susan Wallace and Sylvie Doublié; they published a human DNA repair enzyme structure in the Proceedings of the National Academy of Sciences. Dr. Hyman Muss found that healthy older breast cancer patients who underwent stronger chemotherapy had similar reductions in recurrence and lived as long as younger patients; the work was published in the Journal of the American Medical Association. A Cancer Research article co-authored by Dr. Barry Finette on the effect of chemotherapy in children with acute lymphocytic leukemia was selected for Elsevier Science's Year Book of Oncology. The laboratory of Dr. Brooke Mossman identified genes induced in the lungs of mice after the inhalation of the carcinogen asbestos.

VCC continued to play an important role in educating the community about cancer prevention and care. VCC executive committee members Drs. Dennis Sanders, Mark Plante, and James Wallace III began participating in a Vermont Department of Health-sponsored coalition to develop a statewide cancer plan. Drs. Susan Burdette-Radoux, Steven Grunberg, Lawrence McCaighill, Julie Olin, and Deborah Ornstein appeared on a cancer education television series. In recognition of "Skin Cancer Awareness Month" in May, VCC and campus partners offered a conference for melanoma survivors, an activity booth at the Kids Day celebration in Burlington, and a prevention seminar. For cancer professionals, VCC presented two conferences: "The Course of Cancer: From Transformation to Treatment“ and “Highlights of the American Society of Clinical Oncology.”
PUBLICATIONS


SPEAKING ENGAGEMENTS & AWARDS

Matthew Rand, PhD, received an R21 grant to study “Methymercury Toxicity in Neural Development.”

Susan Wallace, PhD, is the principal investigator on a program project grant to study the “Structure, Function, & Evolution of DNA Repair Enzymes.”

The Family Practice Residency Training Grant from HSRA was renewed for the 2003-2006 cycle under the direction of John King, MD, focusing on maternal and child care for diverse and underserved populations.

Bruce D. Beynnon, PhD, is principal investigator on an R01 grant studying “The Relationship Between Biomarkers of Cartilage Metabolism and Osteoarthritis.”

Russell Tracy, PhD, received an R01 grant to study “Epidemiology of Vascular Inflammation and Atherosclerosis.”

Marcus Rosenberg, MD, PhD, received an R01 grant to study “The Role of Beta-catenin Signaling in Malignant Melanoma.”
GIVING TO THE COLLEGE OF MEDICINE

Success in the four areas of the College of Medicine’s mission would never be possible without the consistent support of the many alumni, students, parents, faculty, staff, and friends of the school. During fiscal year 2005 (July 1, 2004 – June 30, 2005) more than 4,000 people, organizations, and companies made gifts and pledges to the College. All told, nearly $12 million in philanthropy was given to the College.

The College’s fundraising is an integral part of the ongoing Campaign for the University of Vermont, a five-year effort with a $250 million goal. As of the end of fiscal year 2005 this summer, the University had raised $197 million toward this goal; the College’s campaign giving represented $66.8 million of this total.

HELPING TO CREATE NEW SPACE FOR THE NEXT GENERATION

The new Medical Education Center gives students and faculty the kinds of up-to-date spaces that provide the proper settings for the elements of the Vermont Integrated Curriculum. As Carleton Haines, a graduate of the Class of 1943 put it when reviewing plans for the building: “You need 21st Century space to teach 21st Century medicine.”

These spaces include fifteen small-group classrooms that are outfitted with the latest videoconferencing technology to allow teaching and sharing of information in a multitude of different configurations. Here groups of students can engage in case-based discussions, sometimes linked to groups in other rooms. Through the large flat panel display in each of the rooms, groups can connect to microscopy labs, and view specimen demonstration labs via video feed from the wet specimen lab in Given.

In recognition of their support for the Dean’s Strategic Initiatives Fund, these generous donors have had rooms in the Medical Education Center named in their honor:

- Raymond J. Anton, MD’70
- Patricia A. Fenn, MD’65
- Mary and John R. Fitzgerald, MD’55
- S.T. Griswold & Co.
- Josephine & Carleton P. Haines, MD’43
- Frances & Gerald L. Haines, MD’44
- Marguerite & Peter C. Haines, MD’79
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- Ralph N. Sargent, III
- Ruth A. Seeler, MD’62
- The Sheraton Burlington Hotel and Conference Center
- Howard D. Solomon, MD’71
- Marjorie Topkins, MD’50

Members of the Fitzgerald family, along with members of the UVM and local community, toured the classroom named in the Fitzgeralds’ honor this August. At right, John R. Fitzgerald, M.D.’55. At left, Assistant Professor of Anesthesiology Joseph R. Fitzgerald, M.D.’92, and Mary Fitzgerald, his mother.
MEDICAL IRA ALLEN SOCIETY UVM’s Ira Allen Society is named in tribute 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 commitments of $1,000 or more in fiscal year 2005 (July 1, 2004–June 30, 2005) 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 as members of the Medical Ira Allen Society, the cornerstone of our private individual support.

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FISCAL YEAR 2005—JULY 1, 2004-JUNE 30, 2005
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- Boeing Company
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Class of 1957 67%
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Class of 1962 $369,608
Class of 1955 $111,550
Class of 1980 $97,992
Class of 1965 $77,234
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**Agent**

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**IRA ALLEN SOCIETY**

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**Contributors**

<table>
<thead>
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<th>Contributors</th>
</tr>
</thead>
<tbody>
<tr>
<td>1942</td>
<td>Gino Aldo Dente, Jeffrey P. Wiedeman, John Thomas Wright</td>
</tr>
<tr>
<td>1946</td>
<td>Phillip H. Backup, J. Bishop McGill</td>
</tr>
<tr>
<td>1951</td>
<td>James Edgar Downs, Virginia H. Donaldson, Lawrence B. Ahrens</td>
</tr>
<tr>
<td>1953</td>
<td>Marvin Garrell, Theodore H. Goldberg, Cornelius O. Granai, Jr., Marten J. Kowalewski, Arthur S. Kunin</td>
</tr>
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</table>

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**Participation**

<table>
<thead>
<tr>
<th>Year</th>
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</tr>
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<tbody>
<tr>
<td>1935</td>
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</tr>
<tr>
<td>1937</td>
<td>70%</td>
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**Total**

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<td>1941</td>
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<td>1942</td>
<td>$11,500</td>
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<tr>
<td>1951</td>
<td>$17,300</td>
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<td>1953</td>
<td>$9,525</td>
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**Agent**

<table>
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<tr>
<td>1935</td>
<td>John S. Poczubat</td>
</tr>
<tr>
<td>1937</td>
<td>Robert E. O'Brien</td>
</tr>
<tr>
<td>1938</td>
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<td>$17,300</td>
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<td>$9,525</td>
</tr>
</tbody>
</table>
**IRA ALLEN SOCIETY**

### 1957

**IRA ALLEN SOCIETY $1,000+**
- Dudley M. Baker
- Larry Coletti
- Daniel G. Fischer
- John A. M. Hinman, Jr.
- David I. Hirsch
- Sharon Lee Hostler
- Jamie J. Jacobs
- John P. Keane
- George A. Little
- Paul B. Stanonis

**CONTRIBUTORS $1–$999**
- William Edward Allard, Jr.
- Sanford Bloemberg
- Edward A. Kupic
- Edward R. Mulcahy

### 1958

**IRA ALLEN SOCIETY $1,000+**
- Eugene M. Beaupre
- Peter J. Bartelloni
- Robert L. Blais
- Robert C. Delan

**CONTRIBUTORS $1–$999**
- Leonard M. Bixby
- Peter A. Goodhue
- Peter B. Webber

### 1959

**IRA ALLEN SOCIETY $1,000+**
- Americo B. Almeida
- Virginia Lee Ault
- Lewis Robert Dan
- Edward R. Roaf

**CONTRIBUTORS $1–$999**
- Laurence M. Bixby
- John B. Laflue
- H. Randall Deming
- Robert C. Delan

### 1960

**IRA ALLEN SOCIETY $1,000+**
- Arthur J. McPadden, Jr.
- John F. Dick, II
- Irving G. Poyser
- Mildred Ann Reardon
- Francis Roland Saccot
- Christopher M. Terrien, Jr.

**CONTRIBUTORS $1–$999**
- William Edward Allard, Jr.
- Sanford Bloemberg
- William A. O'Rourke, Jr.
- Donald P. Miller

### 1961

**IRA ALLEN SOCIETY $1,000+**
- Wilfrid L. Fortin
- Robert L. Blais
- Robert C. Delan

**CONTRIBUTORS $1–$999**
- Richard E. Roaf
- Willis E. Hine
- Peter A. Goodhue

### 1962

**IRA ALLEN SOCIETY $1,000+**
- John R. Dooley
- Donald Thomas Evans

**CONTRIBUTORS $1–$999**
- Stuart Donald Cook
- Daniel G. Fischer
- Robert L. Blais

### 1963

**IRA ALLEN SOCIETY $1,000+**
- John B. Burns

**CONTRIBUTORS $1–$999**
- Joseph R. Jurkoic
- Charles R. Brinkman, III
- Daniel G. Fischer

### 1964

**IRA ALLEN SOCIETY $1,000+**
- Anthony P. Bellmont

**CONTRIBUTORS $1–$999**
- George A. Little
- John F. Dick, II
- Irving G. Poyser
- Mildred Ann Reardon
- Francis Roland Saccot
- Christopher M. Terrien, Jr.

### 1965

**IRA ALLEN SOCIETY $1,000+**
- Marlene Ann Aldo-Benson

**CONTRIBUTORS $1–$999**
- Stuart Donald Cook
- Daniel G. Fischer
- Robert L. Blais
- Daniel G. Fischer

### 1966

**IRA ALLEN SOCIETY $1,000+**
- Fredric I. Fagelman
- Richard Jay Falk
- Ellen Mansell
- Leonard James Swaner

**CONTRIBUTORS $1–$999**
- Joseph R. Beauregard
- Chester J. Boulits
- Gilbert P. Connelly
- Sumner Lein Fishbein
- Joseph A. Guzzetta
- Richard H. Landesman
- Raymond F. Macinons
- Earl F. Nielsen
- Douglas P. Norman
- Jeffrey J. Pomerance
- Robert George Sellig
- G. Millard Simmons

### 1967

**IRA ALLEN SOCIETY $1,000+**
- Donald A. Benyon
- Richard A. Alexander
- Jeffrey L. Black
- Norman M. Bress
- Ursul Danielson
- Paul Henry Dumdey
- Virginia Barnes Grugean
- Benjamin Arthur Kropsky

**CONTRIBUTORS $1–$999**
- Stuart Donald Cook
1968 IRA ALLEN SOCIETY $1,000+
William N. Thibault
Duane C. Record
Roger K. Pitman
Wilfrid L. Pilette
Stephen W. Munson
Raymond A. Maddocks
David G. King
David P. Hebert
John F. Healy
Daniel B. Clarke
James David Cahill
David A. Byrne
John F. Dick

1969 IRA ALLEN SOCIETY $1,000+
George F. Baron
Ronald J. Failer
Charles B. Howard
Joseph M. Lenahan
Susan Wesoly Pitman Lowenthal

CONTRIBUTORS $1–$999
David A. Byrne
James David Cahill
Daniel B. Clarke
Frederick S. Cramer
William J. Driscoll, III
Peter A. Felder
Steven N. Firestone
John F. Fealy
David P. Hebert
David G. King
Robert S. Kramer
Raymond A. Maddocks
Stephen W. Munson
Wilfred L. Pilette
Roger K. Pitman
Duane C. Record
William N. Thibault
Participation . . . . . .49%
Total . . . . . . . . . . . . . $9,975
Agent . . . . . . . . . . . . . John F. Dick

1970 35-Year Reunion IRA ALLEN SOCIETY $1,000+
Raymond Joseph Anton
John F. Beams, Jr.
Alan B. Buldyks
J. Michael DeCenzo
Vincent A. Decearis
William A. Fajman
Richard M. Faraci
Jeffrey C. Morse
Joel H. Mumford
Andrew D. Parent
Norman Jay Snow

CONTRIBUTORS $1–$999
Michael Bruce Andorsky
Edward Norman Bailey
Philip Miles Butтараволи
Christopher R. Fiory
Eugene F. Fuchs
Thomas J. Grady
Theodore H. Hanwood, Jr.
David Carl Hinsman
Peter D. Heden
Darrel L. Rasmussen
Arthus J. Sakowitz
Steven H. Sherman
Thomas L. Soule
David C. Staples
Daniel Carl Sullivan
Joel P. Sussman
Norman F. Tremblay
Louis Vito, Jr.
W. James Young
Participation . . . . . .55%
Total . . . . . . . . . . . . . $44,926
Agent . . . . . . . . . . . . . . . John F. Dick

1971 IRA ALLEN SOCIETY $1,000+
James A. Brennan
Robert J. Englund
Paul F. Hoar
Wallace N. Hubbard
Philip A. Levin
Carol Collins Little
Wayne E. Pasanen
Jeffrey Warren Rubman
Richard D. Skilken
Howard D. Solomon

CONTRIBUTORS $1–$999
Alan R. Alexander
Alan D. Ayer
David John Bishop
Roy V. Erickson
William V. Fitzpatrick
Leo Charles Ginsberg
Stuart M. Graves
John Charles Lepage
Donald L. McGuirk, Jr.
Donald B. Miller, Jr.
James Vincent Morgan
Richard Allen Moriarty
William M. Nolts
Bruce Berner Shafiroff
Barbara Wokwok Steenberg
Richard L. Teixeira
Participation . . . . . .44%
Total . . . . . . . . . . . . . $36,180
Agent . . . . . . . . . . . . . . . . . John F. Dick

1972 IRA ALLEN SOCIETY $1,000+
Joseph Charles Benedict
F. Farrell Collins, Jr.
Donald Scott Murinson
John J. Orendorff
H. David Reines
James F. Shaw

CONTRIBUTORS $1–$999
John E. Bassett
Robert A. Bonanno
James H. Bress
Adrene Buech Butler
John E. Butler
David M. Coddaire
Alan D. Covey
Mark L. Dubay
John H. Elliott
Alan Brian Feltmarch
William F. Fitzpatrick
Leo Charles Ginsberg
Stuart M. Graves
John Charles Lepage
Donald L. McGuirk, Jr.
Donald B. Miller, Jr.
James Vincent Morgan
Richard Allen Moriarty
William M. Nolts
Bruce Berner Shafiroff
Barbara Wokwok Steenberg
Richard L. Teixeira
Participation . . . . . .44%
Total . . . . . . . . . . . . . $36,180
Agent . . . . . . . . . . . . . . . . . John F. Dick

1973 IRA ALLEN SOCIETY $1,000+
Ralph Stephen Albertini
James A. Mattox
Philip L. Cohen
Edward John Collins, Jr.
Russell Paul Davignon
Phillip Harland Deos
Merrill Hugh Epstein
Paul F. Hoar
Philip L. Cohen
Jeffrey Stockwell Allen
Thomas P. Clairmont, Jr.
Douglas M. Eddy
Albert Joseph Hebert, Jr.
Keith R. Hillier
Stephen M. Hochstien
Wilfred F. Hodges
Dennis Sherwin Krauss
Richard P. Lampert
William M. Menza
Kathleen Marie Meyer
Richard Janney Miller
Joseph Michael Monaco
Betty Jo Morwood
David Alan Novis
Constance Marianne Passas
Frederick Michael Perkins
John Arthur Persing
Peter David Rappo
Roger Alexander Renfrew
Virginia Palmer Riggs
Timothy N. Rowland
John Robert Sauzier
James K. Wallman
William Brooks Ware
Participation . . . . . .49%
Total . . . . . . . . . . . . . $17,272
Agent . . . . . . . . . . . . . . . . . . . John F. Dick

1974 IRA ALLEN SOCIETY $1,000+
Denise E. Duff
Richard Louis Gamelli
James F. Howard, Jr.
Thomas J. Laphaca, Jr.
Thomas J. Myers
Jay G. Stearns

CONTRIBUTORS $1–$999
Jeffrey Stockwell Allen
Thomas P. Clairmont, Jr.
Douglas M. Eddy
Albert Joseph Hebert, Jr.
Keith R. Hillier
Stephen M. Hochstien
Wilfred F. Hodges
Dennis Sherwin Krauss
Richard P. Lampert
William M. Menza
Kathleen Marie Meyer
Richard Janney Miller
Joseph Michael Monaco
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Constance Marianne Passas
Frederick Michael Perkins
John Arthur Persing
Peter David Rappo
Roger Alexander Renfrew
Virginia Palmer Riggs
Timothy N. Rowland
John Robert Sauzier
James K. Wallman
William Brooks Ware
Participation . . . . . .49%
Total . . . . . . . . . . . . . $17,272
Agent . . . . . . . . . . . . . . . . . . . John F. Dick

1975 30-Year Reunion IRA ALLEN SOCIETY $1,000+
R. Jeffrey Bergquist

CONTRIBUTORS $1–$999
Robert Wolcott Backus
Don P. Chan
Richard Mason McNeeter, III
M. Jonathan Mishcon
William Ward Pendlebury
Matthew Robert Zetumer

1976 IRA ALLEN SOCIETY $1,000+
Thomas Patrick Barry
John Thomas Baucher
John Thomas Bowers, III
Bruce Row Brown, Jr.
S. Kent Callahan
Anita Feins
Michael Lawrence Gerrity
Daniel Barry Guibert
Kevin Christopher Kelley
Steven Lampert
Nancy Cather Lathrop
Ronald Michael Lechan
Helen Looser
George Edward Maker
William G. Muller FACP
Ralph Angus Nixon, Jr.
David Truxal Noyes
Bonita Ann Palmer,
Robert C. Parke
William B. Patterson
David Alan Paulus
Doris Croisetiere Pinck
David Lewis Potash
Gary Michael Pratt
Eric Jay Reines
Lee Howard Rome
Mitchell Dennis Shub
R. Bruce Smith
Henry Roger Vaillancourt
Jon Winston Way
Peter D. Wilk
Participation . . . . . .49%
Total . . . . . . . . . . . . . $14,058
Agent . . . . . . . . . . . . . . . . . . . John F. Dick

* indicates deceased
FISCAL YEAR 2005—JULY 1, 2004-JUNE 30, 2005

1977

IRA ALLEN SOCIETY

$1,000+

Mary L. Davis
William Anthony DeBassio
Allan Freedman
William P. Gifford
Louise Beckwith Godine
David P. Granger
A. Howard Hartley
James Charles Hebert
James F. Leland
Scott Jay MacDonald
Brian D. Mahoney
Della M. Maninney
Aryeh Shander

CONTRIBUTORS

$1–$999

Jonathan Brewster Hayden
Anne D. Ehrlich
Nancy MacFarlane Collins
John Joseph Ambrosino
John Edward Alexander

$1,000+

IRA ALLEN SOCIETY

Mark H. Beers
David Louis Castellone
Helaine Wolpert Dietz
Linda Hood
Gary E. Kahan
Michael Robert Saxe

CONTRIBUTORS

$1–$999

Andrew Seth Weimer
Frederick B. Rogers

Participation .................................. 44%
Total ........................................... $30,995
Agent ........................................... Craig W. Gagne

Richard Bruce Wait, PhD
John William McGill
Anthony J. Kazlauskas
Cheryl Luise Davis

1979

IRA ALLEN SOCIETY

$1,000+

Peter Carleton Haynes
Courtland Gillett Lewis
Sarah Ann McCarty
Sally Shulman Rosengren

CONTRIBUTORS

$1–$999

Joseph Bayes
Anne A. Brewer
John Thomas Britton
Andrew C. Chester
Christina Cythia
Stephen Anthony Dolan
Robert James Dray, Jr.
Daniel Mahler Foley
William Gerard Gaidys
Mark Francis Graziano
Robert Healy Harrington, Jr.
Thomas Alfred Harrington, Jr.
James Nelson Jarvis
David Denieron Jones
Gary Allan Keller
Roger S. Lash
Dave E. Lounsbury, FACP
George Alden Manchester
Ralph Andrew Manchester
Laurence Francis McMahan, Jr.
Stephen Donald Rioux
Alan Scott Rogers
Donald Arthur Smith
Laurie Jean Woodard
Martha A. Zeiger

Participation .................................. 49%
Total ........................................... $40,500
Agent ......................................... Mark P. Popovsky

1981

IRA ALLEN SOCIETY

$1,000+

Emest M. Bove
Paul Rutter Cain
Craig W. Gage
Bruce Jason Leavitt
Betsy Lee Sussman
George W. Weightman
George P. White, Jr.

In Memory of
David Kenneth Maccioci
Martha Field McCarty
David Kenneth Murdock
James M. Worthington

CONTRIBUTORS

$1–$999

John R. Anton
Robert Jean Carbonneau
Thomas Francis Certo
Joseph B. Quinn

Participation .................................. 50%
Total ........................................... $97,992
Agent ........................................... Richard N. Hubbell

1978

IRA ALLEN SOCIETY

$1,000+

Michael William Abajian
Andrew Jay Arison
Cheryl Louise Davis
John Henry Healey
Peggy H. Howrigan
Anthony J. Kazlauskas
John William McGill
Michael David Poliakke
Richard Grove Wall, PhD

CONTRIBUTORS

$1–$999

John Edward Alexander
John Joseph Ambrosino
Nancy MacFarlane Collins
Max Linus Crossman
Judith Ann Crowell
Sherry Anne Dickstein
Anne D. Ehrlich
Jonathan Brewster Hayden
Anne Heywood Haydock

1980

25-Year Reunion

IRA ALLEN SOCIETY

$1,000+

Michael Evans Berman
Martin Larry Black
Joseph James Campbell, Jr.
Peter Allen Dale
Steven Michael Davis
Barbara Bittner Heubehin
Richard Nicholas Hubbell
Kathryn Lucinda Moyer
Johnathan Joseph Nunnink

CONTRIBUTORS

Stuart N. Rice
Robert A. Ruben
Howard Marc Schapira

Participation .................................. 44%
Total ........................................... $30,995
Agent ........................................... Craig W. Gagne

1982

IRA ALLEN SOCIETY

$1,000+

Mark H. Beers
David Louis Castellone
Helaine Wolpert Dietz
Linda Hood
Gary E. Kahan
Michael Robert Saxe

CONTRIBUTORS

$1–$999

Victor William Acquista
Kevin Paul Andrews
Jay P. Burns
Margaret H. Burnouffs
Charles Edward Clark, Jr.
Joseph Edward Corbett, Jr.
James I. Crouser, Jr.
Jamie Lisa Gagan
Liset M. Hanson
Robert D. Harris
Jane T. Horton
Peter H. Krauss
Daniel Michael Maccioni
Martha Field McCarty
David Kenneth Murdock
Terence Dwight Naumann
Robin P. Pritham
Wendie M. Puls
David Lucien Roy
Fredric Paul Schlussel
Priscilla Shube
Roderic Ellis Tinney
George W. Weightman
George P. White, Jr.

In Memory of
David Kenneth Maccioci
Martha Field McCarty
David Kenneth Murdock
James M. Worthington

CONTRIBUTORS

$1–$999

John R. Anton
Robert Jean Carbonneau
Thomas Francis Certo
Jocelyn D. Chertoff
Robert B. Cochran
Mark Stephen Cooper
Joseph John England
George Christian Field
Thomas Freund
Thomas M. Frey
Charles Labe Garbo
Jay H. Garden

In Memory of
Harold James Henningsen
Theodore F. Logan

Participation .................................. 35%
Total ........................................... $15,972
Agent ........................................... Linda Hood

1983

IRA ALLEN SOCIETY

$1,000+

Robert J. Campbell
Robert M. Coughlin
Frederick Hong
Joseph Charles Kvedar
Robert Paul Lafleur

CONTRIBUTORS

$1–$999

Robert A. Baldor
James E. Bane
Gwen Marie Bogacki
Ross Alan Dikstra
Morris Earle, Jr.
Katherine Barrett Frantzi
Ronald C. Hartfield
Edward S. Horton, Jr.
Steven E. Klein
Daniel Wilder Larrow
Frank William Lavoe
James Stephen Limanek
Lynn M. Lugubuhl
Stanley J. Miller
Howard H. Mizrahi
Rosanna Trabucco Musselman
Michael R. Narkiewicz
John J. Orloff
Fortunato Procopio
Robert R. Quimby
Bennett K. Schwartz
Mark S. Siskind
Jay Sokolow
Richard S. Sprague, Jr.
Mark Turofski
Thomas P. Whelan
Jeffrey A. Zesiger

Participation .................................. 37%
Total ........................................... $12,675
Agent ........................................... Anne Marie Massucco

1984

IRA ALLEN SOCIETY

$1,000+

Neil H. Hyman
Richard R. Riker
Katherine Limanek Sheline
Richard C. Shumway
Donald L. Weaver

CONTRIBUTORS

$1–$999

Roland E. Baker
Robert Brick Campbell
Charles Joseph Cathcart
Jay P. Colletti
Jeffrey McMillan Darrow
Aleta J. Drummond
Jonathan D. Glass
Pushpa Lall Goss
Alan S. Katz
Debbie A. Kennedy
Stuart Charles Law, Jr.
Stephen C. Mann
John F. Monroe
Susan Elaine Pories
Patricia M. Pratt
Audrey L. Richards
Jose M. Samson
Leonard H. Shaker
Harriett Meyer Shea
Anthony R. Turi, Jr.
Heiko Uustal
Gary Lee York

Participation .................................. 24%
Total ........................................... $11,555
Agent ........................................... Richard C. Shumway

1985

20-Year Reunion

IRA ALLEN SOCIETY

$1,000+

Stephen Scott Ehrlich
Suzanne Gay Frisch
Vito D. Imbasciati
Seth Lawrence Krauss
Jonathan David Levine
Katherine Stoddard Pope
Lynn Ann Rogers
Elizabeth Anne Seward
Howard J. Silverstein
Roger S. Virgile
James Kevin Wolcott
## Fiscal Year 2005—July 1, 2004-June 30, 2005

### IRA Allen Society

<table>
<thead>
<tr>
<th>Year</th>
<th>Contributions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1995</td>
<td>$1,000+</td>
</tr>
<tr>
<td>1996</td>
<td>$1,000+</td>
</tr>
<tr>
<td>1998</td>
<td>$1,000+</td>
</tr>
<tr>
<td>1999</td>
<td>$1,000+</td>
</tr>
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</table>

### Young Alumni Patrons

<table>
<thead>
<tr>
<th>Year</th>
<th>Range</th>
<th>Contributions</th>
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<tbody>
<tr>
<td>1995</td>
<td>$250–$999</td>
<td>$1,275</td>
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<tr>
<td>1996</td>
<td>$250–$999</td>
<td>$1,180</td>
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<tr>
<td>1998</td>
<td>$250–$999</td>
<td>$1,290</td>
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<tr>
<td>1999</td>
<td>$250–$999</td>
<td>$1,175</td>
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</tbody>
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### Contributors

<table>
<thead>
<tr>
<th>Year</th>
<th>Range</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1995</td>
<td>$1–$249</td>
<td>Lisa Marie Belisle</td>
</tr>
<tr>
<td>1996</td>
<td>$1–$249</td>
<td>Melissa Carol Volansky</td>
</tr>
<tr>
<td>1998</td>
<td>$1–$249</td>
<td>Anne Marie Valente</td>
</tr>
<tr>
<td>1999</td>
<td>$1–$249</td>
<td>Amy Louise Belisle</td>
</tr>
</tbody>
</table>

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* * indicates deceased
SCHOLARSHIPS  We are grateful to the supporters of the following funds which provided assistance to medical students at the University of Vermont College of Medicine during the 2004-2005 academic year.

Benjamin Adams MD ’1909 Loan Fund  
Elice M. Alger MD ’93 Memorial Scholarship Fund  
Donato Anthony Astone, MD ’24 Medical Endowed Scholarship Fund  
Aline & Richard H. Bailey, MD ’55 Medical Scholarship  
George P. Baron, MD ’69 & 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 & 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. Boyce, MD ’53 Medical Scholarship  
Moses D. Carbee Scholarship  
Don P. Chan, MD ’76 Medical Scholarship Fund  
Lewis Chester MD ’38 Medical Scholarship Fund  
Class of 1976 Scholarship Fund  
Leo C. Claus Scholarship  
The Edward J. Collins, Jr., MD ’73 Medical Scholarship  
Jack & Gertrude Cooper Scholarship Fund  
Edward B. Crane, MD ’47 Medical Scholarship  
Gino Dente, MD ’41 Medical Scholarship Fund  
The Harland M. Dees, MD ’43 Memorial Medical Scholarship  
Dwight C. Dyette Fund  
Harriet Dusen MD ’44 Scholarship Fund  
Wiley Ely Scholarship  
George Emery Scholarship  
John W. & John Seeley Estabrook MD ’33 Fund  
Edward Vincent Farrell MD ’10 Scholarship Fund  
Patricia Fenn, MD ’65 Medical Scholarship Fund  
Finance Authority of Maine  
Flynn Memorial Fund  
Freeman Foundation  
The Richard L. Gamelli, MD ’74 & Mary C. Gamelli Medical Scholarship  
Amos Ginn Medical Scholarship Fund  
Alan Godfrey MD ’27 & Helen Godfrey Scholarship Fund  
The Margaret S. & Manfred I. Goldwein, MD ’54 Memorial Scholarship Fund  
Peter A. Goodhue, MD ’58 Down East Medical Scholarship Fund  
James Roby Green, MD ’70 Scholarship Fund  
Harold Haskel MD ’21 Scholarship  
Edward Hawes Scholarship  
John H. Healey, MD ’78 Medical Scholarship Fund  
The Mary Ellen S. & James C. Hebert, MD ’77 Medical Scholarship Fund  
Charles Howard MD ’69 & Edith Howard Medical Student Aid Fund  
Edith & Charles B. Howard, MD ’69 Medical Scholarship Fund (I)  
Edith & Charles B. Howard, MD ’69 Medical Scholarship Fund (II)  
The Harry E. Howen, MD ’52 & Theo O. Howe Endowed Scholarship Fund  
Perley A. Hoyt, MD Scholarship Fund  
Robert W. Hyde, MD Medical Scholarship Fund  
Simon & 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 & Bessie Ladeau Trust  
Austin W. Lane MD ’21 & Janet C. Lane Scholarship Fund  
Robert Lamer MD ’42 Loan Fund  
Aldo J. Leani MD ’34 Scholarship Fund  
William H. Luginbuhl MD Scholarship Fund  
John VanSickle Maack MD ’39 Scholarship Fund  
Bruce R. MacKay, MD ’57 Medical Scholarship Fund  
Maine Medical Association  
P.E. McSweeney Scholarship  
Michael J. Meyninhan Sr. Scholarship Fund  
George Murnane MD ’17 Scholarship  
National Health Service Corps Scholarship Program  
John Ordonaux Scholarship  
Carlos G. Otis, MD ’37 Medical Scholarship Fund  
Hannah Hildreth Pendergast MD ’49 Memorial Medical Grant Fund  
George & Frances Phillips Memorial Fund  
John Poczabut, MD ’41 & Thea Poczabut Medical Scholarship Fund  
John S. Poczabut, MD ’41 Medical Scholarship Fund  
H.A. Quimby Scholarship  
Shepard Quimby Scholarship Fund  
Eva C. Quilt Medical Student Grant Fund  
Jonathan Harris Ranney MD ’09 & Zilpah Fay Ranney Scholarship Fund  
Robert Richards MD ’54 Scholarship Fund  
Herbert P. Russell Scholarship Fund  
Chester A. Rutkowski, MD ’35 Memorial Scholarship  
Winston A. Sargent MD ’30 Medical Scholarship Fund  
Charles Schachtmann MD ’26 & Sylvia Schachtmann Scholarship Fund  
Ruth Andrea Seeler, MD ’62 Medical Endowed Scholarship Fund  
Peter Shamman Scholarship  
Eunice M. Simmons, MD ’49 Medical Scholarship Fund  
Eunice M. Simmons, MD ’49 Memorial Scholarship Fund  
F.D. Streeter Scholarship  
Alfred J. Swery MD ’44 Medical Scholarship Fund  
Henry Tinkham Scholarship Fund  
David M. Tormey, MD Endowed Medical Scholarship Fund  
Leo E. & Ruth C. Tracy Fund  
E. Turgeon Scholarship  
University of Vermont Medical Alumni Association Scholarship Fund  
Morris Wience MD ’15 Medical Scholarship Award Fund  
Winokur Family Endowment Fund  
Keith Wold, MD ’51 & Elaine Wold Medical Scholarship Fund  
George Wolf Fund for Medical Students  
United States Army Medical Scholarship Program  
United States Air Force Medical Scholarship Program  
United States Navy Medical Scholarship Program  
United States Primary Care Loan Program  
Vermont Student Assistance Corporation  
Citizens & Legislature of the State of Vermont  
Citizens & Legislature of the State of Maine  
Faculty & staff at the University of Vermont  
Faculty & staff at Fletcher Allen Health Care  
Faculty & staff at Maine Medical Center  
Faculty & staff at Champlain Valley Physicians Hospital
Alpha Omega Alpha
Students elected to this Honor Society, in the opinion of their classmates and the faculty, have given promise of becoming leaders in their profession.
Alicia M. H. Casey
Jaina P. Clough
J. Dana Dunleavy
Lisa T. Emerick
Michaeline M. Ford
Tiffany F. Frazar
Krista N. Haight
Jacob W. Lilly
Malaika L. Little
Mark D. Lo
Bridget J. Quinn
Nathan D. Richardson
Brian S. Sorensen
Hung T. Vu
Resident: Christopher Healey, MD
Faculty: Zail S. Berry, MD

The Ellsworth Amidon Award for outstanding proficiency in Internal Medicine
Meera Sreenivasan-Ouk

The David M. Babbott, M.D. “Caring and Seeing” Award
Mark J. Chen*

The Dean William Eustis Brown Award for broad cultural interests, and loyalty to the College of Medicine
Julie A. Alosi

The Hiram Buttles Award for excellence in Pathology
Bridget J. Quinn

The Carbee Award for excellence in Obstetrics/Gynecology
Rachel L. Steward

The James E. Demeules Surgical Research Prize
FIRST PLACE: Zechariah S. Gardner
SECOND PLACE: Christopher H. Lee
THIRD PLACE: Jacob W. Lilly
THIRD PLACE: Nathan D. Richardson

The Edward E. Friedman Award for promise of excellence in the practice of Family Medicine
Jean Andersson-Swayze

The Howe Senior Student Award for excellence in Surgery
Jacob W. Lilly

The Howe Outstanding Teacher Award for excellence in Surgery
Neil H. Hyman, MD

The Kerzner Family Prize for service to the community
Malaika L. Little
Brian G. Tang*

The Lamb Fellowship Award for best exemplifying concern and care for the total patient
Jaina P. Clough

The Jerold Lucey Award for contribution to Pediatric research
Kendra S. Ardell

The Maine Medical Surgery Clerkship Award
Hung T. Vu

The Herbert Martin, Sr. Award for excellence in Neurology
Selin Caglar

The John E. Mazuzan, Jr., M.D. Award for proficiency in Anesthesiology
Matthew L. Breckenridge

The H. Gordon Page Award for excellence in Surgery
Julie A. Alosi

The New England Pediatric Society Prize for best exemplifying those qualities one looks for in a Pediatrician
Alicia H. M. Casey

The Radiology Achievement Award for excellence in Radiology
Samir E. Kodsi

The Charles T. Schechtman, M.D., ’26 Award for Clinical Excellence
Michaeline M. Ford
Jacob W. Lilly
Malaika L. Little

The Dunwood Smith Award for excellence in Pharmacology
Hung T. Vu

The Society for Academic Emergency Medicine Award for excellence in Emergency Medicine
Laura V. Forman

The Ralph D. Sussman/Medical Alumni Award for excellence in Pediatrics
Michaeline M. Ford
Gina M. Trachimowicz

The Laura Weed, M.D. Award for qualities of excellence, service, and commitment in Internal Medicine
Jaina P. Clough

The Ephraim Wolf Award for the highest average in the Pathology 301 course
Lisa L. Cole

The Leonard Tow Humanism in Medicine Awards presented by The Arnold P. Gold Foundation for excellence in both compassionate patient care and scientific achievement
Student Award: Debra A. Gargiullo
Faculty Award: Richard G. Pinckney, MD, MPH

Class Awards
Basic Science Teachers of the Year
Gerald C. Silverstein, PhD

Basic Science Department of the Year
Pathology

Golden Apple Award
Bruce J. Fonda, MS

American Medical Women’s Association Gender Equity Award
Basic Science: Diane Jaworski, PhD
Clinical Science: Virginia A. Eddy, MD

Colette Award inspired by Colette Ozarowski for significant contribution to the quality of student life
Nini Anger

Dignity in Medicine Award
Ruth E. Uphold, MD

Clinical Teacher of the Year
Janice M. Gallant, MD

Clinical Department of the Year
Internal Medicine, FAHC

Resident of the Year
Glenn Leavitt, DO

Note: The Brown and Lamb awards are awarded by vote of the class.
The College of Medicine gratefully acknowledges private support received in fiscal year 2005 (July 1, 2004–June 30, 2005). In the event that any of the information presented in this report is incomplete or inaccurate, please accept our apologies and notify the Medical Development and Alumni Relations office at (802) 656-4014.