

Winter 2006

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Echoes Staff

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Echoes

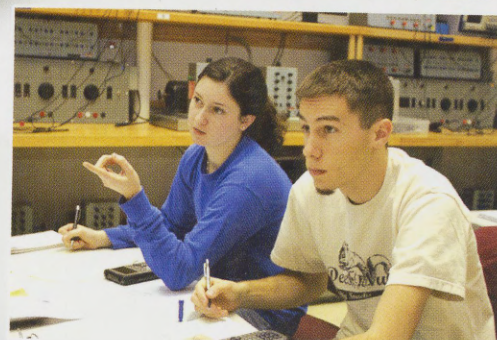
ROSE-HULMAN INSTITUTE OF TECHNOLOGY

Winter 2006-07

Vol. 2006-2007, No. 1

Philanthropy 101

Learn how you can help Rose-Hulman maintain its margin of excellence



ALUMNI HONORS

12 Alumni receive recognition

SHARING IN SERVICE

Alumni brothers make a difference



heard in the halls of Moench

“ Schools that continue to use the old
passive methods of education will have
difficulty surviving in the next decade. ”

— *Dr. Richard Felder, Hoechst Celanese Professor Emeritus of Chemical Engineering,
North Carolina State University, speaking at Rose-Hulman's symposium to begin the new academic year.*



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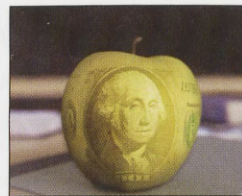


ON THE COVER

Photographers Chris Minnick and Mike Lanke contributed to this cover that shows the importance of philanthropy to the mission of our faculty in educating students who are among the best and brightest in the country. The bearded person pictured in the anchor photo and in the laboratory is Richard Layton, associate professor of mechanical engineering. The inset photos depict, from top down: a mechanical engineering laboratory, a Rose-Hulman Ventures project and an electrical engineering power class.



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It is the policy of Rose-Hulman Institute of Technology to admit students on the basis of their academic ability. Rose-Hulman Institute of Technology does not discriminate based on race, religion, color, national origin, sex, age, citizenship status, disability, veteran status or sexual orientation.

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FRESHMAN CLASS BRINGS STRONG CREDENTIALS

The 525 freshmen who entered Rose-Hulman this fall came from 44 states and five foreign countries. They brought with them credentials as good as any freshman class that has been admitted. Other statistics about the class reveal:

3,059 applications were received for the 2006 freshman class.

The median SAT scores are **620** verbal and **680** mathematics.

The median ACT scores are **29** in English and **30** in mathematics.

24 students scored an **800** on the mathematics portion of the SAT or a perfect **36** on the math ACT.

86 students (20%) ranked in the top three positions of their high school graduating classes (of the schools that report class rank).

157 play a musical instrument; **40** participated in vocal music.

86% of the class ranked in the top fifth of their graduating classes (of schools that report class rank).

110 women are in the freshman class.

14 have fathers or grandfathers who attended or graduated from Rose-Hulman.

20 have siblings who attended, graduated or currently attend Rose-Hulman.

52 participated in student government; **63** were class or student government officers.

282 were honor societies members.

66 participated in drama groups; **13** were members of school debate teams.



Freshmen and their families pack Hulbert Arena to be welcomed to campus by President Gerald Jakubowski.

25 were members of newspaper or yearbook staffs.

421 had after school or summer jobs; **116** were community service volunteers.

169 participated on high school academic competition teams.

254 participated in varsity athletics.

78 attended Operation Catapult.

ROSE-HULMAN TIES FOR FIRST IN AMERICA'S BEST COLLEGES RANKING

For the eighth consecutive year, Rose-Hulman Institute of Technology is ranked number one by engineering educators as the nation's best college or university that offers the bachelor's or master's degree as its highest degree in engineering, according to rankings included in the 2007 edition of

"America's Best Colleges" guidebook published by *U.S. News & World Report*.

Each engineering degree program at Rose-Hulman evaluated in the survey also retained a number-one ranking.

Those programs are chemical, civil, computer, electrical, and mechanical engineering. Each has been ranked as the best in each of the seven years that the magazine's survey has ranked individual engineering programs.

Rose-Hulman tied this year for the top spot with Harvey Mudd College in Claremont, Calif. Harvey Mudd had been ranked second every year Rose-Hulman has been in the top spot.

The rankings are based solely on the results of a peer survey of deans and senior faculty conducted by the magazine. Forty-nine percent of the surveys returned ratings for the undergraduate engineering category.



The responses from faculty nationwide resulted in Rose-Hulman and Harvey Mudd receiving a peer assessment score of 4.4 out of a possible 5. Cooper Union tied for third with the United States Military Academy and the United States Naval Academy. Each earned a score of 4.

"Rose-Hulman is once again very proud to be ranked number one. However, there is data in addition to the rankings that also illustrates the quality of our programs and the national reputation that Rose-Hulman has earned," Rose-Hulman President Gerald Jakubowski noted.

Jakubowski said Rose-Hulman's number-one ranking helps attract prospective students to visit the campus, which he says is a key activity in the college selection process. "It's important for students to visit numerous campuses to make sure which college or university can meet their educational and personal development needs. Students need to feel comfortable with the programs, faculty, students and campus environment." ■

The rankings can also be accessed via the magazine's web site at:
WWW.USNEWS.COM

ROSE-HULMAN RECEIVES NATIONAL AWARD FOR INSTITUTIONAL PROGRESS TO DETERMINE STUDENT LEARNING OUTCOMES

Rose-Hulman Institute of Technology has received national recognition from the Council for Higher Education Accreditation (CHEA) for its successful development of the electronic RosE Portfolio System to assess student learning and to insure the quality of academic programs.

Rose-Hulman was presented with the 2007 Council for Higher Education Accreditation Award for Institutional Progress in Student Learning Outcomes during the Council's Annual Conference Jan. 29-31 in Washington, D.C.

The Council selected Rose-Hulman as one of five institutions to receive this year's honor. The award nominees were judged on the basis of four criteria which focus on student learning outcomes: Articulation and evidence of outcomes; success with regard to outcomes; information provided to the public about outcomes; and using outcomes for improvement.

CHEA also praised Rose-Hulman for outstanding achievement in the use of technology in the methods and tools to track educational outcomes, for its extensive involvement of faculty to create the electronic portfolio system, for institutional leadership that is dedicated to the importance of outcomes; and for the college's creation of approaches to outcomes assessment that can be replicated at other institutions.

“It's recognition of the efforts and dedication of countless faculty, staff and students who have contributed during the past 10 years to the development and success of the RosE Portfolio System.”

CHEA President Judith Eaton stated, “Given the current debate regarding the role of student learning outcomes in accreditation, Rose-Hulman serves as a solid example of the enormous progress that institutions are making through the

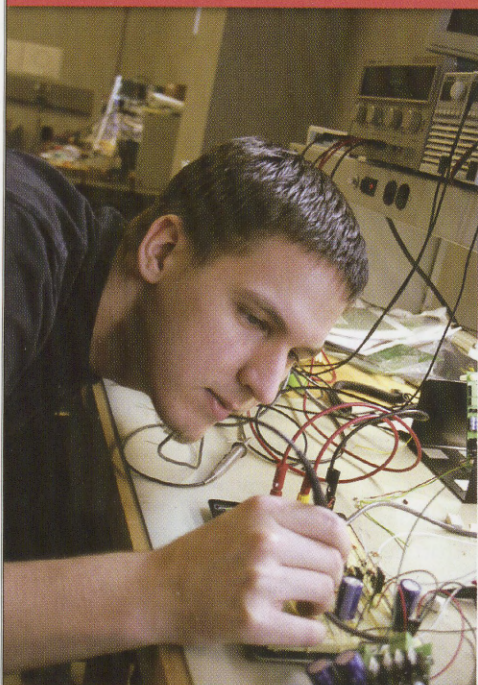
implementation of comprehensive, thoughtful and effective initiatives. We are delighted to recognize this distinguished institution with this award.”

Julia Williams, executive director of institutional research, planning and assessment and professor of English at Rose-Hulman, said the college has created a set of student learning outcomes that constitute the skills all Rose-Hulman students must develop by the time of graduation.

“In order to determine students' success in achieving those learning outcomes, they must submit faculty-requested assignments into their portfolio in the RosE Portfolio System,” she explained. “Student submissions are assessed each year by a team of faculty raters.

“The results of student performance are used by academic departments to measure student learning and to assess changes needed to curricula and programs institute wide,” she stated.

Real Projects. Outstanding Students. Innovative Solutions.



Who knows better than you that Rose-Hulman is all about students?

Offering students the best engineering professional practice experiences possible within an academic program is no exception.

Each year, over 300 internships are offered to students, freshman through senior, in all major disciplines.

Rose-Hulman Ventures brings together outstanding students with leading technology-based companies. Some companies leverage us to drive progress on specific engineering challenges. Others consider us a resource to administer on-campus internships, possibly in coordination with their own summer internship programs. Students receive invaluable experience that prepares them for the transition from outstanding students to exceptional technical leaders just like you.

To learn more about our portfolio of projects and sponsoring project and internship opportunities, contact Mitch Landess ('94) at mitch.landess@rhventures.org or (812) 244-4027.

ROSE-HULMAN
Ventures

www.rhventures.org

FACULTY ACHIEVE ON SEVERAL FRONTS

Rose-Hulman faculty members continue to excel in the classroom, labs and professional development. As they do, they enhance their teaching abilities along with the reputation of the college. This list is by no means exhaustive, but it provides a sampling of some of the recent success of our faculty.

DIANE EVANS, assistant professor of mathematics has received the 2006 Computing Society's Prize for

Biomedical Engineering Programs" at the fall meeting of the Biomedical Engineering Society, attended by more than 2,000 engineers and scientists.

Rose-Hulman's PRISM education project headed by professor **PATRICIA CARLSON** was featured in the December in the Th.H.E. Journal (Technological Horizons in K-12 Education) as one of the top 15 educa-

tional technology innovators in the nation. The PRISM Web site unifies the digital learning space, creates a virtual "gathering place" for teachers, and indexes Web-based math, science and technology resources by state educational standards.

project received \$494,627 from the NSF. **ED WHEELER**, associate professor of electrical and computer engineering will be working in the initial phase of the project. Jianjian Song, associate professor of electrical and computer engineering also is participating in the project.

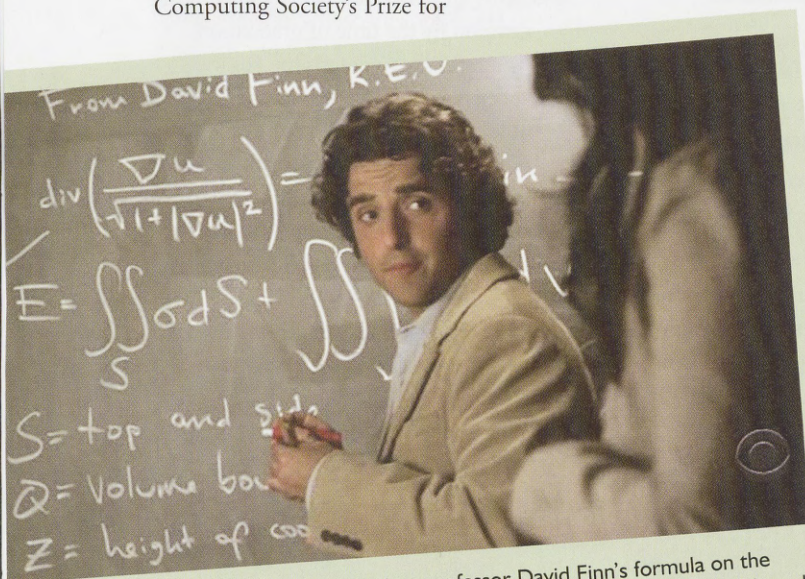
BILL KLINE, associate dean of professional experience and associate professor of engineering management, was featured on a statewide teleconference titled "New Economy, New Rules." The event was sponsored by Techpoint, Indiana's only statewide technology trade group representing approximately 400 corporate members, including publicly-traded companies, private businesses, colleges and research universities, and local economic development organizations.

PATRICIA BRACKIN, professor of mechanical engineering, presented a paper on "Techniques for the Implementation, Administration and Evaluation of Industrially Sponsored Capstone Design Project in the ME Curriculum" at the ASME Committee on Engineering Accreditation meeting. The paper was co-authored by mechanical engineering professor **DARRELL GIBSON**, who made a similar presentation at the ASME International Mechanical Engineering Congress and Exposition.

JIM HANSON is the 2007 recipient of American Concrete Institute's Walter P. Moore, Jr. Faculty Achievement Award for excellence and innovation in the teaching of concrete design, materials or construction.

AZAD SIAHMAKOUN, professor of physics and optical engineering, has been invited to join the editorial board of the *International Journal of Signal and Imaging Systems Engineering*.

HOSSEIN HARIRI, head of the Department of Chemical Engineering, has been elected to a three-year term as a director on the Executive Committee of the Fuels and Petrochemical Division of AIChE. ■



Actor David Krumholtz displays professor David Finn's formula on the television show Numb3rs. Note Finn's name at the top of the chalkboard.

Research from the Institute for Operations Research and the Management Sciences (INFORMS). She was honored for a series of research papers spanning a decade. She was noted for excellence in her work dealing with the interface between operations research and computer science.

Computer science and software engineering professor **LISA KACZMARCZYK** has received a \$40,000 from the National Science Foundation to conduct collaborative research into the development of concept inventories for computer science.

LEE WAITE, head of applied biology and biological engineering, made a presentation on "Biomedical Fluid Mechanics Education in U.S.

A formula developed by mathematics professor **DAVID FINN** was featured on a recent episode of NUM3RS, a CBS television show in which mathematics is used to help the FBI solve a wide range of challenging crimes in Los Angeles. During the Oct. 13 episode, Finn's model that describes the shape of a sugar cookie during the baking process appears on a blackboard. Above the formula is the phrase "From David Finn, R.E.U."

Faculty in the Department of Electrical and Computer Engineering are teaming with faculty from the University of Missouri-Rolla on a National Science Foundation project that will develop instructional material on electromagnetic compatibility, signal integrity and high-speed design. The

PROFESSORS RECEIVE NATIONAL SCIENCE FOUNDATION AWARD FOR WORK ON CHALLENGE X

Rose-Hulman Institute of Technology professors Marc Herniter and Zachariah Chambers received the Challenge X competition's Outstanding Incoming Faculty Adviser Award, presented by the National Science Foundation, following completion of the second year of the three-year contest last spring.

Herniter, associate professor of electrical and computer engineering, and Chambers, associate professor of mechanical engineering, are co-faculty advisers of Rose-Hulman's Challenge X: Crossover to Sustainable Mobility hybrid vehicle devel-

opment project, involving students from 17 North American colleges and universities.

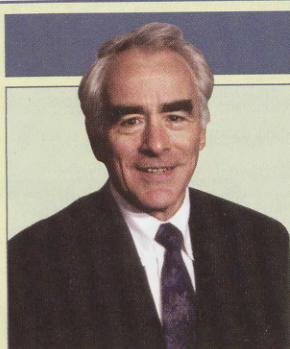
More than 150 students have spent the past two years re-engineering a General Motors' sport utility vehicle in hopes of minimizing consumption, emissions and greenhouse gases while maintaining or exceeding the vehicle's utility and performance.

Herniter's primary research interests are in the fields of power electronics, electrical vehicles and alternative energy systems. He is the author of several textbooks on circuit simulation, MATLAB and computer usage. Chambers teaches primarily on the fresh-

man and sophomore level. He specializes in engineering science and mechanics in the field of computational fluid dynamics. ■



From left: Marc Herniter and Zachariah Chambers



**DAVID
VOLTMER
NAMED
INSTITUTE'S
FIRST ASEE
FELLOW**

Rose-Hulman Electrical and Computer Engineering Emeritus Professor David Voltmer has become the college's first faculty member named to the American Society for Engineering Education's Academy of Fellows in recognition of his outstanding contributions to the Society. He was inducted during the ASEE's annual conference.

The grade of Fellow is one of unusual professional distinction and conferred by the Board of Directors upon an ASEE member with outstanding and extraordinary qualifications, and experience in engineering, engineering technology education, an allied field, and ASEE contributions.

Voltmer, who retired from fulltime teaching at the end of the 2005-06 academic year, has been a member of the Rose-Hulman faculty since 1979. He has served as ASEE's electrical engineering division chair (covering more than 20,000 educators), received the ASEE's Distinguished Service Citation in 1994 and served as general co-chair for the 2005 Frontiers In Education national conference.

JAKUBOWSKI HEADS ENGINEERING ACCREDITATION COMMISSION

Gerald Jakubowski, president of Rose-Hulman, is the new chair of the Engineering Accreditation Commission of the Accrediting Board for Engineering and Technology (ABET).

The Engineering Accreditation Commission (EAC) is one of four accreditation commissions that make up ABET which is the accrediting agency for all engineering and technology education programs in the United States. ABET is a federation of 28 technical and professional societies representing more than 1.8 million practicing professionals.

In his role as chair, Jakubowski will be the final reviewer of reports submitted by ABET teams that have conducted engineering accreditation visits to colleges and universities during the 2006-07 academic year.

He became chair of the EAC at the commission's annual meeting last summer in Baltimore, Maryland.

The EAC consists of 55 members representing 23 professional societies from education, government, industry and private practice.

"I've been associated with the EAC since 1994 when I was asked to be a program evaluator for mechanical engineering programs," Jakubowski said.

"Serving as the commission chair provides an excellent opportunity to learn the latest developments in engineering education that are occurring on campuses nationwide," he noted.

Jakubowski has also served EAC as vice chair of policy and vice chair of operations. In 2002, he was elected to the executive committee of EAC.

Jakubowski became the 13th president of Rose-Hulman on July 1.



President Gerald Jakubowski

2006 ROSE-HULMAN ENGINEERING GRADS EXCEL ON FE EXAM BY EXCEEDING NATIONAL AVERAGE

Rose-Hulman engineering graduates once again excelled on the Fundamentals of Engineering (FE) examination, posting an 89 percent passing rate on the national, eight-hour test required for all engineering licensure candidates.

A total of 237 of 265 2006 graduates passed the exam, administered last spring, according to FE Exam Coordinator Jim McKinney, who is also the Roland Hutchins Distinguished Professor of Civil Engineering.

This year's institutional passing rate is slightly better than the 2005 percentage (87 percent) and is better than the 2004 rate (88 percent). In fact, Rose-Hulman's percentage has been 86 percent or better annually for more than a decade, with an all-time high 96 percent rate in 1996.

The national FE passing rate is approximately 73 percent, according to the National Council of Examiners for Engineering and Surveying Web site (<http://www.ncees.org>).

"This is a very impressive achievement by our graduates," states Rose-Hulman President Gerald Jakubowski, commending Rose-Hulman's faculty and department heads. He added that the high FE exam passing rate is another indication of Rose-Hulman's

high academic standards and quality of our students.

The 2006 Rose-Hulman passing rate by academic major features, with national percentages in parentheses, are:

- BIOMEDICAL ENGINEERING, 68%, 13 OF 19 (NONE REPORTED)
- CHEMICAL ENGINEERING, 92%, 34 OF 37 (85%)
- CIVIL ENGINEERING, 94%, 29 OF 31 (73%)
- COMPUTER ENGINEERING, 88%, 28 OF 32 (NONE REPORTED)
- ELECTRICAL ENGINEERING, 82%, 37 OF 45 (70%)
- MECHANICAL ENGINEERING, 96%, 92 OF 96 (79%)
- SOFTWARE ENGINEERING, 100%, 1 OF 1 (NONE REPORTED)
- OPTICAL ENGINEERING, 75%, 3 OF 4 (NONE REPORTED)

Lee Waite, head of the Department of Applied Biology & Biomedical Engineering, points out that the 13 Rose-Hulman biomedical engineering graduates passing made up 23 percent of the nation's biomedical engineers successful on the 2006 FE exam.

The FE exam consists of 180 multiple-choice questions. During the morning session, all examinees take a general exam common to all disciplines. During the afternoon session, examinees can opt to take a general exam or a discipline-specific (chemical, civil, electrical, environmental, industrial, or mechanical) exam. ■

ROSE-HULMAN TO PARTICIPATE IN CARNEGIE'S NATIONAL TEACHING PROGRAM

The Carnegie Foundation for the Advancement of Teaching has selected Rose-Hulman Institute of Technology to participate in the Carnegie Academy for the Scholarship of Teaching and Learning Institutional Leadership program (CASTL), an international effort to improve undergraduate education.

Rose-Hulman was chosen because of its leadership resulting in improved student learning, better teaching methods, and successful academic collaborations among its faculty and professors at other institutions, stated Rose-Hulman President Gerald Jakubowski.

"To be selected for this major initiative sponsored by such a prestigious academic organization illustrates the outstanding national reputation our faculty have earned," Jakubowski said. "Our involvement in this academy will enhance faculty development at Rose-Hulman, and increase our contributions to improving undergraduate education on a national scale," he added.



President Gerald Jakubowski addresses golfers.

SCHOLARSHIP GOLF OUTING RAISES \$35,000

The Rose-Hulman Institute of Technology scholarship fund received a \$35,000 boost last summer as the result of funds raised during the second annual Rose-Hulman Summer Scholarship Golf Outing at Prairie View Golf Course in Carmel, Ind.

The donations and pledges were raised through event and hole sponsorships from alumni, Wabash Valley and Indianapolis Boards of Associates member businesses and individuals. Funds at the event are used to support the scholarships sponsored by the Board of Associates groups.

The scholarship fundraiser attracted 134 golfers and 19 sponsors. The Heritage

Group of Indianapolis was the overall event sponsor for the second consecutive year. Other major sponsors included American Consulting Engineers, Hunt Construction, Raymond James Group, and HNTB.

Following awards presentations at dinner, Rose-Hulman President Gerald Jakubowski thanked the participants and sponsors for their support to the scholarship fund.

Winners of the outing which was played using a scramble format were Kevin Cooper, Lynn Driver, Greg McCall and Rex Kottkamp with a 20 under par score of 52. ■

LILLY ENDOWMENT CONTINUES SUPPORT FOR THE HOMEWORK HOTLINE WITH \$1.8 MILLION GRANT

A \$1.8 million, two-year grant from Lilly Endowment Inc. of Indianapolis will allow Rose-Hulman Institute of Technology's Homework Hotline free tele-

41,849
calls received
during the 2005-06
school year

\$1.8
million grant will
support the hotline
from 2006-08

157,000
calls since the
first \$1 million
grant in 1999

phone tutoring service to continue helping thousands of Indiana middle school and high school students understand the complexities of mathematics and science.

The grant came after another record-breaking year for the Homework Hotline.

A total of 41,849 calls were received during the 2005-06 school year, a 19.8 percent increase over the previous year.

Homework Hotline tutors have answered more than 157,000 calls since the first \$1 million grant from the Endowment in 1999 supported expansion of the service into central Indiana school districts. A \$2.6 million grant from the endowment allowed for

a three-year program to extend the hotline to every Indiana school region, and a \$490,000 endowment grant helped cover program expenses for the current 2005-06 school year.

This \$1.8 million grant will support the Homework Hotline during the 2006-07 and 2007-08 school years, according to Susan Smith, Homework Hotline director who also serves as director of Rose-Hulman's Learning Center and assistant professor of English.

"More than 100 Rose-Hulman students, working as Homework Hotline tutors each year, have become a tremendous resource for Indiana students in grades 6-12. The Homework Hotline has experienced tremendous success reaching students, educators and community leaders across Indiana," Smith said.

"Rose-Hulman is grateful for the continued support of Lilly Endowment," Smith emphasized. "The Endowment's support has made it possible to expand the program to serve thousands of Indiana students."

Sara B. Cobb, Lilly Endowment's vice president for education, stated, "The



Melissa Chrisman, a sophomore applied biology major from Brazil, Ind., is among this year's Hotline tutors.

impact of Rose-Hulman's Homework Hotline is as basic and concrete as helping a student solve an algebraic equation, or as profound as increasing a student's confidence level and even sparking an interest in a technical field. The Homework Hotline continues to touch people on a very personal level by providing a needed educational resource through a unique learning program. Lilly Endowment continues to applaud and support the efforts of Rose-Hulman and its students." ■

LOOKING BACK AT COMMENCEMENT 2006

Rose-Hulman Institute of Technology presented special awards to nine new graduates, two faculty and a staff member during the college's 128th commencement ceremonies May 27. The college also bestowed 339 bachelor's degrees, 35 master's and three honorary degrees during its graduation program in the Sports and Recreation Center.

Seven graduating seniors were presented with the Heminway Medal which is given to an undergraduate who has earned the highest grade point average during their four years at Rose-Hulman. Each recipient earned a perfect 4.0 grade point average. Recipients were Ian Dailey, Greenfield, Ind.; Krishnamurti

Ersson, Portland, Ore.; Alexandra Jantzen, New Albany, Ind.; Jeffrey Larsen, Sycamore, Ill.; David Radue, Martinsville, Ind.; Eric Reyes, Anderson, Ind.; and Curtis Rhodes, Warsaw, Ind.

Other students honored were Amber Brannan,

Brazil, Ind., who was presented with the John Tuller Royse Award; Stefani Vande Lune, Kokomo, Ind. received the Herman Moench Distinguished Senior Commendation, and Antong Chen of Xian Shaanxi, China was named the recipient of the award for the most outstanding master's thesis.

The Dean's Outstanding Teacher Award was presented to Rick Stamper, associate professor of mechanical engineering. Heinz Luegenbiehl, professor of philosophy and technology studies, received the Board of Trustees Outstanding Scholar Award. The recipient of the President's Outstanding Service Award was Kevin Lanke, sports information director.

Honorary doctorate degrees were presented by Robert Bright, chairman of the Rose-Hulman Board of Trustees and chief executive officer of the Institute, to Dennis Cuneo, senior vice president, Toyota Motor North America, New York, N.Y.; and N. Clay Robbins, president of the Lilly Endowment, Inc. in Indianapolis. Rose-Hulman alumnus Curt Bilby, president chief executive officer of Seahawk Biosystems, Austin, Texas, received an honorary doctor of engineering degree. Cuneo delivered the commencement address.

Special 50th anniversary degrees were presented by Chairman Bright to 24 members of the class of 1956. ■



Megan Lafferty inspects her diploma during commencement ceremonies.

COLLEGE DEDICATES \$1 MILLION LASER LAB

A new \$1 million high energy, laser laboratory at Rose-Hulman Institute of Technology will enable faculty and students to use the latest in ultrashort pulse laser technology for applications that include improving military defense systems, detecting biological and chemical agents, and commercial uses in the biomedical and communications fields.

The Ultrashort Pulse Laser Laboratory, which is the result of one of many collaborative programs involving Rose-Hulman and the Crane Division, Naval Surface Warfare Center at Crane, Ind., was officially dedicated during October.

Funding for the laboratory came through the Navy Research, Development, Test and Evaluation Program.

"This lab is different from the small number of ultrashort pulse laser (USPL) labs operating at other campuses for two important reasons," noted Galen Duree, associate professor of physics and optical engineering at Rose-Hulman, who will direct the projects in the laboratory.

"First, our work will concentrate on developing applications for the use of ultrashort pulse lasers rather than focusing our efforts solely on theory. Second, undergraduate students will play a major role in our projects. The students are gaining experience with state-of-the-art nonlinear laser technology," Duree said.

"The laser generates light pulses that last 50 femtoseconds. If you take one second and divide it into one hundred trillion equal intervals, the laser is on for 5 of these intervals," Duree explained. "This period of time is so short that when the light encounters an atom, it leaves before the atom can respond," he said. "This system concentrates so much energy in a short time interval,

that it enables us to investigate a wide area of laser applications; giving us a tremendous advantage as we investigate applications in areas such as biomedics, photonics, material processing, and others.

The partnership with Crane focuses on two issues, according to Duree. One is to assist Crane in developing USPL applications of military value. The second is to find ways of delivering the resulting technology to the soldiers in the field as quickly as possible.

Duree said work is underway to use the technology to support the missile countermeasure efforts at Crane. The USPL technology is also being applied to create systems to improve the detection and neutralization of improvised explosive devices such as roadside bombs, and to develop new methods to detect biological and chemical agents.

"These same detection schemes can also be adapted to look for other items of interest to law enforcement officials such as by-products from methamphetamine production or concealed firearms," noted Duree.

Don Schulte, head of the Ordnance Engineering Department of the Crane Division, Naval Surface Warfare Center, stated, "I am excited about the opportunities that this team has to rapidly transition products and technology to meet current and future needs of our warfighters."

Rose-Hulman President Gerald Jakubowski emphasized that students are eager to use the lab. "More students want to experience the lab than can be accommodated at this time," he said. "Seven undergraduate and two graduate students are already working in the lab."

He noted that because there are so many potential uses for USPL technology, the projects that could be conducted in the lab could involve students regardless of their technical interests from biomedical engineering to optical electronics.

Jakubowski thanked former Eighth District Congressman John Hostettler for the lead role that he played in securing the federal funding for the laboratory, while in office.

"His efforts combined with support from Indiana Senators Richard Lugar and Evan Bayh have created very exciting, unique educational opportunities for our students and faculty that will result in devices to better protect our men and women serving in the Navy as well as other technical developments we can only dream about," stated Jakubowski.

Duree noted that USPL systems push the technological limits of the physical capabilities of the components of these laser systems. "Undergraduate students now have the unique experience with this system to be able to identify problems that inevitably arise and learn how to deal with them before the components are irreparably damaged," he said. ■



Duree, left, explains the lab setup.



IT'S TIME TO TAKE A LOOK OVER THE WALL

I want to open my first Echoes column by expressing what an honor it is for me and my wife, Lynn, to join the Rose-Hulman family. Everyone we have met has welcomed us with sincere and warm greetings.

Rose-Hulman has been on my radar screen for over 30 years, but it has been more than just a blip on that screen. I have worked with faculty, staff and students from Rose-Hulman during this period, and as a result, I have always known of Rose's excellent reputation as a good college for undergraduate engineering, mathematics and science. However, now that I am here and can experience Rose-Hulman firsthand, I can honestly tell you that it is much better than I ever imagined or anticipated.

My interactions with students, faculty, staff, alumni, parents and other friends of the Institute have confirmed that Rose-Hulman is a very special place. It is a college that cares about educating technical leaders of tomorrow, and it puts that mission above all else. However, one of the most impressive aspects of this mission – and one that distinguishes us from other institutions – is that we fulfill it in a caring, nurturing environment. We have a strong curriculum accompanied by top-notch facilities, but the strength of Rose-Hulman is found in its people. It is our community of educators – and each person on this campus is an educator – that has made Rose-Hulman one of the best undergraduate engineering colleges in the country. An infectious spirit of enthusiasm and teamwork pervades the campus and has carried us to success in various areas including:

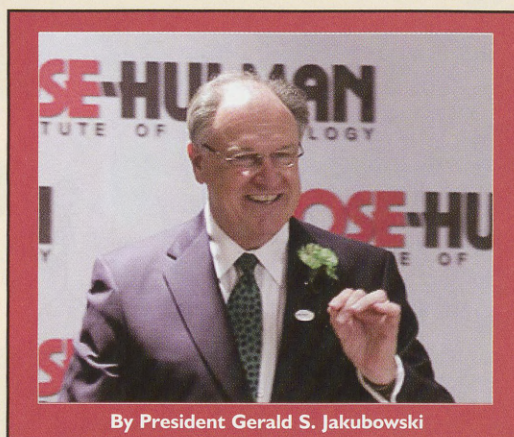
- Being ranked #1 for the eighth straight year in *U.S. News and World Report's America's Best Colleges* survey as the nation's best college or university that offers the bachelor's or master's degree as its highest degree in engineering;
- Our selection by The Carnegie Foundation for the Advancement of Teaching to participate in the Carnegie Academy for the Scholarship of Teaching and Learning Institutional Leadership program (CASTL), an international effort to improve undergraduate education. Rose-Hulman was chosen because of its leadership resulting in improved student learning, better teaching methods, and successful academic collaborations among its faculty and professors at other institutions;
- A record freshman enrollment of 525 students with an exceptional profile including: a median SAT score of 680 mathematics and 620 verbal; 24 students with perfect 800 scores on the mathematics portion of the SAT; 61 percent of the students from outside Indiana, the

largest percentage in school history; 110 women in the class (21 percent of the incoming group); and 86 percent of the class ranked in the top fifth of their graduating class;

- Recognition of our student chapter of the American Society of Civil Engineers as the best student chapter in the country for two consecutive years; and

- Major financial support for various programs and activities on campus, such as the Homework Hotline and a new high-energy, ultra-short pulse laser laboratory.

While such achievement is worthy of accolades, and I could list several more examples, we must avoid becoming content with where we are and with what we do. Such success can make us reluctant to look over the wall to see what is going on at other institutions and in the rest of the world. We cannot afford to fall into such a trap as we continue striving to maintain our position as being the best.



By President Gerald S. Jakubowski

In the leadership/management book *Flight of the Buffalo*, authors James Belasco and Ralph Stayer write, "Change is hard because people overestimate the value of what they have—and underestimate the value of what they may gain by giving that up." Our past successes should not hold us hostage when planning for our future. It is not fair to our students and to those who have preceded us in making Rose-Hulman such a strong institution.

Rose-Hulman is a great college, but it can be better. We need to look over the wall of contentment and ask the following questions:

- Who are our aspirational peers...who do we want to be like?
- Who is aspiring to be like us?
- What are these institutions doing that might make sense for Rose-Hulman?

Just as several colleges look to us as a model of undergraduate education, we need to look at other colleges and see what they are doing that might make sense at Rose-Hulman. If we want to maintain our leadership, we need to keep our eyes and ears open to emerging trends in technology and in engineering, math and science education.

We must be creative and innovative to develop new programs that match the emerging trends in technology today so we will continue to be an educational leader tomorrow. Rose-Hulman must not just keep up with change, it needs to be an agent of change.

In looking ahead, the college is moving into the detail phase of a strategic planning process. It will seek input from all of our constituents.

I'm glad to be a part of Rose-Hulman at this exciting time in its history. Things are good and they're going to get better. I invite you to join me and the rest of the Rose-Hulman community as we plan for the future. Now, let's take a look over the wall. ■

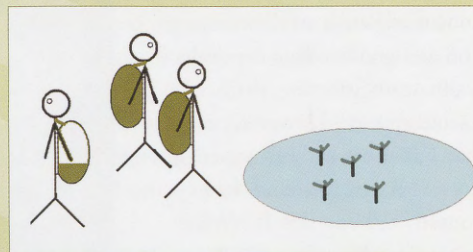
Bailey Challenge

By Professor Emeritus Herb Bailey

Some solve refueling problems with credit cards. Some solve them in the pits. Goggle finds more than a million sites. There are many refueling puzzles and one of these, Problem 1, was posed on the radio program "Car Talk". Problem 2 was suggested by recently retired emeritus professor Dave Voltmer. When I became emeritus, I checked Webster and found it is Latin for "having served one's time". Note that this would also apply to released prisoners.

Problem 1

Three hikers head from home camp to an oasis. They can carry only 10 days supply of food and water in each of their packs. The oasis is more than 10 days away so they agree to try to get only hiker 1 to the oasis. After walking together for a spell, hiker 3 refills the packs of 1 and 2 and returns home. Hikers 1 and 2 continue and later 2 returns home after refilling the pack of 1. Find the maximum distance from home to oasis such that 1 can get there with 2 and 3 safely back home.



Problem 2

Same as Problem 1 with two exceptions, a) the oasis is 18 hiking days from home, b) Two of the hikers are to reach the oasis and the others return, one at a time, after refilling the packs of the continuing hikers. Find the least number of hikers needed.

Send your solutions to Herb.Bailey@rose-hulman.edu or to Herb Bailey, Math. Dept., Rose-Hulman, 5500 Wabash Ave., Terre Haute IN 47803.

PLEASE include your class year if you are an alum.

Solvers of the Spring problems are listed.

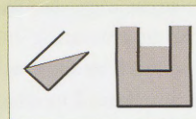
ALUMNI: J. Hurt, 1948; W. Rinker, 1951; D. Camp, 1955; R. Llewellyn, 1955; A. Sutton, 1956; C. Cooper, 1956; H. Brown, 1957; D. Bailey, 1959; C. Sechrest, 1960; B. Carter, 1961; J. Tindall, 1961; J. Snyder, 1962; C. McCoy, 1962; S. James, 1965; K. Metz, 1969; M. Born, 1970; M. Ring, 1970; S. Jordan, 1970; D. Jordan, 1971; E. Arnold, 1971; W. Pelz, 1971; M. Kircher, 1974; D. Winner, 1974; D. Montgomery, 1974; C. Dreher, 1974; M. Bailey, 1976; G. Schroeder, 1976; A. Bailey, 1977; P. Koch, 1977; T. Doerr, 1988; P. Kehoe, 1981; B. Wade, 1983; M. Saltgaver, 1984; M. Solanki, 1985; M. Walden, 1986; D.; Johnson, 1987; M. Nigrovic, 1987; M. Lancaster, 1987; P. Marken, 1987; C. Abdnour, 1989; R. McFarlan, 1989; G. Heinmann, 1990; E. Cagielski, 1990; B. Burger, 1991; J. Harris, 1991; R. Hochstetler, 1991; D. Hector, 1992; D. Janko, 1994; J. Kimmerle, 1994; F. Pfeiffer, 1996; C. Tracy, 1997; M. Ley, 1997; M. Pilcher, 1998; C. Pohlman, 2000; B. Creel, 2000; S. Sands, 2000; M. Black, 2001; B. Elliott, 2002; A. Porter, 2002; J. Baumgarte, 2002; B. Richardson, 2002; B. Schwering, 2002; J. Schroeder, 2004; F. Shane, 2005; L. Plummer, 2009; A. Schmitz, 2009;

FRIENDS: J. Marks, friend; D. Purdy, friend; J. Ley, friend; A. Cutaia, friend; M. Samuels, friend; J. Goulding, friend; A. Houtz, friend; I. Walden, friend; M. North, friend; G. Winner, friend; S. Winner, friend; S. Maddox, friend; P. Parshall, friend; M. Rosene, friend

Solution for previous issue

Some were very stingy with part credit for Sally's method of finding x ; other solvers gave extra credit while faulting the teacher for not asking the students to find the value of x .

There were many solvers of the water-well problem with a few 'outside the can'



solutions. Some tipped the can, as shown, to divide the contents in half, others displaced water to subtract 4 pints without disturbing the contents of the 4 pint can. The former requires dexterity and good vision; the latter assumes a can with very thin sides. Combining these two solutions gives a method to get 7 pints without any pouring from can to can. Tip the 4 pint can to get 2 and then immerse the half full 4 into the 9 giving a total of 7.

Some of you noted that a solution of a similar pouring problem was required to prevent the bombing of a school in the movie "Die Hard 3". This goes to show that puzzle solving is sometimes necessary for survival!

The number 11 was erased on the blackboard. The sum of the perimeters of the stacked squares was $4H$ and the sum of their areas was $HB^2 / (2H + B)$

ALUMNI SERVE AS CALLING CARDS TO HELP ADVANCE COLLEGE'S MISSION



By Robert Bright, Chairman of the
Rose-Hulman Institute
of Technology Board of Trustees

One of the great things I have come to appreciate for more than five decades at Rose-Hulman is its sense of community where everyone plays a role in the life of the college. As alumni we are forever linked to the college that educated us to serve in our communities and places of work.

When students leave the gates of 5500 Wabash Avenue with diploma in hand, they become extensions of the campus, both geographically and technically in the environments in which they function. As alumni, we are calling cards for our alma mater. Our admissions and public relations offices can continue spreading the Rose-Hulman story throughout the land, but its reality lives in us. Whether it's coaching our daughter's softball team or developing new products, we are Rose-Hulman.

As continued members of the Rose-Hulman family, we have a responsibility to help the college advance its mission into the new century. Many ways exist to carry out this responsibility:

- Financial support
- Networking
- Prospective students
- Projects for students
- Jobs for students

Before you go running to hide your checkbooks, let me explain my thoughts about financial support. As chairman of the board of trustees and as a retired engineer/businessman, the bottom line is never too far from my train of thought. Of course, your personal monetary support is just that – personal – but it is vital to the

college. It helps provide scholarships and the latest equipment needed to provide an up-to-date engineering/science/mathematics education. Rose-Hulman could not exist without personal donations from alumni, but more importantly the ability to attract gifts from corporations and foundations is greatly influenced by the percentage of alumni supporting the school.

Rose-Hulman also needs us to step up in another special way, and that is by providing connections to link Rose-Hulman activities to the worlds in which we live. Many times, a Rose-Hulman alumnus can gain entrée to a major corporation or foundation evaluating programs to support the mission of a place like Rose-Hulman. It's an opportunity that our staff may not know of, but the alumnus can create awareness and open the door.

Networking doesn't limit itself to dollars and cents. We can help attract prospective students to Rose-Hulman. As we encounter young people and their parents looking for colleges, we need to make them aware of the opportunities at Rose-Hulman. While we may have the opportunity to be a voice in the local high school, much of that work can be done at the neighborhood barbecue or at the local football game. There's plenty to sell, including an awareness for parents and high school juniors of the Operation Catapult summer program. (This program is the most significant recruiting program we have at Rose.) The Office of Admissions also runs an effective program called RARE (Rose Alumni Recruiting Engineers) so please contact them if you have the opportunity or desire to assist in recruiting students from the schools in your area.

When spreading the word about your alma mater, don't forget to seek potential projects that could become learning experiences for our students. Rose-Hulman has always stressed "learning by doing," and the college has embraced real-world projects as a way to give our students complete learning experiences. Your place of employment may have a project it hasn't been able to move off of a drawing board

because of other priorities or limited resources. Rose-Hulman Ventures and our faculty seek such projects for a full learning experience and you could make a valued "win-win" contribution by facilitating the connection.

Of course, no suggestion of linking back to Rose-Hulman would be complete without reminding you of the need to help provide jobs for graduates. If your employer is not recruiting at Rose-Hulman, encourage them to do so, and have them contact our Office of Career Services for specifics about how they can tap into one of the best educated engineering, science and math talent pools in the country.

Up to this point, I have pointed out what you can do for Dear Old Rose. Don't forget you receive some benefit from it as well. Stay in touch through the Rose-Hulman Web site (up to date news and activities stories and even live broadcasts of events), *Echoes*, department newsletter mailings, etc. Return for Homecoming and visit with old friends and classmates (the stories get better with age). Take advantage of alumni trips, the R-Club, license plates, the online alumni directory, (other Rose-Hulman grads can be great contacts for interactions with a new firm) and other special offerings for alumni.

Rose-Hulman is the number-one undergraduate engineering, science and mathematics college in the country. All alumni should be proud and take advantage of every opportunity to tell the Rose-Hulman story and why it is number one to anyone who will listen.

As we look to the future, I realize rankings will come and go, but I also know that the Rose-Hulman community will stand strong. President Jakubowski is meeting as many constituents of Rose-Hulman as possible to develop a thorough understanding of its history and strengths to enable us to plan and develop a course for the future. Alumni will play a vital role in helping chart that course. Our input will be sought and our talents will be tapped. We must stay connected to Rose-Hulman and help make a great community even better. ■

ROSE-HULMAN BEGINS TENURE IN HCAC

Rose-Hulman Institute of Technology officially began its tenure as the ninth member of the Heartland Collegiate Athletic Conference this fall.

Rose-Hulman joins Anderson University (Ind.); Bluffton (Ohio), Defiance (Ohio), Franklin (Ind.), Hanover (Ind.) and Manchester (Ind.) colleges; the College of Mount St. Joseph (Ohio); and Transylvania University (Ky.) in the Heartland Collegiate Athletic Conference.



The HCAC sponsors conference championships in 17 sports, including nine for men and eight for women. The HCAC hosts conference championships in baseball, football, softball, volleyball and wrestling, along with men's and women's basketball, cross country, golf, soccer, tennis and outdoor track. The HCAC league headquarters are located in Greenwood.

The winners of conference championship tournaments in baseball, basketball, golf, soccer, softball and tennis will automatically qualify for NCAA Division III Tournament postseason play, along with the winner of the football regular-season league title.

"The HCAC is very pleased to welcome Rose-Hulman as a new member to our athletic association," said Tom Bohlsen, commissioner of the HCAC.

"Rose-Hulman is an ideal NCAA Division III institution in that it has a respected and renowned academic profile, a sound Division III athletic program, and a philosophy that properly blends these two entities in a manner that enhances its student-athletes' total collegiate experience."

Rose-Hulman athletic director Jeff Jenkins also looks forward to competing in the league.

"We are delighted to officially join the Heartland Collegiate Athletic Conference. Rose-Hulman student-athletes will have the opportunity to compete for conference championships and NCAA Division III Tournament appearances against many of the students they competed with in high school. Most importantly, the conference members have philosophies that are similar to ours regarding the role of athletics in college life," said Jenkins.

Rose-Hulman previously competed with Anderson, Franklin, Hanover and Manchester in the Indiana Collegiate Athletic Conference from 1988-98. The Engineers continued to schedule those four schools, along with Mount St. Joseph, in numerous sports during the last eight years while a member of the Southern Collegiate Athletic Conference.

The addition of Rose-Hulman marks the first change in membership for the HCAC since Transylvania University joined the conference in 2001. ■

149 STUDENT-ATHLETES NAMED ACADEMIC ALL-CONFERENCE

Rose-Hulman student-athletes combined to earn 149 academic all-league honors during the 2005-06 athletic season. The men's track and field squad led Rose-Hulman with 23 academic all-conference honorees, followed by the football team with 21. In 2004-05, Rose-Hulman set a school record with 154 academic all-conference honorees. Previous totals included 129, 111, 104 and 100 award winners, dating back to 2000. Student-athletes maintained a 3.25 grade point average during their academic quarter of competition to qualify for the academic all-conference squad.

JON PREVO NAMED WOMEN'S BASKETBALL COACH



Jon Prevo has been named the head women's basketball coach at Rose-Hulman Institute of Technology. Prevo has spent the previous 12 years at Rose-Hulman as men's basketball assistant coach and has served as the college's associate athletic director for four years. The Engineer men's basketball team has a record of 184-128 in the past 12 seasons under the work of head coach Jim Shaw and Prevo.

"I am pleased and honored to stay at a wonderful institution like Rose-Hulman and achieving a personal goal of becoming a head coach. This is a tremendous opportunity, and I look forward to leading the program to success for many years to come," said Prevo.

Prevo becomes the fifth head women's basketball coach at Rose-Hulman. He replaces Tony Hill, who resigned earlier this summer as the program's winningest head coach at 37-40 to pursue opportunities in the business world. Prevo will retain his current associate athletic director duties.

SEVEN INDUCTED INTO ATHLETIC HALL OF FAME

Rose-Hulman Institute of Technology inducted seven new members into the Athletic Hall of Fame in the Sports and Recreation Center Multipurpose Room on Sept. 2. The Class of 2006 included six student-athletes and one former football coach and athletic director.

Dave Badger was a premier two-sport athlete in basketball and track prior to his graduation in 1953. Badger set college, conference and facility records in the pole vault and high jump, while scoring 629 points in basketball.

Scott Duncan ranks second on Rose-Hulman's career list for football wins (69) and winning percentage (.531). As athletic director, Duncan coordinated the addition of women's athletics and oversaw construction of the Sports and Recreation Center.

The remaining five inductees were members of the graduating class of 1996. Gabe Ferland and Robb McGhie were soccer teammates in the mid-1990s. Ferland earned four all-league awards and scored a school record 48 goals, while

McGhie captured four team Most Valuable Player honors and the first all-region award in Rose-Hulman soccer history.

Kiley Gwaltney claimed three all-conference and two all-region awards in basketball, with career totals of 1,329 points and 342 assists. His efforts helped lead the 1996 squad to the first Engineer NCAA Division III Tournament appearance in 14 years.

Troy Ricklefs continued Rose-Hulman's track and field success by earning All-American honors in the hammer throw. Ricklefs finished seventh in the 1996 NCAA Division III Outdoor National Championships and earned two conference titles.

Jerome Williams rounds out the class after a stellar career featuring two all-conference awards in football and enjoying a standout track career. He ranks fifth in school history with 15 interceptions and third with 1,030 kick return yards. ■



**VARSITY R CLUB
ESTABLISHED
TO HELP ALUMNI
RECONNECT
WITH ATHLETICS**

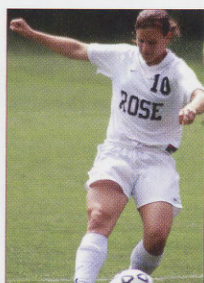
Rose-Hulman recently announced the formation of the Varsity R Club, with the goal of reconnecting alumni with events happening in the athletic department. All former student-athletes are members of the Varsity R Club and receive a quarterly e-mail newsletter with highlights of events in the department. Varsity R Club members are encouraged to attend Rose-Hulman athletic events in their area and helping the coaching staff recruit prospective student-athletes.

Information on the Varsity R Club is available online at www.rose-hulman.edu/sports/Rclub.

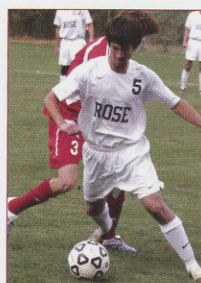
THREE ROSE-HULMAN STUDENT-ATHLETES NAMED ESPN THE MAGAZINE ACADEMIC ALL-AMERICANS



Ryan Robinson



Kathleen Stynes



Matt Trowbridge

Three fall sports student-athletes at Rose-Hulman Institute earned *ESPN The Magazine* Academic All-American honors in results released by the College Sports Information Directors of America.

Senior **Kathleen Stynes (Okemos, Mich.)** earned second-team College Division honors in women's soccer, while football standout **Ryan Robinson (Danville)** also claimed second-team recognition. Junior **Matt Trowbridge (Fort Collins, Colo.)** was a third-team honoree in men's soccer.

The three become the 65th, 66th and 67th Academic All-Americans in Rose-Hulman athletics history. This also marks the

22nd consecutive year that at least one Engineer student-athlete has been named an Academic All-American, and the fifth consecutive year that at least one football player has earned the honor.

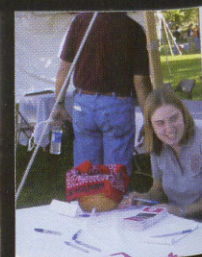
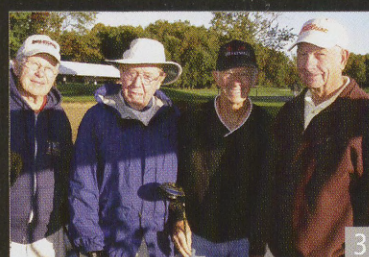
Stynes and Trowbridge were also the only members of the Heartland Collegiate Athletic Conference to earn Academic All-American honors in men's and women's soccer. The two become the fifth and sixth Academic All-American honorees in the history of Rose-Hulman soccer.

Robinson ranked second on the team with 31 receptions for 397 yards and a 12.8 average per catch to earn honorable mention all-league honors this fall. In his gridiron career, the civil engineering major amassed 56 catches for 649 yards and a pair of touchdowns.

His efforts helped Rose-Hulman achieve its first winning season in football since 1995 with a 6-4 mark. The Engineers finished fifth in the HCAC standings with a 3-4 mark.

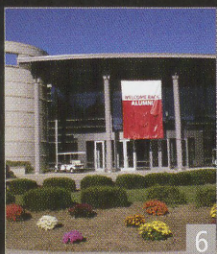
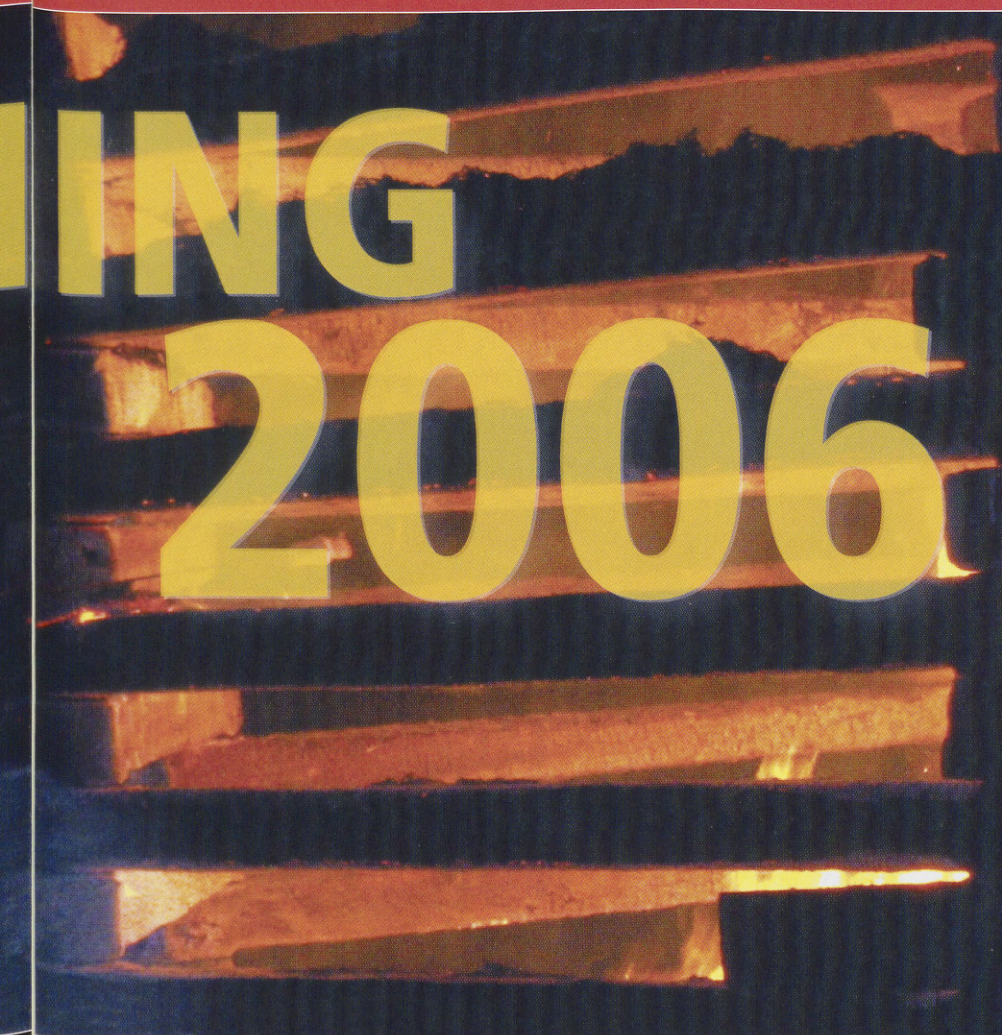
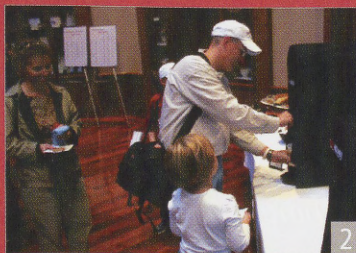
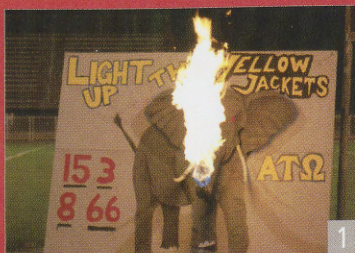
Robinson captured six academic all-conference awards in his career, with four football awards and a pair of golf honors. He also serves as a member of the United States Army ROTC Program at Rose-Hulman and is a member of the American Society of Civil Engineers. ■

alumni, friends & students
come get their kicks
at homecoming 2006



1. Young alumni gather at the G.O.L.D. party; 2. The bookstore was a busy place; 3. The annual golf outing took place at Hulman Links and Terre Haute Country Club; 4. Rosie's KidZone provided numerous activities for the younger set; 5. Class agents checked in at their tent near the football game; 6. The alumni center in Hatfield Hall welcomed alumni back to campus; 7. Academic open houses, such as the one in mechanical engineering, were well-attended.

1. Alpha Tau Omega's pep rally banner came complete with a flaming Rosie; **2&3.** The Alumni Center in Hatfield Hall was a popular stopping-off point for alumni of all ages and their families; **4.** Derek Eitel fires a pass in the game against Defiance College.



The annual bonfire got off to an explosive start that saw the outhouse fall outside the pyre. One enterprising student suited up to roast a marshmallow in the bonfire, while hundreds of students and alumni looked on bathed in the orange glow of the decades-old Homecoming tradition.

WELCOME TO Philanthropy 101

BY DAVID PIKER

You're considering a gift to Rose-Hulman Institute of Technology, but you're confused. You're not sure where to direct your money or how your money will be used. This quandary is not unusual, nor is it unique to Rose-Hulman. It occurs because there are many methods and programs through which donors can provide support. Gift giving can also seem complicated because there are many ways a gift can help Rose-Hulman enhance existing programs and launch new initiatives.



Consider this article to be a short course titled, Philanthropy 101. No tests will be given. Your final grade - and our final grade - will be determined by how much the article answers questions on why you should give to Rose-Hulman, how you can give and where you can direct your money to accomplish what is most important to you on Rose-Hulman's long list of needs.

"VISION TO BE THE BEST" CAMPAIGN FUNDS

While it may seem like a short time ago that the largest fund-raising campaign in school history exceeded its goal, it has been two and a half years since the "Vision to be the Best" Campaign ended. The campaign, which was publicly announced in 1995, raised \$253 million in cash gifts and commitments. You might be asking, "How were those funds used?" and "Why does Rose-Hulman need more money?"

Funds raised during that campaign included \$100 million for new facilities, \$80 million dedicated to financial aid, and \$20 million for technology and laboratory equipment. In addition, the Lilly Endowment awarded two grants totaling \$53 million to create and support Rose-Hulman Ventures. A \$14 million gift, the largest donation from an individual in school history, was received from Mike and Deborah Hatfield to construct Hatfield Hall. The largest scholarship gift ever received was announced in November, 2003 when Rose-Hulman was notified that it would receive \$7 million for financial aid from the estate of alumnus and former trustee Michael Percopo.

The funds raised from that campaign have been used, have been put to good use and have made what Rose-Hulman is today. "The success of that campaign positioned Rose-Hulman to be the educational leader it is today," commented Rose-Hulman President Gerald Jakubowski, who had an interesting vantage point while witnessing Rose-Hulman's successes during this period while he served as dean of the College of Science and Engineering and professor of mechanical engineering at Loyola Marymount University in Los Angeles, Calif.

ANNUAL FUND VITAL TO CONTINUOUS IMPROVEMENT

All universities have major fund-raising campaigns similar to our "Vision to be the Best" campaign. They are done periodically and they usually last five to seven years. However, universities still require support on an annual basis between major fund-raising campaigns. This is what is called an Annual Fund.

Keeping Rose-Hulman at the forefront of engineering, mathematics and science education requires consistent support. Each year, alumni are asked to donate to the Annual Fund

which is a vital part of the college's development effort. The Annual Fund is used for a variety of purposes to support Rose-Hulman's current operations. Gifts to the Annual Fund can be "restricted" - where donors can designate that their gifts be used for specific purposes such as scholarships, or equipment - or "unrestricted" - where donors are essentially saying use the funds where needs are greatest. Here are some ways in which we use your contributions to the annual fund.

Financial Aid - We strive to recruit the best and brightest students while striving to keep the cost of tuition down. Nevertheless, the cost of attending Rose-Hulman is high and we try to offset the cost of tuition by providing financial aid to the students. In addition, recruiting the best and brightest requires us to compete against other universities - often students will enroll wherever they get the most attractive financial aid package. Enrolling the most qualified students means the Institute must have sources for scholarships and financial aid.

Academic Equipment - Technology changes rapidly and equipment becomes obsolete. It is important for our students to be learning and using the latest techniques being used in industry. Therefore, it is necessary for us to constantly upgrade our equipment in order to have state-of-the-art laboratories - and modern equipment is expensive!

Faculty Professional Development - In order for our students to be learning the latest technologies, it is important for our faculty to keep abreast of these rapid changes. Furthermore, it is important for faculty to learn about new teaching methods. Therefore, funds are needed to send faculty to workshops and conferences for professional development.

Project-Based Education - One of the strengths of a Rose-Hulman education is hands-on learning where students have a chance to apply what they are learning. Project based learning and joint faculty /student research efforts are enhancing Rose-Hulman's image as a leader; however, these activities require space, equipment, supplies and other resources.

During the 2005-06 fiscal year, donations to Rose-Hulman totaled \$14 million, which exceeded the budgeted goal. The largest donations came from the Lilly Endowment of Indianapolis as matching gifts through its Strengthening Philanthropy Initiative which challenged Indiana colleges and universities to raise funds for needed academic purposes. Rose-Hulman met each of the goals of the program and the Endowment awarded Rose-Hulman \$2.8 million. The Endowment also awarded a \$1.5 million gift to continue its support of the highly successful Rose-Hulman Homework Hotline.

In addition to the Lilly gifts, a \$1.2 million gift was received from the estate of the late Carl Ehrenhardt, a Rose-Hulman alumnus and trustee. The Lowell and Naomi Ray

DON'T WORRY. NO TESTS WILL BE GIVEN.

estate also announced a gift to Rose-Hulman of \$923,000. Lowell Ray graduated from Rose-Hulman in 1931.

About half of the voluntary gift support received during the past fiscal year was allocated for operations, 35 percent was added to the college's endowment to support future operations and financial aid grants, and about 15 percent was used for capital funding for the equipment and facilities.

Among the Rose-Hulman fund-raising goals for the current fiscal year are a 40 percent participation rate of alumni giving. While the total amount of money raised is most important, even small donations help because they indicate to corporations and foundations the level of loyalty of our alumni and other friends.

ENDOWMENT GROWTH CRITICAL TO ROSE-HULMAN'S FUTURE

What is an endowment? Why is an endowment important? How are endowments used? These are frequently asked questions and good ones at that!

All universities have endowments. An endowment is a university's savings account where money is invested and the revenue generated is used by the university in a multitude of ways including providing financial aid, making major renovations to facilities, and purchasing academic equipment.

Rose-Hulman's endowment at approximately \$190 million-plus is very low in comparison to other similar type institutions. As a matter of fact, Rose-Hulman's endowment ranks 13th among the 19 colleges or universities that are members of the Association of Independent Technological Universities (AITU). Three of the AITU members have endowments valued at over \$1 billion (MIT, Case Western, Cal Tech). Three others including Rochester Institute of Technology, Carnegie Mellon University and Rensselaer Polytechnic Institute have endowments that total

over \$500 million. Harvey Mudd's endowment is approximately \$200 million, but they have less than half as many students as Rose-Hulman.

"Rose-Hulman's relative low endowment makes it difficult for us to remain competitive with our peer institutions. Although Rose-Hulman supporters have been generous, the Institute's endowment per student is low when compared to other similar private colleges and universities," Jakubowski emphasized. "Increasing the Institute's endowment will be among the highest priorities as Rose-Hulman develops a new strategic plan," he stated.

"If Rose-Hulman wants to maintain its competitive edge, if Rose-Hulman wants to compete for the best students, faculty and staff, and if Rose-Hulman wants to provide the best education with outstanding educational facilities, then the endowment must increase significantly," Jakubowski said.

PLANNING FOR THE FUTURE

"This is a very exciting time on campus, because we're planning Rose-Hulman's future," Jakubowski noted. "We have a good foundation for a new phase of the planning process. The next 18 months will be very important in determining our future institute goals including plans for the next major fund-raising campaign which will provide resources to enable our hopes and dreams to come true."

Last fall, the campus community intensified its discussions about the college's future needs. Discussions focused on curricular, co-curricular and technology plans as well as the need to update the campus facility master plan.

Among the campus leaders involved in those discussions has been Tom Mason, who is serving as interim vice president for development. Mason is a 34-year veteran Rose-Hulman faculty member and administrator. He continues to serve as professor of economics and

head of the engineering management department. During his career at Rose-Hulman, Mason has served as head of the Department of Humanities and Social Sciences, chief financial officer, and vice president of Rose-Hulman Ventures.

"Rose-Hulman is very fortunate to have someone with Tom's experience and leadership who is willing to take on even greater responsibilities until a permanent vice president for development can step into that position," stated Jakubowski.

"Rose-Hulman should be proud of its accomplishments. While experts point to the potential for America to lose its technical leadership role because of falling engineering enrollments, Rose-Hulman is operating at capacity in regard to enrollment," Jakubowski noted.

"Our graduates are in great demand as illustrated by the nearly 440 recruiters that attended our most recent career fair. Clearly the Institute is doing the right things and delivering exceptional educational value. However, the higher-education environment has never been more competitive. Many institutions are aspiring to be like us. The competition for outstanding students and faculty is intense," he warned.

"Increasing the financial support from our alumni and other friends has never been more important," Jakubowski stated. "The campus community consists of highly motivated, creative people. The ideas they have to enhance our educational programs are very exciting. They need the resources to make those dreams come true."

"Rose-Hulman's contributions extend beyond our campus. The institute plays a vital national role in providing our nation with exceptional new engineers and scientists who are critical to America's national security and global competitiveness."

"Every gift makes Rose-Hulman a better institution and contributes to a stronger America and a better world," he stated. ■

ROSE-HULMAN GIVING GUIDE

The following can be considered your study guide to the various ways you can financially support Rose-Hulman. While some methods cite specific tax advantages, it should be noted that all gifts can provide advantages, including deductions and the avoidance of capital gains taxes. Development staff contacts to answer your questions are provided.



ANNUAL GIVING – THE ANNUAL FUND

Gifts to the Annual Fund are often referred to as "now gifts." Part of the Institute's budget each year comprises these consistent annual gifts. Increasing alumni participation through yearly gifts is a goal of the Annual Fund. The phonathon campaign is an important part of this effort. These gifts are recognized through giving clubs that range from the Century Club (\$100 to \$249) to the highest Annual Fund designation, the Founders Club (\$5,000 - \$24,999). Gifts over \$25,000 are considered major gifts, even if the donor makes them every year. If you would like to support the Annual Fund or have a question about an annual gift, contact Kevin Jones, 812-877-8159, kevin.jones@rose-hulman.edu.

SCHOLARSHIP GIFTS

Ninety-five percent of Rose-Hulman's students receive some form of financial aid. Even with this support, the average unmet financial need for each student is \$12,000 per year. It's easy to understand that donations to increase Rose-Hulman's scholarship funds are crucial to the college's ability to compete for the nation's best students. Many of the nation's best institutions with whom Rose-Hulman competes are able to offer scholarships to freshmen that meet the student's entire financial need. Even less affluent schools are likely to make very high offers to enroll Rose-Hulman-caliber students. Rose-Hulman does not always meet the financial need of students who desire to attend the college. Scholarships can be supported by all gift options from the Annual Fund to endowment gifts. It requires \$50,000 to endow a scholarship which can be done with a single gift or over a period of time. Endowed scholarships are named funds that can honor an individual, family or company. Alumni class scholarships honoring a specific graduating class from Rose-Hulman have also been established. Additional information about scholarship gifts can be received by speaking with Kevin Jones, 812-877-8159, kevin.jones@rose-hulman.edu.

GIFTS FROM FOUNDATIONS

Foundations generally make grants for initiatives that accomplish the Foundation's goals. While that can include funds for operating expenses like scholarships, it often means that the Institute must demonstrate that its use of the funds is creating innovation. A key factor in acquiring funds from foundations is finding the appropriate match of Rose-Hulman's needs and the foundation's interests and requirements. Alumni and other friends can help Rose-Hulman by identifying appropriate foundations with whom they have contact. Contact Dick Boyce dick.boyce@rose-hulman.edu for further information.

MAJOR GIFTS

These gifts are critical to reaching the Institute's financial goals and represent a significant financial commitment by the donor. Generally, a major gift is considered to be \$25,000 or more. Major gift donors provide the leadership that is necessary for a fund-raising campaign to be successful. For further information, contact Bill Foraker, 812-877-8219, bill.foraker@rose-hulman.edu.

DEFERRED AND PLANNED GIFTS

These donations are commitments or gifts established legally during the donor's lifetime, and principal benefits usually do not accrue to the charitable organization until the donor's death. These gifts can be in the form of bequests, trusts, or inclusion in estate planning. Deferred or planned gifts come in many forms and can include real estate, insurance or securities. Planned gifts generally come from a donor's assets rather than income, and they often provide tax advantages. They are often a desirable way to provide for continuing benefits to Rose-Hulman. Other forms of these gifts include a charitable gift annuity or charitable remainder trusts that can provide income to the donor, reduce taxes and use appreciated investments; and gifts to a pooled income fund which also provide income and tax benefits. For additional information, contact David Haynes, 812-877-8453, david.haynes@rose-hulman.edu.

MATCHING GIFTS

Matching gift programs are a great way for donors to significantly increase the impact of their gifts. More than 1,300 companies match their employees' donations to non-profit organizations, enabling their employees to multiply their support by doubling, or in some cases tripling their gifts. If you or your spouse work for a matching gift company, download the matching gift form from the company web site or contact the company's human resources office. For more information or assistance with respect to corporate matching gifts, contact Dick Boyce, 812-877-8443, dick.boyce@rose-hulman.edu.

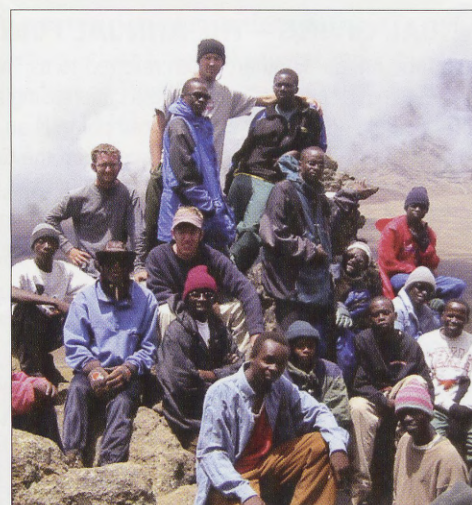
CORPORATE GIFTS

Financial support from business and industry provides support to Rose-Hulman for scholarships, laboratory equipment, other academic department needs, student projects, internships, and co-op opportunities for students. Many businesses also endow faculty chairs. Alumni play a vital role by supporting requests for corporate gifts from their employers. Donors are reminded to participate in corporate matching gift programs that double or sometimes triple the value of an employee's donation to higher education. Contact Dick Boyce, 812-877-8443, dick.boyce@rose-hulman.edu.

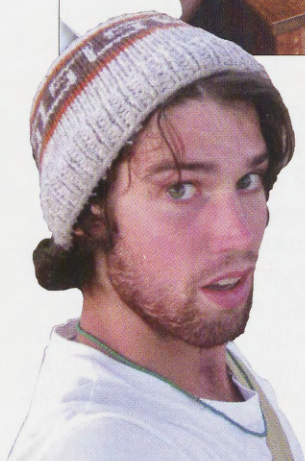
GIFTS TO THE ENDOWMENT

Earnings from a gift to the endowment provide perpetual support to Rose-Hulman and can be designated to serve donors' wishes. Endowments can be named in honor of the donor or others. Because there are expenses to manage the endowment investments, there are minimum amounts for named endowments. The minimum dollar amount is required to establish the following endowment gifts: Endowed scholarship funds - \$50,000; endowed laboratory and equipment fund - \$50,000; endowed departmental chair - a \$2 million gift; distinguished professorship - \$1.5 million. If you are interested in making a donation of this type, contact any member of the development staff.

ALUMNI BROTHERS



Students in Bryce Clark's physics class complete a pendulum experiment. • Bryce Clark took 14 of his students on a seven-day hike up Mount Kilimanjaro. Some of the students have never been above sea level in their life.



MAKE A DIFFERENCE IN AFRICA

BY DALE LONG

CHESTER CLARK

After sharing experiences throughout their childhood in Oregon and attending the same college, Bryce and Chester Clark have now shared international experiences as Peace Corps teachers in Africa.

And, the adventures may just be beginning.

Bryce (Mech. Eng., '02) spent two years teaching advanced-level physics at a government-sponsored secondary school in Dodoma, the capital of Tanzania, in eastern Africa. He was the inspiration for Chester (Mech. Eng., '05) to spend the past year as a primary school teacher in Rehoboth, Namibia, in southern Africa.

"In general, I'm a person who enjoys helping people," admits Chester, who has attempted to bring stability in the region by teaching math, computers and English to students in grades 1-7. "As a Peace Corps volunteer I'm able to use my engineering degree in a unique way that helps people directly."

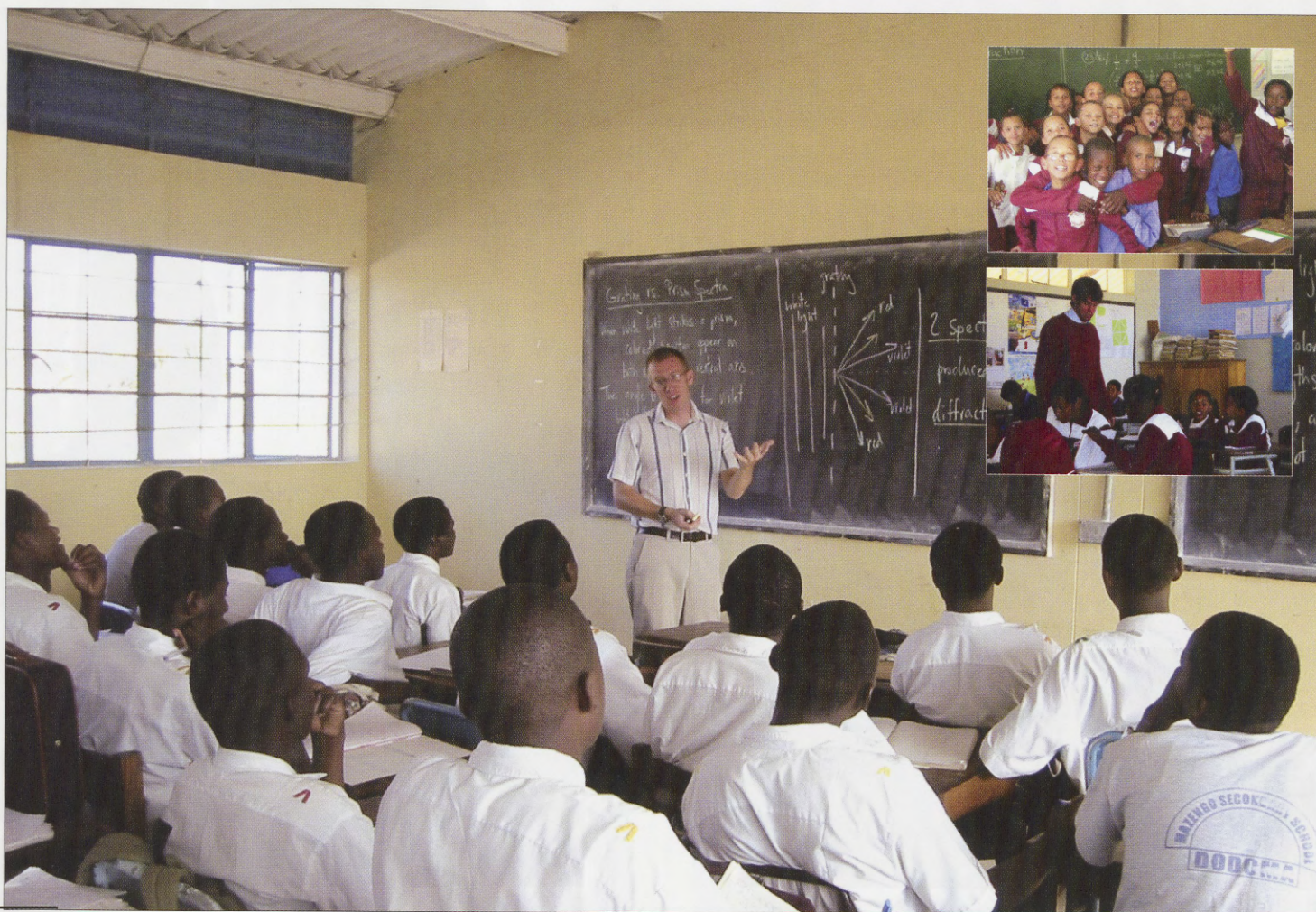
Started in 1961 by President John F. Kennedy, the Peace Corps strives to promote world peace and friendship by helping train men

and women in underprivileged countries. The organization also helps Americans better understand people of other regions.

Schools in Namibia battle a lack of resources, corruption and little quality teaching. A new computer laboratory, with 38 computers, and a school library help open new worlds for Chester's students — despite having outdated computer software and weathered books. The country also has one of the highest HIV/AIDS rates in the world with an infection rate around 30 percent.

"Simply knowing that I'm trying to help where there is an obvious need is satisfying in its self," says Chester, who was a resident assistant and involved in projects for Big Brothers Big Sisters, Habitat for Humanity and March of Dimes at Rose-Hulman.

"I believe that the essence of engineering is problem solving for a better solution. It's satisfying to know at the end of the day that I tried to make a positive difference."



Bryce Clark teaches one of his physics classes in Dodoma, Tanzania, in eastern Africa.

Bryce knows this lesson well. Several of the 750 boys that he taught over two years have continued their education, hoping to become computer engineers, civil engineers, teachers and physicians — professionals who are in great demand throughout Tanzania. One student received a full scholarship to attend an American college.

"I'd like to think that I played a small role," he said. Bryce taught 125 students at a time in one classroom. There weren't enough desks or chairs for everyone. "I figured the Peace Corps would give me some time (after graduating from Rose-Hulman) to reflect on my career choices. It would also give me the opportunity to travel and learn a new culture."

Since returning to the U.S., Bryce has continued serving others. He used a Returned Peace Corps Volunteer Fellowship to earn a nursing degree at Johns Hopkins University School of Nursing, and is now working 12-hour days as a nurse at New

York-Presbyterian Hospital/Weill Cornell Medical Center in New York City. He plans to earn an advanced degree in nursing with the possibility of returning to Africa further help the country's residents.

"It would be great if I can combine my engineering, teaching and nursing backgrounds in whatever I decide to do," said Bryce, who earned a minor in biomedical engineering at Rose-Hulman.

Meanwhile, Chester is also looking for other avenues to help others in an international setting. After expanding his engineering education, he's considering a career in the renewable energy field.

"Large- and small-scale renewable energies could play an important role in developing countries," Chester said. "Namibia is one of the sunniest countries in the world. Months will go by without a single cloud in the sky, making it an ideal situation for the use of solar power." ■

Distinguished YOUNG ALUMNI



ANDREW GANT, 1998

Mechanical Engineering

Mechanical Engineer, M3 Design, Inc.

Andrew graduated in 1998 with a bachelor of science degree in mechanical engineering. He began his career at Stryker Instruments in Kalamazoo, Mich., designing medical instruments and producing his first patent, which is currently under review. For the past three years Drew has led the medical device design team at M3 Design, an integrated product development firm in Austin, Texas, where he lives with his wife Erica. Drew enjoys cycling in the Austin hills, expanding his interests in photography and aviation, and leading a Sunday school class at his church.



CHRIS INMAN, 2000

Mechanical Engineering

Director of Operations, Global Hawk Systems Group

Chris graduated in 2000 with a bachelor of science in mechanical engineering and in 2002 with an M.S. in biomedical engineering. His first job was with the Air Force Aeronautical Systems Center redesigning the cockpit for the F-22, F-35 and C-5. His next assignment was in the Reconnaissance Systems Wing where he managed the development of the RQ-4 Global Hawk pilot vehicle interface. Chris served three tours in Southwest Asia as Liaison Officer in support of Operation Enduring Freedom and Operation Iraqi Freedom. Today, Chris is responsible for maintaining world wide operations for the Global Hawk program.

The award recognizes Rose-Hulman graduates from the last ten years with notable endeavors in the areas of career achievement, continued education, community service and/or commitment to their alma mater. The selection of the award recipients is made by the Young Alumni Council in association with the Alumni Affairs Office. The Distinguished Young Alumni awards are presented at Homecoming.



WILLIAM MIDDENDORF, 2001
Mechanical Engineering

**Engineer,
Shiel-Sexton**

William graduated in 2001 with a bachelor of science in mechanical engineering. After graduation in 2001, he served as a U.S. Army Combat Engineer Platoon leader where he led 30 soldiers into combat during Operation Iraqi Freedom in May 2003. During his last year of active duty, he worked at the Headquarters United States Army Europe G3 Planning and Operations. Currently, William is pursuing his M.S. in mechanical engineering at Rose-Hulman and was employed for the summer in Indianapolis doing general contracting work on large commercial and industrial buildings around the state of Indiana.



NICHOLEE NIETCH, 2001
Mechanical Engineering

**Senior Systems Engineer,
Lockheed Martin**

Nicholee graduated in 2001 with a bachelor of science in mechanical engineering. She received her M.S. in aerospace engineering in 2002 and began working full time for Lockheed Martin as a systems engineer for the Mars Reconnaissance Orbiter. Nicholee was the lead sequencer for the Mars Reconnaissance Orbiter's critical Mars orbit insertion maneuver, contributing to its success on March 10, 2006. She was responsible for designing, developing and testing the on-board programs that controlled the spacecraft throughout the entire orbit insertion event.



GREG HENNEKE, 1975

Executive Vice President, American Consulting, Inc.

Graduating in 1975 with a bachelor's of science in civil engineering, Greg oversees the transportation division, the survey and environmental departments and all aspects of public works and transportation, engineering, science and surveying. Greg is also responsible for American Consulting offices in Terre Haute, South Bend and Gary. He is a member of the Department of Civil Engineering Advisory Board, and has organized and contributed to the annual American Consulting Inc. alumni scholarship fund. Greg currently serves as the vice chairman of the Indianapolis Greenways Advisory Committee.

KELLY KOZDRAS, 1999

Project Engineer, Raytheon Polar Services Corporation

Graduating in 1999 with a bachelor's of science in electrical engineering, Kelly began her career with AmeriCorps. She worked with the MTA New York City Transit as an Electrical Engineer. Kelly operated the control system of a greenhouse at South Pole Station, Antarctica, and recently spent the summer as a volunteer for Engineers for a Sustainable World. She assisted in construction of a water treatment plant in rural Honduras and trained local people as plant operators. In addition, she serves as an engineering mentor for an all-girls high school competing in FIRST Robotics Competition. Kelly is active in Society of Women Engineers.



Honor Alumni

Recipients of the Honor Alumni Award are selected based on their (a) loyal, unselfish and meritorious service in furthering the interests of Rose-Hulman, (b) contributing to the national interest of our country, (c) professional achievement. Rose-Hulman honors four alumni with this honor each year. Recipients are recognized during Homecoming.



MAJOR JOEL MAGSIG, 1994

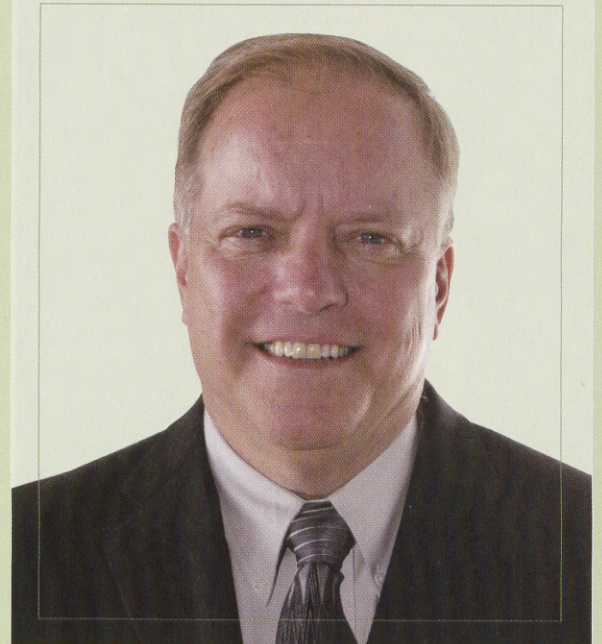
Student, Command and General Staff College

Joel Magsig graduated in 1994 with a bachelor's of science in mechanical engineering, and was commissioned as a second lieutenant in 1994 in the Aviation Branch of the U.S. Army. Joel commanded A troop, 2d Squadron, 6th Cavalry in Germany, and led that unit through the initial onset of combat operations in Iraq in 2003. Under operational control of the 3rd Infantry Division, the 2d Squadron, 6th Cavalry was instrumental in the seizure of Saddam International Airport, allowing our forces to quickly overpower the Iraqi Army and Saddam's Fedeyeen Loyalists.

TOM MERRILL, 1971

Director, Heavy Duty Alternator Engineering, REMY Inc.

Graduating in 1971 with a bachelor's of science in mechanical engineering, Tom has held numerous positions with General Motors / Delphi Corporation as manager ignition engineering, manager generator engineering, manger electrical controls engineering, manager current systems improvement group engine controls (GM Proving Grounds Milford Mich.), general supervisor manufacturing, and global generator product Team Leader. Tom retired from Delphi Corporation in 2001. From 2002-2006 he served as program manager for Remy Inc. Tom is currently director of heavy duty alternator engineering. Tom participated on GM and Delphi lead recruiting teams for Rose-Hulman for 25 Years.





RICH CORRELL

Defining Leadership — A Standout Career in U.S. Navy

Rich Correll has enjoyed a standout career as a decorated leader within the United States Navy.

Correll has received five Navy Commander Medals, two Meritorious Service Medals and a Legion of Merit honor. He was also chosen from 50 submarine Commanding Officers as a nominee for the James Bond Stockdale Award for Inspirational Leadership in 2004. His nine assignments in 20 years have included three significant leadership roles on key vessels that resulted in awards from the Navy.

"I've been very fortunate. I've experienced both demanding and laid back leaders, but each style has been effective. The honors we have received are a credit to the individuals on the ships for performing their jobs extremely well," said Correll.

Currently, Correll serves as Executive Assistant to the Director of the Naval Reactors Program and reports directly to Admiral Kirkland H. Donald. He began this role in December, 2005, and expects to serve in that capacity for the two to three-year cycle that encompasses many positions in the Navy.

The program is responsible for the complete design, building, implementation and decommissioning process of 400 reactors. The process includes training, design and delivery components.

Correll also oversees the training of military personnel for their individual roles in the program. His position includes interaction with senior level personnel in the Departments of Defense, Energy and Navy.

Previously, Correll's vessel experience included serving as an officer of the USS Topeka and the USS Buffalo. He also served as a Navigator for the USS Rickover and a Junior Officer on the USS Henry M. Jackson. Most recently, Correll directed the USS Topeka as the Commanding Officer from May, 2003, through December, 2005.

Career Achievement AWARDS



DAVID LAKEY

Making a Medical Difference, Thousands of People at a Time

After spending the last 16 years helping patients as a physician, David Lakey (Chemistry, '86) has removed his stethoscope to keep Texas residents prepared for public health issues, including infectious diseases and terrorist attacks.

Lakey was recently named commissioner of Texas' Department of State Health Services, being in charge of more than 11,000 employees and an annual budget of \$2.5 billion. He had been chief of infectious disease and medical director of the Center for Pulmonary and Infectious Disease Control at the University of Texas Health Center in Tyler, developing infectious disease/HIV clinic and inpatient services throughout eastern Texas.

The terrorist attacks of 9/11 expanded Lakey's responsibilities to include development of a program and curriculum for bioterrorism and disaster training. He also developed the medical and public health management plan for his county in response to hurricanes Katrina and Rita. During Rita, the area opened 22 new shelters to assist 3,700 evacuees. One of these shelters, under Lakey's direct supervision, cared for over 300 individuals with medical special needs and became a national model for medical special needs shelters.

"As a physician, you have a real chance to make a difference, not only to one person but thousands of people," Lakey said.

Lakey is board certified in both adult and pediatric infectious disease. After graduating with honors from Indiana University School of Medicine in 1990, he did his residency in internal medicine and pediatric medicine at Vanderbilt University Medical Center, from 1990 to 1994, and he completed a fellowship in adult and pediatric infectious disease there in 1998.

STEVE MAIER

Creative. Independent. Hands on – A Strategy for Success

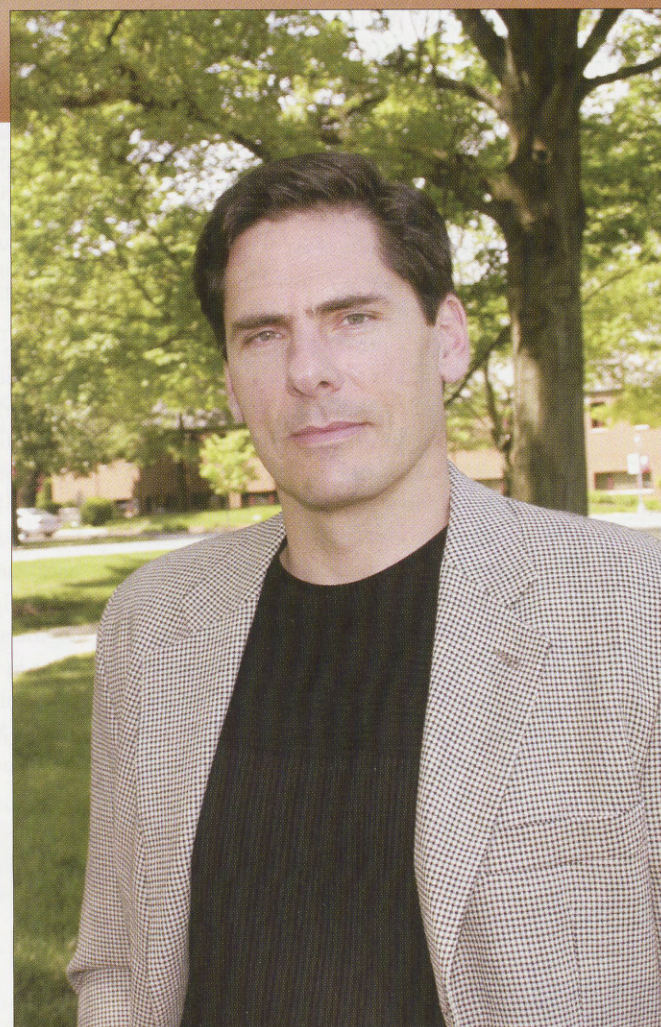
Creative. Independent. Hands on. Those words describe Steve Maier's strategy for successfully growing Innovative Composite Engineering, a company developing new composite technologies.

"I like to get my hands dirty," Maier stated. "I like to build it, not just design it," said the Iowa native. His company's composite tubing is used on the space shuttle and resides on the top of Mt. Everest among many other less glamorous roles. Producing carbon fiber, cantilevered chairs for Polo Ralph Lauren was one of the company's tougher engineering challenges.

Maier's early mechanical engineering career with a Fortune 500 company confirmed his interest in manufacturing. However, that job was hampering his creative instincts to do things a different way. "I often did a design and then sent it 'over the wall never to be seen again,'" he explained. "I wanted a job where design and manufacturing were connected." Maier designed and built the manufacturing equipment needed to start his company and still does all equipment designing in house.

His company's success has been built on producing a specific product, carbon fiber tubing, which attracts a diverse customer base. Even though the company's growth has been steady, Maier notes that the company's development from two employees to 42 was not without mistakes and "living hand to mouth." It's not all work and no play for Maier. "Work hard, play hard" is his motto. It was his interest in wind surfing that helped him decide to locate on the west coast. The company's informal work environment mimics his fondness for having fun. Not many CEOs share their office with a golden retriever.

A fire in 1995 that destroyed his company confirmed one of his core business beliefs. "I realized then, it's your employees that make the company," said Maier. Twenty-one days after the fire, the company resumed shipping products from its White Salmon, Washington location.



BOB NORDYKE

Seeing the Human Side of Science

Bob Nordyke describes his career as somewhat eclectic, but he credits his Rose-Hulman education as an anchor that has served him well in various arenas. Two key lessons he carries with him 20 years after receiving his mechanical engineering degree are: learning how to solve problems and seeing the human side of the business of science.

Nordyke's career has taken him to major corporations working on space shuttle and moon base projects for Lockheed, satellite defense technologies for Thomas-Scifers Inc., international health-care research, and teaching in the university classroom at University of California.

Currently, he is executive director of global research for Amgen, a company that discovers, develops and delivers innovative human therapeutics. Prior to that, he was director of outcomes research for Cerner Health Insights.

He saw the human side of science come to life for him during a two-year stint in Macedonia where he did community outreach and ran research projects on a World Bank-sponsored project to reform their post-Socialist health care system. "This was quite rewarding in many ways," Nordyke said. "We really did transfer technology to the country's ministry of health staff to help them take control of their own insurance and health care system."

Serving his local communities has been important to Nordyke as well. He has served as a reading tutor at a shelter for homeless, single mothers in Watts, Calif, and in Macedonia he helped deliver medical aid to rural areas.

ALUMNI RETURN TO RECRUIT CURRENT STUDENTS; NETWORK VITAL TO SPREADING COLLEGE'S REPUTATION

BY DALE LONG



Rose-Hulman alumni returned to campus from Cedar Rapids, San Diego, Toledo, Phoenix and Indianapolis this fall to help their companies review current students and encourage their being hired for full time, internship and co-op positions.

A total of 154 alumni participated in the career fair in October – meaning that more than one out of every three company representatives was a Rose-Hulman graduate. Forty-eight percent of the 180 companies were represented by an alumnus.

“The alumni network is vital to spreading Rose-Hulman’s reputation across the country,” says Kevin Hewerdine, Rose-Hulman’s director of career services and employer relations. “It also is a great indicator of the passion Rose-Hulman alumni have in giving back to the school.”

“Who better to know what we’re looking for in a Rose-Hulman student than a Rose-Hulman graduate?” asked Nathan Subbert (Comp. Eng., ’98), senior electrical engineer for Rockwell

Sarah Everett, a 2006 chemical engineering graduate now with Eli Lilly and Company, reviews summer internship options with a current student. Lilly was among several company looking to fill internship positions during the fall recruiting season.



Proud of Rose-Hulman: Larry Lynch (Mech. Eng., ’74), senior design specialist at Caterpillar, is among alumni that return to campus annually to encourage Rose-Hulman students to consider joining the college’s alumni base with the Peoria, Ill.-based company.

Collins, an aviation electronics and communications company that has become one of the leading companies at hiring Rose-Hulman graduates.

“The students that we have brought in have impressed our leaders and made contributions to the company. We’re back for more,” Subbert said.

Craig Pohlman (CS, ’00), software engineer for Lockheed Martin’s operations in Litchfield Park, Ariz., added, “Not only do we know the school best, but we have proven ourselves in the workplace . . . We’re (alumni) helping to

grow Rose-Hulman’s reputation through our work.”

Jeff Gilbert (Mech. Eng., ’85), president of Indianapolis’ Software Engineering Professionals, is hoping to add to the list of 40 Rose-Hulman alumni who have contributed to the information technology company’s success.

“Rose-Hulman’s culture of hard work, hands-on projects, team work and dedication to the task at hand fit very well with our company,” he says.

Fortune 500 glass container manufacturer Owens-Illinois Inc. was among the 25 percent of first-time companies recruiting this fall at Rose-Hulman. James Nordmeyer (Chem. Eng., ’78), vice president for production planning and logistics, was searching for students to fill anticipated future openings in engineering fields.

“We’re here because of what Rose-Hulman graduates can do to make us a better company,” he says.

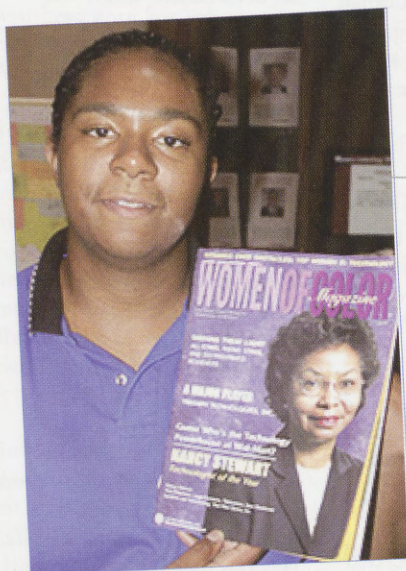
Larry Lynch (Mech. Eng., ’74), senior design specialist for Caterpillar, was helping interview students for mechanical engineering, electrical engineering and computer science positions. “We want the best (students) and that means we have to be here.”

That feeling was echoed by Eli Lilly and Company, which was seeking persons for summer internship positions. “We’re always looking one or two years ahead and trying to attract the best juniors and sophomores (college students) to fill our potential pool of employment candidates,” says Becky Smith (Chem. Eng. ’99), a senior process engineer. “We like the Rose-Hulman students’ ability to work independently on projects. They’re self-starters. We can hand the students a project and it gets done on time, with little supervision.” ■

ALUMNAE L'NETTA MOSS SELECTED AMONG RISING STARS OF TECHNOLOGY

L'Netta Moss keeps her bags packed and her engineering skills sharp in a budding career in automotive manufacturing for General Motors Corporation that's been recognized with the Rising Star of Technology Award from the Women of Color Magazine.

The award celebrates the accomplishments of women of color who are early in their careers (under age 30) but who, through significant accomplishments in their field, have already made a great impact on shaping technology for the future. The honor also encourages young people — particularly young girls — to



L'Netta Moss with a copy of Women of Color magazine.

reach their potential. Winners are selected based on their professional accomplishments, job responsibilities and contributions to their particular field.

Moss, a 2000 Rose-Hulman Institute of Technology electrical engineering graduate, was recognized at the National Women of Color Technology Awards Conference.

"It's a great compliment and very rewarding," admits the Gary, Ind., native. "The award is a great stepping stone that opened my eyes to inspirational women engineers and technology leaders. It was very empowering, boosted my self-image and developed my desire to do even more."

Moss serves as a manufacturing engineer at GM's Tech Center in Pontiac, Mich. However, she has spent most of her six years shuttling to work assignments at GM production plants as far away as Korea, Mexico and Canada, or as close as Indiana, Michigan and Ohio. She started a new project on Sept. 1 at GM's Ramos Arizpe assembly plant near Saltillo, Mexico.

"I have progressed from concentrating in systems for the wheel well of a

People have to appreciate those differences," she stated. For Moss, she didn't know anyone in Korea and didn't know the language when she was assigned to work in the country.

"I survived by getting to know the people. And, of course, the engineering and physics aspects of a project were nearly the same. The elements of engineering are a universal language," Moss said. "You sit in a meeting and understand everyone, how different cultures relate and how you're able to adapt to that environment."

During her own days at Rose-Hulman, Moss served as president of the National Society of Black Engineers, was an officer in the Student Activities Board and member of the student chapter of the Institute of Electrical and Electronic

" I like to give and receive. I see a benefit and there's a personal satisfaction in giving back. You can never share enough. "

vehicle to now having responsibility over the entire car. That's very satisfying, but keeps me very busy," Moss stated during a recent trip to Rose-Hulman. She talked to members of this year's freshman class during a workshop, organized by the college's Diversity Council, which was part of the new student orientation program.

Moss urged the students to learn from each other, seize opportunities to know people from different cultures and come out of their "comfort zone."

"Today's engineers work in a diverse environment, coming in contact every day with people that have differences.

Engineers. She continues to be involved in volunteer activities during her professional career, whenever possible, by serving as a mentor for high school FIRST Robotics and middle school Lego League competition teams, and spends one day each week encouraging school children, especially female students, toward careers in engineering, science and technology. She also serves as a liaison to NSBE's national organization.

"I like to give and receive. I see a benefit and there's a personal satisfaction in giving back. You can never share enough," she said. ■

Class Notes

1957

Tom Pebworth (Ch.E.) married Lynn Hollis Doyle last May. They dated when Tom was at Rose 50 years ago.

1962

Brent Robertson (C.E.) updates us that he is enjoying retirement in Carmel while establishing his deco concrete business. He can also update you about his new granddaughter and his 1967 Pontiac GTO project.

1971

Danny Peelman (M.E.) is director of sales and marketing for Timken China, the third largest bearing company in the U.S.

1972

Mark T. Owens (Ch.E.) retired from Eli Lilly last June as director, global facilities delivery. He spent 34 years with Lilly at Indiana locations in Lafayette, Indianapolis and Clinton along with a five-year stint in Ireland. He spent time in development, planning, manufacturing, human resources, and, of course, engineering. He and his family remain in Zionsville, Ind.

Steve Sedgwick (M.E.)

has finished a contract as lead construction coordinator for the Toyota Truck Assembly Plant in San Antonio, Texas. The construction included more than two million square feet of plant on a 1,200-acre site.

1974

Dennis J. Paustenbach (Ch.E.) received an honorary doctor of science from Purdue University last May. He was recognized for his leadership, academic contributions and entrepreneurial achievement in the field of toxicology and human health risk assessment.

1975

Douglas Meurer (C.E.) has been hired as Lee County utilities director in Lee County, Florida.

1979

John Rasp (Math.), a statistics professor at Stetson University, recently was honored with that college's 2006 McEniry Award for Excellence in Teaching, the highest award given on the campus. He has taught at Stetson for 17 years.

1980

Jack Wickham (Ch.E.) has been named director of the Ace Paint Division for the retailer-owned hardware cooperative. He will oversee all operations at the two Ace Paint manufacturing plants in Matteson and Chicago Heights, Ill., and sales of Ace Paint and related sundries to retailers.

1981

Chris Thomas (C.E.) bicycled more than 540 miles in seven days from San Francisco to Los Angeles last June as part of AIDS/LifeCycle 5, which raised more than \$8 million for HIV and AIDS services and prevention. He is an editor at The Fresno Bee newspaper.

1982

Chris Mack (Physics/E.E./Chem./Ch.E.) has been named a fellow of the International Society for Optical Engineering (SPIE). He

was recognized for his achievements in optical lithography.

1985

Roger VanderSnick (M.E.) became vice president and chief marketing officer for International Speedway Corp. last spring. He went to the job from NASCAR, where he was vice president of marketing.

1986

Lowell Anderson (E.E.) has been appointed vice president of marketing for SchemLogic, a leader in business semantics management and integration for Global 5000 companies.

William R. Bradford (E.E.)

has been named senior vice president of global sales for Freescale Semiconductor. He brings more than 20 years of semiconductor sales experience to the company.

David Zabel (E.E.) changed jobs last spring and now is regional sales director for WESCO, based in Daleville, Ind. He supervises WESCO's sales and technical support staff to the electric utility market in Illinois, Indiana, Ohio, Michigan and parts of Kentucky and Pennsylvania. He previously worked for Reed City Power Line Supply as a sales engineer. He and his wife, Jan, and their three children continue to live in the Center Grove area just south of Indianapolis.

1987

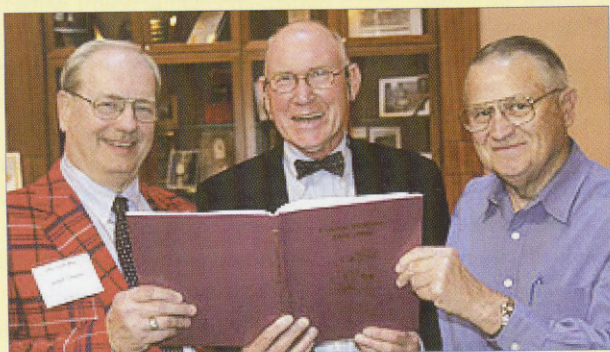
Alan Snedeker (M.E.) and his wife, Kate, welcomed daughter Cara Mae, last spring.

1988

Brock Ridgway (C.E.) started his own civil engineering firm last year. Called Eagle Ridge Civil Engineering Services, the firm serves public clients

CLASS OF '56 CELEBRATES WITH GOLDEN MODULUS

In celebration of their 50th class reunion, members of the Class of 1956 produced a 141-page book called the "Golden Modulus, 1956-2006." It chronicles what has been happening in the lives of members since their graduation and it includes essays by class members about changes they have witnessed since their time out of school. To learn more about it and to read a review by Julia Williams — executive director, Office of Institutional Research, Planning and Assessment and professor of English — visit the Web site at <http://www.rose-hulman.edu/alumni-affairs/goldenmodulus.htm>.



Golden Modulus co-editors and co-chairs, from left: John Chinn, Bill Gaither and Owen March

in the planning, design and construction inspection of road, drainage and recreational path infrastructure improvements.

1989

Todd Cartwright (M.E.) has been promoted to sales director for CB&I Constructors in Perth, Australia. He has relocated to Perth with his wife, Maria, and their three children.

Steve Maier (M.E.) and his wife, Diane became parents on Jan. 1 when Rhys James Maier was born.

1990

Joseph A. Hentz (M.E.) reports he and his wife, Cheryl, welcomed their third son, Matthew, born last February. He joins siblings James and Anthony.

1991

Robert "Rob" Williams (M.E.) married Dacki Campbell last summer. He has accepted a new position with XL Insurance Co., Bermuda, has a senior loss prevention specialist in the property division. He also passed the Certified Fire Protection Specialist examination.

Bob Burger (C.S./Math.) reports son Benjamin was born last April. Sisters Elizabeth, Ruth, Sarah, Maria and Hannah were delighted to have a brother.

1992

Peter Wayne Hinzy (M.E.) received the Young Manufacturing Leadership Award from the SAE Foundation at its annual banquet last spring. Peter is manager of operations and engineering for the Robert Bosch Corp., Albion, Ind. The award recognizes young men and women, under age 35, who have made significant accomplishments as manufacturing leaders.



<http://www.rose-hulman.edu/homecoming/>

Dejan Nenov (CPE) has been named chief technology officer for Safari Books Online. He is part of an executive team that focuses on the next generation of Safari's Publishing platform and expanding U.S. and global sales.

John D. Whitworth (C.E.) reports the birth of second daughter, Megan Rose, born last spring. She joins big sister Elise Katherine. On the career front, John has been promoted to consultant services manager for the Indiana Department of Transportation's Crawfordsville District.

1993

Dan Corey (C.E.) was elected to serve a four-year term as Deerfield Township Trustee in Ohio. He serves on a board serving nearly 30,000 people with a \$12 million budget. Also, he became the second employee of a startup development company called Thomas J. Ackermann Co. that develops land into residential, commercial and office uses in the Greater Cincinnati Area. He reports the most significant even in his life during recent years has been a missions trip to Vidin, Bulgaria.

1994

Paul Neukam (M.E.) and his wife, Terri, had their third child, Canon Jacob, born last January. He joins sisters Madyson and Taylor.

1995

Michael A. Benefield (Ch.E.) married Trisha K. Pruitt last February. They relocated to Austin, Texas, where Michael works as a patent attorney for Vinson & Elkins, LLP.

1996

Todd Adams (M.E.) and his wife, Jill, announce the birth of their second daughter, Kelsey Erin, born in February.

Craig Cutforth (E.E.) and his wife, Liane, announce the birth of daughter Elyse Annae, born last April.

Damon Fraylon (E.E.) married Donyale Lindley on June 17. He has received his MBA from the Jones Graduate School of Management, Rice University.

Tim Ground (M.E.) and his wife, Sarah, announce the birth of daughter Ella, born last February. She joins sister Olivia.

Chris Riley (M.E.) and **Jill Riley (Ch.E., '99)** welcomed second child, Paige Lauren, born May 7. She joins brother Nathan Lucas.

1997

Bob Flaherty (Ch.E.) accepted a job as an innovation engineer with Ampac Flexibles in Cary, Ill.

Carl Tracy (Phy./Math.) has started a new job with Nationwide Insurance as a manager of quantitative analysis.

Jamie Weller (Ch.E.) and family welcomed Gavin James to the family on May 17. He joins sister Grace.

1998

Steve Clouse (E.E.) and **Susan Clouse ('01, M.E.)** welcomed the newest member of their family on July 5 when Logan Patrick was born.

Kent Elliott (C.E.) married Tia L. Dayhuff-Lowhorn last year.

Dan Prentice (CPE) and his wife, Alison, had their second child, Ethan Arthur, who was born last year.

1999

Chris Bradley (E.E.) and his wife, Janene, welcomed their first son, Isaiah James, born Feb. 17.

Kraig Jakobsen (E.E.) graduated cum laude from Northwestern University School of Law last year. He practices patent litigation for the firm of Fish & Richardson, P.C., in Minneapolis.

Kyle Lacey (Math./Econ.) has been named the interim team lead for the HAVE CENTAUR Algorithm Analysis and Development team at Raytheon Space and Airborne Systems in El Segundo, Calif. He is the youngest person ever to hold this position, and he is a senior systems engineer with Raytheon.

Robert M. Nichols (M.E.) has been promoted to engineering supervisor in General Motors' powertrain plant in Livonia, Mich. He oversees the assembly and industrial engineering groups.

Friso Schlottau (A.O.) has defended his Ph.D. thesis "Multidimensional Signal Processing in Spatial-Spectral Holographic Media" at the University of Colorado. He now works at Inphase Technologies in Longmont, Colo.

Dan West (Ch.E.) and his wife, Andrea, welcomed their first child, Kaitlyn Diane, last year. Also, Dan has taken a position as technical director of Print-O-Tape, Inc., in Mundelein, Ill.

2000

Adreanne Czuba (M.E.) married Michael Lipka, Jr., last July. She also completed her M.B.A. from the University at Buffalo last May.

Curtis Huttenhower (C.S./Math.) has received a teaching award given annually to graduate students at Princeton University. He was one of the winners of the Association of Princeton Graduate Alumni Teaching Award for his work in that university's computer science department.

David Lawrence (M.E.) and **Jennifer Krause Lawrence (C.E., 2002)** welcomed Evan David, who was born last year. He joins sister Katie.

Catherine Miller (Chem.) finished her Ph.D. in human nutrition at the University of Illinois at Urbana-Champaign last December. She now works at the Museum of Science and Industry in Chicago, developing exhibits about how the human body works.

Rusty Nichols (M.E.) and his wife, Michelle, welcomed

their first child, daughter Addison Elizabeth, born last year. Also, Rusty has accepted a new position as a mechanical engineer with Gibraltar Design in Indianapolis, and he has received his Indiana professional engineer's license.

Alan (E.E.) and **Ericka (Ch.E., '02) Study** announce the birth of daughter Courtney Amber, born last July.

2001

Matthew Kahle (C.E.) married Kelly Whittlinger last March. He is an associate engineer-structural at Opus Architects and Engineers in Minnetonka, Minn.

Justin McKinley (C.S.) married Stephanie Farrell last May. Kyle also defended his Ph.D. thesis at Rice University last May. He has entered a post-doctoral position at Duke University.

2002

Kyle Allen (M.E./Econ.) graduated from the Indiana University School of Law last year. He has been admitted to the Indiana Bar and works as a patent attorney for the Indianapolis law firm of Woodard, Emhardt, Moriarty, McNett & Henry LLP.

Jake Isenburg (Ch.E.) and his wife, Mary, welcomed daughter Alexandra Marie last December. He received his Ph.D. in biomedical engineering at Clemson University last August.

Beth Strohm Kozman (M.E.), a member of the inaugural group of Orr Fellows, has been admitted to the Harvard Business School's MBA program.

Melva Lucas (Ch.E.) married Gregory Holt April 8. The couple resides in Murfreesboro, Tenn., where Melva works for General Mills.

RENOVATION AND REGENERATION

Several Lambda Chi Alpha alumni and actives gathered this fall to renovate the front of the Lambda Chi Alpha house at the east edge of campus. To assist with the effort, the Alumni Association provided lunch for the volunteers.

To read more about this effort, visit the Web site at: <http://www.rose-hulman.edu/alumni-affairs/lambdachi.htm>.

Maggie Lelak (Ch.E.) and Chris (E.E., '03) report the birth of their first child, Kelby Jean, born July 11. Maggie and Chris have transferred to Belews Creek Steam Station in North Carolina from the Wabash River Generating Station in Terre Haute.

2003

Matthew Lecher (M.E.) and Alison Burgess (Ch.E.) were united in marriage April 22. Matthew is a project engineer for Warehouse Equipment and Alison is a tech service rep for Eli Lilly and Co. The couple resides in Mooresville, Ind.

Jason Wayne Short (M.E.) married Laura Kathryn Ward last May. Jason is the general manager and engineer for Central Window in Vero Beach, Fla., where he is pursuing his Florida PE license.

2004

Brian Brecheisen (E.E.) wed **Stephanie Smith (B.E., '05)** July 8. Brian is project engineer for Olympic Wire & Equipment in Newport Beach, Calif. Stephanie is pursuing her master's degree of bioscience at Keck Graduate Institute in Claremont, Calif.

Jill Kurdys Olecki (M.E.) married **Dave Olecki (M.E., '05)** on July 15.

Mike Martin (C.P.E.) married Jennifer Swaim June 17 in White Chapel on campus. Mike is a process improvement engineer with ProTrans International in Indianapolis.

Jon Pohlman (M.E.) recently completed his master of science in mechanical engineering at the University of South Carolina in Columbia, S.C., when he defended his thesis

LEGACY GRADUATES



Each year, Rose-Hulman is proud to have sons and daughters of Rose-Hulman alumni graduate from the college. All alumni pictured are fathers of their respective students. From left: Eric Monhaut, Philip Monhaut (1978, Ch.E.), Joseph Gland, Thomas Gland (1971, M.E.), Matthew Whitaker, Cecil Whitaker (1981, M.E.), Therese Scheibelhut, Paul Scheibelhut (1971, M.E.), Kimberly Krug, William Krug (1971, E.E.), Jenny Matheny and Tim Matheny (1981, M.E.)



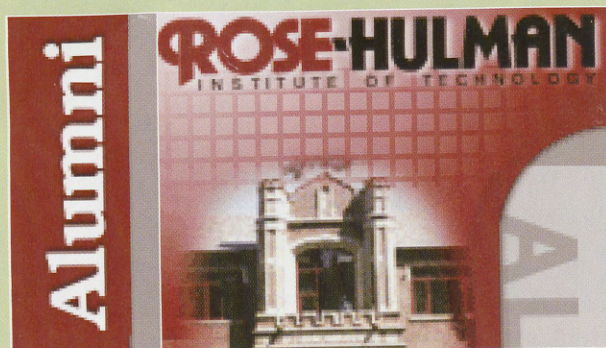
Each year, Rose-Hulman is proud to have sons and daughters of Rose-Hulman alumni graduate from the college. All alumni pictured are fathers of their respective students. Paula Ditteon, Richard Ditteon (1975, Phy.) Abigail Richards, Mark Richards (1980, C.E.), Matt Jones, Don Jones (1973, E.E.), Dan Dominik, Mike Dominik (1976, Phy., Math.) Zach Lytle, Tom Lytle (1971, M.E.), Bryan Woodard, and Mike Woodard (1973, M.E.).



Each year, Rose-Hulman is proud to have sons and daughters of Rose-Hulman alumni graduate from the college. Unless otherwise specified, all alumni pictured are fathers of their respective students. From left: Seth Myers, Byron Myers (1968, M.E.), Mike McClurg, Carl Wokasien, (grandfather, 1951, E.E.), Ross Miller, Otto Miller (1977, E.E.), Victoria Taylor, Mike Taylor (1982, E.E.), Megan Whitaker, Steve Whitaker (1981, M.E.), Sarah Trout, and Mark Trout (1978, E.E.)

ONLINE ALUMNI DIRECTORY UPGRADED

Keep up with the latest about your classmates through the Rose-Hulman Online Alumni Directory. New features have been added in recent months. Check it out at <https://alumni.rose-hulman.edu/>.



TWO ALUMNI TRIPS PLANNED

The Rose-Hulman Alumni Association is planning two exciting trips for later this year. From June 27-July 7, alumni can join President Gerald Jakubowski and his wife, Lynn, on a cruise trip of the Hawaiian Islands.

In October, alumni can join fellow alumni on a trip to Ireland that runs from Oct. 6-13.

For more information about either of these trips, contact Brian Dyer, alumni director, at 812-877-8359 or via e-mail at brian.dyer@rose-hulman.edu. You can also obtain further details on the Web at <http://www.rose-hulman.edu/alumni/fairs/index.htm>.

titled "Quasi-static and Dynamic Tensile Properties of Friction Stir Welded Aerospace Alloys." He has taken a position with the Timken Co. in its automotive thrust bearings group located at Clemson University's International Center for Automotive Research.

2005

Robert Memering (M.E.) a student in the master of business administration program at Indiana University's Kelley School of Business has been awarded the Terry R. Hersberger Entrepreneurial Scholarship for the 2006-07 academic year.

ROSE-HULMAN LICENSE PLATE UPDATE

Hey, Indiana residents, the Rose-Hulman license plate now is available directly from the Bureau of Motor Vehicles. Just stop by your local license branch and ask for the Rose-Hulman license plate. No authorization form will be required from the Alumni Office at Rose-Hulman.

How will Rose-Hulman get my \$25 contribution?

The Bureau of Motor Vehicles will collect and forward the \$25 contribution to the Rose-Hulman Alumni Association. The funds raised by the Rose-Hulman Collegiate License Plate program typically provide \$40,000 in scholarships to Rose-Hulman students.



Questions?

If you have any questions, please contact our office at (812) 877-8976 and ask for Trudy Sladek or send her an e-mail at trudy.sladek@rose-hulman.edu.

KEEPING IN TOUCH WITH ROSE-HULMAN

My alumni record should include this important news:

Name _____
 Class Year _____ Degree _____
 Address _____
 City _____
 State _____ Zip Plus Four _____
 Telephone: Home _____ Work _____
 Fax _____
 E-mail: Home _____
 Work _____
 News for Echoes _____

- ☐ Promotion
- ☐ New Job
- ☐ New Address
- ☐ New Telephone
- ☐ Marriage
- ☐ Death
- ☐ Birth
- ☐ Award, Honor

SEND TO: Editor, Echoes, Rose-Hulman Institute of Technology, 5500 Wabash Avenue, Terre Haute, IN 47803
 OR E-MAIL: bryan.taylor@rose-hulman.edu

FALL 2006

OBITUARIES

1933

Roger C. Peugnet (Ch.E.) has died, according to reports received in the alumni office.

1943

Robert P. Davis (Ch.E.) died April 12.

William Turner (Ch.E.) died April 7 in Alexandria, Va. He had worked for 33 years as a materials engineer at the Naval Avionics Facility in Indianapolis. He pursued a lifelong interest in collecting fossils and minerals, with much of his collection being donated to the Indianapolis Children's Museum.

1944

Robert H. Dinkel (E.E.) died April 6. He was founder and chief executive officer of Sycamore Engineering. Survivors include his wife of 61 years, Mary Jean, and three sons: Jerry, Tom (M.E., '72) and Bill.

1947

Robert W. Dunham (E.E.), of Cedar Rapids, Iowa, died Feb. 1. Survivors include his wife, Phyllis and children, Sabra Dunham, Geoff Dunham and Deb Statter. He spent his professional life designing electrical control devices for which he had numerous patents. After retiring in 1983, as chief engineer of Square D., he bought a sawmill, which was located on his 90-acre farm.

1949

William E. Brown (E.E.) died Jan 12, according to word received in the alumni office.

George W. Mitchell (C.E.) passed away Feb. 4. He was a retired vice president of Boise Cascade. He is survived by his wife, Betty, and daughters, Connie and Colleen. He was a resident of Louisville at the time of his death.

1951

Harold F. Spence died Jan. 17. Survivors include his wife Virginia and sons Thomas, Stephen and Michael.

1953

Harry A. Harris (M.E.) died Feb. 24. He was retired as the chief estimator for Valley Construction, Rock Island, Ill. Survivors include his wife, Violet.

1964

Stephan J. Hoffman (E.E.) died May 13. Survivors include his wife, Jacqueline, son Todd and daughter Jennifer.

1970

Stanton R. Miller (M.E.) died in 2005.

1973

John G. Metz (M.E.) died in 2005.

1975

Paul L. Kotterman (M.E.) died April 13 in Chandler, Ariz. Survivors include his wife Penny.

1981

Kim W. Kixmiller (E.E.) died May 8 in Bloomington, Ind. He was employed as an electrical engineer for Technology Services Corp. Survivors include his wife,

Kim; two sons, Kyle and Kameron; and two daughters Kassandra and Kelsey.

Faculty/Staff

Mary Kathryn Jeffers Collier, 87, died Nov. 12 in Terre Haute. She was a PBX/receptionist for more than 27 years prior to her retirement in 1982. Survivors included her husband, Paul, and a son, Steven. After her retirement from Rose-Hulman, she volunteered for Vigo County Lifeline, having received a annual achievement award. She also served as a volunteer for Terre Haute Regional Hospital and as a tutor at Lost Creek and Sugar Grove elementary schools. She also was active at Mount Pleasant United Methodist Church.

Marolyn Ann Nees, former secretary in the Rose-Hulman Department of Chemistry, died Aug. 7 at the age of 70. She served Rose-Hulman for 15 years prior to her retirement. Survivors included her husband Richard, and children Steven Emmert, Jeff Emmert and Todd Emmert, and stepchildren, Richard Nees, David Nees D.D. Jorgensen and Jeffrey Nees.

Jan Ford, associate director of career services and employer relations, died unexpectedly at her home on July 17. Ford joined the Rose-Hulman staff in 1996 as assistant director of career services and employer relations. She was promoted a year later to associate director. Her work at Rose-Hulman began after a 26-

year career in engineering and recruitment positions with Westinghouse. During her 10 years on the Rose-Hulman staff, she was known for her caring attitude in helping students plan and begin their careers.

Alfred R. Schmidt died January 2 at the age of 80. He was a professor emeritus of mathematics at Rose-Hulman. He retired in the spring of 1995 after a 46-year career as a Rose-Hulman faculty member. He had the third longest tenure of a Rose-Hulman faculty member. In addition to almost five decades of teaching, Schmidt served in numerous capacities for the Institute: Co-designer for the mathematics degree curriculum in 1959; Co-founder and instructor for the pre-freshman Summer Institute (approximately 1960); Co-founder and director of Operation Catapult (1967-1983); and Adviser to the Lambda Chi Alpha fraternity for 21 years. An accomplished musician, Schmidt accompanied the Rose Glee Club and served as its adviser for 25 years, and he played the organ at all commencements from 1959 until his retirement. He also was instrumental in bringing the bell tower to Rose-Hulman as well as providing generous support for organs and pianos in Hatfield Hall and White Chapel. The Alfred R. Schmidt Freshman Mathematics Competition was named in honor of Schmidt.

ALUMNI Events

ROSE-HULMAN CALENDAR

RECEPTION FOR JERRY AND LYNN JAKUBOWSKI

February 11, 2007
Laguna Beach, CA

RECEPTION FOR JERRY AND LYNN JAKUBOWSKI

February 23, 2007
San Antonio, TX

RECEPTION FOR JERRY AND LYNN JAKUBOWSKI

February 24, 2007
Houston, TX

RECEPTION FOR JERRY AND LYNN JAKUBOWSKI

February 25, 2007
Dallas, TX

ALUMNI BOARD MEETING

March 2, 2007
Indianapolis, IN

ALUMNI LUNCHEON

March 2, 2007
Tucson, AZ

RECEPTION FOR JERRY AND LYNN JAKUBOWSKI

March 3, 2007
Phoenix, AZ

RECEPTION FOR JERRY AND LYNN JAKUBOWSKI

March 4, 2007
Denver, CO

GOLD EVENT

March 17, 2007
Washington D.C.

RECEPTION FOR JERRY AND LYNN JAKUBOWSKI

March 18, 2007
Washington D.C.

RECEPTION FOR JERRY AND LYNN JAKUBOWSKI

March 25, 2007
Cincinnati, OH

YOUNG ALUMNI COUNCIL MEETING

April 14, 2007
Indianapolis, IN



A ROSE-HULMAN HULA HELLO

Some Rose-Hulman alumni have been gathering on Thanksgiving for the past few years. This year, they met on the north shore of Oahu, Hawaii. Picture, from left, front row, are: Shane Stanford (CPE '00), Sara O'Connell (C.E. '00), Catherine Miller (Chem. '00), Tony Ferraro (Ch.E. '00), Rachel Freebairn (M.E. '00); and back row, Trevor Jones (CPE '00), Brian Monacelli (A.O. '00), Ana Witaszczyk (Ch.E. '99), Steve Layland (Phy. '01), Sarah Wruck (M.E. '00). The group also has celebrated in Boulder, Colo., Kansas City, Mo., Key West, Fla., Chicago, San Francisco and New Orleans. Not pictured: Friso Schlottau (A.O. '99), Erin Monacelli, and Ricky Lim.

ALUMNI BOARD MEETING

May 25, 2007
Terre Haute, IN

ALUMNI TRIP – CRUISING HAWAII'S PARADISE

June 27, 2007
Hawaii

YOUNG ALUMNI COUNCIL MEETING

July 28, 2007
Cincinnati, OH

ALUMNI BOARD MEETING

August 10-11, 2007
Location TBA

YOUNG ALUMNI COUNCIL MEETING

September 28, 2007
Terre Haute, IN

ALUMNI TRIP – INTRODUCTION TO IRELAND

October 6, 2007
Ireland

For the latest information, visit the Alumni Association Web site at <http://www.rose-hulman.edu/alumni affairs/>

Recognizing **OUR DONORS**

*Rose-Hulman strives to appropriately recognize our generous supporters by established giving societies named after its founder, Chauncey Rose, and beloved faculty member and dean, Herman Moench. Lifetime gifts totaling more than \$25,000 are considered members of the **Herman Moench Society**.*

The Chauncey Rose Society has three levels:

MEMBERS

To be a member of the Chauncey Rose Society, you must have lifetime gifts totaling more than \$50,000.

FELLOWS

A Chauncey Rose Fellow has contributed more than \$250,000 to Rose-Hulman.

CHIEFTAINS

Total gifts of \$500,000 or more will earn the distinction of being a Chieftain of Rose-Hulman Institute of Technology.

To achieve any of these levels of donor recognition, one may make gifts of cash, property, by trust and or will bequest, or by the establishment of life-income gift arrangements such as gift annuities, charitable unitrusts, or through the Rose-Hulman First Fund, a pooled-income fund.

Annual Giving: Various levels at annual gifts will merit recognition through our annual Honor Roll.

CONTACT US

To make a gift to Rose-Hulman or to learn more about our giving societies, planned gift arrangements, or corporate and foundation giving, please contact:

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Director of Annual Giving
(812) 877-8159

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and Foundation Relations
(812) 877-8443

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Assistant Director
of Development
(812) 877-8219

David D. Haynes
Director of Planned
Giving
(812) 877-8453

Office of Development
Campus Mail 12
Rose-Hulman Institute of Technology
5500 Wabash Avenue
Terre Haute, Indiana 47803



PARTING SHOT

Approximately 300 Rose-Hulman students, faculty and staff members assembled 420 bicycles and tricycles on a December Saturday for the Exchange Club's Bikes For Tykes program. The bikes and trikes were presented to needy children across western and south-central Indiana.

ECHOES
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