

Spring 2003

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Echoes Staff

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Echoes

ROSE-HULMAN INSTITUTE OF TECHNOLOGY

Spring 2003

Vol. 2002-2003, No. 2

Hatfield Hall Celebration

New building provides theater, alumni center and office space



PRESIDENT HULBERT TO RETIRE JUNE 30, 2004 – Story Inside

ALUMNI FOCUS

Meet CEOs Greg Smith and Mike Mussallem

FULL THROTTLE ECONOMICS

Dale Bremmer brings fast pace to the classroom



heard in the halls of Moench

“

*“You are primarily shaped by your experiences and relationships...
If you want a bland life stew, stick to old meat and plain potatoes, but if you want some spice,
you need ingredients to match. That means new, different and exotic experiences. I submit
that if you have no real options, you are doomed to make the wrong choice.*

So increase your options. Experience makes the man...” ”

— *David Roux, managing director of Silver Lake Partners*

(Speaking at the inaugural speech of “Paths Less Traveled:

The Paustenbach Lecture Series on Uncommon Careers for Engineers and Scientists.”)

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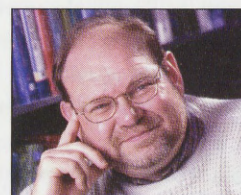


ON THE COVER

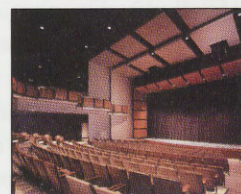
Hatfield Hall opened last fall during a standing-room-only dedication concert by the Terre Haute Symphony. The generosity of the Hatfield family in making the theater/alumni center possible was recognized during the dedication ceremony. Photographer Mike Lanke captured this cover portrait of the family in the new theater they made possible. From left: Deborah Hatfield, Michael Hatfield, Pat Hatfield and Larry Hatfield. To read more about this special addition to campus and Michael's reasons for supporting its construction, turn to pages 14 and 15.



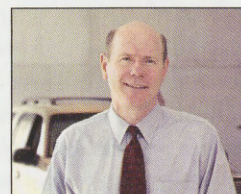
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BACK COVER – Cinergy

Great Days

A LETTER FROM THE PRESIDENT

GOOD TIMES CONTINUE, BUT ROSE-HULMAN DOES FACE SOME CHALLENGES

If cheering for Rose-Hulman ever became a crime, I would be guilty as charged, and this column no doubt would be entered as incriminating evidence. I strive to approach life in a positive manner, and I enjoy using this forum to share with you all of the progressive events happening in the life of Rose-Hulman. The past few years have been marked with success upon success. Our faculty, staff and students continue to achieve at high levels, and our reputation has never been better. Things are going great at Rose-Hulman.

However, I would be remiss if, from time to time, I did not share with you some of the challenges facing our college. While we progress on all fronts as a college community, some issues give cause for concern. Some have been with us continuously, while a few are relatively new. I'd like to share some of them with you now.

Financial aid – This is an issue we have wrestled with for as long as I can remember. There are several extremely talented young men and women who cannot come to Rose-Hulman because of difficulties in paying the cost of one of the country's best educations. Rose-Hulman is the first choice for many prospective students, but they go elsewhere because our financial aid is not sufficient to meet their need. Many colleges can "buy" students through financial aid packages that are more generous than those we are able to provide. Rose-Hulman would like to provide more, but the resources are not always there to meet that need.

Diversity – When our students graduate from Rose-Hulman, they enter a world teeming with people from different cultures and ethnic backgrounds. We have made a concerted effort to increase diversity on campus, but we have a long way to go. Currently, we have more applications from underrepresented persons than ever before. We hope this trend will continue as we strive to increase diversity. This enhances the total educational experience of our students as they gain perspectives from people of all walks of life.

Changing Technologies – An education in engineering and science is one of the more expensive components of higher education because of its technical nature. To provide the most up-to-date and comprehensive technical education, we need to outfit our labs and classrooms with current equipment. If you are a regular reader of this column, you have an appreciation of the project-based nature of the Rose-Hulman education. We give undergraduates access to some very high-end equipment to further their learning experience. The problem lies in the quick-changing nature of technology. What is cutting edge today, could be obsolete in a year. We have an obligation to keep our labs as up-to-date as possible.

Economy – Like most every other college in America, Rose-Hulman has felt the effects of the recent economic downturn. Rose-Hulman depends on finances from its endowment to provide the margin of excellence in our education. During the last three years, we have suffered a \$50 million loss in our endowment because of the drop in the stock market where much of our endowment is invested. That has provided a challenge to adjust our budgets to compensate for the loss, but we are weathering the decline thanks to wise fiscal management by our administration and Board of Trustees.

Life Sciences – This is one of the newer challenges we face. Some of the groundbreaking educational developments are taking place in the life sciences. I believe the life sciences will be to this century what physics was to the previous century. We have made a commitment to this evolving trend through establishing a Department of Applied Biology and Biomedical Engineering supported by qualified faculty. We have made great strides in this area, but we have some catching up to do in the area of facilities. We have programs in place we are unable to launch because we lack the proper lab space for them. We do not want to do it unless we can do it in an extraordinarily good way, which is the Rose-Hulman tradition.

My intent in sharing these challenges is not to sound a warning of gloom and doom for Rose-Hulman. Instead, I share them as opportunities that we have been addressing and will continue to address to make our great college even better. ■

As this issue of Echoes, was going to press, President Hulbert announced his plans to retire June 30, 2004. For more on that news, see details on pages 4 and 5.



By Samuel Hulbert, President of
Rose-Hulman Institute of Technology

PAUSTENBACH LECTURE ENCOURAGES NON-TRADITIONAL CAREER PATHS



David Roux kicks off the Paustenbach lecture series.

A guest lecture on campus 28 years ago by renowned engineer and philosopher Buckminster Fuller had an impact on the career path followed by alumnus Dennis Paustenbach. He remembers how Fuller, the inventor of the geodesic dome, challenged students to "think outside the box" about what they might want to do with their education.

Paustenbach felt so strongly about the value of such advice that he is making it possible for current Rose-Hulman students to benefit from thoughts of innovative thinkers by creating Paths Less Traveled: The Paustenbach Lecture Series on Uncommon Careers for Engineers and Scientists.

A gift from Paustenbach has established an endowment to bring to campus speakers who have had an impact on society and who will, "remind students there are non-traditional careers and life paths that bright, well educated and intellectually curious Rose-Hulman students should consider pursuing," explained Paustenbach, who graduated in 1974 from Rose-Hulman with a degree in chemical engineering. Paustenbach has taken a somewhat different path on his career. He has earned three graduate degrees, authored more than 200 scientific papers and managed two relatively large consulting firms. He is currently vice president of Exponent, a leading engineering and scientific consulting firm in Menlo Park, Calif.

"Most people, in their later years of life, will almost always reflect happily about the satisfaction of pursuing difficult tasks, taking risks, accepting difficult challenges, working or traveling to distant lands, and having a positive influence on people or events," said Paustenbach.

"Invited speakers will encourage students to realize that a good paying job and living in suburbia is not the only journey available to them." He noted "there will never be a better time in most student's lives to pursue out-of-the-ordinary learning opportunities or experiences."

"Students will probably never meet anyone who will say they wish they had spent three additional years in a their traditional Fortune 500 job versus pursuing a graduate degree, starting a company, doing public service work or traveling the world," he said. "Rose-Hulman students need to hear that message at least once before they graduate."

The lecture series was launched Feb. 4 during the Hatfield Hall Celebration Week Feb. 1-9. The speaker was David Roux, who was raised in rural Maine, and then graduated from Harvard College, Cambridge University and the Harvard Business School. He is a founding partner of one of Silicon Valley's most successful equity firms and was formerly vice president of Oracle Corp. His lecture was titled, "Celebrating Serendipity: Heretical Advice and Unconventional Wisdom on Career Management."

The construction of the new Hatfield Hall theater and alumni center, "pushed me over the top with respect to funding this series," Paustenbach said. ■

MICHAEL PERCOPPO, NOTED ALUMNUS TRUSTEE AND PHILANTHROPIST, DIES AT THE AGE OF 81



Rose-Hulman alumnus and long-time trustee Michael Percoppo died Jan. 25 in New York City at the age of 81.

Percoppo had a distinguished international business career and received several honors from Rose-Hulman for his long-time support to the college including a 21-year tenure on the Rose-Hulman Board of Trustees.

Cards and letters can be sent to his wife Christa at 860 United Nations Plaza, New York, N.Y. 10017-1810.

A memorial scholarship fund has been established in Percoppo's honor at Rose-Hulman. Memorial gifts can also be made to Cancer Care Inc., Development Department, 275 Seventh Avenue, New York, NY 10001, to the Sloan-Kettering Cancer Center, 1275 York Avenue, New York, NY 10021 or to Calvary Hospital,

1740 Eastchester Road, Bronx, N.Y. 10461.

Percoppo retired as president of Squibb International and in his later years served as president of MWP Associates International in New York City.

Percoppo received an honorary doctor of laws degree from Rose-Hulman in 1972. In 1997, the Office of Career Services and Employer Relations in the Hulman Union was dedicated in honor of Percoppo and his late wife, Catharine.

His support included the Percoppo Scholarship Endowment Fund which was established to attract top students to Rose-Hulman who would add to the geographic diversity of the student body. He also established a fellowship at Harvard University for Rose-Hulman alumni interested in earning an MBA. Percoppo earned an MBA from the Harvard Business School in 1948.

A native of Bayonne, New Jersey, Percoppo received his degree in chemical

engineering in 1943. After serving as a captain in the U.S. Army, and earning the MBA from Harvard, Percoppo began his career with Squibb in Rome, Italy. Promotions came quickly and included positions as assistant to the president of Squibb in Sao Paulo, Brazil, managing director in Turkey and general manager of Middle East Operations. In 1957, Percoppo was promoted to vice president, Southern Latin American and later became president of Squibb for the Western Hemisphere and Middle East. He was appointed president of Squibb International in 1978.

Percoppo continued to serve as an active member of the Rose-Hulman Board of Trustees. He was appointed to the board in 1981. He was a member of the board's investment management, academic affairs and Ventures Success Fund committees. ■

Dear Alumni and Friends of Rose-Hulman:

I have asked the Board of Trustees to begin a search for a new president for Rose-Hulman Institute of Technology because I have decided to retire effective June 30, 2004. While it is a sad and emotional decision for me, I know that it is a decision that is the best for me, my family and Rose-Hulman.

My health is good and I know the health of our school has never been better. Therefore, this is an opportune time to go through this process. I love Rose-Hulman and everyone associated with the college. It has been a privilege to serve as president of Rose-Hulman.

I'm committed to working with the faculty, staff, students, trustees, alumni and other friends of the college to make the next 16 months the most successful period in Rose-Hulman's history.

It is an honor to work with such an outstanding faculty and staff who are so dedicated to doing what's best for the students who are entrusted in our care. I know that the 2003-2004 academic year will be the best ever for Rose-Hulman.

Your support has been vital to Rose-Hulman earning a national reputation as the nation's best college for undergraduate engineering, mathematics and science education. Rose-Hulman exists for only one reason, to benefit its students, and I know that philosophy will never change. Thank you for being such an important part of the Rose-Hulman family.

Samuel F. Hulbert

President

HULBERT ANNOUNCES PLANS TO RETIRE JUNE 20, 2004

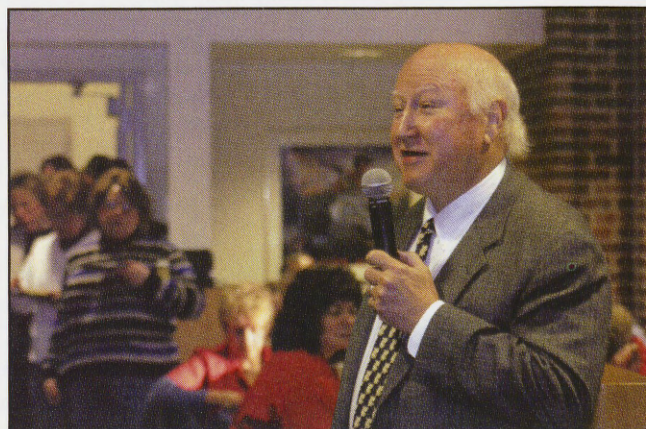
Editor's Note – As this issue of Echoes was going to press, President Samuel Hulbert announced his plans to retire as president of Rose-Hulman Institute of Technology. We have been able to include this announcement and a letter from the president on this page. Future issues of Echoes will include a more in-depth review of the Hulbert era and ongoing updates of the transition to a new president.

Samuel Hulbert, the longest serving president in the history of Rose-Hulman Institute of Technology, has announced that he will retire on June 30, 2004. During Hulbert's tenure, Rose-Hulman has emerged as a national leader in undergraduate engineering, mathematics and science education.

"I have asked the Board of Trustees to begin the process to search for a new president," Hulbert said. "While it is a sad and emotional decision for me, I know it is a decision that is the best for me, my family and Rose-Hulman."

"I love this institution and everyone associated with the college. It has been a privilege to have served as its president. I know that Rose-Hulman will continue to move closer to its vision to be the best because of the quality and dedication of its people. Rose-Hulman exists for only one thing, its students, and I know that philosophy will never change," he stated.

Hulbert became the 11th president of Rose-Hulman in 1976.



President Hulbert informs faculty and staff of his retirement during a special breakfast.

He has the longest tenure of the current presidents at the 17 private engineering colleges that are members of the Association of Independent Technological Universities. Those schools include MIT, Cal Tech, Carnegie Mellon, Harvey Mudd and Rennselaer Polytechnic, Worcester Polytechnic and Illinois Institute of Technology. He has the second-longest tenure of any current Indiana college or university president.

Rose-Hulman Board of Trustees Chairman Clyde William

described Hulbert as one of higher education's most successful and admired leaders. "Very few college presidents have led an institution to the successes that Rose-Hulman has accomplished during Sam Hulbert's dynamic leadership."

"It is difficult to adequately express the gratitude that the trustees have for the outstanding contributions that he has made to the development of Rose-Hulman," he commented.

Willian said the process to begin a national search to replace Hulbert has begun. He believes Hulbert's legacy will have a positive impact on the selection of the next Rose-Hulman president.

"His leadership has resulted in Rose-Hulman earning a national reputation as an education leader which will attract excellent candidates," Willian noted.



Among the major accomplishments during Hulbert's 27 years as president are:

- The college's change to coeducational status in 1995.
- Rose-Hulman has earned a national reputation for academic leadership because of its curricular innovations using laptop computers, its project-based education and its national ranking by engineering deans for four consecutive years as the nation's best college that offers the bachelor's or master's degree as its top degree in engineering.
- Enrollment has doubled while the college continued to attract

academically talented students. The number of faculty has also doubled to 140 which has made it possible to maintain Rose-Hulman's student/faculty ratio at 13 to 1.

- The largest fund-raising program in the college's history has surpassed its goal 18 months ahead of schedule. The \$200 million Vision to be the Best campaign has raised \$230 million. The campaign will conclude June 2004.
- New degree programs have been created in applied biology, computer engineering, optical engineering and engineering management. A new Department of Applied Biology and Biomedical Engineering has also been established.
- Rose-Hulman Ventures was created through a \$29.7 million grant from the Lilly Endowment. The grant, the largest gift in Rose-Hulman's history, is making it possible for students to receive unique career-related, educational opportunities while providing important economic development services to Indiana businesses.
- During the past six years, \$90 million in academic and student services facilities have been built or are planned.
- Rose-Hulman's student retention and graduation rates are among the best of any private engineering college or university in the nation.

Hulbert came to Rose-Hulman after serving as dean of the School of Engineering and professor of bioengineering at Tulane University. Hulbert has received numerous international honors for his educational leadership and contributions to the field of biomaterials. He has received honorary degrees from Clarkson and Indiana State universities. A native of Adams Center, N.Y., he received the bachelor of science and the Ph.D. degrees in ceramic science from Alfred University. ■

ROSE-HULMAN'S PRESIDENT HAS MADE MAJOR IMPACT

The following editorial was printed in the March 6, 2003, issue of the Terre Haute Tribune-Star. It is reprinted here with permission.

Certainly, the day Sam Hulbert decided it was time to retire from his marvelous tenure as president of one of America's most esteemed engineering schools was bound to come. At age 66 (going on 67 next month), he owed himself an opportunity to step back, relax, enjoy his accomplishments and set sights on a new phase of his life.

Of all his achievements, perhaps one should stand out most. He will leave Rose-Hulman Institute of Technology stronger and more reputable than it has ever been. Those who succeed him will benefit greatly from the groundbreaking work he performed during his 26 years at the helm.

Hulbert's announcement that he will retire from the Rose-Hulman presidency in June 2004 came on Tuesday afternoon. The timing of his decision and announcement -- and timetable for stepping down -- gives the Rose-Hulman board and college community an opportunity to find a worthy successor while taking full advantage of Hulbert's always-strong leadership skills and keen institutional knowledge.

The success story that is Rose-Hulman Institute of Technology

is as remarkable as it is inspiring. The college has changed drastically and grown impressively the past two decades. As is usual in such instances, the success came during a time of strong leadership.

Indeed, Rose-Hulman stands as this community's biggest success story. There is much Terre Haute and Vigo County can learn, and should learn, from the example set by Hulbert and his administration at Rose-Hulman.

Hopefully, local leaders from all sectors of the community will look to Hulbert in the next year and four months for guidance and inspiration. While he would be the first to tell you he doesn't have all the answers to every problem facing this community, his experience of successfully managing change, promoting a vision and fulfilling a mission would be invaluable to anyone who has the wisdom to listen.

While we will hate to see the day when Sam Hulbert is no longer Rose-Hulman's leader, we are confident his legacy will continue to inspire the college in the future.

We hope it will inspire this community as well. ■

STUDY SHOWS ROSE-HULMAN A LEADER AT CHALLENGING, INVOLVING STUDENTS

Rose-Hulman Institute of Technology received higher average scores than peer institutions and national colleges and universities in a nationwide survey that evaluated how involved students are in the educational process. The National Survey of Student Engagement (NSSE) compared average scores of 135,000 first-year and senior students at 613 four-year colleges and universities who evaluated five areas of their educational experience. Students were surveyed about the level of academic challenge, active and collaborative learning, student-faculty interaction, enriching educational experiences and supportive campus environment at their schools.

Student engagement represents the combination of the effort students devote to educationally sound activities and what colleges do to prompt students to take

advantage of those activities.

Rose-Hulman received a benchmark score determined by a response from first-year students that was higher in all five categories than national universities, general baccalaureate institutions and participating private engineering colleges that are members of the Association of Independent Technological Universities (AITU).



National Survey of Student Engagement
The College Student Report

Rose-Hulman's highest score from first-year students was 70.2 for supportive campus environment, which was 10 points higher than the score earned by national universities and AITU members, and 7.3 points higher than general baccalaureate schools.

First-year students and seniors ranked Rose-Hulman higher than national universities, AITU member schools and gen-

eral baccalaureate institutions in four of the five categories. In the only category Rose-Hulman did not lead, it was less than a half point behind the national, AITU and baccalaureate institutions in the scores seniors gave in the enriching educational experiences category.

"These national benchmark scores are another indication that Rose-Hulman is a leader in undergraduate education in engineering, math and science," said Rose-Hulman President Samuel Hulbert.

Sixty-three percent or 449 of all first-year and senior students at Rose-Hulman participated in a web-based version of the NSSE survey.

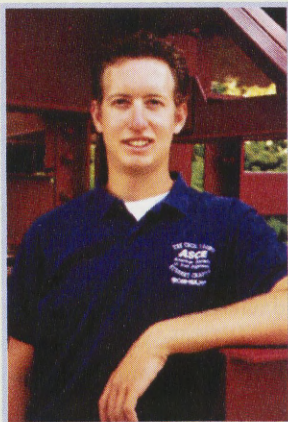
This is the third year NSSE has been conducted. It does not rank institutions. The report is co-sponsored by The Carnegie Foundation for the Advancement of Teaching and the Pew Forum on Undergraduate Learning. ■

FLOOD NAMED AMONG NATION'S BEST CIVIL ENGINEERING STUDENTS

For the second straight year, a Rose-Hulman student has been selected one of the nation's top undergraduate civil engineering majors in CE News magazine's Star Students issue (December, 2002).

Walter H. Flood II, a senior from Chicago, was among 35 students profiled in the magazine, distributed to engineering professionals and civil engineering industry representatives across the country.

Flood, son of alumnus Walter H. Flood (Civil Eng. '75), has



Walter H. Flood, II

integrated his classroom lessons with extensive field and laboratory experience in testing and inspecting construction materials for Flood Testing Labs, Inc. He has helped develop patent-pending products in the area of concrete mix. Flood's current project is concrete mix that will conduct electricity in order to provide heat to a pavement system, providing a low-cost alternative to removing ice and snow from roads. He also designed high-strength mortar mixes for a bridge in Venezuela.

At Rose-Hulman, Flood has been a resident assistant for two years, and an officer in the student chapter of the American Society of Civil Engineers.

Flood was nominated for the award by Civil Engineering Department faculty. Robert Guratzsch, last year's Rose-Hulman CE News Star Student honoree, is now a graduate student at Vanderbilt University. ■

HOMEWORK HOTLINE HELPS INNOVATIVE INDIANA TEACHERS

Students in 11 Indiana high school and middle schools are exploring the wonders of science and mathematics this year through \$25,000 in educational grants awarded by Rose-Hulman's Homework Hotline.

The grants, ranging from \$1,500 to \$2,500, encourage teachers to develop new classroom education programs in the areas of life and earth science, energy, astronomy and math, and expanding the use of technology in classrooms.

Teams of Fulton Junior High School (Lizton) science students created miniature ecosystems in a "Jar of

Life" project, developed by teacher Kathy Winsor. Meanwhile, Lynn Rowe's math students at Fort Branch Community School (Oakland City) created a community "Cooking With Fractions" cookbook, applying concepts of fractions, proportions, money and measurement.

At Clay Junior High School (Carmel), students are learning

**HOMEWORK
HOTLINE**

to identify and classify some of the more than 150 different species of birds in Indiana in an "It's for the Birds" project developed by teacher Mark Weaver. Biology students at North Vermillion Senior/Junior High School (Cayuga) are using a flex video camera that's attached to a microscope to study cells and then create a scale model of a cell.

In the area of technology, Eastern High School (Greentown) teacher John Van Matre is using 14 personal digital assistants in physics, math and chemistry classes, while Terry Grotenhuis of Western Middle School (Kokomo) has introduced interactive whiteboards into his eighth grade math classes.

Other grants were awarded to teachers at Cloverdale Middle School, Cloverdale; Eastern High School, Pekin; Kendallville Middle School, Kendallville; Owen Valley High School, Spencer; and Perry Heights Middle School, Evansville.

The Homework Hotline operates from 7 p.m. to 10 p.m. Sundays through Thursdays. The toll-free telephone number is 1-877-ASK-ROSE (877-275-7673). The service's web site is www.askrose.org. ■

SOCCER COACH TO CUT 5,000-MILE SWATH ACROSS AMERICA ON LAWNMOWER

Rose-Hulman men's and women's soccer coach Brad Hauter "mowed over" America four years ago and is now out to do it again to encourage Americans to clean up the environment.

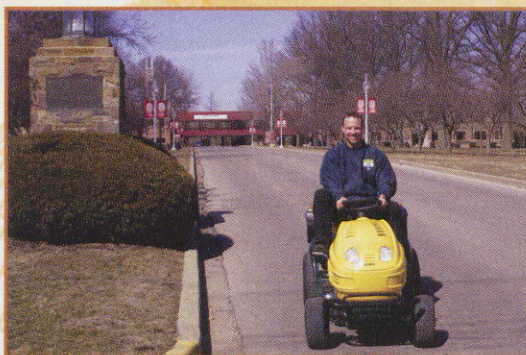
Hauter, who set a Guinness Book World Record with his 1999 trek cross-country on a lawnmower, will hit the road this spring to break his 4,000-plus-mile record while raising awareness for Keep America Beautiful's Great American Cleanup.

Rose-Hulman hosted an official send-off rally March 11 on campus. Rose-Hulman alumni living along Hauter's route are being contacted to encourage their support of his efforts. The campus and Terre Haute communities are also planning projects to bring attention to the Keep America Beautiful campaign.

The 37-year-old Hauter was the first person to complete a transcontinental trip on a lawnmower. On March 19, Hauter boarded his Yard-Man by MTD to become the first person to do it twice. Hauter will travel more than

5,000 miles starting in San Francisco and finishing in New York City in June.

"I'm back!" Hauter exclaimed. "I'm ready to mow over my first record and help clean up America along the way. America's support in 1999 was incredible," Hauter remembers. "Because con-



Hauter rolls off campus during a March rally.

cern for the environment is of keen interest to engineers and scientists, I know the Rose-Hulman community will enthusiastically support this effort," he said.

In order to top his 1999 mark, Hauter will spend four months - more than 600 hours - on his mower. Traveling

an average speed of 10 mph, Hauter and his six-member support crew will mow from San Francisco through Los Angeles, Las Vegas, Phoenix and Albuquerque. From New Mexico, he will head east through San Antonio, Dallas, Houston, Bentonville, Martin, Atlanta, Memphis, Charlotte, Baltimore, Washington, D.C., and Philadelphia.

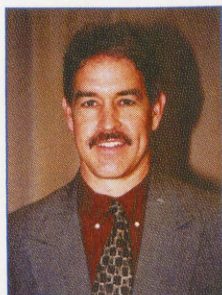
The route will culminate in New York City's Battery Park where Hauter will present the Keep America Beautiful donations he has collected en route.

"We hope to raise \$200,000 this year," Hauter said. "I'm confident that with America's support, we can reach our goal."

Commemorative T-shirts will be available for \$12 at www.yardman.com. The T-shirts will also be sold in the Rose-Hulman Bookstore. All proceeds will be used to benefit Keep America Beautiful. To purchase a T-shirt, simply log onto www.yardman.com or send a check made payable to the Yard-Man Mow Across America, P.O. Box 368022, Cleveland, Ohio 44136. ■

JENKINS NAMED AS ATHLETIC DIRECTOR; PREVO PROMOTED TO ASSOCIATE DIRECTOR

BY KEVIN LANKE, SPORTS INFORMATION DIRECTOR



Jeff Jenkins

Rose-Hulman Institute of Technology promoted 14-year baseball coach Jeff Jenkins to athletic director, and named nine-year assistant basketball coach Jon Prevo

associate athletic director in November.

Jenkins assumed the responsibilities previously held by Greg Ruark, who had served as athletic director since 1999.

Jenkins, in his 14th year at Rose-Hulman, served as associate athletic director for the past decade. As associate athletic director, Jenkins has been on the staff during a period when the college moved to coeducational athletics in 1995, constructed the Sports and Recreation Center in 1997, and hosted NCAA Division III National Championships for golf and women's basketball.

Jenkins, who will retain his baseball head coaching position, has rewritten the Rose-Hulman single-season school record for victories in baseball four times. His highlights include a 30-win effort in 1999 that earned him SCAC Tri-Coach of the Year honors. His 310 victories at Rose-Hulman surpassed Hall of Fame Coach Jim Rendel's 178 wins in 1997.

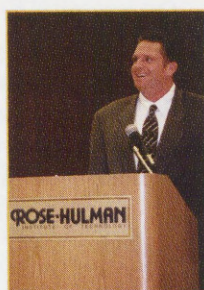
He served as assistant football coach at Rose-Hulman from 1989 until 1999. He has also served as chair of the school's Athletic Hall of Fame Committee since its inception in 1993.

Jenkins' career baseball record is 355-260-2, and his record at Rose-Hulman is 310-195-1.

Prevo will continue to serve in his basketball and golf coaching roles. He came to Rose-Hulman as assistant coach under Jim Shaw after serving as an assistant at Indiana State University during the 1993-94 season. He became head golf coach in the summer of 1999.

Previously, Prevo was an assistant basketball coach at the U.S. Military Academy in West Point, N.Y., from 1991-93, and was also an assistant at the University of Evansville from 1989-91. He was head basketball and track coach at Cisne (Ill.) High School from 1987-1989.

TED KARRAS NAMED HEAD FOOTBALL COACH AT ROSE-HULMAN



Ted Karras

Northwest Indiana native Ted Karras was named the head football coach at Rose-Hulman effective Feb. 3.

Karras has spent the last four seasons as the offensive coordinator at St. Xavier University in Chicago. The Cougars earned a Midwest States Football Association Midwest League Championship and qualified for the NAIA playoffs in 2002, after winning eight games in the six years prior to Karras' arrival.

Previously, Karras served as the head coach at Andrean High School in Merrillville from 1996-98.

Karras earned three sectional and two regional championships at Andrean, was named the Indiana Football Coaches Association Regional Coach of the Year in 1997 and 1998, and compiled a 30-10 record in three seasons at the helm.

At St. Xavier, Karras coached the special teams for two seasons before engineering the team's record-breaking offense in 2001 and 2002.

The St. Xavier offensive squad established nine single-season and two single-game records in 2001. The records included total yards, number of plays, all-purpose yards, rushing yards, rushing attempts, rushing touchdowns, first downs and first downs rushing.

Karras directed a balanced offensive attack to an NAIA playoff appearance in 2002.

Other stops in Karras' coaching career have included one season at the University of St. Francis (Ill.) in 1995 and two years at Lake Forest College (Ill.) from 1993-94.

On the gridiron, Karras was a four-year varsity letter winner and starter on the defensive line for Northwestern University. He earned honorable mention all-Big Ten honors in 1986, after starting his playing career as a first-team all-state lineman at Hobart High School. He signed a free-agent contract with the Washington Redskins in 1987.

Karras earned a bachelor's degree in education from Northwestern in 1987 and completed a master's degree program in education from St. Xavier in 2002. He



Karras talks with media during announcement of his appointment

and his wife, Jennifer, have two children, Teddy and Taylor.

Karras' uncle, Alex,

played football professionally for the Detroit Lions from 1958-71 after earning all-Big Ten honors at the University of Iowa. He also appeared in more than 25 movies as an actor.



The SCAC Sports Festival –
featuring conference
championships for baseball,
golf, softball, tennis, track –
will be held at Rose-Hulman
on Apr. 24-27.

FALL SPORTS WRAPS

WOMEN'S SOCCER ENJOYS RECORD-SETTING 13-6 SEASON

The Rose-Hulman women's soccer team earned the first regional ranking in the eight-year history of female athletics at the college and tied for third-place in the SCAC with a 13-6 record this fall.

Junior Jessica Farmer led the team with 12 goals, freshman Amber Hoffman added a team-record eight assists and sophomore Amy Sibilia earned team Most Valuable Player honors after scoring three goals and providing solid defense in the midfield.

The men's soccer team finished 6-13-1 overall, with sophomore midfielder Tom Drochner earning all-conference honors for the second straight year.

INDIVIDUAL RECORDS FALL IN VOLLEYBALL SEASON

Rose-Hulman's volleyball team finished seventh in the SCAC with a 14-24 mark in a season of record-setting performances. Sophomore setter Lindsey Kerbel established a single-season school record with 1,235 assists, while senior Gina Kulas had 497 digs and sophomore Jesica Petretti tallied 79 service aces to establish school records.

CROSS COUNTRY TEAMS PLACE 7TH AND 8TH IN SCAC CHAMPIONSHIP

The Rose-Hulman men's and women's cross country teams placed seventh and eighth in the SCAC championships this fall.

Senior Richard Hale was named the men's Most Valuable Runner after recording the team's top time in four of seven races. Sophomores Emily Dieter and Larissa Oaks shared Most Valuable Runner honors for the women.

FOOTBALL TEAM EARNS NATIONAL RECOGNITION IN IMPROVED SEASON

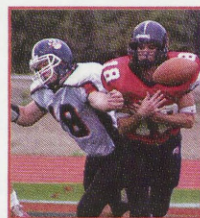
The Rose-Hulman football team placed three players on the d3football.com "National Team of the Week" and set records on both sides of the ball while compiling a 3-7 record in 2002.

Junior Matt Jackson, junior Jordan Strunk and senior Tim Swan earned d3football.com recognition for their efforts in compiling Rose-Hulman victories. Jackson and Dan Schwartz were named first-team all-conference for their efforts.

The Engineer offense was piloted by senior Jared Tharpe, who completed his playing career with seven school records. The team established single-game records by amassing six sacks and 18 tackles-for-loss in a win over Earlham and tallied a single-season school record for offensive pass completions (217).

THREE FOOTBALL PLAYERS NAMED ACADEMIC ALL-AMERICANS

Rose-Hulman placed three football players on the Verizon Academic All-America Team, by the College Sports Information Directors of America.



McQuiston

Senior cornerback Jesse McQuiston and senior linebacker Tim Swan earned first-team Academic All-American honors, while graduate student offensive lineman Daniel Schwartz was named a second-team Academic All-American.

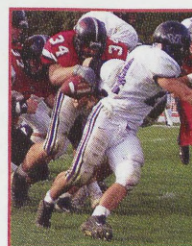
Rose-Hulman has placed 56 student-athletes on various Academic All-America teams since 1978, including 31 since 1990.

SCHIPPER FINISHES SECOND IN THE NATION

At press time, senior pole vaulter Andrew Schipper finished second in the NCAA Division III Indoor Track and Field National Championships.

For more information, visit the Rose-Hulman athletic Web site at <http://www.rose-hulman.edu/sports/>.

McQuiston maintains a 3.96 grade point average and is President of the Pi Tau Sigma honor fraternity. He was named the Southern Collegiate Athletic Conference



Swan

Defensive Player of the Week after recording six tackles, one interception, one fumble recovery and one forced fumble at Washington University in September.

Swan established a single-season school record with five fumble recoveries. The mechanical engineering major maintains a 3.93 grade point average and was named a Heminway Scholar, an award given to the Rose-Hulman student with the highest grade-point average following their sophomore year.

Schwartz, a preseason first-team All-American by d3football.com, has started at offensive tackle for the last four years for the Fightin' Engineers. He earned first-team all-SCAC honors in 2001 and 2002 after helping lead the offensive unit to four offensive team school records.

Women's soccer players Anna Burgner and Jessica Farmer earned spots on the 2002 Verizon College Division Academic All-District Five Women's Soccer Team. Burgner scored four goals on penalty kicks, while Farmer holds 22 offensive school records in the Rose-Hulman record book. ■

REFLECTING ON THE IMPACT OF HATFIELD HALL, AN EXPONENTIAL IMPROVEMENT OVER "SPLINTER HALL"



By Clyde Willian, Chairman of the
Rose-Hulman Institute of Technology
Board of Trustees

At the dinner preceding the dedication of Hatfield Hall for the Performing Arts on November 9, 2002 I had the great pleasure of thanking Mike and Debbie Hatfield on behalf of the Institute and the Board of Trustees for their extraordinary gift. I would like to share some of my thoughts regarding the performing arts at Rose-Hulman and the importance of Hatfield Hall.

From the very beginning of Rose in 1883, there was an interest in the performing arts. By 1889 there was an Orchestra Club. A year later there was a concert by the Glee Club and the orchestra. A Mandolin and Guitar Club was formed and a public concert given in 1896 under the direction of President Mees. In 1903 a Symphony Club was formed. There were stage performances as well. A spoof called Red Riding Hood was performed in 1904, and several Gilbert and Sullivan operettas were presented, including HMS Pinafore and the Mikado.

The Glee Club was so popular there were varsity and associate divisions. Spring musicals were performed in Marshall and

Paris, Illinois. World War I and the depression took their toll, but the Glee Club continued. There were performances over WBOW, the local radio station. The ROTC unit had a band which played at football games and community parades. In the '50s there were choral competitions between the four fraternities. In 1964 the Drama Club was established. There were a fine art series under Dr. Benjaminov and the Engineers in Concert under Professor North. Over the years, touring groups, performers and speakers appeared at Rose Hulman.

Prior to my enrollment in 1949, I am confident the facilities for the performing arts were very spartan. It is unlikely there was an auditorium. In 1949 there was no auditorium. The room that later became the auditorium had served as a dormitory for returning World War II veterans and then as a basketball court. The room was so small that it was difficult to go out of bounds without sustaining bodily injury from the closely spaced walls. Some called it "Splinter Hall." After Shook Field House opened, the room was converted into a classroom for mechanical drawing.

In the middle '50s, Splinter Hall was converted into an auditorium. It was not air conditioned, so it was consistently uncomfortably hot, had wooden benches, no place for an orchestra and terrible acoustics. Someone said acoustically it was more suitable for testing air raid sirens than for musical and or dramatic performances. Although air conditioning finally came in the mid '80s the poor acoustics remained. Despite all of these handicaps, the interest in the performing arts persisted. That interest was continuous from the beginning and to this day is a part of the

educational experience at Rose. I am happy to say with the opening of Hatfield Hall the auditorium is being totally remodeled and will become a part of the Computer Science Department.

In 1989 Dr. Hulbert announced the program we call the "Vision to be the Best." The program included the enhancement of the curriculum, student aid and facilities. The master plan included the remodeling of the Student Union, a new athletic complex, additional residence halls, additional laboratories and teaching facilities and a performing arts center. Some called it a vision, others called it a dream. At times the trustees wondered how we could get this done. Well, we found out – our alumni, the faculty and staff, the students, our friends, the local community, the foundations all bought into the Vision. The capital fund drives were over subscribed in less than half the allotted time.

At the dedication there were outstanding performances by the Glee Club, Drama Club and the Terre Haute Symphony. The acoustics and aesthetics of the auditorium and the entire facility are first rate. Hatfield Hall is an important contribution to the Vision to be the Best.

Education is a noble endeavor. Hatfield Hall and all of the many donations in support of the Vision to be the Best are a part of that noble endeavor. ■

For more details about
Hatfield Hall, turn to
Pages 16 - 19.

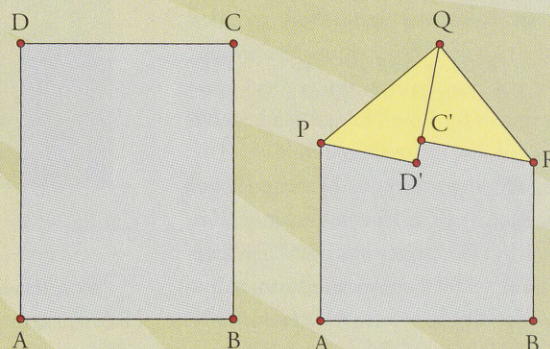
Bailey Challenge

By Professor Emeritus Herb Bailey

The wonderful aspect of mathematics is that by scratching with a pencil you can predict things in the physical universe. Some see mathematics as almost a religion. Galileo was at the center of the most famous conflict between religion and mathematics. He said "The Bible tells how one goes to heaven but says nothing about how the heavens go." The problems for this issue much more down to earth and involve only the folding of a rectangular sheet of paper with corners A, B, C and D as shown in the first figure. The first problem went from X to Professor Derry to Professor Voltmer to me and thence to you.

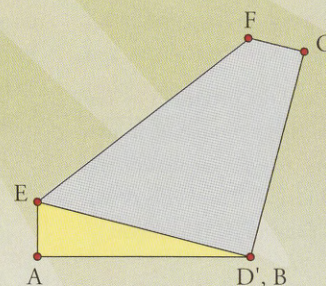
Problem 1.

The paper is folded as shown in the second figure. For the first fold, corner D goes to a point D', where D' is in the initial rectangle. You may assume the first fold is such that corner C does not move during the first fold. Let Q be the point where the first fold intersects DC. For the second fold the point C goes to C' where C' is on QD'. Prove that angle PQR is a right angle.



Problem 2.

The paper is folded as shown in the third figure. Let a be length of AB and b the length of AD , with $b > a$. This time there is only one fold with corner D going to point B. Find the length of the fold EF and check your answer in the 'real world' for the case $a = 8.5$ " and $b = 11.0$ " .



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

Solvers of the summer problems are listed below:

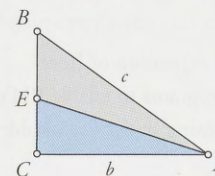
Alumni: A. Kelsall, 1940; W. Battick, 1941; B. Souriette, 1943; ■ C. Cook, 1949; A. Junker, 1950; D. Camp, 1955; ■ J. Moser, * 1956; C. Cooper, 1956; A. Sutton, 1956; H. Brown, 1957; B. Waggener, 1957; D. Bailey, 1959; J. Kleptz, 1959; C. Sechrest, 1960; ■ J. Tindall, 1961; R. Lovell, 1963; S. James, 1965; J. Lafuze, 1967; J. Born, 1970; D. Jordan, * 1971; A. Mahler, 1971; D. Willman, 1972; B. Klimaszewski, 1973; D. Pate, 1973; P. Chilson, 1974; M. Bailey, 1976; S. Warner, 1978; T. Pruitt, 1978; J. Slupesky, 1979; B. Seidl, 1987; S. Johnson, 1988; ■ C. Abnour, 1989; G. Heimall, 1990; B. Burger, 1991; ■ D. Hector, 1992; W. Mounts, 1993; ■ J. Atkins, 1994; ■ J. Rott, 1995; R. Mohr, 1996; ■ C. Prince, 1999; J. Switzer, 2001; D. Harrington, 2002
Friends: M. Rosene; W. Orr; V. Pyati; R. Templeton; D. Templeton; L. Gaintner; B. Ritter

Solvers of the fall problems are listed. There were eight solutions of the bonus problem and they are identified with a ■. Late solvers of the previous previous issue and those whose solutions I misfiled are marked with an *.

For problem 3, some solvers remembered the half angle formula which you probably have never used since calculus. Alas students can now avoid it in calculus what with modern technology. Since AE bisects angle A then

$$\frac{b}{AE} = \cos(A/2) = \sqrt{\frac{1 + \cos(A)}{2}} = \sqrt{\frac{1 + b/c}{2}}$$

Solving gives $AE = b\sqrt{2c/(b+c)}$.





\$24.9 MILLION LILLY ENDOWMENT GIFT EXPANDS SUCCESSFUL ROSE-HULMAN VENTURES

A \$24.9 million grant from Lilly Endowment Inc. will build upon the success of programs at Rose-Hulman Ventures to expand educational and professional practice experiences for Rose-Hulman Institute of Technology students and faculty. Through these experiences, they will provide technical expertise to help Indiana companies prosper, and thereby provide more professional opportunities for Rose-Hulman graduates in the state.

The three-year grant is the second largest gift received by Rose-Hulman Institute of Technology. The largest was a \$29.7 million grant awarded by the Endowment in September, 1999 to create Rose-Hulman Ventures (RHV).

The grant funds will be used by Rose-Hulman Ventures to:

- Expand educational opportunities by supporting additional client companies in partnership with other colleges, incubators and communities in Indiana. These efforts will be in addition to continuing the current RHV activities.
- Establish a Center for the Deployment of Disruptive Technologies to ensure that students and faculty learn about the most significant technical advances that can help enterprises make transformative rather than marginal changes in their operations. This educational experience will build expertise that can be used by students and faculty to make Indiana companies technology leaders. The Center will sponsor educational programs for Indiana incubator and product development staff as well as other members of the Indiana educational community.
- Increase efforts to attract and retain client companies in the Terre Haute area by providing access to additional facilities in the community.
- Provide continued expansion of Rose-Hulman Ventures programs to enable RHV to become self-sustaining in the foreseeable future.



Lilly Endowment President N. Clay Robbins, center, visits with Rose-Hulman President Samuel Hulbert, left, and Jim Eifert, president of Rose-Hulman Ventures, prior to news conference announcing \$24.9 million gift.

"Rose-Hulman's progress with Rose-Hulman Ventures has enhanced Indiana's profile as a place where first-rate educational opportunities exist," said Endowment President N. Clay Robbins. "The learning that occurs through the hands-on experiences Rose-Hulman students have at Rose-Hulman Ventures is remarkable."

Sara Cobb, the Endowment's vice-president for education, noted, "Rose-Hulman Ventures also significantly enriches the continuing professional development of Rose-Hulman faculty, which redounds to the benefit of their students. The faculty opportunities at Rose-Hulman Ventures are an attractive incentive in Rose-Hulman's efforts to recruit the best faculty available."

The Endowment's gift will be vital to helping Rose-Hulman achieve its vision to provide the very best undergraduate education in engineering, mathematics and the sciences, according to Rose-Hulman President Samuel Hulbert. "As a result of this generous gift from the Lilly Endowment, Rose-Hulman will launch new and creative ways to provide the very best educational opportunities for our students and faculty members and help move the Indiana economy forward. "Expanding these educational opportunities will be important to enhancing our reputation

with national engineering education leaders who for the past four years have ranked Rose-Hulman as the No. 1 school of its kind in the annual rankings published by U.S. News & World Report," he added.

The grant will enable RHV to increase educational and career opportunities that will encourage Rose-Hulman graduates and other Indiana college graduates to remain in or return to Indiana. This will be accomplished by intensifying efforts to foster the creation and growth of new technology-based companies in Indiana thereby enhancing Indiana's technological competitiveness and increasing the job opportunities for technically educated graduates.

Specifically, Rose-Hulman Ventures will continue to:

- Provide faculty and students with cutting-edge educational and professional opportunities in engineering, mathematics and science while providing direct technical assistance to client companies.
- Provide business assistance and incubator space and services to client companies.
- Provide very early-stage venture capital to retain and attract high-tech companies in Indiana.

RHV President Jim Eifert said the Endowment's funding will significantly intensify efforts to build Indiana's reputa-

tion as a place where engineering graduates are educated to be adept at technology development to meet today's business needs. "We will build upon a proverb by Confucius which states, 'I hear; I forget. I see; I remember. I do; I understand.' I would suggest a fourth line, I understand; I innovate," Eifert noted.

"The Lilly Endowment has been wonderfully supportive of our efforts and those of others around the state to create positive change in Indiana education and its resultant culture and economy," Eifert stated.



Hulbert and Eifert confer with Sara Cobb, vice president of education for Lilly Endowment

"Their continued support will enable Rose-Hulman Ventures to build on the relationships we have developed, the successes we have had, and the lessons we have learned in recent years. By extending our operations in partnership with other Indiana communities, we will establish an infrastructure that will permanently impact Indiana's economy," said Eifert. "This is more than great news for the Rose-Hulman community; this is great news for Indiana."

Eifert said Rose-Hulman Ventures has already had a positive influence on the Indiana economy, according to assessment studies funded by RHV. "Based on investments made as of March 31, 2002, Rose-Hulman Ventures investments had created 334 jobs with an average salary and bene-

fits of \$54,000," he stated.

EXTEND OPERATIONS

Rose-Hulman Ventures will increase the educational and professional practice experiences provided to Rose-Hulman students by expanding the number of clients RHV will serve. RHV plans to form partnerships with other universities, incubators and communities to provide technical assistance to more entrepreneurs – and technology-based companies. This collaboration is a logical step to provide business entrepreneurs with the needed technical and business resources to grow and expand. It will provide a larger pool of companies for future student and faculty involvement, counter declines in other segments of the state's economy, and provide a robust platform for future economic growth in the state. This expansion will create additional client successes that will increase revenue to enable Rose-Hulman

Ventures to be a self-supporting operation.

CENTER FOR THE DEPLOYMENT OF DISRUPTIVE TECHNOLOGIES

Rose-Hulman Ventures will establish a virtual Center for the Deployment of Disruptive Technologies to organize and sponsor a set of educational seminars and conferences. Disruptive technologies significantly change the way things were done or changes what things were done. Examples include technologies that enabled the shift to satellite communications, led to genomic breakthroughs, and created new categories of software. Disruptive technologies that will be the focus of seminars will include microelectromechanical systems, optical technologies and wireless technologies. The Center will ensure that the efforts of students, fac-

ulty and staff engineers at Rose-Hulman Ventures involve companies and technologies that provide the greatest educational and financial leverage. All Indiana incubator staff from incubators like those at Indiana University, Purdue University, the Northeast Indiana Innovation Center, the Hammond Development Corporation, etc. and students and faculty members of Rose-Hulman will be invited to participate in these educational programs that are key to Indiana's economic preparedness.

IMPACT ON UNDERGRADUATE ENGINEERING, MATH AND SCIENCE EDUCATION

Rose-Hulman Ventures will have a major impact in engineering, mathematics, and science education by providing real-world engineering experiences to more Indiana students and increasing professional development opportunities for faculty. As Rose-Hulman Ventures collaborative efforts with communities across the state accelerate, the opportunity for more student participation will increase. To date, approximately 200 students from Rose-Hulman, Indiana University, Indiana State University, DePauw University, and Saint Mary of-the-Woods College have been critical to the success of 31 client companies served by Rose-Hulman Ventures.

INTENSIFY EFFORTS TO ENHANCE ECONOMIC DEVELOPMENT IN TERRE HAUTE

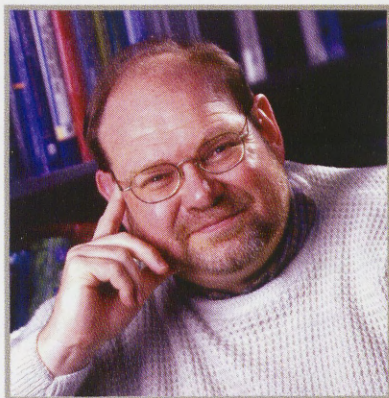
An important ingredient necessary to create a stronger economic development impact on the Terre Haute area is the addition of a facility for resident client companies to keep them in the Terre Haute area when they are ready to "graduate" from the incubator. This facility will be suited to Rose-Hulman Ventures clients who will actually manufacture the products designed and prototyped at Rose-Hulman Ventures or elsewhere. It will provide a larger environment for the scale-up for manufacturing that should eventually bring extensive economic benefits. ■



Full Throttle

Outstanding Teacher Brings Hard-Charging Style to Economics Education

BY DALE LONG



"I'm a meat-and-potatoes type of guy who enjoys life, and takes time to stop and smell the roses.

I encourage my students to do the same."

When answering a national survey, a Rose-Hulman Institute of Technology student assessed his college's academic environment as akin to "taking a drink from a fire hydrant – full throttle, all the time."

That student must have just come from a class taught by Dale Bremmer.

Economics courses instructed by Rose-Hulman's 2002 Outstanding Teacher of the Year are fast-paced, intellectually stimulating and fun-filled. And that would summarize the first 10 minutes!

"Everybody OK here?" . . . "Did You Get That?" . . . "How Are You Doing?" are questions Bremmer intermingles throughout a 50-minute classroom period. At a brisk pace, he addressed four homework questions (in a 10-minute period) and plotted a graph on the blackboard that analyzed society's abatement costs of pollution controls. The graph was drawn with black, red and blue lines . . . or "Blues Clues' Blue," as Bremmer jokingly described. "Isn't that a great line? Everyone loves the 'Blues Clues Blue' line."

The reference brought a quick smile to the faces of several students.

"My goal is to give students their money's worth . . . You give me a whiteboard, markers and a classroom and learning can take place," proudly states Bremmer, a member of Rose-Hulman faculty since 1988. "I cover the material at the pace demanded. I'm here to help students learn. If I haven't turned someone on to the subject matter in a particular class or lecture, I haven't done my job."

Bremmer's classes don't have a mandatory attendance policy. Students can skip class on any day that they have more important things to do or when they think class is not going to be worth their time.

The classroom is always full.

"Dr. Bremmer is so full of energy and loves the subject so much that you just can't help but to be interested in what he is teaching," assessed Mark Gauger, a sophomore mechanical engineering major.

"What makes Dr. Bremmer such a great professor is how active and enthusiastic he is while lecturing. Because that is his style, it brings out more class participation from the students," states Samuel Zurcher, a junior economics major. "Even though he lectures from bell to bell, there are breaks in between where he takes questions . . . and if it doesn't feel like he did a

good job answering a question, whether he did or not, he'll be back the next day with a full answer."

Nathaniel Bowe, a senior mechanical engineering major who is adding a minor in economics, adds "Dr. Bremmer is the quintessential professor I pictured when I was thinking about coming to Rose-Hulman: A professor who does an excellent job teaching in the classroom and a professor who views me not just a student but as a friend . . . Every time I am having problems in economics and go to Dr. Bremmer for help, he not only tries to get me to understand the material but seems to have a genuine interest in me, my family and my life."

Bremmer's hard-charging teaching style comes from his family heritage, his own collegiate educational experiences and mentoring by well-respected colleagues in Rose-Hulman's humanities and social sciences faculty. His father was a celebrated engineering professor at Texas A&M and University of Southern Mississippi, while his grandmother was a caring high school teacher.

Interests in mathematics, statistics and public policy were molded into the study of economics at Arkansas State University (bachelor's degree in 1979; master's degree in 1981), while working 40 hours a week at a local restaurant. He earned a doctorate at Texas A&M (1985), concentrating on developing an econometric model of petroleum drilling in Texas. Not surprisingly, Bremmer's fields of academic specialization include applied econometrics, monetary theory, industrial organization, and natural resources and energy.

Bremmer joined the Rose-Hulman faculty after three years of teaching at Arkansas State University (1985-88). Retired RHIT English Professor Calvin Dyer was an early mentor, while Bremmer also admired the teaching styles and personalities of former Outstanding Teacher Award winners John Ying (1972), Thad Smith (1976) and Thomas Mason (1997).

"I didn't have to look very far for inspiration and motivation. The Humanities and Social Sciences Department was filled with persons dedicated to teaching, the joy of student interaction and importance of being a disciplined specialist," Bremmer said. "Fortunately, economics has always played a vital role in Rose-Hulman's curriculum since a quality engineering program always has a quality economics program."

Those high academic standards and a quality student body allow Bremmer to teach specialized and newly developed courses in financial economics, environmental economics, and financial markets and institutions that expand the academic horizons of both student and teacher. For instance, in a previous econometrics class, a student team examined the impact of regional competition of gasoline prices, while other groups tested complex economic hypotheses by using gathered data.

Bremmer also teaches in Rose-Hulman's engineering management graduate school program, writes columns on economic issues for the Greater Terre Haute Chamber of Commerce, and has collaborated with



senior economics majors to publish research papers in scholarly journals.

During the 1994-95 school year, Bremmer spent an academic sabbatical leave as a utility analyst in the Office of Utility Consumer Counselor for the State of Indiana, making utility companies justify proposed rate increases. He worked with Rose-Hulman alumni Daniel Kuester ('76, Civil Eng.), Timothy Geswein ('90, Civil Eng.) and Kyle Hamm ('94, Mech. Eng.) on several cases.

"If I knew how to make money or I cared about making money I wouldn't be here," said Bremmer, who saw his testimony as a utility analyst disputed by high-priced attorneys and economists. "The beauty of Rose-Hulman is I can teach a more interesting approach to economics, using mathematics principles as a base. Rose-Hulman has a challenging student body that keeps you on your toes. I share a common bond with them: We both get turned on by this stuff."

Bremmer's classroom lectures are also filled with stories about his undergraduate research projects, his family, his ever-receding hairline and his weekly faculty racquetball matches.

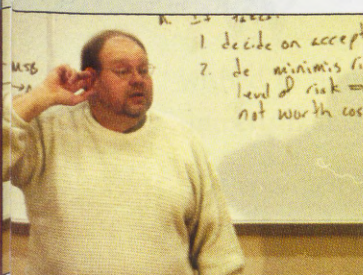
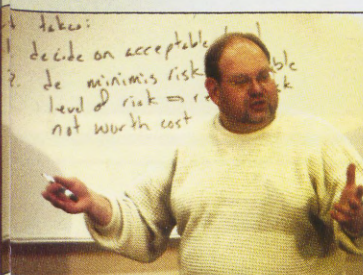
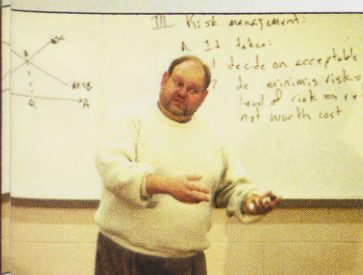
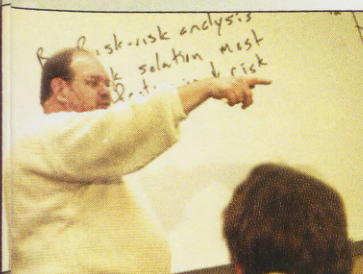
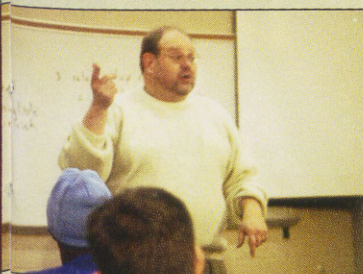
When questioned by a student about the logic of an economic model, Bremmer replied, "Yes, it's not fair. However, neither is it fair that I'm getting bald."

This is definitely a person that doesn't mind poking fun at himself.

"I'm a meat-and-potatoes type of guy who enjoys life, and takes time to stop and smell the roses. I encourage my students to do the same," he says. "I am also very fortunate to be where I am and making a living doing something that I thoroughly enjoy. I'm a very lucky man."

Bremmer is also a prolific scholar, publishing research and opinion articles on such diverse topics as "The Advertising Effect of University Athletic Success: A Reappraisal of the Evidence" and making presentations on "Military Spending: Is the Peace Dividend Real or Illusionary" and "The Relationship Between Female Labor Force Participation and Divorce." He also conducted research that examined the accuracy of the State of Florida's voting procedures in the 2002 Presidential election.

But don't get him started on that one. ■



a stunner



"It's already b

...ning addition

Hatfield Hall provides new theater and alumni center

by David Piker



...dy become a source of pride. Alumni are overwhelmed when they visit."

— Alumni Affairs Director Brian Dyer about the new Alumni Center in Hatfield Hall.

When Mike Hatfield decided to make a major gift to Rose-Hulman, his plans were to replace the antiquated Moench Hall Auditorium with a technically advanced facility deserving of a college that has earned a national reputation as the best college of its kind. Hatfield also wished to honor his parents who encouraged him to be an engineer and taught him the value of volunteerism and giving back.

The comments by Dyer are similar to remarks expressed daily on campus which illustrate that Hatfield's plans to make a major impact on improving campus life at Rose-Hulman hasn't just been achieved, his dreams have been exceeded.

Capacity Crowd Enjoys Rousing Dedication

"Rose-Hulman now has a facility for our student performing arts groups and alumni that is worthy of the nation's No. 1 ranked undergraduate engineering college," Rose-Hulman President Samuel Hulbert said in describing Hatfield Hall to a capacity crowd who attended dedication events at the state-of-the-art facility Nov. 9.

The 602-seat theater replaces the Moench Hall Auditorium that had been used as a performing arts facility for 76 years. The auditorium space in Moench Hall is being remodeled into a new location for the Department of Computer Science and Software Engineering.

From the opening Cole Porter song, "Another Op'nin, Another Show," performed by Rose-Hulman students to a standing ovation at the conclusion of a concert by the Terre Haute Symphony Orchestra, the dedication was an expression of appreciation to Mike and Deborah Hatfield. It is their \$14 million gift, the largest donation from an individual in the college's history that funded the construction of Hatfield Hall and an endowment to maintain the state-of-the-art facility.

The new facility is named in honor of Mike's parents, Pat and Larry Hatfield. A large, oil portrait of Larry and Pat was unveiled during the dedication ceremonies. The painting now hangs near the new Alumni Center.

Among those thanked by Pat Hatfield during remarks she made following the portrait's unveiling was architect Bill Bradford of VOA Associates based in Chicago. She worked closely with Bradford and campus officials during the design phase of the building. "I had a vision, and today it is a reality because of the talents of so many, especially Bill Bradford," she said. "Larry and I are simply overwhelmed by the beauty and quality of this structure." Bradford has been the lead architect on several new campus structures, including the White Chapel and Sports and Recreation Center.

The Hatfields agreed that seeing the completed building for the first time the morning of the dedication was an emotional experience. "It was overwhelming. Seeing it for the first time made me realize that this building will benefit students beyond our lifetime," Deborah Hatfield commented.

Hulbert emphasized that Hatfield Hall will have a positive impact on students even after they graduate. "Our students have exceptional musical and theatrical talents, which can now be displayed in an ultramodern facility where those talents can be thoroughly appreciated. Even after they graduate, they will return and enjoy the new alumni hall and take part in performing arts activities," he said.



The Terre Haute Symphony played to a capacity crowd during the dedication.

The Alumni Center includes a fireplace and display cases to exhibit material about alumni achievement.

Mike Hatfield Expresses Appreciation for his Rose-Hulman Education

Hatfield graduated with honors in 1984. He earned a bachelor of science degree in electrical engineering and mathematical economics. He is founder, chief executive officer and president of Calix Networks in Petaluma, Calif. Calix Networks creates products to expand the reach of fiber optic networks.

During his remarks to the dedication audience, Hatfield recalled the benefits he received from the personal attention Rose-Hulman faculty provided. He told about a hallway discussion as an underclassman with John Ying, emeritus professor of economics, and how his admiration for the professor grew with each Ying class Hatfield took.

"The longer I'm away from Rose-Hulman the more valuable I realize my experiences at the school have been to my personal and professional development. Because of its size, Rose-Hulman gives students excellent opportunities for leadership roles in academic and extracurricular activities," said the Anderson, Ind. native.

"I want to make sure that type of educational environment continues. I'm very pleased and impressed with this facility. I know it will help Rose-Hulman achieve its goal to always be the best," he stated.

"My parents had a very strong influence on why I went to Rose-Hulman," Hatfield remembers. "My father's educational and professional background in engineering certainly influenced me," noted Hatfield, whose father received an engineering degree from the University of Missouri-Rolla. "My mother's involvement as a volunteer for arts organizations and other community groups taught me the need to give back to your community," explained Hatfield. As a student, he served as social service chair for his fraternity and as a volunteer for Special Olympics.

Hatfield Hall Benefits Alumni, Staff and Students

The opening of Hatfield Hall marks the completion of the seventh multimillion-dollar facility to be built on campus in six years. In addition to the new theater, Hatfield Hall houses an Alumni Center, rehearsal and practice rooms for student groups, storage for music and theatrical equipment, and a scene-making shop.

The circular portion of Hatfield Hall houses the new Alumni Center on the main floor near the building's main entrance. The room is octagonal-shaped on the inside and highlighted by a two-story, vaulted ceiling capped with a skylight. The room includes a fireplace, hardwood floors and the opportunity to give more visibility to the achievements of Rose-Hulman alumni.

"Several large display cases are being used to exhibit material about the achievements of alumni and historic as well as current Rose-Hulman successes," noted Brian Dyer, director of alumni affairs and special events. "These exhibits are now part of our admissions tours and other visits by guests to campus," he noted.

New space for the alumni, development and external affairs staffs is located on two floors on the north side of the facility. These administrative offices were moved from the Templeton Building, which has been demolished. Templeton was built in 1954 and served as the college's first student union before being remodeled into administrative offices.

Students Excited About New Opportunities Hatfield Hall Provides

Students agree that Hatfield Hall will greatly enhance the creative outlet provided by Rose-Hulman performing arts groups, which provide an outlet for students.

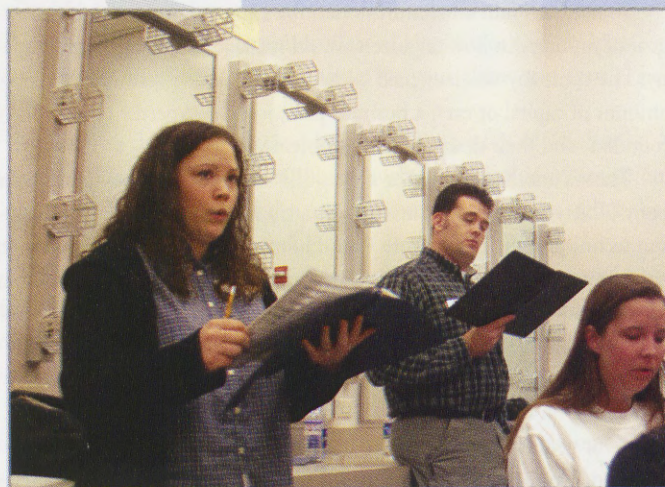
"I think the diversity that the Drama Club can bring to my education at Rose-Hulman keeps me from thinking in a box, it keeps me sane in my studies to be a computer scientist," Drama Club President Sid Stamm said.

More students will be encouraged to join campus performing arts groups as a result of the new facilities, according to Sara Horner, president of the Rose-Hulman Chorus. "With such an exquisite facility, students now know that Rose-Hulman takes pride in the diverse talents of the students, especially those who are involved with the performing arts."

Chemical engineering major Jennifer Phelps says Hatfield Hall will be an important part of a student's campus experience. She said being in the Rose-Hulman Band provides a much needed break from the rigorous academic atmosphere on campus.

"Rose is a fast-paced, high-quality, but difficult education. Some people play sports to relieve stress, some watch TV, draw or paint, and some play music. Band is one way to help relieve the stress and it allows us to come back and face reality," explained Phelps, who is the Band's president.

Just a few words spoken by President Hulbert during the opening night ceremonies, seem to sum up everyone's feelings about the newest addition to campus: "This is a dream come true." ■



Cast members of "Guys and Dolls in Concert" practice in the rehearsal/dressing room that enhances Hatfield Hall offerings.



Finding a good fit

by David Piker

Software development company builds on strong Rose-Hulman alumni base

SEP, Inc. isn't your typical, successful software development company. Its relationship with Rose-Hulman isn't typical either.

Four Rose-Hulman alumni started the company in 1988 with the goal of finding out how engineers would manage an engineering company. The company was launched without a client, sales team, nor large amount of capital or even a business plan; just the expertise of its founders, and their desire to solve problems.

There's another factor that makes SEP different from any other company. Thirty-four Rose-Hulman grads are among the company's 52-person technical staff. That's more Rose-Hulman alumni employees than any company similar in size to SEP, according to the college's alumni database.

Now in its 15th year, the company has stuck to its values. SEP doesn't have someone dedicated to sales. The company doesn't even advertise. The organizational chart is flat with employees taking on several roles depending on the project.

"Our goal has always been to make a better mousetrap," stated President Co-founder Jeff Gilbert ('85, ME). "I guess it was an experiment that escaped from the lab. We weren't driven by wealth or the need to be famous," he said. "We wanted to build a place where we'd love to work."

A lot of the company's success is built on a simple philosophy – find a good fit. That premise relates to clients with the right projects. The

philosophy also influences the hiring of engineers who have the fit needed to create new technologies and be successful within the company's culture.

As Gilbert and 1986 Rose-Hulman grads Tony Montgomery, Tim Shoemaker and Mike Fouch (who is no longer with the company) got SEP going, they were driven by a basic business philosophy, "concentrate on doing good work, do what is right and success will come," Gilbert explains. As a result, SEP has retained its major clients who signed on with the company during its first years of operation.

"Our first project was developing software for an Army accounting system involving four million lines of software in a programming language called Ada. Most of our clients today are Fortune 100 companies, and an occasional small business," he says.

SEP has turned down business that isn't the right fit. "We don't often compete on price. If a client is just looking to save some money, we're not a good fit. That isn't a compelling enough reason to work together; besides we're rarely the lowest price. We look for projects that make an impact, let us learn new technologies and appeal to our engineers. Give us something that saves lives or makes a zillion dollars for our client— those are the projects that are most exciting," Gilbert explains.

"We look for projects that really make a difference to the client. When we do a good job we want it to be appreciated and remembered, who wouldn't?," he said.

SEP provides development support for many markets, including automotive, military, medical, aerospace clients. "Our specialty is software, so we see a lot of different problems. Any company with a need is a potential customer," said Gilbert. The company's expertise lies in many areas including embedded systems, desktop systems, web-enabled systems, software and product testing, verification, protocols, hardware and process analysis and rapid prototypes.

THE ROSE-HULMAN CONNECTION

Ask Gilbert how SEP has successfully recruited for so many years at Rose-Hulman and he'll tell you one reason is that the company's recruiters help students determine if they have the right fit.

"We consider recruiting to be a way to help students make the right job choice and that choice it not always SEP," he says. "I have personally counseled applicants to go somewhere else such as grad school, a bigger company, or their dream job. I think they appreciate that we are genuinely interested in them."

SEP asks interviewees to create a list of what's important to them about the company where they want to work. That's compared to a list the company has developed. The interview process is all about finding the best match.

"SEP is not for everyone and we make that clear in the interview," Gilbert explains. "What's most important to the senior? Salary, how many hours they'll work, what their job title will be? If it's not the right fit, we move on."

Jeromey Goetz, who joined SEP after earning a Rose-Hulman computer engineering degree in 1999, says the company has a good reputation on campus. "As an intern working at SEP, I learned that they are what they say they are."

Do 34 Rose-Hulman alums at the company create a certain synergy?

Goetz says the campus and company culture communicate the same expectations. "You're expected to be good," he said. "You're challenged and you have a lot of pride in the work you do."

"We know they've been well prepared," Gilbert says about his fellow Rose-Hulman alums. "The college demands a strong work ethic. A Rose-Hulman education prepares graduates to be excellent problem solvers. And, that's what we need," he adds.

"We hire engineers and teach them to program instead of trying to teach programmers engineering. Because the basics of the Rose-Hulman educational philosophy haven't changed, Tim, Tony (company co-founders) and I can still relate to the new grads, even though we are 'old'" Gilbert noted.

Vice President Tim Shoemaker concurs, "Rose grads still come out with a culture that fits SEP," he said. "They speak the same language. They want their work to add meaning to their life. That's similar to our goal of wanting to do work that makes a difference, even to the degree of saving lives," said Shoemaker, who was instrumental in creating Vigilance Medical Technologies, a SEP subsidiary.

"Sometimes it's like being back in the dorm," commented Raman Ohri, who graduated from Rose-Hulman in 1993, and works with two other engineers in one of the few traditional enclosed rooms in the SEP headquarters.

And, he notes, "Of course, there's conference room F. That's where we play foosball."

But don't think this is a Rose-Hulman company. Gilbert and his colleagues are quick to point out that it isn't. Just ask 1994 Purdue grad, Chris Shinkle, who, in addition to his engineering duties, recruits for SEP at Rose-Hulman and his alma mater.

"It's unusual for a Purdue grad to be in the minority at a company," he says. "New Rose grads contribute right away. It's easy to work here and not be from Rose-Hulman," Shinkle stated. "The only time the Rose-Hulman group gets out of hand is when the *U.S. News & World Report* magazine rankings are announced," he said smiling.

Part of the SEP fit is an organizational structure with few titles, but shared responsibility. "While my title is senior software engineer, I may be a project manager on one assignment and a team leader or simply a team member on the next depending on how I can best contribute to the project," says Ohri.

One way the company ensures that employees can sharpen their skills is through the SEP Academy. The academy classes are taught by employees. Courses last for three months and meet once a week. Quizzes, tests and homework are part of the requirements, says Gilbert as he displays his framed SEP Academy certificate proving that he completed a class to improve his writing skills.

Even though the staff gets involved in what employees describe as "commando projects" when stress levels rise to meet some clients demands, Ohri says SEP knows employees are people and need to put work in perspective. "The key question is, are you there for your client and team?" he explains.

Underlying the relaxed atmosphere at SEP's two-year old, headquarters building in the Indianapolis suburb of Carmel is an ambition to make a difference without the number one consideration being the bottom line.

"That's no doubt hampered our growth," Gilbert commented. "However, we want to grow without changing our character or culture," he said "We've been through a tough period the past 12 months," Gilbert admits.

Gilbert is quick to answer when asked what he enjoys most about the demands of guiding SEP, "One of my greatest joys is giving a new graduate the opportunity to develop into a top engineer. That's why I like recruiting on campus so much," says the Farmersburg, In. native.

Sounds as if a lot of Rose-Hulman alums have found the right fit. ■



Kyle Pinches, a 1999 Rose-Hulman alumnus, works as a software engineer for SEP.



BACK TO BASICS

Alumnus Greg Smith focuses on the fundamentals as chairman,
president and CEO of the Ford Motor Credit Company

BY BRYAN TAYLOR

Greg Smith is a back-to-basics kind of guy, but you won't find him living off the land in some secluded forest. Smith, a 1973 mechanical engineering alumnus, practices that philosophy as chairman, president and chief executive officer of the Ford Motor Credit Co and a group vice president of Ford Motor Co. He was named to that position last September after having served as president and chief operating officer of Ford Credit.

As the chief officer at Ford Motor Credit, Smith is responsible for all operations of Ford Credit worldwide, including regional sales offices, dealer support operations, product development, marketing and insurance. He also is responsible for Ford Credit's North American Diversified Operations, which includes commercial lending services as well as the PRIMUS, AMI, Triad and Volvo financing subsidiaries.

Ford Credit is the world's largest automotive finance company. If it were a bank, it would be the ninth largest in the world, with more than \$200 billion in assets. Based in Dearborn, Mich., next door to Ford Motor Company's International headquarters, Ford Credit provides vehicle financing to more than 11 million customers and more than 12,500 automotive dealers in 36 countries around the world. More than 20,000 people are employed with Ford Credit.

As the world economy goes through some uncertain times "we are focusing on the basics of our business and trying to excel at the fundamentals," Smith explained. "We're focusing on our core business and we're not expanding into new businesses. We're doing automotive lending extremely well and we're committed to doing it even better."

Smith cited three core elements the company uses to find success in the financial marketplace: loan origination, including the process of getting them on the books; servicing customers; and funding the company's operations.

"We do a lot of benchmarking and incorporate a lot of metrics that measure efficiency, time and customer satisfaction," Smith explained.

The fundamental-focused philosophy has paid off. Ford Motor Credit reported earnings of \$1.23 billion in 2002, up \$395 million from earnings of \$839 million a year earlier. The company also received two of the four top awards in the most recent J.D. Power Customer Finance Satisfaction Study. And Smith's management strengths have been recognized by national and local business media and by automotive trade journals.

"Auto lending is extremely competitive," Smith noted. "People expect us to compete with GMAC and DaimlerChrysler Services, but the reality is that we compete with every regional and national bank and with every local bank and credit union."

Smith conveys his back-to-basics philosophy through a team approach to management. "At every level, this is a team sport. The interaction with people at all levels is a significant element of business success.

"We strive to establish the right culture, where people feel accountable but open to suggestions and ideas. It makes for a

dynamic and responsive work environment, where people display a high degree of integrity and competency in what they do."

When asked to cite the rewards he receives through his position, Smith put working with his Ford colleagues and with auto dealers at the top of the list. He noted also that he enjoys the interface with Wall Street on balance sheets and funding issues and, "the nuts and bolts of the finance business in general."

Management was a goal of Smith's when he left Rose-Hulman three decades ago, but he had no inkling he would end up in financial services. His first job out of college was an engineering position with Ford Motor's Truck Operations. He spent 12 years in truck product development before moving to a position as truck and powertrain marketing plans manager.

In 1987, Smith was appointed manager, car marketing plans for Ford Division; in 1989, he became regional marketing manager for the company's central region. Later that year, he moved to the Lincoln-Mercury Division to become the Dallas district operations manager.

As he moved through these positions, Smith gained an appreciation of all aspects of the automotive business, from product cycle planning and marketing, to working with dealers. In 1990, Smith was named director of strategy and advanced planning for car product development, a position he held until 1993 when he was appointed executive director, strategic planning and external affairs, for the Ford Financial Services Group. He was named vice president, new business development, for Ford Credit's Diversified Operations in 1994. In 1995, he was elected to executive vice president, international financing operations.

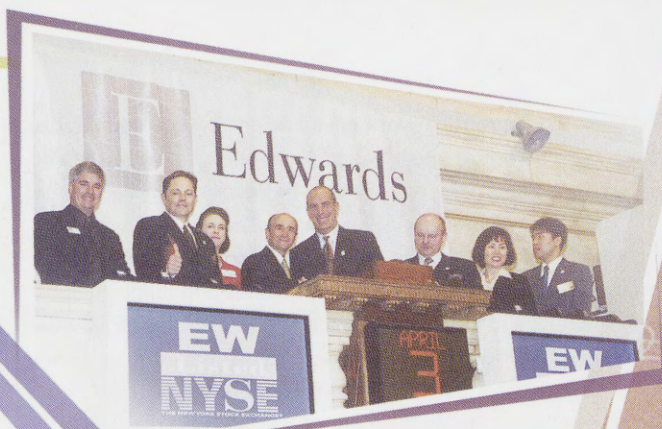
"In a large company like Ford, one of the advantages you have is the opportunity to have a diverse set of work experiences," Smith said of his career path.

Although he has not tinkered with the specs of a truck recently, Smith has not forsaken his engineering heritage. "An engineering background helps you do most anything because it's an analytical process," Smith said. "I use it (engineering background) now as more of a thought process than I do a technical discipline."

Smith supplemented his engineering degree with a master of business administration from Eastern Michigan University.

The workday for Smith normally starts at about 7 a.m. and runs until about 6 p.m., with dinner meetings and travel a regular part of the mix. Smith does not limit his time only to work – he is a board member for Junior Achievement of Southeast Michigan, and he is on the Deans' Advisory Council at the Indiana University Kelley School of Business. He also sits on the board of Detroit Investment Fund, which provides capital and advice for developing companies in the Detroit area, and he is a trustee to the Eastern Michigan University Foundation Board.

On the family side of life, Smith enjoys spending time with his wife and three sons. His hobbies include skin diving, snow skiing and travel. He also enjoys spending time with close Rose-Hulman friends living in the Detroit area. ■



Mussallem at the New York Stock Exchange when Edwards went public.



spin-off success

BY BRYAN TAYLOR

MIKE MUSSALLEM HELPS ENGINEER SPIN-OFF OF MEDICAL TECHNOLOGY COMPANY AS CHAIRMAN AND CHIEF EXECUTIVE OFFICER

Strategic analysis has led to some major life changes for Mike Mussallem. The first one came when he moved from making anti-freeze into the medical technology industry. Another major shift occurred three years ago when he helped engineer the spin-off of a company he now heads.

Mussallem, a 1974 chemical engineering alumnus, is chairman and chief executive officer of Edwards Lifesciences Corp., a global leader in products and technologies to

treat advanced cardiovascular disease and the world's number-one heart valve company.

Edwards focuses on four main cardiovascular disease states: heart valve disease, coronary artery disease, peripheral vascular disease and congestive heart failure. Located in Irvine, Calif., Edwards was spun off from Baxter International in April of 2000.

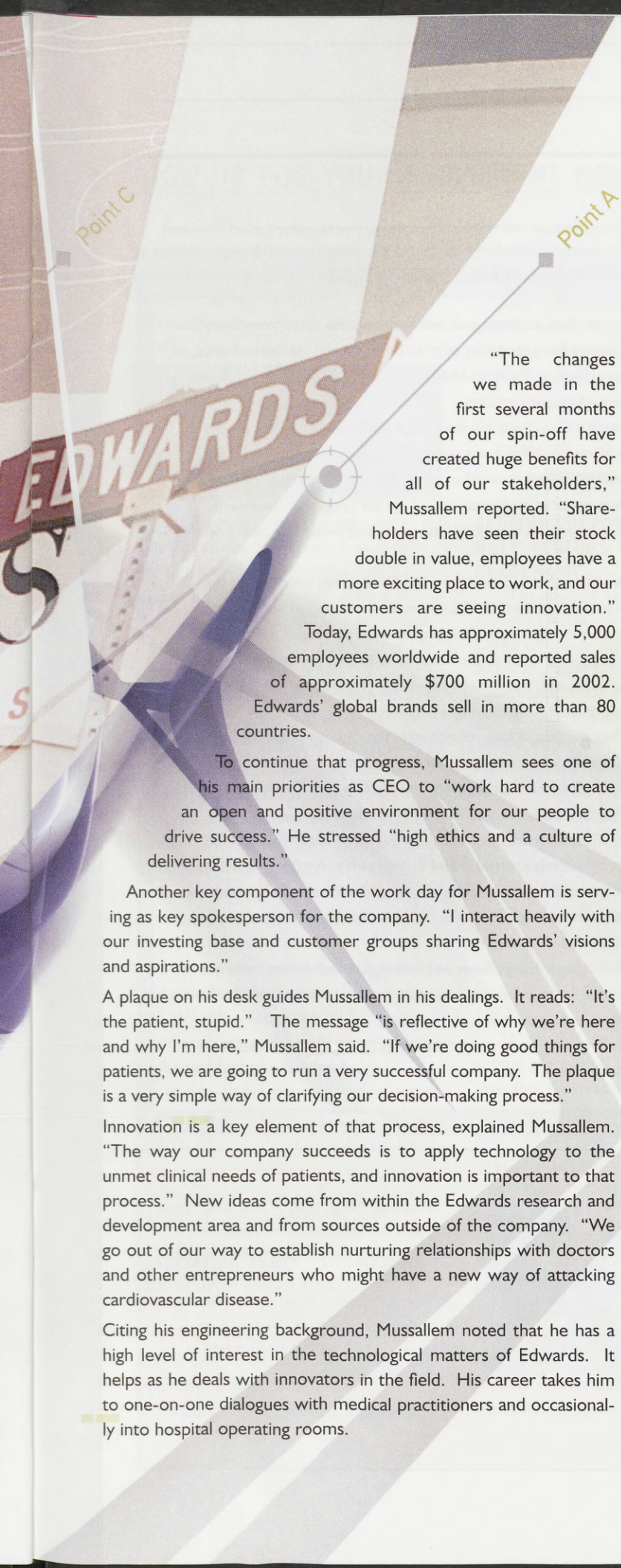
Mussallem was a key player in that spin-off as head of the Baxter CardioVascular Group.

"Baxter was in a strategic planning process and we questioned why the cardiovascular group wasn't growing faster. We found it to be a lack of investment specifically into that core area. We investigated various alternatives and a spin-off with a dedicated management team appeared to be a good solution."

The company went public with a listing on the New York Stock Exchange, but Mussallem attributes the spin-off's success to the existing employ-

ees. "It all started with the employees," he explained. "Our goal was to get them engaged to behave like owners and this influence would carry over to our customers and impress shareholders." The employees themselves became shareholders under this philosophy.

In addition to engaging the employees, the new company did have to make some tough restructuring decisions to divest itself of businesses that did not fit into long-term growth plans for Edwards.



"The changes we made in the first several months of our spin-off have created huge benefits for all of our stakeholders," Mussallem reported. "Shareholders have seen their stock double in value, employees have a more exciting place to work, and our customers are seeing innovation."

Today, Edwards has approximately 5,000 employees worldwide and reported sales of approximately \$700 million in 2002. Edwards' global brands sell in more than 80 countries.

To continue that progress, Mussallem sees one of his main priorities as CEO to "work hard to create an open and positive environment for our people to drive success." He stressed "high ethics and a culture of delivering results."

Another key component of the work day for Mussallem is serving as key spokesperson for the company. "I interact heavily with our investing base and customer groups sharing Edwards' visions and aspirations."

A plaque on his desk guides Mussallem in his dealings. It reads: "It's the patient, stupid." The message "is reflective of why we're here and why I'm here," Mussallem said. "If we're doing good things for patients, we are going to run a very successful company. The plaque is a very simple way of clarifying our decision-making process."

Innovation is a key element of that process, explained Mussallem. "The way our company succeeds is to apply technology to the unmet clinical needs of patients, and innovation is important to that process." New ideas come from within the Edwards research and development area and from sources outside of the company. "We go out of our way to establish nurturing relationships with doctors and other entrepreneurs who might have a new way of attacking cardiovascular disease."

Citing his engineering background, Mussallem noted that he has a high level of interest in the technological matters of Edwards. It helps as he deals with innovators in the field. His career takes him to one-on-one dialogues with medical practitioners and occasionally into hospital operating rooms.

Another benefit of his background came from the halls of Rose-Hulman where he acquired an analytical problem-solving background. "A large number of problems we confront are relatively complex," Mussallem pointed out. "To be able to address them in quantifiable terms is a skill set I acquired at Rose."

The skill set applies itself in a very competitive and advancing field. Mussallem said. "There is an endless challenge to stay on top of rapidly developing technologies and approaches. We try to drive the approach in how best to serve the patient. We want to drill deeper on the causes of cardiovascular disease and understand what the patient is going through. We also strive to recognize differences between people in how the disease manifests itself and how the patients react to treatment."

Running a global corporation that strives to meet patients' unmet clinical needs offers many challenges and opportunities, but one of the larger personal challenges for Mussallem is taking time to "reflect on what we've done and celebrate our successes. We have a culture of constantly raising the bar on how to achieve more, but many times we have to remind ourselves to reflect on our accomplishments."

Mussallem has weathered his recent major life change well. His current position had its roots in another major career shift in 1979. He had been out of Rose-Hulman for five years working for Union Carbide in that company's Home and Automotive Products Division. He had held various manufacturing and engineering positions from production supervisor to plant engineer in Illinois and later in New Jersey. Anti-freeze production was a part of his responsibility during that time. During his time with Carbide, he was in a process of discovery as to what he really wanted to do with his career. "As I explored various options, I became intrigued with medical technology," Mussallem remembered.

To enter the medical technology world, Mussallem took a job as a senior engineer with Baxter. He progressed through a variety of increasingly responsible positions in manufacturing, engineering and product development. He was named president of Baxter's Critical Care Division in 1993, and group vice president of Baxter's Surgical Group in 1994. In 1995, he was put in charge of Baxter's Cardio-Vascular business, and in 1998, he was appointed to lead the company's Biopharmaceuticals business. Also, from 1996 through 1998, he chaired Baxter's Asia-Pacific Board, which coordinated regional initiatives across all of Baxter's businesses.

Edwards Lifesciences is named after Miles "Lowell" Edwards, an engineer and inventor who helped create the world's first commercially available replacement heart valve. Through a series of acquisitions starting in the 1960s, Edwards' initial company, Edwards Laboratories, eventually became part of Baxter in the 1980s. This is the unit that Mussallem helped spin out in 2000.

Outside of the corporate world, Mussallem enjoys fly-fishing, listening to music, physical fitness and sports. Originally from Gary, Ind., he remains a diehard fan of the Chicago professional sports teams, including the Cubs baseball team. That sounds like a another situation that could use some strategic analysis. ■

ASSOCIATION NEWS

IT TAKES ALL OF US TO SUCCEED

Alumni are among the most important assets of the Rose-Hulman family. We now have 10,500 living alumni and 36 percent have graduated in the last 10 years, with 51 percent graduating since 1980.

The alumni advisory board has 14 members. That includes nine committee chairs, association officers, and Brian Dyer, director of alumni affairs and special events. We welcome two new members to the board – Sam Reed ('81), chair of the Student Recruitment Committee, and David Boodt ('81), chair of the Alumni Clubs Committee. The board meets four times a year, and conducts a meeting during Homecoming weekend with all attending Rose-Hulman alumni.

At our Nov. 9 meeting, Doug Stearley ('79), vice president, presented the Alumni Association Benchmarking Survey. Information was solicited from 22 colleges, and 10 responded to the survey. The alumni advisory board will process the results of the study and narrow down recommendations that might be beneficial to Rose-Hulman.

Alumni office staff highlights for the year have included a new online alumni directory and more than 40 meetings and events with alumni clubs throughout the country.

I hope you will join me this year in moving our association forward. It takes all of us to succeed.

Owen Meharg

Class of '54

President, Alumni Association

RARE EXPANDS STUDENT RECRUITMENT EFFORT

Recruiting the nation's best students gets more competitive every year. Every college or university is looking for a recruiting edge to be successful. At Rose-Hulman, a group of alumni is increasingly giving Rose-Hulman an edge that is having a positive impact on the college's admissions' success.

The group is called RARE — Rose Alumni Recruiting Engineers. RARE members are located in nearly 20 states. Some areas such as Chicago have as many as 20 RARE volunteers. This year, RARE volunteers will expand the college's admissions efforts by representing their alma mater at more than 60 college fair programs nationwide. They also help in other ways such as writing letters, sending e-mails or calling admitted students.

Jim Goecker, Rose-Hulman associate dean of admissions, has coordinated the group since its creation six years ago. "RARE volunteers have had an impact on our ability to increase interest in Rose-Hulman among students outside of Indiana. Rose-Hulman's reputation is growing and RARE enables us to be represented at more national college fairs," he noted. "Alumni are convincing. They do an excellent job talking about the value of their Rose-Hulman education."

Goecker noted that this year, RARE volunteers in the Chicago area have helped generate a record 200 applications from prospective students - a 75% increase in six years. "Chicago has served as our model group," he commented. The RARE program is expanding this spring to the Seattle area, according to Goecker.

Darrin Davidson, a 1986 alumnus, has been a RARE volunteer in the Chicago area ever since the program was created. "I feel that it's every alum's responsibility to sell the school and this is a way to participate," says Davidson, central region manager for Sears. "The most rewarding experience I've had is helping young people and their families make informed decisions," he said.

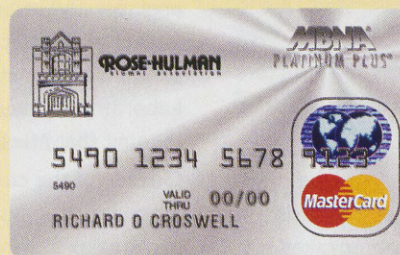
Davidson noted that younger alumni relate well with high-school seniors, while alumni like him can connect better with parents. "I got involved because I believe Rose-Hulman is a great place for people to pursue their dreams," he stated.

If you're interested in learning more about the RARE program, contact Goecker at james.goecker@rose-hulman.edu.

NEW CREDIT CARD WILL HELP UNDERWRITE CAMPUS PROGRAMS

The Alumni Affairs Office has recently signed an agreement with MBNA to offer a Rose-Hulman affinity credit card to alumni and friends.

MBNA will make a donation when a new account is opened, and when the account is renewed. MBNA will make an additional contribution to assist the Alumni Association every time a card is used to make a purchase — at no additional cost to each alumnus.



Proceeds will be used to help underwrite programs for students, alumni and their families during Homecoming and throughout the year.

For more information, contact Brian Dyer, director of alumni affairs and special events, at 812-877-8359 or via e-mail at brian.dyer@rose-hulman.edu.

SIGN UP FOR YOUR PERMANENT ROSE-HULMAN E-MAIL ADDRESS

Rose-Hulman alumni now can have a permanent Rose-Hulman e-mail address through a new e-mail forwarding program available through the Office of Alumni Affairs. This new service is free to all alumni with an e-mail address.



With e-mail forwarding your e-mail will follow you wherever you go. E-mail forwarding provides a permanent e-mail address which automatically sends e-mail to your current e-mail mailbox. For example, John Doe, Class of 1995, might choose an email forwarding address of john_doe95@alumni.rose-hulman.edu. He could use this address permanently, even though he might change the place where he actually receives his mail. John will direct the service to automatically forward e-mail from this address to his real mailbox. Your choice will be the address you'll share with friends and colleagues.

E-mail forwarding provides a forwarding service. It is not a mailbox. Keep in mind that choosing an e-mail address which is hard to remember, may hinder alumni or colleagues from finding you. Subsequent e-mail will pass through this address to your personal account previously set up with the service provider of your choice.

To sign-up for this exciting new service, please go to the Rose-Hulman web page and click on Alumni Affairs (<http://www.rose-hulman.edu/alumni-affairs/>), then online alumni directory and click on e-mail forwarding on the left side of the page.

ASSOCIATION PLANS TRIP TO ITALY FOR ALUMNI AND FRIENDS

The Alumni Association has added a tour to its 2003 season for Rose-Hulman alumni and friends with "Italian Escapade" which will run June 24-July 7.

History, culture, cuisine, magnificent

scenery and extraordinary art combine to make this a destination that appeals to the heart, mind and senses.

Highlights include all of the "must-sees" of Italy – Florence, Rome, Milan, Pisa, the Italian lake region, Venice, Assisi, Isle of Capri, Sorrento and Pompeii. Tour price per person begins at \$3555. Contact Bunny Nash, Assistant Director of Alumni at 1-800-248-7448, ext. 8465 or bunny.nash@rose-hulman.edu.

ALUMNI SUPPORT SOUGHT TO HELP SENIORS WITH CAREER PLACEMENT

The Alumni Association Career Services Committee and the Rose-Hulman Office of Career Services are teaming up to solicit increased alumni support in the placement process this year.

"Because of the continuing difficult job market conditions, we are trying to reach out to alumni even more to help this year's seniors enter the job market," said Kevin Hewerdine, director of career services. "We are asking alumni who know of employment opportunities where they work to consider funneling them to us."

The alumni association has thrown its support to this effort, said Mark Owens, chair of the association Career Services Committee and a member of the Class of 1972.

"Normally, our committee focuses on alumni placement, but given the current situation, we want to focus our energy on this year's graduates and pull alumni in to help with the process," Owens said. "We have a large body of alumni and we want to use that to create opportunities for this year's seniors."

"Alumni have done a good job for Rose-Hulman and our students in the past, but this year, we're asking them to go the extra mile to get our students' name in front of those people making the hires," Owens said.

Any alumni who know of openings with their employers should contact

Hewerdine at 1-800-248-7448, ext. 8184 or via e-mail at kevin.hewerdine@rose-hulman.edu. Owens can be reached via e-mail at mto@lilly.com.

ROSE-HULMAN MEMORABILIA SOUGHT FOR NEW ALUMNI CENTER

Don't forget Rose-Hulman when cleaning out your garages and closets this spring. The new Alumni Center in Hatfield Hall provides an area that allows us to display memorabilia from Rose-Hulman's past.



If you come across some items from Rose-Hulman's history, don't pitch them until you contact the college. The center currently displays a variety of items, from beanies to pennants to programs to historical photos, etc.

"We want the Alumni Center to provide a fitting tribute to our Rose-Hulman heritage," said Alumni Director Brian Dyer. "We encourage alumni to contact us about potential contributions for the displays."

Bill Nicewanger (class of 1963), chairman of the association's honors and awards committee, will be heading a committee to formally contact alumni about such donations. If you have questions or thoughts about this project, contact Dyer at 812-877-8359 or via e-mail at brian.dyer@rose-hulman.edu.

NEW ADVISORY BOARD MEMBERS

Two alumni have joined the Alumni Association Advisory Board.

Sam Reed, class of 1981, president of BSA Lifestructures, Indianapolis, is the new chair of the advisory board's Student Recruitment Committee.

The other new member is David Boodt, class of 1981, vice president and general counsel for the United Student Aid Funds in Indianapolis. He heads up the Alumni Clubs Committee for the advisory board.

1963

David L. "Lynn" Roberts (Ch.E.) has retired after years of service with Phillips Petroleum Co. He and his wife, Linda, have relocated from Houston to Louisville, Ky.

1969

James A. Coles (E.E.) has been named as one of the "Best Lawyers in America 2003-2004." Coles is with the Indianapolis-based law firm of Bose McKinney & Evans LLP. "The Best Lawyers in America 2003-2004" is compiled by asking more than 14,000 lawyers throughout the United States to rate the clinical abilities of other lawyers in their areas of specialization. Only those lawyers who earn the consensus support of their peers are included, and listings cannot be bought. Coles is a member of the Indiana State and Indianapolis Bar Associations and a former chairman of the Patent, Trademark, and Copyright Sections of both associations. He is a founding member of Access Technology Across Indiana, a not-for-profit organization that promotes scientific and technological advances, facilitates the transfer of new technologies, and improves the quality of life through technology. He also is a former adjunct professor of commercial law at Indiana University School of Business, and he has taught business law at the University of Indianapolis.

Robert Hillis (M.E.) is the new chairman of the Milwaukee School of Engineering Board of Regents. He was elected unanimously to that position last fall. He is founder, president and CEO of Direct Supply, Inc., of Milwaukee, one of the nation's largest providers of equipment and information systems to health care networks.

1970

Roger M. Sweany (E.E.) is now president and director of electrical engineering for Rotz Engineers, Inc. He lives in Brownsburg, Ind.

1973

George Rodibaugh (M.E.) recently was appointed as manufacturing manager for the Developing Markets Organization of Xerox Corp. His responsibilities include Xerox plants in Egypt, India and Brazil. Previously, he was plant manager for copier and printer assembly in Rochester, N.Y. He continues to reside in the Rochester area.

1975

David Wojahn (Ch.E.) has accepted a position as regional operations manager-Western U.S. with Cabot Oil & Gas Corp. in Denver, Colo.

1976

Douglas Hileman (Ch.E./Math.) now is a senior manager at

PricewaterhouseCoopers LLP in the Sustainability Business Solutions Group. His group is 300 worldwide, helping companies with environmental, social, supply chain, corporate ethics and governance issues. He remains based in Los Angeles and reports there is nothing quite like being at a Big 4 accounting firm during audit season.

David Neil Wylde (Math.) married Karen Sue Reinking last September.

1979

John W. Collins (M.E.), an associate professor of computer science and chief technology officer for Hanover College, will oversee the academic and administrative computer services at that college. He also will teach computer sciences courses.

Michael Jacobs (Ch.E.) has returned to the United States with his wife, Janet, and son Jordan after nearly seven years in London. He is a vice president with A.T. Kearney management consultants. In London, he was responsible for Kearney's Northern European Operations practice. He holds an MBA from the University of Chicago. He continues with A.T. Kearney in the firm's Atlanta office.

1980

Kendell Davenport (C.E.) reports he and his wife, Terra, became parents of

Jonathan Thomas Davenport on Sept. 18.

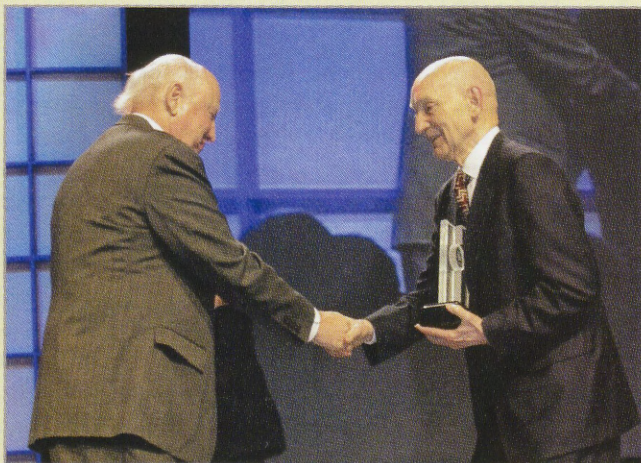
Jonathan T. Perry (M.E.) was promoted from drilling superintendent to wells delivery team leader in October 2001. He became a permanent resident of Trinidad and Tobago in December 2002, and he completed the adoption of 12-year-old Leiyen the same month.



TOP 20 GEOGRAPHIC LOCATIONS FOR ROSE-HULMAN ALUMNI

1. Indianapolis - 1730
2. Wabash Valley - 1074
3. Chicago - 676
4. Bloomington - 365
5. Detroit - 336
6. Cincinnati - 293
7. Washington D.C. - 279
8. Dayton, OH - 267
9. Louisville - 255
10. Fort Wayne - 240
11. Central Florida - 209
12. Columbus, IN - 205
13. San Francisco - 198
14. Northern Indiana - 192
15. Houston - 184
16. Dallas - 169
17. Evansville - 162
18. Denver - 158
19. Northeast Ohio - 156
20. Atlanta - 143

VONDERSCHMITT RECEIVES ELECTRONICS INDUSTRY LEADERSHIP AWARD



Vonderschmitt, right, receives award from President Hulbert

More than 1,600 executives in the electronics industry recently honored electrical engineering pioneer and Rose-Hulman alumnus Bernard Vonderschmitt during a tribute about his career that was presented at the annual awards dinner sponsored by the Fabless Semiconductor Association (FSA) in Santa Clara, Calif.

During the ceremony, Vonderschmitt received the Dr.

Morris Chang Exemplary Leadership Award for outstanding achievements and unique contributions to the fabless sector that has elevated the entire semiconductor industry.

The award presentation was preceded by a video montage that traced Vonderschmitt's career accomplishments from his work in the development of color television at RCA to his founding of Xilinx which is a worldwide leader in programmable logic solutions. Vonderschmitt and his fellow Xilinx founders were the pioneers of the fabless semiconductor business model nearly 18 years ago.

During the FSA awards program, Xilinx was named Most Respected Public Fabless Company. Xilinx was chosen for its market capitalization, revenue growth and 2002 revenue estimates.

Vonderschmitt received an honorary degree from Rose-Hulman in 1979, and the bachelor of science degree in electrical engineering in 1944. Last fall, he was presented with the Honor Alumnus Award for his service to the college. He continues to serve as chairman of Xilinx.

You can view the video tribute to Vonderschmitt by accessing the Rose-Hulman alumni web site at www.Rose-Hulman.edu/alumni affairs

Michael Tucker (M.E.) began a new position as senior patent counsel with BorgWarner, Inc., an automotive supplier, at the Powertrain Technical Center in Auburn Hills., Mich.

1983

Dave Oakley (Ch.E.) recently received a promotion. He joined Callaway Golf in 2000 as director of quality for the Golf Ball Company. In 2001, he was promoted to senior director of quality and engineering for both the Ball and Club Companies. His new title is vice president of quality and engineering for Callaway Golf. He has added responsibility for all facilities, maintenance, EH&S and Corporate Real Estate to his

engineering and quality function.

1985

Garth D. Ash (Ch.E.) has started his own business, CarterAsh Inc., Drivers of Productivity. The company specializes in assisting the small to intermediate-sized companies in improving their bottom line through process improvements as well as general engineering and safety services.

Doug Byrer (Ch.E.) received the 2002 Rose-Hulman Jess Lucas Alumni Leadership Award in December. The honor recognizes a former member of the college's residence hall staff for continued development as a professional

engineer or scientist. Byrer, a first-generation college graduate from Loogootee, Ind., was a resident assistant for two years (1983-84 and 1984-85) and a sophomore adviser for one year (1982-83). Professionally, Byrer has been a process engineer with Reilly Industries Inc. near Indianapolis since 1994. Byrer lives in Avon, Ind., with his wife, Elisa, and their two children, Bryan, 14, and Margaret, 12. Joining in the celebration were Byrer's classmates Rick Stamper (M.E. '85), another former residence assistant and now a mechanical engineering professor at Rose-Hulman; and John Weis (Ch.E., '85), assistant vice president for F.M. Global.

David Cramer (E.E.)

announces the birth of his fifth child, Mark James, born on Sept. 18. Mark joins siblings Ryan, Ben, Adrienne and Elizabeth.

1986

John A. Byerly (E.E.) and his wife, Doris, had their first child, Mark Russell, last July.

Robert M. Gislason (C.E.)

updates *Echoes* he works as a project manager for WCI Communities, Inc., He recently completed his master's in business administration at the University of Illinois. He and his wife, Diane, and sons John and Scott live in Ft. Myers, Fla.

Scott Wright (Ch.E.) was promoted to lieutenant colonel in the U.S. Army during 2002, and he received a Ph.D. in environmental engineering from the University of Colorado-Boulder. Now serving over 16 years in the Army, he currently works as the Army Medical Department's Exchange Officer to the Australian Defence Health Service.

1987

Mitch Day (Ch.E.) graduated last May from the executive MBA program at the University at Buffalo. In conjunction with the program completion, he was promoted to business manager of Praxair's Detroit Pipeline system. He relocated from Buffalo, N.Y., to the Detroit area.

1988

Jeff Gresham (E.E.) announces the birth of a daughter, Alexandra Rose, born Jan. 3. She joins three-year-old brother, Thomas. Jeff also recently accepted a position of vice president in the Technology Infrastructure Engineering Group at Salomon Smith Barney in Manhattan.

E. Sean Griggs (Ch.E.) has been elected as a new partner with Barnes & Thornburg in Indianapolis. He practices primarily in environmental law and litigation.

1989

Brian Glover (E.E.) reported the birth of second child, Abigail Marie, born last

June. Big sister, Emily Pearl, was born in July of 2000.

Johnathan Hendrich (E.E./MSEMG '00) has been promoted to global engineering manager at Tredegar Film Products, a subsidiary of Tredegar Corp. He joined Tredegar Film Products in 1990. He has worked in China and Hungary for Tredegar.

Galen Reinholt (Ch.E.) and his wife, Tracy, announce the birth of Anastasia Nicole, born last October. She joins big brother Cole.

1990

Brian Bartley (E.E.) and his wife, Jennifer, celebrated the birth of their third child Bethany Marie last September.

Edward A. Flake (E.E.) has taken a new position at Veazey, Parrott, Durkin and Shoulders as an electrical engineering/designer. He resides in Indianapolis.

Davide Ivaldi (E.E.) has transferred from Rockwell International, Energy Management Group to Nuclear Management Company in Palisades, Mich. He is a design engineer, instrumentation and controls. He resides in Mishawaka, Ind., with his wife Deborah and their three children Evan, Abigail and Andrew.

Rodney S. Retzner (M.E.) reports a new arrival, Dalton Patrick, born June 20. That makes three boys in the Retzner family. Rodney

continues to work at Krieg DeVault LLP in Indianapolis.

Jason Stone (M.E.) married Christina Decrescenzo in July of 2001. He works as a test engineer for Mack Trucks in Allentown, Pa. He earned a commercial drivers license last September.

Robert Zacher (M.E.) wed Alane Powers last year. They reside in Bloomingdale, Ill.

1991

Kurt F. Breischafft (E.E.)

reports the birth of Keeley Nichole who joined older brothers Collin and Reese last August.

Rodney West (M.E.) and his wife, Laurie, announce the birth of a daughter, Vanessa Jean, born Nov. 23. She joins older sisters Alyssa and Nora.

1992

William S. Meyers (A.O./M.S.A.O. '94) has become an associate in the Intellectual Property Group

J. Reed named president of BSA Lifestructures



Samuel J. Reed, a 1981 mechanical engineering alumnus, has been promoted to president of BSA Lifestructures, the largest architectural and engineering firm based in Indiana. Reed replaces Monte Hoover who was named chairman of BSA Design in 2002.

As president, Reed oversees BSA's architecture and engineering divisions, continuing the company's mission of designing functional, innovative spaces for the people who use them. Reed will play a key role in growing the firm

in becoming a national player in the health care and life science areas.

Reed grew up near West Lafayette, Ind. and has worked at BSA Design for more than 20 years. He became a principal in 1995, and has led the firm's engineering team since 1999.

He is a registered professional engineer in Indiana, Ohio, Kentucky, Kansas, North Carolina, Oklahoma and Florida.

He is a member of the Rose-Hulman Alumni Advisory Board, The Advisory Council of the Carmelites of Indianapolis and St. Pius Catholic Church. He is also a member of the American Society of Heating, Refrigeration & Air Conditioning Engineers; American Society of Plumbing Engineers; National Society of Professional Engineers; and Indiana Society of Professional Engineers.

of the Indianapolis-based law firm of Bose McKinney & Evans LLP. He is a registered patent agent and an optical and design engineer. He has worked as a law clerk and patent agent at the law firm since 1999, working with copyrights, trademarks, the preparation and prosecution of patent applications and patent infringement litigation.

Tim Spurling (C.E.) reports the birth of second son, Jacob, born last July.

Edward "Ned" Zimmer (Phy./Math.) married Brandi Guilliams last September.

1993

Bobby Cain (E.E.) has accepted a new sales engineer position with GE Industrial Systems last year.

Matt Warstler (C.E.) recently received his PE in Georgia as well as a CPESC (Certified Professional in Erosion and Sediment Control) Certification from the International Erosion Control Association.

1994

Doug Burton (A.O.) recently was promoted to senior manager at Accenture.

Tim Dougherty (Ch.E.) reports the addition to the Dougherty family with the birth of Jack Robert on Nov. 23.

Jeff Harless (C.E.) and his wife, Kendra, welcomed Zackarey James, born Nov.

15. He joins sisters Hannnah and Marissa. Jeff works in Fort Wayne, Ind., as a structural engineer.

Kevin T. Kinney (Ch.E.) married Lesley A. Garrison in Meridian, Miss., last October.

Matthew E. Leach (M.E.) and his wife, Pamela, announce the birth of their second child, Magdalene Marie, on Oct. 1.

Eric Potter (E.E.) and his wife, Jill, welcomed their third child, Kailin Marie, born Sept. 5. She joins big sister Emma and big brother Grant.

Scott Alan Schroeder (M.E.) and Vinita B. Ramnani were united in marriage Oct. 12 in Troy, Mich.

1995

Casey M. Erwin (C.E.) has been promoted to senior project manager at D.A. Brown Engineering Consultants in Kendallville, Ind.

Douglas W. Payne (M.E.) and his wife, Jennifer, report the birth of second son Trevor, born Sept. 3. He joins sibling Caleb.

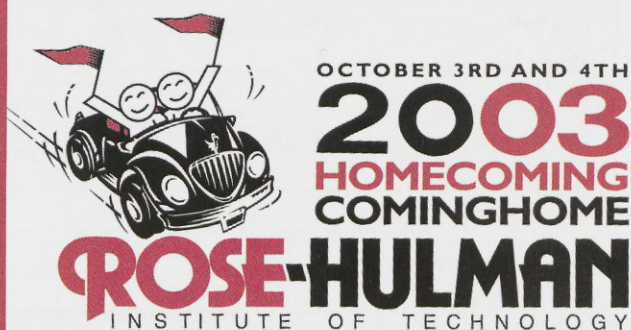
Brian Shattuck (C.E.) and his wife, Katie, welcomed their first child, Paul Michael, September 11. Brian has completed his MBA at Butler University and currently works for Visteon Corp., Indianapolis, as a production supervisor on a Ford Truck steering column line.

MARTIN LUTHER KING DAY



Four African-American Rose-Hulman alumni participated as panelists during a January campus program to observe the contributions of Martin Luther King, Jr. Participating, lower photo from left, were: Gerald Roberts (1985 electrical engineering), Damon Richards (1984 electrical engineering), Darin Moody (1987 chemical engineering) and Joseph Matthews (1991 electrical engineering). They agreed that while progress has been made to achieve the dreams expressed by the civil rights leader, more work needs to be done if that progress is to continue. The four shared their experiences in becoming successful in their careers and communities.

MARK YOUR CALENDAR TODAY!



Make Motel Reservations Immediately

For more information, contact Brian Dyer, director of alumni affairs and special events, at 812-877-8359 or visit our web site at <http://www.rose-hulman.edu/homecoming/>

1996

Keith A. Barron (M.E.) married Erin J. Busch of Rochester Hills, Mich., on Sept. 7.

Bryan B. Carter (Ch.E.) exchanged vows with Aileen V. Kiel on July 4, 2002.

David Good (M.E.) was promoted to status of "father" as he and wife, Bonnye, welcomed son Alexander Charles Lann on Sept. 16. Also, David was

promoted to engineering manager at AISIN USA in Seymour, Ind.

Tim Ground (M.E.) and his wife, Sarah, announce the birth of their first child, daughter Olivia Rose, born Jan. 11. The family resides in Depauw, Ind. Tim continues to be employed as a quality engineer at Kimball Electronics Group in Jasper, Ind.

James B. "Chip" Montgomery (M.E.) reports the birth of daughter, Rachel Leigh, born last May.

Jerome Willliams (M.E.) and his wife, Tawana, had their second child, Justin Anthony, born July 21. Jerome has been promoted to acting plant manager for the CertainTeed Corp., in Ennis, Texas.

Darren Long (M.E.) and his wife, Corrie, welcomed their first child, Abigail Elizabeth, on Aug. 27.

Carl Tracy (Phy./Math.) wed Barb Stark on Sept. 7.

Bill Williams (E.E.) married Darla Adams on June 8.

1998

David Harms (E.E.) married Sherry Lynn Verhart last September. Last May, David earned a master's in electrical engineering from Johns Hopkins University in Baltimore. He currently is an IC design engineer for Northrop Grumman - Electronics Systems.

Michael J. Holm (C.E.) recently joined LAW Engineering and Environmental Services as a project engineer in the firm's Jacksonville, Fla., office.

MAJOR ABBREVIATION KEY

A.O. — Applied Optics
Bio. Eng. — Biomedical Engineering
C.E. — Civil Engineering
Ch.E. — Chemical Engineering
Chem. — Chemistry
C.O. — Computer Engineering
C.S. — Computer Science
Econ. — Economics
E.E. — Electrical Engineering
Math. — Mathematics
M.E. — Mechanical Engineering
M.S. — Master of Science
Phy. — Physics

1997

Jacob Borden (Ch.E.) married Jessica L. Matula, Aug. 31. They have moved to Chicago, Ill.,

Ryo Fuchinoue (M.E.) married Tomoko Terao on Nov. 24 in Hawaii.

Robby Kissling (M.E.) and his wife, Melissa, welcomed Jacob Riley on Nov. 24.

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

SPRING 2003

2000

David E. Kempf (Ch.E.) and Janet E. Hinshaw were married Oct. 12.

Ken Paschen (M.E.) and Elizabeth Main exchanged wedding vows last August.

Daniel Peairs (M.E.) has graduated with a master's in mechanical engineering from Virginia Tech. He will be pursuing a Ph.D. in the NASA Graduate Student Researchers Program.

Alan R. Study (E.E.) and **Ericka Stidham (Ch.E., '02)** were married July 13.

Nicholas G. Terwiske

(M.E.) wed Chanda M. Bieker on August 10.

2001

Brian J. Blessinger (M.E.) married Ashley A. Uebelhor on July 6.

Tonya Cole (Ch.E.) married Phillip Combs on July 20.

Todd Cosby (C.E.) recently completed his master's degree in civil engineering at Georgia Tech. He resides in Atlanta, Ga.

Michael Green (M.E.) and **Kristin Roth (Math.)** were married Aug. 3.

Matthew Kahle (C.E.) graduated from Georgia

Tech last December with a master of science in civil engineering.

Paul E. Maurer (E.E./M.E.) married Shaelin O'Neil on July 13. He is employed as an electrical engineer with ITT Industries in Fort Wayne, Ind.

Curtis Todd Newell (Ch.E.) and **Katherine "Katie" Weiss (Ch.E. '02)** were married Oct. 19.

Michael Nietch (M.E.) has accepted an engineering position at Roche Colorado Corp. in Boulder, Colo.

Nicholee Page (M.E.) has

graduated with her master's degree in aerospace engineering from the University of Colorado. She works for the Astronautics Division of Lockheed Martin in Denver, Colo.

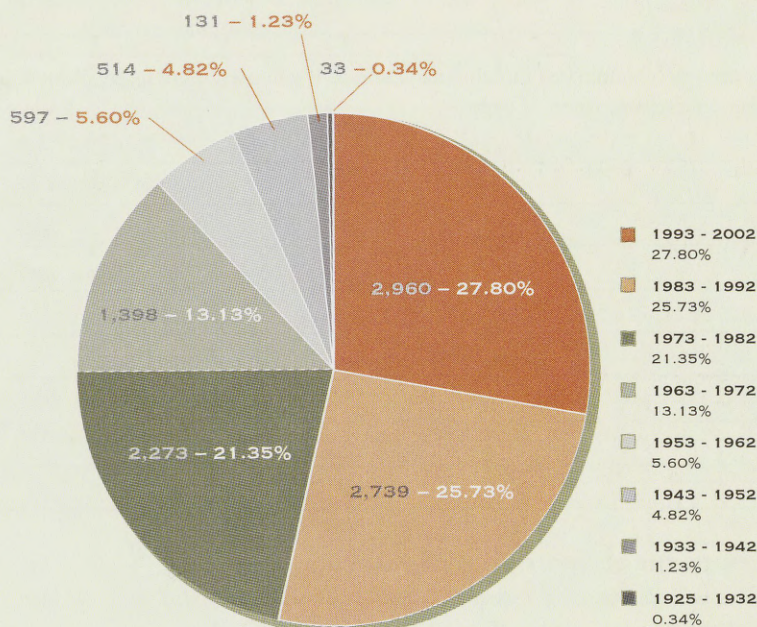
2002

Sean McCue (C.S.) and **Jennifer Meyer (Ch.E.)** were married on July 6 in Cincinnati, Ohio. They now live in Charlottesville, Va.

Travis Moore (M.E.) and **Rebecca Myers (Ch.E.)** were married on June 1.

Kyle Werner (E.M.) married Audrey Betz on June 22.

LIVING ALUMNI BY DECADE



WHO YOU GONNA CALL?

The Office of Alumni Affairs and Special Events stands ready to serve. If we can be of help in any way, do not hesitate to contact us.

Brian Dyer, Director of Alumni Affairs and Special Events
812-877-8359
brian.dyer@rose-hulman.edu

Bunny Nash, Assistant Director of Alumni Affairs and Special Events
812-877-8465
bunny.nash@rose-hulman.edu

Trudy Sladek, Secretary, Alumni Affairs and Special Events
812-877-8976
trudy.sladek@rose-hulman.edu

OFFICE FAX: 812-877-8362

WEB ADDRESS: <http://www.rose-hulman.edu/alumni-affairs/index.htm>

Rose-Hulman Institute of Technology
5500 Wabash Avenue
Terre Haute, Indiana 47803

OBITUARIES

1925

Theron A. Yager (M.E.) died in August. After graduating from Rose Poly and serving an internship with General Electric, he moved to Rutland, Vt., where he had three careers. He first designed scales as chief engineer at the Howe Scale Co. Then he became a mining engineer and businessman as owner of the Vermont Talc Co., and finally he had a third career as a stock market investor. He drove his car until he was 96. Survivors include daughters Nancy Yager Scheideman and Linda Yager Abbott.

1939

Richard Powell (C.E.) died Sept. 20. He lived in Lutherville, Md., at the time of his death, and he had been president of RDST Limited.

1941

George C. Harper, Jr. (C.E.) died in Santa Rosa, Calif., last June. Survivors include his wife, Helen, and children George C. Harper III, Rebecca Cunningham, and Marilyn Harper. He was retired from Pittsburgh Des Moines Steel Co. in 1985.

1943

Michael Percopo (Ch.E.) died Jan. 25 at the age of 81. He was a member of the Rose-Hulman Board of Trustees. (See detailed obituary on 3.)

1947

Robert Weinhardt (E.E.) died last July, according to word received in the Alumni Office.

1948

Glen Follis (M.E.) died Dec. 28 at the age of 76 in Circleville, Ohio. He was a mechanical engineer for Thomson Consumer Electronics for more than 25 years. Survivors include his wife, Mary, daughters Helen and Mary, and son Chip.

1949

Eugene B. Boward (M.E.) died Sept. 29 at the age of 81. Survivors include his wife, Sue, son Gary, brother Gerald, and two grandchildren. A World War II veteran, he was retired from a civil service career with the Department of the Army. He pursued his interests in designing and hand building bamboo fly fishing rods, and he tutored college students in English and mathematics.

1952

Norman Hessler (Ch.E.) died Aug. 5. Survivors include his wife, Lieselotte. He had been a process engineer for UOP, and resided in Mt. Prospect, Ill., at the time of his death.

1954

Rex D. Leonard (M.E.), 70, died Sept. 19. He was founder and president of International Cryogenics. Survivors include children Steven A. Leonard and Donna K. Jung.

1957

Robert Wertz (E.E.) died Aug. 8. He was retired president and owner of R.B. Wertz & Associates.

1960

Richard L. Tucker (C.E.) died Aug. 17 at his residence in Boise, Idaho, at the age of 68. He was an engineer with Morrison Knudsen, where he served for more than 20 years, including as vice president of International Operations for Heavy Civil Construction Division. Survivors include his wife, Linda Orapun Tucker.

1962

Michael Gilpatrick (Phy.) died Sept. 13, according to word received in the alumni office. Survivors include his wife, Jill. He was senior scientist with Milliken & Co., and he resided in Chesnee, S.C.

1971

Carl G. Sizemore (M.E.) died Sept. 16, at the age of 53. Survivors include his children Diana M. and David C. Sizemore. A resident of Cincinnati, Ohio, he was a stress engineer for National Water Lift Co.

1982

Stuart J. Marcadis (Ch.E.) died last year, according to a report received in the Alumni Office.

1995

Kevin Thomas Stiner (Phy.) died Oct. 15 at the

age of 29. A resident of Indianapolis, he was a law student at Indiana University. Survivors include his parents, Wayne P. and Linda K. Harless Stiner, and brother Jeffrey W. Stiner.

1996

Ryan J. Eichstadt (Ch.E.) died Jan. 26 at the age of 28. Survivors include his wife, Elva and parents John E. and Sandra Eichstadt. He was an environmental engineer residing in Hatfield, Pa.

TRUSTEES

Vladimir Haensel died Dec. 15 at the age of 88. He was a professor emeritus of chemical engineering at the Amherst campus of the University of Massachusetts. He held nearly 150 U.S. patents and more than 400 foreign patents. He was a former member of the Board of Managers (now called Board of Trustees), initially elected to that position in 1974.

Looking Back

JAMES WICKERSHAM AND THE BIRTH OF THE HUMANITIES AT ROSE

by John Robson, Librarian and Archivist

Rose-Hulman strives to prepare its alumni to play a broad role in society, and the humanities and social sciences curriculum provides an essential foundation for such preparation. The roots of that philosophy run back to the college's founding.

The Articles of Association, our founding charter, laid the groundwork for the humanities, if in vague terms. (Recall that the school would not actually begin for nearly nine years after its founding.) Object Two states:

"Prominence Shall be given to the following studies, but not to the exclusion of other useful arts and sciences in harmony with the general design of said institution... which may be deemed expedient or desirable... English Language and Literature with reference to writing business correspondence, contracts, and reports. Book-Keeping and so much of the Latin Language as will enable the Student to understand terms of Science used." *Object 2, Articles of Association of the Terre Haute School of Industrial Science September 10, 1874*

Fortunately the Latin was ditched or the school might have died at birth.

During the summer of 1883 the components of the humanities curricula started to take shape, and the name forever linked to the humanities is Professor James A. Wickersham, the fourth faculty appointment. For the next 36 years, Wickersham defined the evolving role of the humanities in the lives of the students.

The "birth notice" was modest. The minutes of the Board for 21 June 1883 note that "Prof. James A. Wickersham of Chicago, Illinois, was unanimously elected Professor of Languages... His term of services to begin September 1st, 1883, and his salary to be \$800 for the first year." It would be his job to implement and revise as necessary the plan of study. Note: The salary of the math teacher was \$1200 – market factors affected wages even then.

Wickersham was evidently well prepared for the task. He was born in 1851 in Wilmington, Ohio. Reared in Harper, Iowa, he graduated from the University of Kansas in 1876 with a specialty in Greek. He immediately went to work teaching for the university, earned a master's degree, and was elected to the chair in Greek. He took his new master's degree and went for three years to study at Leipzig, Berlin, and Tübingen.



It was while serving as principal of the schools of Franklin Falls, N.H., that Wickersham evidently made the acquaintance of Dr. Thompson. That relationship would lead to a life's work among the students of Rose Poly and the community of Terre Haute.

Then, as now, the professorial expectations were high and many students dreaded language study and English, while others looked at it as a reprieve from the engineering, science and math tedium. As found in the college catalogue for 1884, "Great importance is attached to the study of language for its intrinsic worth and the auxiliary advantages it gives in the pursuit of other branches." The student body stood at 45.

Wickersham constructed his language classes so that each student was expected to give an oral response, and a mark was entered

in his records. Each Saturday, he and the other professors gathered and reviewed the progress of each student, one by one. A reading proficiency was expected of all, but those aspiring to a grade higher than C knew that a conversational ability was required. Although an ability to navigate German and French technical literature was the principal aim, Wickersham felt that a study of German was essential for the engineer and scientist. A great portion of the significant scholarship of engineering was found in German journals. His teaching load seems to have been significant. From the catalog of 1903 it would appear that for the spring semester he would teach 11 credits consisting of the following:

German I for freshmen (required, 3 credits)

English composition for freshmen
(for those with deficiencies, 1 credit)

German II for sophomores (required, 3 credits)

French I for juniors (required, 3 credits)

English composition for juniors (required, 1 credit)

Wickersham and his wit became something of a legend during his 37 years, based on the stream of passing references in *The Rose Technic*, the monthly magazine of the school. Students knew to come prepared to his classes and tried to avoid becoming the focus of his attention. He was the one professor that all students took multiple times. He faithfully attended every athletic event and concert, showing his support for students in and out of the classroom. He retired in June of 1920, and died in 1947 at the age of 96. ■

ALUMNI EVENTS

Contact Brian Dyer or Bunny Nash for more information on all the events listed below.

Phone: 800-248-7448

Email: brian.dyer@rose-hulman.edu or bunny.nash@rose-hulman.edu

Web: <http://www.rose-hulman.edu/alumni-affairs>

The Alumni Office has been busy this spring working with Club Coordinators around the country to plan meetings and events for alumni and their families. We have about 30 active clubs around the country, and we are working to keep alumni informed about current students and news at Rose-Hulman. If you would like to plan a function in your area of the country contact Brian Dyer in the Alumni Office.

Here is a quick recap of where we have had alumni meetings and functions this spring.

February 2nd Atlanta, Ga. --

Thirty alumni and their families attended a reception at Jock's and Jill's sports bar before the men's and women's basketball game against Oglethorpe. Matt Warstler ('93) coordinated.

February 21st Indianapolis, Ind. --

Forty mechanical engineering alumni attended a luncheon at the Rathskeller restaurant, and received an update from faculty in the Mechanical Engineering department. Current faculty attending included: Department Head Dave Purdy, Darrell Gibson and Rick Stamper as well as retired faculty Mallory North, and Lee Shirely.

March 8th Columbus, Ohio --

Twenty-Five alumni and guests attended a luncheon at the Buca di Beppo Italian restaurant in downtown Columbus. Grant Carpenter ('99) organized the event. Brian Dyer from the Alumni Office updated them on the latest news from Rose-Hulman.

March 8th Fort Myers, Fla. --

Fifteen alumni and their guests attended a lun-

cheon organized by Phil Boller ('57) at the Fort Meyers Country Club. Mark Richter, vice president for development and external affairs spoke with the group.

March 8th Tempe, Ariz. --

Thirty alumni and their guests attend the annual luncheon at Monti's Restaurant organized by Ron Ireland ('61). Bunny Nash, Assistant Director of Alumni Affairs and Special Events spoke to the group.

March 15th Southern Indiana --

Thirty alumni and their guests attended the annual meeting at the Haub's House in Haubstadt, Ind., hosted by Keith Spindler ('76). David Haynes, director of planned giving, attended, along with students from Engeuius Solutions.

March 15th Philadelphia, Penn. --

Fifteen alumni and their guests attended the annual luncheon at the Radnor Hotel. Bill Foraker, assistant director of development, updated the group about the Vision to be the Best campaign. Baron Gemmer ('85) organized the event again this year.

March 22nd Detroit, Mich. --

Thirty-Five alumni and their guests attended a dinner at the Automotive Hall of Fame in Dearborn, MI. Art Western, vice president for academic affairs and Dean of the Faculty spoke to the group. Craig Winn '73 and member of the Board of Trustees organized the program.

UPCOMING EVENTS INCLUDE

April 5th, Greenville, S.C. --

Luncheon, 12:30 p.m., Greenville Zoo, 150 Cleveland Park Drive Greenville, SC 29601, Phone: 864-467-4300.

After lunch alumni will visit the zoo at a reduced admission fee of \$3.00 adult, \$1.50 children.

Alumni Contacts:

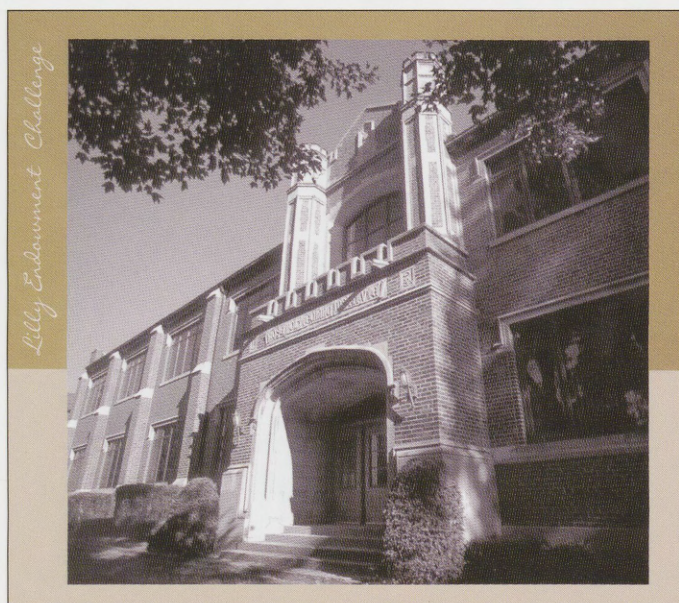
Brian Miller ('92), Bryan Hall ('91).

April 12th, Raleigh, N.C.--

Jillian's in downtown Raleigh, Time: 1:00 p.m. - 5:00 p.m.

Cost is \$17.50 per person. (Includes soda, ice tea and coffee.)

ONE GIFT, TWICE THE IMPACT



Rose-Hulman has a chance to double the impact of your contribution thanks to a special challenge from the Lilly Endowment. This initiative is designed to strengthen support to the college by matching gifts from all alumni, parents, faculty, staff and friends of Rose-Hulman now through December 31, 2003. During this time, your gifts to Rose-Hulman will be matched dollar for dollar by the Lilly Endowment.

To make a gift or for more information about this special program, contact the Development Office at **1-800-248-7448, ext. 8159**



PARTING SHOT

Cinergy provided this aerial view of the Rose-Hulman campus. Taken last October, it shows Moench Hall in the middle next to the white water tower. Recent constructions of note include Hatfield Hall in the lower left portion of the photo, White Chapel at the top of the large lake and the Sports and Recreation Center in the upper right corner.

Echoes

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