Motivation in philanthropy is sometimes a simple thing.

It might be the memory of a certain teacher who opened your eyes to a new concept that inspires you to stay involved. Maybe it is a desire to show your appreciation for the education you received. Or, perhaps, you simply want to ensure the continued success of U.Va.’s Engineering School.

If you ask SEAS Campaign Cabinet co-chairs Richard L. ("Rocket") Ramsey (Applied Math ’76) and Robert M. Wadsworth (SE ’82), who served as co-hosts of the 2007 Engineering Leadership Summit, what motivates them to support SEAS, they will tell you it is all of the above and more.

Ramsey, a tall, ebullient individual with a ready grin, admits that he was not a top student before coming to U.Va. "I played ice hockey for a previous college, and that’s where the emphasis had been; I transferred to SEAS with a lot of potential and learned how to focus in a structured environment. I have
Dear friends,

I have some great news to share! Tim Redden has accepted the position as the new executive director of the University of Virginia Engineering Foundation and associate dean for development for the School of Engineering and Applied Science (SEAS). In his new position, Tim will plan, organize and direct all annual, capital and special philanthropic fund-raising activities for the Engineering School. In so doing, he will lead the SEAS development staff — and work with Campaign leadership groups — to execute the Capital Campaign for SEAS, targeted to raise $150 million by 2011.

Tim’s development history at U.Va. spans more than a decade and includes a variety of fund-raising positions and accomplishments. He has served as director of development for the U.Va. School of Medicine’s Transplant Program, director of corporate and foundation relations for the University’s Health System and, most recently, senior director of corporate and foundation relations for U.Va.’s Development and Public Affairs Office. Prior to his work at U.Va., Tim served as assistant dean for public affairs at Cornell University’s College of Veterinary Medicine and as director of development and regional campaign director for Iowa State University. While at U.Va., he helped close the largest corporate and the two largest private family foundation gifts in the history of the University.

Tim’s experience and passion for development will help guide an already primed and energized SEAS fund-raising team as our Capital Campaign continues to gain momentum. We are well on our way to reaching our $150 million goal — and thus transforming SEAS by 2015.

Our most pressing priorities during this phase of the Capital Campaign include our much-needed information technology engineering building, graduate student and faculty support, programmatic enhancements and undergraduate merit scholarships. Read more about the SEAS Campaign priorities on page 7.

If you haven’t done so already, please choose to become part of this positive transformation at SEAS as we continue to pursue innovation, progress and promise.

With great appreciation,

James H. Aylor
Louis T. Rader Professor of Electrical Engineering
Dean, School of Engineering and Applied Science
University of Virginia
www.seas.virginia.edu/campaign

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Gifts Help School Prepare for Launch of Rice Hall

When Rice Hall, the University of Virginia School of Engineering and Applied Science’s planned information technology engineering (ITE) facility, opens its doors, it will signify the launch of a new era in information science and engineering research and discovery at U.Va. Complete with a stadium-style auditorium, a cyber lounge, computer labs, a courtyard, and laboratories and classrooms that can be dynamically reconfigured to support new ideas and projects, Rice Hall will provide a state-of-the-art home for the School’s leading ITE experts and students alike.

Helping to take the Engineering School to these new heights is A. Thomas (“Tom”) Young, former president and chief operating officer of Martin Marietta Corp. and retired executive vice president of aerospace and defense company Lockheed Martin Corp.

A 1961 graduate of the School’s Mechanical and Aerospace Engineering Department, Young has made aerospace engineering research his life’s work. When Martin Marietta (now Lockheed Martin) offered to contribute a total of $1 million to as many as 10 charities of his choice, Young opted to allocate the total amount to the establishment of Rice Hall.

According to Young, there was never any question as to where he would direct the generous gift. “I feel so strongly about U.Va. and the Engineering School that it was really not a hard decision,” he says. “The Engineering School was a big factor in my success throughout my career, and I selected the information technology engineering facility because it’s the best way to enhance the School.”

In addition to Young’s support and Lockheed Martin’s generosity, a number of SEAS alumni and friends have stepped forward to give momentum to the ITE project — most notably, Paul and Gina Rice, for whom the facility will be named. Other generous supporters include Lee Ainslie and Mike Pausic, J. Davis Hamlin Jr., the Ellis Olsson Memorial Foundation, and Andy and Susan Cohen.

“The generosity of SEAS alumni and friends is energizing,” says Dean James H. Aylor. “With this continued support, the Engineering School is accelerating into a leadership position in the field of information technology engineering.”
Leading the Way to Success in the Campaign for SEAS

been able to take the excellent training I received at SEAS with me and apply it to everything I do professionally.”

Following graduation, Ramsey worked for several large communications companies, followed by the launch of three successful startups. “General problem-solving is what helped launch those companies, and I learned those skills at SEAS,” Ramsey says.

An appreciation for the Engineering School runs deep in Wadsworth as well. As senior partner and owner of HarbourVest Partners LLC, Wadsworth oversees investments in worldwide technology, communication and industrial services companies. “The Engineering School provided a strong technical foundation in math, physics and engineering principles that has helped me judge the viability of investment opportunities relative to market demand. That has been invaluable to me,” he says.

“Rick and Rob are the ultimate volunteers,” according to Tim Redden, executive director of the University of Virginia Engineering Foundation. “They have great ideas, and they love this School. We are very fortunate to have them working with us on this Campaign.”

Both men are honored to serve in a leadership capacity for the Engineering School. As SEAS Campaign co-chairs, they have been tireless in making contact with alumni and potential friends and traveling with the dean to help him share his vision for SEAS.

“I want to help raise the stature of SEAS as a unique place where students learn how to be technically strong and have an enhanced ability to communicate and relate to others,” says Wadsworth.

Ramsey, Wadsworth and other SEAS leaders and friends gathered on Nantucket Island, Mass., for the first-ever U.Va. Engineering Leadership Summit in August. After a welcome reception hosted by SEAS Trustee Gene Lockhart (Engr ’72) and his wife, Terry (Col. ’74), the participants had a chance to meet preeminent faculty and to brainstorm strategies for the School with Dean Aylor. The group also enjoyed some of Nantucket’s wonderful amenities, including sailing and golf.

“Events like this, our first leadership summit for U.Va. engineers, reinforce what I have always known to be true,” Aylor says. “With the help of our alumni and friends, the possibilities for SEAS are endless.”

Building Leaders: SEAS Student Spotlight

When SEAS third-year James P. Calabrese (CE ’09) became one of the first two students to receive a $2,500 Clark Construction Engineering Business Minor Scholarship in the spring of 2007, he had no idea that further opportunities lay just ahead.

“Sometimes you wonder why you’re bothering to work so hard, so it’s encouraging just to be recognized and meet people who are interested in what you’re doing,” says Calabrese, who also earned the Civil and Environmental Engineering Department’s 2007 C. N. Gaylord Scholarship. “This scholarship has also opened a lot of doors for me, including an internship with Clark Construction.”

Calabrese and fellow third-year Adam E Balas (CE ’09) are the first to be awarded the Clark Construction Engineering Business Minor Scholarship. Designed to encourage civil engineering students to participate in the engineering business minor, offered jointly by the U.Va. Engineering School and the McIntire School of Commerce, the scholarship was founded in 2006 by Clark Construction Group LLC. Led by SEAS alumni Daniel T. Montgomery (CE ’73), president, and William Talbert (CE ’70), executive vice president, Clark Construction was instrumental in establishing the 18-credit minor in 2005.

To Calabrese, who is interested in someday starting his own business, the minor provides a chance to broaden his engineering education and hone the presentation and people skills necessary to succeed in business. “From the moment I heard about the engineering business minor, I knew it was an opportunity I shouldn’t miss.”
New Legislation Creates New Opportunities for SEAS

Frank S. Goodman (ME ’51) and Robert A. Moore (ChE ’59) each planned generous bequests to the U.Va. School of Engineering and Applied Science; new IRA legislation made it attractive for them to provide those funds while they could see the fruits of their gifts.

Goodman says U.Va.’s investment in him changed his life. Thanks to the new IRA laws, specifically the Pension Protection Act of 2006, his gift of $100,000 to endow the Frank S. Goodman Scholarship, a merit award for undergraduates, will help change the lives of future SEAS students.

Similarly, Moore has given $100,000 to fund the annual Robert A. Moore Award in Chemical Engineering for a faculty member whose teaching and research best represent the interest of industry and best prepare students for industrial careers.

The Pension Protection Act of 2006 allows investors to roll over up to $100,000 a year from traditional and Roth IRAs into a qualified public charity — tax free. Donors must be at least 70½ years of age, and the opportunity is available until December 31, 2007.

“When you go to a fine school like U.Va.,” Goodman says, "you wake up in your 40s or 50s and say, 'They gave me so much; now it's my turn to give.'”

Goodman began “giving back” as an undergraduate when he served two years as president of the Engineering Student Council and on the U.Va. Honor Council. As an adult, he was honored as the Most Outstanding Atlanta Alumnus and served on the Alumni Board of Managers. Thanks to his recent contribution and another planned significant gift to the Engineering School, undergraduates will find the same support and experience that still mean so much to Goodman.

Moore also began “giving back” as an undergraduate in the 1950s serving as president of the Engineering Student Council and a member of the Honor Committee. In 1978, he was selected to join the Advanced Management Program at the Harvard Business School and pursued a career with International Paper Company. Moore has also served as president of the University of Virginia Engineering Foundation.

In 1997 he returned to SEAS as the Brent Halsey Distinguished Visiting Professor in the Department of Chemical Engineering. He taught engineering management and grew concerned that many graduates took consulting positions before working in industry. Moore focused his classes on practical matters: how to work in a processing plant safely, entrepreneurship, thermodynamics, utilizing pollution abatement equipment and negotiating with unions.

To Moore, the IRA legislation couldn’t be better: “I don’t pay taxes on my IRA rollover, so I can give 35 percent more,” Moore said. “And I can award the funds while I am alive to shape the vision.”

Supporting a New Way of Thinking

U.Va. engineers Doug (SE ’83, ’87) and Lois Garland (CS ’83, SE ’87) are integral players in the technological revolution that has created a new way of life. They credit their U.Va. Engineering School roots for the strength, adaptability and knowledge to influence this wave.

“The education I received at U.Va. prepared me for these years. Everything has changed — social norms, technology, how we do business on a daily basis, how we live,” says Mr. Garland. “It is the great rigorous thinking and Jeffersonian values we learned at U.Va. that have allowed us to keep up with so much change.”

These Jeffersonian values also prompted the couple to help the next generation of U.Va. engineers. Proponents of entrepreneurship, individual creativity and responsibility, the Garlands have given $100,000 to help fund the U.Va. School of Engineering and Applied Science Entrepreneurship Program. They want to encourage the kind of innovation that they have experienced in their careers and that has become synonymous with Silicon Valley, Calif., where they currently reside.

“Whether it’s fostering the development and adoption of a new digital cellular standard, helping launch Sprint PCS, or initiating a new broadband business at Yahoo,” Mr. Garland explains, “I’ve found that entrepreneurial ventures are exciting and rewarding.”

“It is very much part of the culture here,” says Mrs. Garland. “The environment values technology and those people who have the talent and ability to come up with a new idea and turn it into a business.”
Mr. Garland, currently executive-in-residence with the internationally known venture capital firm of Kleiner Perkin, Caufield and Byers, adds, “Students talk about new ideas, new products. What’s going to be the next big product, the next big idea? There’s a spirit of entrepreneurship, a creative new way of thinking, and I want to help foster that at U.Va.”

SEAS students are ripe for possibility, he says. “They are smart, driven and well-rounded — all skills needed to be successful in a startup business.”

The Garlands know well what opportunities SEAS can provide students, as they themselves have been actively involved in the School since their undergraduate days. Mr. Garland chaired the Engineering School Council and was active in Trigon beginning in 1981, served on the presidential advisory committee on admissions from 1981–1982 and won the Mac Wade Award for outstanding service to SEAS in 1983. Mrs. Garland has served on the SEAS Campaign Cabinet.

Service to the School has continued for both Garlands. For the last three years, Mrs. Garland has served on the SEAS Board of Trustees, and Mr. Garland has served as pro-tempore adviser to the Board. Together, they also serve on the SEAS Campaign Cabinet.

Both believe the qualities that make one a good entrepreneur must be integrated — and supported — within educational systems and institutions.

“In these times, there is a real need to get private support to supplement public funding,” says Mrs. Garland. “Personally, I want to make sure the institutions I believe in are thriving and are able to support creative thought for the next generation of innovators.”

“I’ve got a lot of respect for Mr. Garland,” Ainslie says. “And those relationships prove invaluable over the years. I know that my pride in my alma mater has only grown over time.”

Both men credit their U.Va. systems engineering training with providing seminal influences and concepts they use even today in assessing risk profiles of potential investments.

“Professor Roman Krzysztofowicz had a great influence on my thinking,” Pausic recalls. “He taught us the framework of quantifying different factors in decision-making.”

Ainslie adds, “My Engineering School experience provided the foundation for addressing problems with logical approaches.”

Their application of this approach has clearly been successful in the financial world, but Ainslie is quick to note that ideas alone don’t point the way to success.

“When you’re a student at U.Va., you meet and get to know wonderful people,” Ainslie says. “And those relationships prove invaluable over the years. I know that my pride in my alma mater has only grown over time.”

In their work, both Pausic, who resides in New York City, and Ainslie, who resides in Dallas, and Ainslie, who routinely meet people who speak highly of SEAS. “Our engineering program is unique. Our faculty and their research expertise are capable of elevating the discipline of engineering as a whole,” Pausic says.

This is just one of the reasons why Pausic and Ainslie are passionate about supporting SEAS. After all, these men know how to judge an opportunity — and both agree that an investment in SEAS will yield high returns.
ADDITIONAL RECENT DESIGNATED CAPITAL CAMPAIGN FOR SEAS GIFTS AND PLEDGES OVER $10,000:

$500,000 and Above

- The Ellis Olson Memorial Foundation, established by the late Signe Olson as well as the late Sture G. Olson (ME ’42) and his wife, Dr. Shirley C. Olson, has provided for a multidisciplinary graduate fellowship for the study of the systems approach to biomedicine and bioengineering.

$200,000—$499,999

- F. Hudnall Christopher Jr. (ChE ’55) supported the F. Hudnall Christopher Scholarship Fund, which provides merit scholarships to outstanding undergraduates.

- Robert E. Markwood (ME ’54) and his wife, Madeline T. Markwood, have created the Markwood Brothers Scholarship Fund in the form of two charitable remainder unitrusts [published inaccurately in Opportunity Volume 1, Issue 1].

- The late William T. Ross (ME ’34) and his wife, Gay Caskie Ross, established the William Tyler Ross and Gay Caskie Scholarship Fund as part of their estate; the fund now provides scholarships to selected undergraduates.

$100,000—$199,999

- A generous, anonymous donor initiated the 2006–2007 Annual Fund Challenge with a contribution to Rice Hall. This long-time supporter of SEAS matched the gifts of every person who either made his or her first-ever donation or increased his or her gift to the Annual Fund between January 1 and June 30, 2007.

- John J. Moritz (EE ’68) and his wife, Marshe, supported the SEAS Dean’s Discretionary Fund.

- Through the estate of Anne Rusmisell, widow of Charles D. Rusmisell (Engr Undeclared ’50), SEAS received support for the Science and Technology Policy Internship Program.

$50,000—$99,999

- Through the estate of the late Bettie Jo Swartz Alphin of Martinsville, Va., SEAS received a contribution to be used in support of the SEAS Dean’s Discretionary Fund, in honor of the late James M. Hoylman (EE ’51).

- GE Fanuc Automation, a unit of GE Industrial, provided eight PACSystems™ RX3i Training Systems to the School’s Mechanical and Aerospace Engineering Department.

$10,000—$49,999

- The Arcs Foundation Inc. supported two graduate students in the Mechanical and Aerospace Engineering Department and the Charles L. Brown Department of Electrical and Computer Engineering.

- The Corporate Strategic Research Laboratory of ExxonMobil Research and Engineering Company gave a gift to support the new undergraduate research laboratory in the Chemical Engineering Department.

- Inner Harbors Brothers LLC supported the Systems and Information Engineering Design Symposium and student projects.

- Through the estate of the late Greenhow Johnston Jr. (Eng ’42) and his wife, Maria, the Greenhow Johnston Scholarship Fund was established in 2001 with a gift annuity that now provides a merit-based scholarship to select Rodman Scholars.

We express our sincere gratitude to all of the generous alumni and friends who continue to support the Campaign for SEAS.
Aerojet Fuels the Hy-V Program at SEAS

Relationship to Propel Both Organizations to New Heights

Aerojet, a GenCorp Inc. company and major space and defense contractor specializing in missile and space propulsion as well as defense and armaments, agreed to contribute $25,000 to the Engineering School’s Hy-V — or Supersonic Combustion Ramjet (scramjet) — project. In addition, Aerojet engineers will assist students working on the Hy-V project by answering questions and performing key analyses.

The Hy-V project, led by Christopher Goyne, director of the Aerospace Research Laboratory at U.Va.’s Engineering School and principal investigator on the project, involves the research and development of a scramjet, a type of high-speed engine. Unlike with conventional rocket engines, the oxygen needed by scramjets for combustion is taken from the atmosphere, not in liquid form from an onboard tank. The resulting engine configuration makes the craft smaller, safer, faster and less expensive to operate; a scramjet engine could make a 40-minute flight from New York to Los Angeles possible.

“The relationship between SEAS and Aerojet seems like a natural fit,” according to Farid M. Khadduri, Aerojet’s vice president of engineering and technology. “In addition to the common research interests, Aerojet and U.Va.’s Engineering School share geographic proximity and a commitment to innovation.”

Aerojet continues to meet emerging defense and aerospace propulsion needs and is well-positioned to lead the way in the creation of new propulsion and combustion technologies utilizing a variety of materials. And, of course, there is the location. With an Aerojet location in Gainesville, Va., and a 3,000-acre manufacturing, testing and technology site in Orange County, Va. — only a 40-minute drive from the University’s School of Engineering and Applied Science — the organizations are positioned for collaboration.

“We are excited about the start of what I think will be a very productive and effective partnership,” says James H. Aylor, dean of U.Va.’s Engineering School. “Aerojet is truly helping to enhance our students’ experiential learning opportunities.”

Take Part in the Campaign for SEAS

Campaign Priorities

► The School’s planned information technology engineering building will provide a center for educating the IT leaders of tomorrow and fostering collaborations throughout the University.

► Graduate student and faculty support, specifically, comprehensive first-year funding in the form of graduate student scholarships and research assistantships, is necessary to attract the best and brightest scholars to SEAS.

► Programmatic enhancements — in the form of innovative offerings such as the engineering business minor, the Science and Technology Policy Internship Program and entrepreneurship initiatives — attract top students to SEAS.

► To maintain its competitive student population, the School needs well-funded undergraduate merit scholarships that will enable SEAS to offer to outstanding applicants admission packages that are competitive with those of its peer institutions.

Ways to Give

Through a one-time gift or a multiyear pledge, you can support Engineering School faculty and students:

► By mail, by sending a check made out to “UVEF” to: University of Virginia Engineering Foundation, P.O. Box 400256, Charlottesville, VA 22904-4256.

► Online at www.seas.virginia.edu/support.

► Over the phone, by calling 434.924.3045.

► Through Legacy or Planned Giving; visit www.seas.virginia.edu/uvef/giving/ways.php.

For more information, or if you are interested in making a gift of any size, please contact Davies Bisset at 434.924.1332 or davies@virginia.edu, or Warren Buford at 434.924.3395 or wbbuford@virginia.edu. www.seas.virginia.edu/campaign

SEAS Annual Fund 2006–2007

Banner Year

Thanks to the 3,600+ alumni, students, parents, faculty and friends who contributed to SEAS this past year — and a generous, anonymous donor who initiated the 2006–2007 Annual Fund Challenge — more than $1.53 million unrestricted Annual Fund dollars are now going to support student gathering spaces, the engineering business minor, undergraduate research and internship opportunities, alumni activities and faculty initiatives. We appreciate every gift — large and small. Thank you!

Thornton Society

Special thanks to our record 326 Thornton Society members who contributed leadership gifts of at least $2,500 this year to SEAS. Your partnership with SEAS makes a tremendous difference in this Campaign.

Matching Gifts

Last year, a total of $205,781 was given to the School by corporations and foundations through matching gift programs. The ExxonMobil Foundation, for example, offered its employees a 3:1 match for contributions to the Annual Fund for Engineering. SEAS friends and alumni at ExxonMobil contributed nearly $70,000 after the match. Additional significant contributions came from IBM, the Lockheed Martin Foundation, Merck’s Partnership for Giving and Philip Morris USA.
A Lifetime of Achievement and Generosity

To E. Morgan Massey, Investing in Engineering Education Makes Good Business Sense

Ask E. Morgan Massey about U.Va. engineers, and he’ll tell you they’re a “smart investment” — and he knows a thing or two about smart investments.

Perhaps best known for his remarkable success bringing family business A. T. Massey Coal Company Inc. from debt to a nearly $1 billion per year business prior to his retirement in 1991, Massey got his start when he himself graduated from the U.Va. Engineering School with a B.S. degree in mechanical engineering in 1949.

“I think it’s important to know how things work,” he says. “The Engineering School teaches you essentially how things work in the real world.”

After pairing his engineering degree with an M.B.A. — which Massey in turn credits with teaching him how people work — from the University of Richmond in 1965, he began using his engineering background and business acumen to revolutionize the coal mining industry.

An entrepreneur several times over, Massey values innovation. In fact, Massey believes that innovation is a distinguishing feature of the U.Va. Engineering School — an institution he has supported for decades as a SEAS Trustee, Campaign Cabinet member, leadership donor and more.

“The greatest thing that the Engineering School can do is to stay ahead of the world in cutting-edge technology,” Massey says. “That’s the mission of SEAS, and Dean Aylor is right on the money with that.”

In addition to his belief in the School’s mission, his loyalty to the School and his desire to give back, Massey cites good business sense as chief among the reasons he supports SEAS.

“The best thing that you can do, I think, with money that is sheltered from taxes is to contribute it to education,” Massey notes. “The truth is, it’s a smart investment.”

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