n the 30 years since Paul G. Rice (EE ’75) earned his degree from the University of Virginia, slide rules have been replaced by calculators and thick-film hybrid microcircuitry by nanotechnology. Nonetheless, he knows a thing or two about the importance of information technology to our world. More than 20 years ago, Mr. Rice founded PEC Solutions Inc., a company that designs complex, customized technology systems for large government agencies and municipalities. After the company went public in 2000, Mr. Rice, a supportive alumnus and member of the Engineering School’s Capital Campaign Cabinet, sought additional ways to give back to the School of Engineering and Applied Science (SEAS).

With engineering identified as one of the top strategic priorities for the University, Mr. Rice chose to make a gift through the Rice Family Foundation that would transform the University’s ability to excel in the vital area of information technology. The $10 million commitment from the private foundation created by Mr. Rice and his wife, Gina, of Warrenton, Va., represents the second-largest gift ever made to the Engineering School; it will be used to fund the construction of a state-of-the-art information technology engineering (ITE) building, to be named Rice Hall, pending approval by U.Va.’s Board of Visitors.

“With this extraordinary gift, Paul and Gina Rice are investing in the core of the Virginia 2020 plan to enhance science and engineering at the University,” said John T. Casteen III, president of the University. “The ITE building will help us promote what is now called ‘digital literacy’ University-wide. We owe the Rices a debt of gratitude for their visionary support and for their commitment to strengthening the University’s engineering programs.”

The Rices are not alone in their efforts to support information technology programming and strengthen the School and the University. The Elis Olsson Memorial Foundation, established by the family of Sture G. Olsson (ME ’42) and his son, C. Elis Olsson (SE ’86), pledged $1 million to fund the state-of-the-art ITE library. SEAS alumni Michael A. Pausic (SE ’86) and Lee S. Ainslie III (SE ’86), managing director and managing partner, respectively, of

Anonymous Donors Pledge More Than $1 Million to Engineering School

The parents of an Engineering School student have anonymously pledged approximately $1 million to the advancement of SEAS, $250,000 of which will be used to fund Rice Hall, the University’s planned information technology engineering building. The remainder will be used at the discretion of the dean. Shares of restricted stock were part of the gift; the stocks’ value will be assessed no later than 2011, at which time the magnitude of the gift could well exceed $1 million.
Maverick Capital, each pledged $150,000 to name the courtyard in the planned ITE building. The courtyard is to be named for their firm, Maverick Capital. Additional significant gifts from J. Davis Hamlin Jr. (EE ’59) and from Andrew H. Cohen (SE ’83, ’84) and his wife, Susan, will help to make the facility a reality. An anonymous couple, parents of an Engineering School student, also pledged $250,000 toward the planning phase of the building.

Plans for the modern structure include, in addition to the courtyard, a large stadium-style classroom; computer labs; a library; a cyber lounge; and meeting and study spaces for faculty, students and staff. The facility will be wired for broadband and wireless connectivity and equipped to support distance learning initiatives. The building also will incorporate the latest advances in educational architecture and technology with laboratory, classroom, office and meeting space that can be dynamically reconfigured to support new ideas and projects.

Rice Hall will bring together University researchers dedicated to improving the cyber society in which we live. In this advanced structure, faculty and student teams will tackle problems in high-performance computing, computer visualization, computer architecture, wireless communications, telemedicine, virtual reality, Internet engineering, metacomputing, massive graphics, embedded computing, risk management, computational science and financial engineering. Here, leaders in disciplines across Grounds will work together on a myriad of projects, including e-business systems, fault-tolerant computing and safety critical computing — research that will help advance innovations in energy, the environment, transportation, health care, Internet security, the next generation of digital devices and more.

“Paul and Gina Rice have provided the transformational vision and generosity for the University’s strategic priority in information technology over the next century,” said James H. Aylor, dean of the Engineering School. “The philanthropy of the Rices and alumni such as the Olssons, Mike Pausic, Lee Ainslie and others will accelerate the School’s ability to serve critically important research and technology needs for the entire University for decades to come.”

Portions of this article were written by William Cocke, senior writer/project manager, Office of University Development and Public Affairs, and first appeared in the spring 2006 issue of Envision.

If you are interested in helping to make Rice Hall a reality, please contact Warren Buford at 434.924.3395 or wbuford@virginia.edu.

The widespread influence of digital technology and the Internet has transformed our world into a society dominated by computing — a cyber society — in which billions of people and trillions of devices worldwide are interconnected at all times. This interconnectedness gives rise to a cyber economy requiring a coordinated aggregate of software, hardware and other technologies, as well as human expertise, to support current and future discoveries in science and engineering. U.Va. is committed to educating the nation’s brightest men and women in the field of information technology and creating new knowledge through research.

Rice Hall will significantly enhance science and engineering efforts throughout the University with information technology curriculum advancements; space for cyber physical systems needed to perform complex research; and experiential learning opportunities to educate a highly skilled, technologically superior workforce.

Help Make Rice Hall a Reality
Since the public launch of the University of Virginia's $3 billion Capital Campaign on Sept. 29, 2006, an air of excitement and possibility has pervaded the schools on Grounds — and the U.Va. School of Engineering and Applied Science is no exception.

Through the Capital Campaign for SEAS, the School hopes to raise $150 million by 2011 on its way to the $300 million needed to support both innovative academic programs and ambitious capital projects. Among Dean James H. Aylor’s highest priorities for the Capital Campaign for SEAS is the School’s planned center for innovation and research in information technology. In addition, Dean Aylor hopes to endow each department and many faculty and chair positions; fund graduate student fellowships; enhance the Rodman Scholars Program through endowed scholarships and experiential summer programs; and support the School’s educational programs, chief among them the Engineering Business and Entrepreneurship Program and the Science and Technology Policy Internship Program.

The Capital Campaign for SEAS is the Engineering School’s answer to an important call — one issued by University President John T. Casteen III and the Board of Visitors when they identified engineering as among the areas most integral to the University’s success.

“The time has come to make a concerted effort to strengthen and expand upon our educational and research opportunities,” says Dean Aylor, inviting participation and support. “With the help of our engaged alumni and friends throughout the Capital Campaign for SEAS, we will continue to educate generations of true engineering leaders.”

Dedicated Engineering School alumni and friends across the country are accepting Dean Aylor’s invitation. For example, the members of the SEAS Campaign Cabinet, led by co-chairs Richard L. Ramsey (Applied Math ’76) and Robert M. Wadsworth (SE ’82), will advise Dean Aylor throughout the duration of the Campaign. Many Cabinet members have been exceptionally generous with their time and their treasure, pledging to support the School’s capital projects and academic programs as the Campaign progresses.

“Rick and I feel privileged to be able to contribute to the success of the U.Va. School of Engineering and Applied Science, now and throughout this Campaign,” says Mr. Wadsworth. “We wish only good things for Dean Aylor and the School, and we thank the graduates and associates of the School who are joining us in elevating SEAS to new heights.”

Learn more at
www.seas.virginia.edu/campaign.

SEAS Capital Campaign Co-Chair Richard L. Ramsey with Honorary Co-Chair F. Hudnall Christopher Jr. at the SEAS Campaign launch celebration
Difference Makers: Donald J. and Jean Heim and Jill Tietjen Do Their Part to Make the World a Better Place

“N"ever doubt that a small group of thoughtful, committed citizens can change the world.” Anthropologist Margaret Mead’s words describe well the actions of two U.Va.-educated engineers whose recent financial commitments to SEAS are expected to have a global impact.

Former University of Virginia Engineering Foundation board member Donald J. Heim (ME ‘50) and his wife, Jean, of Vienna, Va., have contributed close to $70,000 to establish a graduate fellowship in environmental systems engineering. The fellowship is designed to support two years of study for a student from a developing country who will be educated to meet pressing needs for safe drinking water and sanitation in his or her home nation.

The Heims were inspired to take action on this issue after attending an Engaging the Mind seminar on sanitation and human development given by Richard L. Guerrant, director of the U.Va. Center for Global Health. The Heims, who previously funded and continue to support an endowed scholarship for two undergraduate students each year in the Engineering School and donated to Engineers Without Borders, believed that the Engineering School was the place where they could come to help make a difference.

Funding from the Heims was used to formalize and expand a program that Garrick Louis, associate professor of systems and information engineering, had begun with the help of a National Science Foundation grant. Thanks to the Heims, Professor Louis was able to support one year of full-time study in the environmental systems program for a student from a developing country this year.

“We wish to support international students who will use what they learn at U.Va. to make the world a better place. We are very pleased with how things are going so far,” Mrs. Heim says.

Aldy Mardikanto, a graduate student in the Systems and Information Department in the Engineering School and a native of Bogor, Indonesia, is the first student to receive a fellowship funded by the couple. “The methods I am learning at U.Va. for assuring the sustainability of municipal projects are well-validated,” he says. “I am grateful for the opportunity.”

Another donor who has worked hard to change the world is Jill Tietjen (Applied Math ’76). One of the first 10 women to graduate from the Engineering School, she has spent her career in the electric utility industry, and she also writes and speaks about the changing roles of women. Despite her personal success, the Littleton, Colo., resident believes she has another important task to accomplish.

“Women desire work that has value, and there is value in what engineers do,” she says. “My goal is to enhance women’s opportunities in the field and their engagement in global engineering matters.”

“When engineers design water conveyance systems in developing countries, little girls no longer have to spend their days getting water for their families and instead can attend school. Anyone can see value in that type of work.” —Jill Tietjen

Ms. Tietjen, a former University of Virginia Engineering Foundation board member, the 2004 recipient of the SEAS Distinguished Alumni Award and the 2007 recipient of the U.Va. Women’s Center Distinguished Alumna Award, has pledged $100,000 to fund experiential learning opportunities for two SEAS undergraduates each year. Students selected to receive this support will tackle a global engineering problem during the summer between their third and fourth years of study and present their experiences when they return to Grounds. Ms. Tietjen’s gift also will help to support a staff position to broaden experiential learning opportunities across the Engineering School.

“When engineers design water conveyance systems in developing countries, little girls no longer have to spend their days getting water for their families and instead can attend school,” she says. “Anyone can see value in that type of work.”
Clark Construction Group LLC, one of the largest and most successful construction firms in the United States, has established an annual $5,000 scholarship to encourage civil engineering students to participate in the engineering business minor.

The engineering business minor got its start in the spring 2005 semester thanks to a generous gift from William Utt (ME ‘79, ‘80) and a $1 million endowment from Clark Construction Group LLC, via company President Daniel T. Montgomery (CE ’73, Darden ’77) and Executive Vice President William Talbert (CE ’70, Darden ’73). The 18-credit minor, named the Robert and Ashley Montgomery Engineering Business Program in honor of Mr. Montgomery’s parents, is offered jointly by SEAS and the McIntire School of Commerce. Required courses include Technology and Product Development Life Cycle, Making Business Work, and electives include economics, accounting, commercial law, finance, marketing, strategic management, business ethics and entrepreneurship, among others. Since its inception, the program has grown in popularity; currently about 20 percent of Engineering School students participate.

Clark Construction Group LLC was founded in Washington, D.C., in 1906. Today the company is headquartered in Bethesda, Md., and employs 2,000 people in the mid-Atlantic region and another 1,000 in California, Florida and Chicago. Over the past 10 years, Clark projects have earned 450 local and national awards from industry associations, publications and other organizations. Most recently, *Mid-Atlantic Construction*, a McGraw-Hill publication, recognized three projects built by Clark Construction Group LLC as part of its Best of 2006 Awards competition: the Children’s National Medical Center, Decontamination Addition, in Washington, D.C.; the Johns Hopkins Cancer Research Building II, in Baltimore; and the Westin Arlington Gateway, in Arlington, Va.

Clark Construction Group LLC recruits about 125 undergraduates each year, many of them from the University of Virginia Engineering School and Architecture School. “We believe the engineering business minor is a step in the right direction for the Engineering School,” Mr. Montgomery says. “To the extent that the School continues to develop leaders in the technology arena, it will continue to educate and graduate students with the qualities we seek — leaders in the field of engineering.”
Take Part in the Campaign for SEAS

Dean James H. Aylor has a clear vision for the U.Va. Engineering School of 2015. This vision includes new state-of-the-art facilities; endowed professorships and departments; stronger academic programs for SEAS students, both on Grounds and abroad; fellowships for graduate and undergraduate students; and more. You can be a part of this transformation. Here’s how:

Lifetime Leadership Giving

Through a one-time gift or a multi-year pledge, you can support the School’s faculty and students through various endowments, awards and other gifts. While the possibilities abound, below are some examples of how your gift can help.

- A gift of $50,000 and above could create an endowed lectureship, a departmental award or an unrestricted endowment through the Dean’s Endowment Fund.

- A gift of $100,000 and above could endow a student internship or create an undergraduate fellowship or scholarship program. A gift of this size could also help outfit a laboratory in Wilsdorf Hall or Rice Hall.

- A gift of $200,000 and above could endow one intern through the School’s Science and Technology Policy Internship Program, help bring a series of distinguished “business in engineering” speakers to Grounds, sponsor one summer intern in perpetuity through the STS Internship Program or fund a classroom in a new building.

- A gift of $750,000 and above could create a Jefferson Fellowship in Graduate Engineering, which would allow the School to compete for the strongest master’s and doctoral candidates.

- A gift of $1 million and above could fund Rice Hall’s cyber lounge or endow an “entrepreneur boot camp” to supplement SEAS students’ engineering education with experience in business practices.

- A gift of $2 million and above could endow a professorship in the School.

- A gift of $3 million and above could endow the School’s Science and Technology Policy Internship Program, which serves approximately 10 undergraduate students each year.

- A gift of $5 million and above could endow an entire department or the Rodman Scholars Program, the signature honors program for the top SEAS undergraduate students.

For more information, or if you are interested in making a gift of any size, please contact Davies Bisset in the SEAS Development office at 434.924.1332 or dwb2b@virginia.edu.

Ways to Give

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

- To give online or over the phone, charge your gift to your MasterCard or Visa card by calling the UVEF office at 434.924.3045 or by filling out our online form at www.seas.virginia.edu/support.

- To set up a stock transfer, call the Engineering School’s Development Office at 434.924.3045 or e-mail vef-info@virginia.edu.

- To set up an automatic bank draft through the Electronic Gift Payment program, which allows you to make your gift in monthly payments automatically, call 434.924.3045 or e-mail vef-info@virginia.edu to receive the proper form by mail or fax.

- If you are over 70 years of age, you may utilize the Pension Protection Act of 2006 through December 2007 to give up to $100,000 from a tax-deferred savings account or Individual Retirement Account (IRA) to the University of Virginia Engineering Foundation without tax consequences. For more information, visit www.virginia.edu/supportuva/giftplanning/retirement.html.

- To give a legacy or planned gift, contact Warren Buford at 434.924.3395 or wbuford@virginia.edu. Visit www.virginia.edu/supportuva/giftplanning for information about ways to give a legacy gift (i.e., wills or living trusts, retirement plans, life insurance, charitable gift annuities, charitable remainder trusts or charitable lead trusts).
Possibilities Through Philanthropy

We express our sincere gratitude to all of the generous alumni and friends of SEAS who continue to support innovation, progress and promise at the Engineering School.

Programs

Together with several Engineering School alumni, SEAS Trustee Michael H. Van Vranken created an endowment fund to honor Richard W. Miksad, former dean of the Engineering School and current professor in the Civil Engineering Department. The endowment, valued at $140,000, will help fund the SEAS Science and Technology Policy Internship Program.

The Morgan Massey Foundation contributed $100,000 to support the 2006-2007 Annual Fund for Engineering. Annual Fund monies provide for creative curriculum enhancements, internship and externship opportunities and more.

Douglas C. Miller (EE '73) and his wife, Catherine, have established the Douglas and Catherine Miller Fund for Engineering. The income of this fund will be used to support the Annual Fund for Engineering.

SEAS Trustee Ashley M. Crosier (EE '83) in addition to a leadership level Annual Fund pledge, has contributed $15,000 to support the Engineering School’s Dean’s Discretionary Fund. This fund provides experiential, academic and research opportunities of highest priority to the dean.

R. Dudley White (EE '76, '77) and his wife, Barbara, have made a five-year, $35,000 pledge to support the Science and Technology Policy Internship Program.

Douglas (SE ’83, ’87) and Lois (CS ’83, SE ’87) Garland have contributed $100,000 toward an innovative entrepreneurship program, still in development.

Scholarships, Fellowships and Student Awards

Brenton S. Halsey (ChE ’51), a long-time supporter of SEAS and the University of Virginia, agreed to fund a Jefferson Scholarship in the amount of $500,000 for an Engineering School student.

An engineering fellowship has been established as a bequest by Anton “Tony” Roeger III (ChE ’63) and his wife, Helene. The income from this endowed fellowship, currently valued at $665,000, will be given annually to a SEAS student who is pursuing a chemical engineering major, has demonstrated high academic achievements and possesses outstanding leadership qualities.

The Sharon Predmore Endowment Fund, established by Scott T. Crino (SE ’06) and other recent graduates of the Systems and Information Engineering Department, was created to honor the recently retired staff assistant in the SIE Department. Ms. Predmore served the department for more than six years. The fund will create annual scholarships for a deserving fourth-year systems undergraduate and a systems graduate student.

Robert E. Markwood (ME ’54) and his wife, Melanie, have created the Markwood Brothers Scholarship Fund in the form of a charitable remainder trust. Currently valued at $200,000, the fund will be used to provide scholarships to deserving Engineering School students.

An undergraduate scholarship for students accepted into the Rodman Scholars Program has been established as a bequest by Robert K. Smith (EE ’68) and his wife, Ellen. The annual scholarship, to be named the Robert K. and Ellen H. Smith Scholarship in Engineering, will provide for payment of a Rodman Scholar’s in-state tuition and fees at the University.

John W. Via III (ChE ’84) has created an endowment fund to support a chemical engineering student award, the Via Brothers Award. The income of this fund will provide a monetary award to recognize one third-year undergraduate engineering student who has demonstrated outstanding leadership and high academic achievement.

The late John B. McGaughy (Engr ’37) bequeathed to the Engineering School as part of his estate a planned gift that has grown to more than $140,000. Each year, this fund will be used to generate a graduate fellowship valued at $5,500.

Professorships and Faculty Awards

Richard D. Hilton (EE ’91) has made a bequest to SEAS valued at $2 million for a Hilton Professorship in Engineering.

Robert A. Moore Jr. (ChE ’59) created an endowment fund to provide for an award to be given to a faculty member in the Department of Chemical Engineering. The fund, currently valued at $100,000, will annually honor a professor whose teaching, research and outreach efforts best prepare students for careers in industry.
When Gregory H. Olsen (MSE ’71) found himself in a position to make a significant contribution to the Engineering School, two thoughts came to mind. First and foremost was his affection and respect for three people who were influential in his education and career — the late Professor Heinz G. F. Wilsdorf, who was the first chair of the Department of Materials Science and Engineering (then the Department of Materials Science); University Professor Emerita of Applied Science Doris Kuhlmann-Wilsdorf; and Professor William H. Jesser. Second was his interest in advancing materials research at the University by helping to create a building to house interdisciplinary Engineering School faculty who share a focus on materials that enable new technologies and solve a wide range of societal problems.

The result was a $15 million lead gift for construction of the 99,000-square-foot, five-story Wilsdorf Hall.

Other gifts soon followed. A suite of laboratories and the connection between Wilsdorf Hall and the chemistry library were made possible by a generous gift from the Matthews family, in honor of the late John W. Matthews, the gifted scientist who pioneered the understanding of epitaxy. Additional funding came from University resources; private and corporate donors, including the Richard S. Reynolds Foundation and Merck & Co. Inc.; and a state bond issue.

More recently E. Lee (CE ’58) and Janet C. Showalter pledged $250,000 to name the computational lab in Wilsdorf Hall. Incorporated into the pledge is a class reunion challenge for Mr. Showalter’s approaching 50th reunion. Mr. Showalter is challenging his fellow 1958 classmates to match his gift and name the student lounge in Wilsdorf Hall. The actual name of the lounge will be selected by chemical engineering students working with the office of the dean.

Construction of Wilsdorf Hall began in 2003, with Mr. Olsen on a backhoe digging the first shovelful of dirt in an undeveloped area near Engineer’s Way. The building was dedicated in November 2006 and has already become a vibrant environment for formal and informal interdisciplinary collaborations across the Engineering School and throughout the entire University.

For more information about remaining Wilsdorf Hall naming opportunities, please contact Trienét Coggeshall at 434.924.7519 or coggeshall@virginia.edu.