

ROSE-HULMAN INSTITUTE OF TECHNOLOGY

Echoes

Winter²⁰⁰⁵

Vol. 2005-2006, No. 1

A Decade of Coeducation

*Looking Back at a Pioneering
Group of Undergraduates*



HONORING OUR ALUMNI

Seven Receive Top Alumni Awards

REACHING OUT

Alumni, Students Assist Hurricane Relief



heard in the halls of Moench

“The job climate this year for our graduates is excellent. We have seen a huge increase in the number of companies contacting us earlier...

The recruiting season here at Rose-Hulman started the second week of September and has been full throttle ever since.”

— Kevin Hewerdine, director of career services and employer relations

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ON THE COVER

When the first full class of women graduated in 1999, they gathered in Hulbert Arena for this photo. These pioneering women posed in “#1” fashion indicating their status as the first group of undergraduate women to obtain their Rose-Hulman degrees after a complete four years on campus.

ROSE-HULMAN RANKED AS #1 UNDERGRADUATE PROGRAM FOR SEVENTH CONSECUTIVE YEAR

Rose-Hulman is No. 1 again.

For the seventh consecutive year, Rose-Hulman Institute of Technology has been ranked first by engineering educators as the nation's best college or university that offers the bachelor's or master's degree as its highest degree in engineering, according to new rankings included in the 2006 edition of "America's Best Colleges" guidebook published by U.S. News & World Report.

The rankings are based on the results of a peer survey of deans and senior faculty conducted by the magazine. Fifty percent of those surveyed returned ratings for the undergraduate engineering programs category.

Each engineering program at Rose-Hulman that is evaluated in the survey has now been ranked as the nation's best each year that the magazine's survey has included a ranking of individual programs. Retaining their top ranking for the sixth straight year were degree programs in chemical,



civil, computer, electrical, and mechanical engineering.

Following Rose-Hulman on the list of top undergraduate engineering programs were Harvey Mudd College, Cooper Union, the United States Military Academy, the United States Naval Academy, the United States Air Force Academy, Cal Poly-San Luis Obispo, Bucknell University and Swarthmore College.

"To be considered repeatedly by our engineering education colleagues as the best college or university in this category is a result of the hard work and talents of our faculty, staff, students and alumni," stated Robert Bright, chairman of the Rose-Hulman Board of Trustees and chief executive officer.

Bright noted that students and their families should not make a college choice based only on the magazine's rankings. "While Rose-Hulman takes pride in its No. 1 ranking, students should consider many factors when deciding which college or university to attend," he said.

"As an example, students should schedule a well-organized campus visit to ensure that they are making the right decision as to which institution best meets their needs," he explained. ■

OAKLEY FOUNDATION GRANT ALLOWS ROSE-HULMAN TO BUILD, EQUIP AND OPERATE NEW OBSERVATORY IN AUSTRALIA

New astronomical horizons will open for Rose-Hulman students and faculty later this year when they will be able to utilize the Internet to operate a telescope based at a new observatory in Australia.

A \$141,634 grant from the Oakley Foundation of Terre Haute will help Rose-Hulman build, equip and operate an observatory in the Blue Mountains region near New South Wales, Australia. The observatory telescope will have a 20-inch aperture equipped with a CCD camera for recording images. These images will be downloaded for study on campus.

This new observatory will keep Rose-Hulman at the forefront of astronomical technology and discovery, according to Rick Ditteon (Physics, '75), professor of physics and optical engineering.

The telescope will be used by students taking an introductory astronomy course,

members of the astronomical society chapter, and students conducting research in astronomy. Current research includes making observations of main belt asteroids, searching for supernovae, and variable star photometry.

"Rose-Hulman students have a tremendous interest in astronomy and a real love affair with technology. The Australian observatory satisfies both," states Ditteon, who is also director of the Oakley Observatory, an elevated structure located on the eastern edge of campus. The Oakley Foundation provided \$500,000 in 1999 to construct and equip the observatory.

However, the campus observatory has its limitations, especially during the winter and spring quarters when overcast skies hamper the telescope's range of sight. Rose-Hulman has been forced to pay to use a telescope at the Tenagra Observatory in Arizona to conduct research.

Rose-Hulman's Australian observatory will eliminate the need to rent observation time, provide for year-round astronomy study and research, and enable the college to offer workshops and summer research experiences in astronomy.

"The Australian site will have clear skies much of the year, and because Australia is in the southern hemisphere, our students will be able to see parts of the sky that can never be seen from Terre Haute," Ditteon said.

Rose-Hulman students will be fully involved in the operation of the Australian observatory, under the supervision of Ditteon and Elaine Kirkpatrick, assistant professor of physics and optical engineering. The project could take approximately 12 months to order and procure all equipment, construct the observatory, and calibrate the telescope, camera and Internet connections to the Oakley Observatory. ■

ENGINEERING MANAGEMENT IS NEWEST ACADEMIC DEPARTMENT

In the early 1990s, Rose-Hulman Institute of Technology Professor Tom Mason kept hearing from former students about the need for a graduate program that would enable them to improve their management skills and update their technical expertise. Rose-Hulman responded to their requests in 1995 by creating a new graduate program in engineering management.

As a result of the program's positive impact on graduate as well as undergraduate education at Rose-Hulman, a new Department of Engineering Management was created in July.

"The importance of the program is illustrated by our success in meeting the needs of engineers in management positions, and our ability to make undergraduates aware of the changing responsibilities of engineers," explained Tom Mason, engineering management department head and professor of economics.

Since it was launched, 127 graduates have earned an MS degree through the program. At its peak enrollment, 88 students were taking classes either as full-time or part-time students.

The program is the only one of its kind in Indiana. In the United States, at least 269 engineering management degree programs are being offered. The number is a 69 percent increase during the past nine years.

In addition to on-campus courses, engineering management classes are offered in Bloomington, Indianapolis and at the Naval Surface Warfare Center at Crane.

Mason describes each course as a career builder that emphasizes current trends and practical applications needed to be a successful technical manager.

"The program allowed me to expand my technical education beyond my mechanical engineering background into other engineering disciplines, thus better preparing me to manage larger, wider-scope projects," stated Jason Zielke, a 2002 engineering management graduate, who earned his B.S. in mechanical engineering in 2000 from Rose-Hulman.

He said the program helped him better understand the operations of a business from several different aspects.

"What I learned enabled me to make decisions in a way that I now evaluate the potential outcomes not just from an engineering standpoint, but also through the eyes of the marketing team, the finance department and other areas within the organization," said Zielke, who is an Innovation Fellow at Rose-Hulman Ventures.

Undergraduate students are eligible to enroll in several engineering management courses ranging from the technical entrepreneur, project management, system engineering, accounting and marketing for technical managers, and technical management and forecasting.

Mason noted that another strength of the program is the career expertise of engineering management faculty.

"Our faculty have had on-the-job experiences ranging from positions in global operations management to chief operating officer of a manufacturing company and expertise in project management and computer simulations."

Persons interested in the program must have a bachelor's degree in a technical discipline to be admitted.

For further information, access the engineering management Web site at www.rose-hulman.edu/msem.

KLINE NAMED NEW ASSOCIATE DEAN TO OVERSEE ROSE-HULMAN VENTURES

William Kline has been named the new associate dean for professional experiences in the office of academic affairs. The position encompasses responsibilities for oversight of Rose-Hulman Ventures, including project management, collaborative and business incubation that will enhance professional experiences for Rose-Hulman students.

Rose-Hulman Ventures focuses on projects that include developing prototypes, refining the design of existing products, expanding existing engineering capabilities and exploring ideas for creating technical partnerships that capture educational opportunities for students and faculty. This combination creates career opportunities for new graduates and the development of innovative technologies and

technology companies. Kline will also continue teaching as a faculty member in the Department of Engineering Management.

Kline began his career at Rose-Hulman in 2001 as an associate professor of engineering management after an extensive career with both small and large technology companies. He received his Ph.D. in mechanical engineering from the University of Illinois. In addition to his teaching experience at the University of Illinois in mechanical and industrial engineering, he served for many years as chief operating officer of a global company specializing in the development and application of machine tool monitoring systems which he co-founded.

Kline has several technical publications

in refereed journals, technical conferences, trade journals or textbooks relating to machining process modeling or machine tool sensing, monitoring and diagnostics. Through these experiences, Kline brings to Rose-Hulman Ventures a broad background in technology and entrepreneurship, with an academic perspective to developing the content of the learning experience at Rose-Hulman Ventures.



William Kline

FRESHMEN AGAIN BOAST STRONG ACADEMIC CREDENTIALS

Rose-Hulman's growing national reputation was once again evident in the greater number of cars with non-Indiana license plates that brought this year's incoming freshmen to campus.

For the seventh time in the past eight years, more than 50 percent of the freshmen came from outside Indiana. In fact, 36 states and nine foreign countries are represented in the new class. **The profile of the 447 freshmen who arrived in late August reveals:**

- 3,292 applications were received for admission.
- The median SAT scores were 680 math and 630 verbal.
- 24 students scored a perfect 800 score on the math portion of the SAT or a perfect 36 on the math ACT.
- 73 students (20%) ranked in the top three positions of their high school graduating classes.
- 86% of the class ranked in the top fifth of their graduating classes.
- 84 women are in the class.
- 17 freshmen have fathers or grandfathers who attended or graduated from Rose-Hulman.
- 226 were members of honor societies.
- 144 play a musical instrument; 31 participated in vocal music; 43 performed in drama groups.

- 254 participated in varsity athletics.
- 361 had after-school or summer jobs; 104 were community service volunteers.

"This was another strong freshman class, filled with well-rounded students who have top-quality academic credentials," stated Jim Goecker, dean of admissions and financial aid.



Move-in day for the 2005-06 academic year.

CLICK YOUR WAY TO ROSE-HULMAN'S PAST

ROSE-HULMAN ARCHIVAL MATERIALS NOW AVAILABLE ONLINE

Videos of campus scenes from the early 1930s, copies of old yearbooks and images of physical objects are among Rose-Hulman archival materials that are now available to the public online through the new Rose-Hulman Digital Archives Project (RHDAP).

The Web site is located at www.rose-hulman.edu/Archives.

RHDAP strives to provide free research material to the public pertaining to the history of Rose-Hulman through a variety of formats including images, text, video and sound.

The site includes:

- * Pages from old Modulus yearbooks, dating as far back as 1943 for now but eventually goes back to 1892;
- * All of Juliet Peddle's architectural drawings, including Chauncey Rose's home and the first Vigo County courthouse (first published in the Terre Haute *Tribune-Star* in the early 1940s);
- * Videos of campus scenes, featuring students eating in the Templeton Building cafeteria, a 1938 football game and the student union from the 1950s;
- * Oral interviews with Rose-Hulman faculty and staff members;
- * Early registrar records;
- * Images of physical objects, such as the first Heminway gold medal.



The primary audience includes members of the Rose-Hulman community (faculty, staff, students, and alumni) and others researching the history of Rose-Hulman and the events, people and organization of the college.

The project was organized by Rich Bernier, reference and electronic services librarian in Rose-Hulman's Logan Library, after being started in 2001 by Librarian John Robson.

ROSE-HULMAN 2015 GROUPS FOCUS ON QUESTIONS ABOUT THE FUTURE

Three key questions that will be important to the strategic planning for the college's future are being studied by three groups as the "Rose-Hulman 2015: A Conversation About Our Future" project continues to move forward.

Each group is considering one of the following questions:

- **What are we deeply passionate about?**
- **What can we be the best at in the world?**
- **What drives our economic engine?**

These three questions grew out of discussions the Institute Planning Group conducted last summer as it continued to study the summary of more than 1,900 responses to the Rose-Hulman 2015 project that have been received from various constituents. The Institute Planning Group consists of academic department heads, the President's Cabinet members and other faculty and staff.

The three new discussion groups began meeting in late October and will have draft reports completed by mid-February, stated Robert Bright, chairman of the Rose-Hulman Board of Trustees and chief executive officer of the

Institute. The draft reports will be presented to the Board of Trustees at its regular winter meeting in late February.

The three groups consist of less than 10 members each and include alumni, faculty, staff and student representatives. If you are interested in providing input to the any of the groups' discussions, contact the following persons via e-mail (first name.lastname@rose-hulman.edu):

- **What are we deeply passionate about?**
Contact: Prof. Phil Cornwell
- **What can we be the best at in the world?**
Contact: Prof. Robert Houghtalen
- **What drives our economic engine?**
Contact: Prof. Tom Mason

To submit your reply to the Rose-Hulman 2015 discussion and find out more about the activities related to the project, access the following Web location, www.rose-hulman.edu/conversation. ■

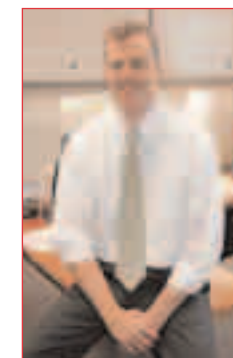


KEVIN JONES NAMED NEW DIRECTOR OF ANNUAL GIVING AT ROSE-HULMAN

Kevin Jones is the new director of annual giving in the Office of Development at Rose-Hulman Institute of Technology.

Jones will direct all aspects of the Rose-Hulman Annual Fund, including goal setting, volunteer management, marketing and solicitation. He will expand relationships with alumni and other friends of the college and coordinate the Rose-Hulman phonathon program.

Prior to joining the Rose-Hulman development staff, Jones was the advancement specialist for the American College of



Kevin Jones

Sports Medicine in Indianapolis. The organization is the largest sports medicine and exercise science organization in the world. He was responsible for the expansion of individual giving programs, including annual giving, major gifts and planned giving.

Jones has also served as a development consultant on a national scale for Dickerson and Associates of Littleton, Colo. His responsibilities included the development of capital campaigns, feasibility studies and strategic development plans. His professional experience includes serving as a program director for Community Counselling Service (CCS) in Chicago where he helped coordinate major capital campaigns.

Jones earned a bachelor of science degree in political science from Ball State University in Muncie, Ind.

MATCH IT UP LILLY ENDOWMENT SETS UP MATCHING PROGRAM THAT COULD MEAN \$4.5 MILLION TO ROSE-HULMAN



Previous success by Rose-Hulman Institute of Technology to achieve initiatives set forth by the Lilly Endowment Inc. has made the Institute eligible for a \$4.5 million grant to match funds it raises from June 1, 2005 to December 31, 2006. Rose-Hulman is eligible to receive an Endowment match of \$1.50 for each \$1 raised, meaning gifts to the Annual Fund will have more than double the impact.

The grant is part of the second phase of the Endowment's successful Initiative to Strengthen Philanthropy for Indiana Higher Education institutions.

To make a gift to support this initiative, contact the Rose-Hulman Office of Development at **800-248-7448** or give online at <http://www.rose-hulman.edu/give>.

PRESIDENTIAL SEARCH COMMITTEE EVALUATES APPLICANTS

The national search process to identify individuals to be candidates for the presidency of Rose-Hulman Institute of Technology has resulted in 142 persons being nominated or submitting an application.

The 19-member committee and search consultant Bill Funk of Korn/Ferry International have contacted hundreds of possible candidates, education officials and academic organizations to identify persons who would be the best candidates to serve as the new president.

The committee has conducted three meetings since November to discuss progress to identify nominees and to begin evaluation of 44 active candidates, according to Bill Fenoglio, chairman of the Search Committee and a trustee.

"The Presidential Search Committee has reduced the list of

active candidates to seven. Those candidates will be interviewed by the committee in late January," Fenoglio said.

Following those interviews, the field of candidates will be reduced to the finalists who will visit Rose-Hulman and meet with the campus community, trustees, alumni and representatives of the Terre Haute community. The finalists will also be interviewed during the winter meeting of the trustees in late February.

"It is vital that every segment of the Rose-Hulman community be given an opportunity to evaluate the final candidates and provide their input to the board before a decision is reached," Fenoglio stated.

The process to select a new Rose-Hulman president will hopefully be completed in March, he said. ■

PRESIDENTIAL POSITION DESCRIPTION

The following is a description of the position advertised to recruit a new president for Rose-Hulman Institute of Technology

Rose-Hulman Institute of Technology announces a nationwide search to recruit a new President. Reporting directly to the Board of Trustees, the President is the chief executive officer of the Institute, responsible for the effective leadership and management of the institution.

Rose-Hulman has been ranked No. 1 for the seventh consecutive year by engineering educators as the nation's best college or university that offers the bachelor's or master's degree as its highest degree in engineering. The ranking is contained in "America's Best Colleges" guidebook published by *U.S. News & World Report*. Founded in 1874 as Rose Polytechnic Institute and renamed Rose-Hulman Institute of Technology in 1971, the college is located on a beautiful 200-acre campus east of Terre Haute, Indiana. Rose-Hulman is a four-year, private, non-sectarian college of engineering, mathematics and science. Rose-Hulman enrolls 1,769 undergraduate and 112 masters students,

employs 161 FTE faculty members, and has an annual operating budget of \$77 million.

The Board is seeking candidates who appreciate, understand and are committed to the role and mission of an undergraduate college of engineering, science and mathematics, and they must have the capability to lead such an institution through the challenges facing engineering education in the 21st Century. This position requires impeccable integrity, exemplary interpersonal and communication skills, a high energy level, and a deep and abiding passion for educating students. Rose-Hulman is characterized by a strong sense of campus community, and the President will set the example for the Institute in ethics, morals, integrity and community involvement.



Percopo Hall stands along the edge of Rose-Hulman's large lake.

The new President will be charged with refining and implementing "Rose-Hulman 2015: A Conversation About Our Future," an aggressive plan to take the Institute into the future with the level of success the college and its students have grown to expect. Candidates must also demonstrate extensive experience in cultivating donors that has resulted in large gifts which were vital to the success of major fundraising programs.

CORRECTION

In our previous issue, we incorrectly called long-time physics professor C. Leroy Mason "Charles" in an article about a new physics laboratory on campus. The "C." in his name actually stood for Christopher. We extend our apologies to the Mason family and our thanks to eagle-eye reader and alumnus John Scott, class of 1956.

Bailey Challenge

By Professor Emeritus Herb Bailey

For the past 37 years, Rose has sponsored a mathematics contest for high school students. My goals in setting the problems are that all will solve some of them and none will solve all of them. For the past two years I have not met my second goal; some of the contestants are better solvers than I am. Your problem and bonus, but not the mature warm-up, are two of the challenging problems from the 2005 high school contest.

Warm-up (for mature solvers)

Mom is 21 years older than her son. Six years from now, she will be 5 times older than her son. Where are mom and dad now?

Problem

A list of consecutive integers, starting with 1, is written on the blackboard. One of the numbers is erased. If the average of the remaining numbers is $35\frac{7}{8}$, then what number was erased?

Bonus

A group of N people agree to play a game N times. The loser (no ties) of each game must give to each of the non-losers the amount of money that each non-loser currently has. That is, the non-losers will double their holdings. Initially the players each have a different number of dollars (possibly fractions of dollars), and at the end of N games they each wind up with \$64. Sally lost only the third and fourth games and Joe lost only the sixth game. If Sally had to pay Joe \$73 at the end of game 4, then how many dollars did she start with?



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

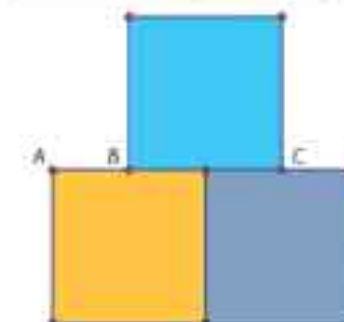
PLEASE include your class year if you are an alum. THANKS

Solvers of the Summer problems are listed. You came up with a nice variety of non-calculus solutions to the last problem. They varied from the super practical: measure the distances in the *yellow* figure, to the super pure: something about an affine transformation. No one noted that the maximum of a parabola is at its vertex. In 1943 at Rose Poly, we had a full semester course in analytic geometry. M. Mergy, R. Gold and M. Bailey submitted a joint solution to the problems and perhaps should get only 1/3 credit each. On the other hand team projects are the current fad, so perhaps they should be given extra credit.

Alumni: H. Payne, 1947; J. Hart, 1948; A. Junker, 1950; B. Rinker, 1951; D. Camp, 1955; C. Cooper, 1956; A. Sutton, 1956; J. Briggs, 1957; H. Brown, 1957; D. Bailey, 1958; C. Sechrest, 1960; J. Tindall, 1961; J. Snyder, 1962; D. Todd, 1962; N. Hannum, 1962; G. Carroll, 1965; C. Divine, 1967; D. Baker, 1968; J. Born, 1970; W. Peltz, 1971; K. O'Sullivan, 1972; P. Chilson, 1974; J. Schroeder, 1976; D. Allen, 1977; A. Bailey, 1977; B. Atherton, 1979; J. Koedling, 1980; S. Nolan, 1981; S. Hall, 1983; G. Fondlaw, 1983; M. Lancaster, 1987; A. Murray, 1989; G. Heinann, 1990; P. Kimmeler, 1991; B. Burger, 1991; D. Hector, 1992; D. Rertig, 1994; E. Thomas, 1994; M. Pilcher, 1998; J. Sumers, 1998; B. Creel, 2000; A. Pranozich, 2000; B. Richardson, 2002; B. Elliot, 2002; Sc. Tourville, 2003; Lilly Purification Group, 1976, 2003, 2004

Friends: C. Dugas, W. Atkinson, T. Kelley, A. Cataia, Sk. Tourville, S. Compton, M. Rosene, L. Gaitter, J. Ley, D. Voltmer, D. Templeton, D. Anderson, A. Karwowski, N. Flatter, K. Duffy

Most of you solved the summer bonus correctly. You were given that $AB = CD = 1$. The figure looks like the squares have sides of length x . By symmetry, we might assume that the circle center lies on the common side of the lower squares. These assumptions are both correct. The first is easily proved; the second is not so easy. Give them a try. Many untrue statements have been proven to be true by invoking "symmetry."



LOOKING AT THE "SOFT SIDE" OF ROSE-HULMAN

A TOUGH COLLEGE THAT THRIVES WITH PEOPLE WHO CARE



By Robert Bright, Chairman of the Rose-Hulman Institute of Technology Board of Trustees and Chief Executive Officer

I never thought I would be back at school on a daily basis at the age of 70, but this past half year serving as CEO of Rose-Hulman has affirmed for me what makes this college so special: the people who are the Rose-Hulman community. The campus culture thrives on a foundation of people who care.

When I think of my student days here in the 1950s, I remember tough, demanding classes, but I cherish the people who provided my education. Teachers such as Knipmeyer, Bloxsome, Knudsen and Collier instantly come to mind. Then, just as now, it was all about people caring for people. Twenty-five years from now, alumni will recall with the same fondness the names of my current colleagues on campus. Those names will represent what I like to call the "soft side" of Rose-Hulman that benefits our students as much as teaching them to solve differential equations.

I like to think this "soft side" sets Rose-Hulman apart from other undergraduate engineering and science colleges. Not only do our faculty and staff deliver one of the best and most demanding educations in the country, they do so with a compassion for the students and alumni they serve. And in the same way, the alumni and students give back to the college in so many ways.

A description of this "warm and fuzzy" nature of the Institute is found in comments I received from the mother of a freshman this fall. She said: "Now, after Parent Orientation, I am ten times more impressed with Rose-Hulman. Everything which I experienced during those few days was fantastic. Every word spoken about the education, the support, and the experiences which my son will receive was so very positive. Everyone... was friendly, outgoing, cheerful, supportive, welcoming and, most important, extremely positive about the community which is Rose-Hulman. The messages which were constantly repeated were that Rose-Hulman is a great school, that everything will be done to try to ensure my son's happiness and success, and that everyone will do anything that they can to help in any way."

What a telling quote. I have seen her description lived out daily on campus. Faculty offices are always open to students who need help. I know of one student who stopped by a faculty member's office with some questions about homework. The faculty member took two hours during a one-on-one session with the student to make sure the concepts involved in the assignment were understood. That is just one of countless examples of faculty and staff who go out of their ways to help our students grow.

Of course, students help out as well. First, student-driven systems are in place to provide support to other students. Sophomore advisers and resident assistants are in place throughout the residence halls to help students cope with life matters on campus. At many colleges, the resident assistant system provides nothing more than "beer police" who crack down on drinking in the residence halls. Here, our assistants are trained in techniques that are used to deal with a variety of issues that can enter a college student's life. We also have the Learning

Center, where students can receive academic help from peer tutors.

I realize much of our readership includes a high percentage of technical "show me the numbers" kind of people. You data wonks will be pleased to know this "soft side" is backed by "hard numbers." Each year, we survey our graduating seniors on 58 different topics. All of this exit data show strong satisfaction with Rose-Hulman. Several of the culture traits received their highest ratings ever: faculty attitude toward students, residence hall living, Learning Center tutoring, and attitude of staff toward students. Also, the registrar's office and the billing and fee payment procedures received their highest marks. Most of these areas received "excellent/good" rankings of 85 percent or higher.

As I focus on the caring side of Rose-Hulman, I do not want anyone to think the college has gone soft. No way. Our faculty and staff continue to deliver a tough, rigorous education. Students regularly share stories of pulling "all-nighters" or of working eight hours on a single problem. We set high academic and citizenship standards for our students, and we expect them to meet and/or exceed those standards. But what sets Rose-Hulman apart from many other engineering and science colleges is the caring community on which our tough academics are built. Our people pull together to do everything possible to ensure success for our students. This is the "soft side" that makes us successful in what could otherwise be a very hard place.

I wish all of you could share the experiences I have had being on campus every day. You would find it fun and exhilarating. You would find a cooperative collegiate community striving to be the best. ■

BRIDGING THE DIVIDE BETWEEN TECHNOLOGY AND THE HUMANITIES

REMARKS CELEBRATE THE 100TH ANNIVERSARY OF THE AGE OF MODERN PHYSICS

Editor's note: Rose-Hulman celebrated the birth of the age of modern physics, as signified by Albert Einstein's 1905 paper on special relativity, by unveiling a specially commissioned painting featuring four Nobel Prize winning physicists, announcing a poetry contest, and hosting a reception for the campus and Terre Haute community. The tribute was co-sponsored by the Department of Physics and Optical Engineering and the Department of Humanities and Social Sciences. Dean Art Western, a Ph.D.-certified physicist and friend of the humanities, delivered the keynote address for the recognition. We reprint his remarks here.

By Arthur Western
Dean of the Faculty and Vice President of Academic Affairs



Art Western

I am honored and pleased to be asked by Dr. Joenathan (PHOE department head) to "say a few words" at this celebration. "Honored" because I can pretend to myself that I was asked to speak because I am still thought of as a physicist. (I know that in the morning I will realize that the invitation is a ceremonial bow to my administrative title. But let me have my illusion for the evening.) And I am "pleased" because the occasion allows me a rare opportunity to contemplate more lofty issues than the counting of faculty offices and equipment budgets.

We are, of course, celebrating the 100th anniversary of the age of modern physics as signified by Einstein's 1905 paper. I don't want to detract from that, but it seems to me that we celebrate something else quite special when the celebrants include both humanities and social sciences department and the physics department. You see, 1905 by coincidence happens to be the year that Charles Percy Snow was born. CP Snow is best known for his lengthy essay of 1958 in which he described a schism between "Two Cultures" of physical science and literature.

Much has been written about CP Snow and the two cultures rhetoric. I certainly don't intend to review that dialog here. Although I can't resist noting that when I read the essay in college it was contemporary literature, and somehow we never got around to reading F. R. Leavis's scathing rebuttal in his Richmond Lecture at Downing College. Whatever may have been the state of scientific literacy of the English literary community in the late fifties, they sure knew how to excoriate their competitors. Compare the modern, "That sucks" to Leavis's claims that CP Snow's writing displayed an "embarrassing vulgarity of style," and "panoptic pseudo-cogencies," Leavis concluded that Snow was "intellectually as undistinguished as it is possible to be."^[1]



Artist Peter Bruning with his painting depicting Marie Curie, Albert Einstein, Niels Bohr and Max Planck

My point is not to rehash a 50-year-old debate, but rather to point out that a fundamental tension still exists between that which is possible and that which is desirable. The latest manifestations often single out biological applications such as in Bill McKibben's "Enough: Staying Human in an Engineered Age," but the central issues remain the same: How are we to reconcile two seeming disparate views of the world, the fact-based technological world made possible by modern science and engineering, and the ambiguous world populated by humans whose value systems may be shaped by ways of knowing quite different from those used when doing science.

"at Rose-Hulman this divide between humanities and technology is being bridged constantly ... to explore the complex boundaries between what is possible and what is desirable, between doing good science and living the good life."

What I find most delightful and reassuring is that here at Rose-Hulman this divide between humanities and technology is being bridged constantly as faculty, staff and students unite to explore the complex boundaries between what is possible and what is desirable, between doing good science and living the good life. Those boundaries are explored in classes

such as the history of the atomic bomb jointly taught by scientist professor Rob Bunch and historian Bill Pickett, and a course in the history of computing by computer scientist Cary Laxer and Professor Pickett which followed last year's symposium celebrating the 10th anniversary of the World Wide Web. A symposium in which the historical, cultural, and social of this technology was explained by its creators.

We are here today to celebrate another such coming together. This time to celebrate 100 years of modern physics; but in doing so, we recognize the importance of the arts and social sciences in clarifying the meaning of those years to humankind. I congratulate the physics department and the humanities and social science department for reminding us that, although there may be two cultures, there is but one humanity.

[1] As quoted by Roger Kimbell, "The two cultures' today," The New Criterion online, as visited September 2, 2005. <http://www.newcriterion.com/archive/12/feb94/cultures.html>

MAJOR SPORTS HAPPENINGS

SPORTS ARTICLES BY KEVIN LANKE, SPORTS INFORMATION DIRECTOR

SCHOOL RECORD 154 STUDENT-ATHLETES EARN ACADEMIC ALL-SCAC HONORS

For the sixth consecutive year, Rose-Hulman set a school record for academic all-conference student-athletes, according to figures released by the Southern Collegiate Athletic Conference.



Rose-Hulman student-athletes combined to earn 154 academic all-conference awards, eclipsing the previous school record of 148 set last year. Previous totals included 129, 111, 104 and 100 academic all-conference award winners, dating back to 2000.

Student-athletes must maintain a 3.25 grade point average during their academic quarter of competition to qualify for the academic all-conference squad.

TENNIS TEAMS EARN NATIONAL ACADEMIC RECOGNITION AGAIN

The Rose-Hulman Institute of Technology men's and women's tennis



Krista Gonnerman

teams earned All-Academic awards from the Inter-collegiate Tennis Association, while seven individuals earned scholar-athlete recognition.

The women's squad compiled a cumulative team grade-point average of 3.39 following the spring, while the men finished with a 3.28 grade-point average.

Rose-Hulman is one of only 14 NCAA Division III schools, including the

only program in Indiana, to earn All-Academic team honors in both genders. On the court, the men's team compiled a 9-9 record to earn its school record sixth consecutive non-losing season. The women finished with a 10-10 mark for its best single-season winning percentage in school history.

Individually, three male and four female Rose-Hulman players earned scholar-athlete awards from the ITA. Joe Rottman led the individual male honorees with a 15-11 record at the top four singles positions. Other award winners included Kevin Hanson and Kevin Patel. For the women, Krista Gonnerman and Kate Martin each won 10 matches for the squad and earned all-academic recognition. Honorees Mandy Grantz and Sara Rohrabough each contributed eight singles victories to the team effort.

ROSE-HULMAN BEGINS PREPARING FOR 2007 NCAA DIVISION III INDOOR TRACK NATIONALS

The NCAA Championships Committee has selected Rose-Hulman Institute of Technology as host for the 2007 NCAA Division III Indoor Track and Field National Championships.



Rose-Hulman will host 15 events in both men's and women's track and field at the Sports and Recreation Center on March 9-10 in 2007. Nearly 500 student-athletes participate in the championships each year.

Engineer head coach Larry Cole will serve as meet director, with significant assistance from Matt Sinclair, director of sports and athletic facilities. The two have formed an event planning committee of Rose-Hulman and Terre Haute community leaders.

Previously, Rose-Hulman has hosted

NCAA Division III National Championships for women's basketball (2002 and 2003) and golf (1995), along with regional events for baseball (2005), cross country (1997) and wrestling (2002).

INDIANAPOLIS COLTS TRAINING CAMP DRAWS RECORD CROWDS, MEDIA COVERAGE

The Indianapolis Colts training camp at Rose-Hulman Institute of Technology attracted a camp record 20,131 fans over a three-week period in July and August.



A night practice draws more than 6,000 to Cook Stadium.

The total surpasses the previous mark of 18,895 set in 2004. A memorable Saturday night practice that drew a Cook Stadium record crowd of 6,130 served as the camp highlight.

National media outlets to visit Rose-Hulman during the 2005 training camp included ESPN, FOX Sports, the NFL Network, USA Today, The New York Times, the Philadelphia Enquirer, Sports Illustrated, and The Sporting News.

In addition, the Colts announced the first two Colts Minority Science and Engineering Scholarship recipients, who will each receive a four-year, full-tuition scholarship to Rose-Hulman.

FIVE NEW MEMBERS ADDED TO ATHLETIC HALL OF FAME

Rose-Hulman Institute of Technology has inducted five new members into the Athletic Hall of Fame in the Sports and Recreation Center Multipurpose Room. The Class of 2005 included four student-athletes and a key athletic contributor.

All-American pole vaulter Mike Brown earned a pair of fourth-place national finishes for Rose-Hulman prior to his graduation in 1995. He set indoor and outdoor school records, with a career best leap of 16' 6".

Shawn Ferron earned a pair of first-team Academic All-American awards as a place-kicker and was an honorable mention All-American in 1989.

Anthony Hammack ranks third on Rose-Hulman's career rushing list with 2,830 yards and earned All-American honors from Hewlett-Packard and Hansen's Football Gazette during his 1994 senior season.

Walter Wenthe captured three Indiana



From left: Ron Reeves, Anthony Hammack, Mike Brown, Shawn Ferron and Robert Bright.

Collegiate Tennis Singles championships from 1915-17 and won a doubles title in 1914.

Ron Reeves was inducted for his efforts as Rose-Hulman's vice president of develop-

ment and external affairs and chapter advisor for the Alpha Tau Omega fraternity for more than 30 years, along with his attendance at more than 1,000 athletic events.

PATRICK LUDWIG NAMED FIRST-TEAM ACADEMIC ALL-AMERICAN

Rose-Hulman Institute of Technology senior offensive tackle Patrick Ludwig has been named a first-team Academic All-American by ESPN The Magazine.

Ludwig becomes the 64th Academic All-American and the 25th football honoree in school history. This also marks the 21st consecutive academic year that a Rose-Hulman student-athlete has earned Academic All-American recognition from members of the College Sports Information Directors of America.

On the field, Ludwig earned second-team all-Southern Collegiate Athletic Conference recognition in both 2004 and 2005. He transitioned from left guard to right tackle prior to his senior season and started the last 24 games of his Fightin' Engineer career.



Patrick Ludwig

Ludwig's efforts helped Charlie Key rush for 2,741 yards and 38 touchdowns in his career, while Cameron Hummel will enter his senior season ranked fifth in school history with 3,446 career passing yards.

In the classroom, the civil engineering major has recorded a 3.87 grade point average and is a member of the Alpha Lambda Delta honorary society. He also serves as a member of the American Society of Civil Engineers and the Student Alumni Association.

CHECK THE WEB FOR ATHLETIC UPDATES

For the latest in Rose-Hulman athletics news, visit the Web at www.rose-hulman.edu/sports where you will find the latest game coverage, feature stories, statistics, live statistics during games, and Internet broadcasts.

responding *in* relief

ALUMNI, STUDENTS ASSIST IN HURRICANE RELIEF

BY DAVID PIKER

Faced with the overwhelming need to come to the aid of people, schools and businesses devastated by the effects of Hurricanes Katrina and Rita; Rose-Hulman alumni and students have responded by doing what engineers do best -- help improve people's lives.

Their positive, unselfish efforts to help residents of the Gulf Coast include alumni brothers who came out of retirement to help rebuild Mississippi's largest employer to other graduates and students who have volunteered to staff relief shelters, teach in a school, and rebuild a home.

Alumni Dick ('58) and Dave Trueb ('61) ended their retirements to join their brother Tom ('68) in his business to help insurance companies restore the Ingalls Shipyard in Pascagoula, Mississippi. The shipyard provides more than 10,000 jobs and is the state's largest employer.

While waiting to resume his job as a faculty member at Tulane University in New Orleans, alumnus Ron Anderson ('80) is volunteering as an instructor at Lutheran High School in Metairie, La. Until Anderson stepped forward, the small, private, college-prep school had no one available to teach upper-level math and science courses.

As an area manager for Mississippi Power Company, Matt Warstler's ('93) responsibilities grew as did the workforce he had to manage as a result of the hurricanes. During the peak period when power was being restored to the Pearl River County for which he is responsible, Warstler's crew increased from 14 to 1,000 workers.

Back in Terre Haute, Sharon Foltz decided she needed to do more than make a financial contribution to aid hurricane victims. She became a Red Cross volunteer, took a leave from her job at the Eli Lilly & Co. facility in Clinton, Ind., and spent three weeks in Louisiana.

Alumni weren't the only ones who took action to help. Current Rose-Hulman students John Cergenul and Adam Ford spent their Thanksgiving break rebuilding a Louisiana home that was flooded by Hurricane Rita.

When Hurricane Katrina hit Louisiana it created a storm surge of more than 13 feet that covered the Ingalls Shipyard immersing sophisticated and powerful shipbuilding equipment in salt water. The storm also destroyed hundreds of thousands of square feet of office space. Damage was estimated to be well over a billion dollars and officials believe it will take more than two years to restore the shipyard.

The Trueb brothers are among the engineers working on the unprecedented rebuilding project. Even though Tom Trueb,

through work at efiSolutions, Inc., a consulting firm he founded, has been involved in projects to help insurance companies restore industrial plants back to productivity following natural disasters, fires, and explosions; this project called for the best help he could



find. He knew where to find it. He recruited his brothers.

"The greatest challenges are faced by the shipyard managers, engineers and workers who are working from dawn to dusk to restore their workplace while dealing with their own losses as well," Trueb explained.

Trueb said progress is occurring as repairs have restored power

and extensive cleaning and replacement will take place in the months ahead.

Ron Anderson will return to teaching as an associate professor of biomedical engineering on January 17 when Tulane University reopens for the Spring semester. Until then, Anderson's teaching will be vital to the Lutheran High School.

"The school wanted to open as soon as possible so it could bring some normalcy back in the lives of their students," said Anderson, who is teaching five math and science classes. "The school has taken in many students from other local schools that were destroyed," he remarked.

Anderson noted that the schools in the area are in need of significant financial help. School officials anticipate having more of their teachers return in January.

Life changing is how Sharon Foltz describes her work to help nearly 1,500 people housed in a shelter in Shreveport, La. because of Hurricanes Katrina and Rita.

"It was amazing to watch how people who had lost so much and did not know each other would bond together and help each other," Foltz recalled.

Foltz was trained by the Terre Haute Red Cross chapter and was assigned to the night shifts in two shelters in Shreveport.

"We assisted in getting the first shelter in CenturyTel Arena open by unloading supply trucks and setting up cots and other supplies," said Foltz.

"After we closed it down, I was assigned to a second shelter that had been open 3 to 4 weeks. It had become a little city with a post office, computer lab, church services, pharmacy and counseling meetings," Foltz stated.

Matt Warstler was hardly settled in his new job for Mississippi Power before he found himself working with 1,000 colleagues from seven states and Canada to repair damages caused by Hurricane Katrina.

"I had moved from Atlanta six days before the storm," he said. "The work of all the crews was outstanding. We restored power to all our customers in 11 days," Warstler said in describing the dedication of the utility crews.

"We continue to provide new residential services to homes under repair and to additional FEMA-related housing facilities," he noted.

A discussion at church led Rose-Hulman sophomore, mechanical engineering majors John Cergenul and Adam Ford to give up their Thanksgiving break to work day and night to rebuild a home in Rynella, La.

Cergenul, Ford and Alicia Beyer, a student at Saint Mary of the Woods College, used their time to make structural and electrical repairs to the home.

Cergenul wanted to use his construction skills to provide help to the hurricane-damaged area, according to an article in the New Iberia, La., daily newspaper.

Tom Trueb summed up the reactions of many of the Rose-Hulman volunteers when he said, "It's been a privilege to work alongside some of the most amazing people we have ever met who are taking this disaster in stride and rebuilding their communities, their employment and their lives with little complaining and with a great spirit. "Whatever we can do to help them will be a reward to us," Trueb emphasized. ■





Honor Alumni class of 2005

demonstrates commitment to alma mater

Recipients of the Honor Alumni Award are selected based on their (a) loyal, unselfish and meritorious service in furthering the interests of Rose-Hulman, (b) contributing to the national interest of our country, and (c) professional achievement. Three alumni received the Honor Alumni Award this year during the Homecoming Brunch on Oct. 1.

2006 NOMINEES SOUGHT –
The Alumni Association Advisory Board seeks nominees for this year's Honor Alumnus Award. Send nominating information to either Brian Dyer, director of alumni affairs (d.b.dyer@Rose-Hulman.Edu) or John Brabender ('81), chair of the awards and recognition committee, Rose-Hulman Alumni Association Advisory Board. (john.brabender@cinergy.com).



William Pine
A Road Researching Warrior

William Pine graduated in 1985 with a bachelor's of science in civil engineering. He worked for the Illinois Department of Transportation in District 5 at Paris from 1985 to 1998, spending most of that time in the Bureau of Materials, working with Hot Mix Asphalt design, production and placement issues. Bill is a research engineer

with Heritage Research Group and a technical advisor with Emulsicoat, Inc. Bill started with the Heritage Group in 1999, where his role is focused on supporting the various Heritage Group companies and their customers.



J. Eric Dietz
Keeping Indiana Safe

J. Eric Dietz graduated in 1984 with a bachelor of science in chemical engineering. He also earned a master's of science from Rose-Hulman Institute of Technology in 1986 and a Ph.D. in chemical engineering in 1994 from Purdue University. Eric is the executive director for The Indiana Department of

Homeland Security and is responsible for the development of comprehensive plans, training, and exercises needed to improve Indiana government's emergency response for the 6.2 million Indiana residents.



Robert Wilkins
Working to Commemorate His Heritage

Robert Wilkins graduated cum laude in 1986 with a bachelor's of science in chemical engineering. In 1989, he received a J.D. from Harvard Law School. After graduation, Robert joined the Public Defender Service for the District of Columbia. Robert played a key role in establishing the National Museum of African American History and Culture Plan for Action

Presidential Commission, as well as chairing the Site and Building Committee. His work on the Commission led to the passage of Public Law No. 108-184, which authorized the creation of the National Museum of African American History and Culture to be located on or adjacent to the National Mall as a part of the Smithsonian.

Young Alumni Council Presents Distinguished Young Alumni Award

DISTINGUISHED YOUNG ALUMNI 2005

The Distinguished Young Alumni Award is given to alumni who have graduated within the past 10 years. Recipients are honored for their early career achievements. The awards were presented during the Homecoming brunch on Oct. 1.

Four alumni were presented with the Distinguished Young Alumni Award by the Young Alumni Council. Honored were Brian Brown, Class of 1995, Vice President of Marketing, The Knapheide Manufacturing Company; Wesley Bolsen, Class of 2000, Senior Associate, McKinsey & Co.; Gabe Ferland, Class of 1996, President and Owner, NetFidelis, Inc.; and David Fisher, Class of 2000, Assistant Professor, Rose-Hulman Institute of Technology.



BRIAN BROWN



Manufacturing Success



Brian Brown graduated in 1995 with a bachelor's of science in mechanical engineering. He also earned a master's of business administration at Harvard Business School in 2000. Brian drives development of new products and associated implementation of pricing and promotion strategies. Recent releases include KnapTight™ doors, the patent pending Knaplock™ keyless entry system, and the KUVcc™ product line of enclosed service bodies.

Gabe Ferland



A Management Systems Man



Gabe Ferland graduated in 1996 with a bachelor's degree in computer engineering. After graduation, he served as an officer in the U.S. Marine Corps. He led a team that implemented a Warehouse Management System that is currently used throughout the world, including present operations in Iraq. This system reduced manpower requirements by 50 percent because of efficiencies gained in warehouse automation and reduced inventory costs by 50 percent. In addition to serving as president of NetFidelis, he is a partner in two other companies.

WESLEY BOLSEN



Consulting Fortune 500 Clients

Wes Bolsen graduated in 2000 with a bachelor's of science in electrical engineering. He also earned a master's of business administration from Stanford Graduate School of Business in 2004. He is a senior associate with McKinsey and Co. Wes is the youngest person in his office with this designation and is responsible for consulting Fortune 500 clients in the U.S., Canada and Europe. Wes is very involved in faith-based programs, both in his community and internationally. He recently became an ordained minister to perform his brother's wedding.



DAVID FISHER



Returning to His Academic Roots

David Fisher received his bachelor's of science in mechanical engineering in 2000. He has also earned his master's of science in mechanical engineering from Stanford in 2001, and his Ph.D. in the biomedical engineering division of the mechanical engineering department from Stanford in 2005. His research in shoe design and how it relates to medical compartment knee osteoarthritis will have direct application in the treatment and prevention of severe osteoarthritis at the knee. Dave currently holds two patents and one pending and has authored seven printed publications. Dave joined the faculty of the mechanical engineering department of Rose-Hulman in the fall of 2005.



LOOKING BACK AT 10 YEARS OF COEDUCATION

by dale long

"I think female involvement in the Rose-Hulman community is extremely beneficial and necessary. It provides balance and variety, which in my opinion, lead to a better education."

*- Amber Brannan,
Rose-Hulman Senior*

It took some fatherly advice to convince Abigail Hale that she was making the right choice to become a member of Rose-Hulman Institute of Technology's 1995 inaugural class of female students. Without hesitation, the soft-spoken man stated: "Abigail, there is a special bond in being the first group of anything."

As always, father was right.

Those special friendships developed while solving challenging math problems on a new laptop computer, attending formal social parties and making late-night trips to Terre Haute coffeehouses have endured and spread across 441 female graduates during the past seven years.

"I am continually inspired by people who are 'pioneers' in their fields . . . it takes someone a little different," says Kelly Kozdras (Elect. Eng., '99). "Talking to other women or minorities in engineering or fields where women are not hugely represented, I feel like all of us are trailblazers."

Nellie Hohne (Mech. Eng., '99) adds, "I never felt like a trailblazer until I came back to campus for my first homecoming as an alumna. Seeing new female students doing the things that we started (sports, clubs, sororities, etc.) made me realize that being the first female students at Rose-Hulman was an incredible opportunity."

That opportunity knocked on Oct. 3, 1991, when Rose-Hulman's Board of Managers voted to approve a coeducational resolution. The action, as reported in *The Terre Haute Tribune-Star*, ended "the long, controversial debate over coeducation at Rose-Hulman" and "women aspiring to attend one of the best engineering schools in the nation will now be able to realize their dreams."

After a four-year grace period, the inaugural female freshman class moved into Baur-Sames-Bogart and Mees residence halls on August 26, 1995, and members attended their first classes four days later – under the glare of television cameras and cautious male students.

"Local TV crews filmed us eating breakfast on the first day of school, as if it was breaking news that females eat!" recalled Amber Tolle (Civil Eng., '99). "But after the first few days, when the cameras went away, it wasn't such a hot story, things calmed down and it was just college: Lots of hard work and lots of good times."

Erin Gawron (Chemistry, '99), now a high school chemistry teacher near Atlanta, Ga., remembers, "The professors made a huge deal out of us being there – to the point where they pulled us aside to have one of the female faculty talk to us 'privately' to tell us that she was there to 'talk to.' We didn't want a fuss, we just wanted to do our math."

Overall, there were very few problems during that first year – or any time since, according to Donna Gustafson, associate dean for student services and a member of Rose-Hulman's coed transition team.

"The best advice we got was to treat the female students just like any other students, because, in reality, they were," she admits. "We must have done something right, because I don't remember any significant problems."



Media attention was heavy during the first day of class as television stations interviewed both women and men students on campus.



The first group of women students that went through Rose-Hulman in four years poses in Hulbert Arena for a group photo during May of 1999, just days prior to their graduation.



John Titworth, who was chairman of the Board in 1991, announces the Board of Managers' decision to make the college a coeducational institution during an October 1991 news conference.

Coeducation has left an indelible imprint on Rose-Hulman's past, present and its future, states Art Western, vice president of academic affairs and dean of faculty.

"These have been a wonderful 10 years. All our students have benefited from the institution becoming coed," he says.

Today, 326 female students make up 18 percent of Rose-Hulman's undergraduate enrollment – matching the national percentages of women enrolled in undergraduate engineering and science colleges throughout the United States. Statistics from the college's Office of Institutional Research, Planning & Assessment reveal that the retention rate of female students has been higher than men for six of the last seven graduating classes.

Four female students (Karen Hill Webster '01, Elizabeth Huttshell Kappler '02, Jill Kurdys '04 and Natalie Morand '05) have received the Herman A. Moench Outstanding Senior Commendation; five students (Jodi Barcus McClure '98, Liza Saunders Davis '99, Hanna Rumpf Kleeberger '00, Tonya Cole Combs '01 and Huttshell Kappler) received the John Royce Award as the college's outstanding student leader; three female students (Alyssa Riley '00, Morand '03 and Stefani Vande Lune '05) have been elected president of the Student Government Association; and female students have held leadership roles in several campus organizations.

"Having women here challenges the entire student body to be more successful," says Vande Lune, a senior applied biology major. "There is a lot of good-natured teasing between guys and girls which only inspires students of both sexes to be successful. The girls like to prove they are just as good as the guys, and the guys like to show off for the girls."

Dana Andre, a sophomore biomedical engineering major, adds, "Coeducation has given Rose-Hulman a more balanced atmosphere, both in the classroom and out. As girls, we socially offer different views and attitudes. Our outlooks often make the males around us stop to think about their views, and what other ones may exist. Academically, females often undergo different thought processes when problem solving. When working together, this brings in many new paths to consider, which can ultimately yield better results."

Julia Williams, an English professor since 1992 who is also executive director of the office of Institutional Planning, Research and Assessment, notes the significant changes in Rose-Hulman's educational environment brought about by coeducation. She often asked students in her all-male classes to read essays or works of literature that spoke from a female point of view.

"Before coeducation I was the only person in class that could offer any insights," she states. "It was a lonely feeling. Now I can look around the room and realize that there are a wealth of opinions, attitudes and perspectives that the class can hear and benefit from."



Becky Smith takes notes during the first day of class for female students on Aug. 31, 1995.

And, Rose-Hulman's female graduates are quick to point out that Rose-Hulman wasn't ranked No. 1 in *U.S. News & World Report's* annual college guide until AFTER coeducation.

"I'm sure that Rose-Hulman was a great school before coeducation, but inviting women to attend Rose-Hulman placed the college in competition with other top-rated institutions," says Morand, who

has just begun her engineering career at Eli Lilly and Company. "The reality is that the world we live in is a diverse place. What better way to teach problem solving than to do so in a diverse and complex environment?"

Morgan Hawker (Civil Eng., '99) added, "It was an excellent experience for me, as a woman, to be in a male-dominated environment like the one I would meet upon graduation while working as an engineer. It was important to me to understand both those that agreed with coeducation, as well as those that didn't, because everyone is entitled to their own opinion. It is what we do with those opinions and how we react that determine the dynamics of a team and how well it works."

Finally, Hawker may have summed up the sentiments of all Rose-Hulman female students by stating, "Rose-Hulman was the real trailblazer . . . we were just the lucky byproducts of the decision to go coed."



Jennifer Schroeder receives her diploma from then-President Samuel F. Hulbert on commencement day, May 29, 1999.

"The first year for women on campus wasn't easy. I felt like we, the first class of women, really needed to prove ourselves to everyone – to really show them that we were serious and that we were tough enough for Rose-Hulman."

- Jennifer Fleisner, '99

"Rose-Hulman has played a big part in my life. It has given me the confidence to tackle challenges I never thought I could and a place I can always call 'home'."

- Deborah Kroll, '99

Listed alphabetically are those female alumni from the Class of 1999 who responded to a recent *Echoes* survey (married names in parenthesis):

Ashley Ashlock (Tolle): She's a project manager for American Consulting Inc., living in Windfall, Ind., with her husband, Jason ('96); Earned a professional engineer's license; "Rose-Hulman is such a small community that you get to know a lot of people really well. It's an unusual bond that's lasted 10 years so far!" she says.

Angela Belsky-Vaughan (Anderson): A former manufacturing engineer with EFTEC, she now cherishes her time at home as mother of two children born 17 months apart, daughter Alexandria (2) and son Case (10 months); Lives in Cincinnati, Ohio, with husband Christopher ('99); Earned an MBA from Wright State University and is a Six Sigma Blackbelt.

Beth Bateman: The physics graduate has become an engineer for General Dynamics in Tempe, Ariz., where she went to earn a master's degree in industrial physics from the University of Arizona (2002). "At Rose-Hulman, the faculty gave me a lot more personalized attention, the students were more motivated, and the atmosphere was more friendly," she says.

Sara Brown (Zembrodt): A quality control engineer for Eli Lilly, she lives in Indianapolis with husband, Rob ('98), and 9-month old son, Jacob; Classmate Morgan Hawker got her hooked on barbershop singing; She is a member of the Capital City Chorus, which placed 14th in the 2004 international contest, and was formerly a member of The Melodeers (Northbrook, Ill.), four-time international champions.

Kristen Dahl: She was part of the U.S. Army's Attack North division that led the military assault into Iraq from Kuwait in 2003 and spent the following year in Baghdad; She is currently deployed as a project manager with the Army's 18th Engineer Brigade in Afghanistan, conducting quality control tests on construction projects; Earned a master's degree in civil engineering from the University of Missouri-Rolla.

Jessica Demlein (Martin): Working as a senior systems engineer for International Truck and Engine Corp. and living in Fort Wayne with husband, DeWayne ('98), and 18-month-old son, Michael.

Abigail Garrett (Hale): Is preparing to begin a new career path in finance after earning an MBA from Purdue University's Krannert School of Business; Lives in Indianapolis with her husband, John ('97), whom she did not meet until after graduating; The couple has a five-month-old daughter, Tamsyn; Returns to Rose-Hulman each fall for homecoming, and admires the changing campus. "Rose-Hulman continues to be a network that I greatly value," she says.

Erin Gawron: Has turned her interests in science and math into becoming an award-winning chemistry teacher at Heritage High School in the Atlanta area; Earned a master's degree in science education at Purdue University; Named Georgia Science Teachers' Association Teacher of Promise in 2005; One of two teachers from Georgia to attend an alternative energy fact-finding tour of the U.S. to help promote

the education of alternative energy sources.

Kimberly Hayden (Henthorn): She has followed in the footsteps of her idol educators Ron Artigue, Noel Moore and Hossein Hariri, becoming an assistant professor of chemical and biological engineering at the University of Missouri-Rolla; Earned a Ph.D. in chemical engineering from Purdue University, where she met her husband, David; She is a member of Rose-Hulman's chemical engineering advisory board; "I'm hoping to create a fun atmosphere for my students here at UM-Rolla, like my Rose-Hulman professors created for me," she says.

Morgan Hawker: Designed oil refineries before turning her attention toward earning a master's degree in theoretical and applied mechanics, specializing in computational solid mechanics, at the University of Illinois; She started an Internet Kiwanis Club (eKiwanis.org) in the Chicago area for young adults who want to be involved with community service; Has traveled to Italy twice and the British Virgin Islands once; is engaged to Rob Raque ('99).

Kendra Itskin (Basler): Serving as a senior regulatory affairs associate for Guidant and has helped husband, John (2000), start a Web design business; Lives in Newark, Calif.; Received Guidant's VI Research & Development Excellence Award in 2005, 2004 and 2001.

Leland Keyt: Has become a regulatory associate for DexCom Inc., a California-based biomedical company; She lives in San Diego, Calif.; "You don't graduate from college and know everything. Rose-Hulman gave me the ability to continue learning even if I'm not in a classroom, she says."

Kimberly Kisner (Hoss): She's a senior consultant for Grant Thornton and living in San Antonio, Texas, with husband, James; Spent four years in the U.S. Air Force, spinning 9 Gs as a test subject for a G-induced Loss of Consciousness (GLOC) study. She has also become a gym junkie, which Kimberly admits is odd "since I was so lazy in college – I was the girl who injured herself celebrating a win in IM volleyball!" she says.

Kelly Kozdras: Has used her 20s as a time to see the world and explore different options in her career; She recently returned to the United States after spending a year living at the South Pole Station in Antarctica as an electrical engineer for Raytheon's Polar Services Company; Earlier she spent time working with at-risk children in Denver, living in Harlem and working for the New York City Transit Authority; Has completed three marathons.

Deborah Kroll: Has moved three times for three different jobs during the past five years; Her latest stop: Being a systems integration engineer for Faurecia Exhaust Systems, living in Holland, Ohio; "Rose-Hulman has played a big part in my life. It has given me the confidence to tackle challenges I never thought I could. It is a place I can always call home," she says.

"Rose-Hulman was the first time in my life that I had been surrounded by others who were like me – curious, intelligent, interested in math/science and a bit of a geek. I felt at home there."

- Liza Davis (Saunders), '99

Holli Krumbein (Shenfield): Returned to her native Oregon to become a chemical facilities engineer for Intel Corp. in Beaverton; Recently married husband, Rick; She has run in two marathons, completed multiple sprint-distance triathlons and one Olympic-distance triathlon; Cherished memories include spending late nights on BSB III, the women's basketball team's first win and recording six fouls in one game.

Nellie Magnanti (Hohne): Is a powertrain NVH engineer with General Motors; Lives in Wixom, Mich., with husband, Dan ('99); She received the GM Chairman's Honor Award for development work on the full size truck 4-wheel steering system; Earned a master's degree in mechanical engineering from the University of Michigan; Serves as an advisor for UM's Chi Omega chapter; Remains close to Rose-Hulman as a member of the Young Alumni Council and Annual Fund co-chair.

Amy Ott (Hatfield): Lives in South Carolina, where she is the northeast regional manager for Milliken Company; has been married for seven years to Jason Hatfield ('99); Still an avid runner, completing marathons and triathlons; "I am a million miles away from where I thought I'd be during college. Life has a way of taking us on turns we never expected."

Maegan Peabody: Has become a senior analytical chemist with Eli Lilly & Company and lives in Indianapolis; Earned a master's degree in chemistry from the University of Arizona; Favorite Rose-Hulman memories include late night trips to Denny's and the coffee shop on Wabash Avenue.

Hanna Pekinpaugh (Fortwendel): Is a project engineer for Weyerhaeuser Company and living in Tell City, Ind., with her husband, Philip, and two-year-old son, Sydney; She took the professional engineer's licensing exam this fall and "still feel(s) prepared to solve problems on paper."

Kellina Reckard (Moore): She's a product engineer for Bemis Company and is living in Brazil, Ind., with her husband, Jon, and three-month-old daughter, Lilyana.

Casey Sandow: Spent this Thanksgiving moving to begin a job as a manufacturing engineer for Dow Chemical (Midland, Mich.) after serving as a production superintendent for Schering-Plough Healthcare Products; Her Rose-Hulman degree has helped her get two jobs: In the first, the human resources director was a Wabash College graduate who remembered playing basketball against the Engineers; Then, she got an interview at Dow because of the reputation of Rose-Hulman graduates with the company.

Liza Saunders (Davis): She is a research and development engineer for Boston Scientific, living in St. Michael, Minn., (her native state) with husband, Jon ('96), and two children, Annalise (4) and Eli (16 months); Earned a master's degree from the University of Minnesota in chemical engineering; Completed the Green Bay (Wis.) Marathon in 2002; became the first of five students from her small high school to attend Rose-Hulman.

Rebecca Schenk: Always expecting more from herself, she continues to be challenged as a product engineer for Allison Transmission; Lives in Indianapolis; Has completed a half marathon and trained for a marathon.

Jennifer Schmitt (Fleisner): She's a quality project engineer for Kohler Company's engine division and living in Elkhart Lake, Wis., with husband, Allen; Earned an MBA from Lakeland College (Wis.); "I was a bit on the wild side in college. I've settled down a lot since my days at Rose-Hulman."

Becky Smith: Has returned frequently to Rose-Hulman as an officer of the Young Alumni Council, career fair recruiter and women's basketball advocate; After adding a master's degree from RHIT in chemical engineering (2001), she has become a process control engineer for Eli Lilly, living in Indianapolis; Earned a Professional Engineering license in 2005.

Amanda Speich (Burch): Recently left Eli Lilly to become a business development analyst with NNC Group (Indianapolis) and building a business as an independent consultant for Arbonne International; Lives in Indianapolis with husband, Todd ('98); Earned her professional engineering license. "Rose-Hulman helped me grow in so many ways. I have an amazing group of friends that I can always count on to challenge me and be there for me," she says.

Jennifer Taylor: Continues to use her economics and mathematics skills as a CPA and assurance services manager for Ernst & Young (Indianapolis); Earned a master's degree of professional accountancy from Indiana University; "Tom Mason played a significant role in my pursuing an accounting degree and becoming a CPA."

Kim Whitesell (Larson): A senior project engineer for Underwriters Laboratories, she lives in Chicago, one mile from Wrigley Field, with her husband, John ('98), and 9-month old son, Jack; She is chaplain and continuing education chair for the Delta Delta Delta alumni group; She teaches Sunday School.

Anamaria Witaszczyk: After adding a master's degree in environmental engineering from Rose-Hulman (2001), she's an environmental project manager for Koppers Inc. and living in the Chicago suburb of Lisle, Ill. "Because of Rose-Hulman, I have the best group of friends," she says. Her core group of friends meets every Thanksgiving to visit, catch up and eat good food. Past trips have included Kansas City, the Florida Keys, Chicago, San Francisco and New Orleans.

Doris Woo: Married a techno DJ, Dynamic Tension's dj surgeon, whose records she used to play on WMHD-FM; Lives in Worcestershire, England; Still considers herself a jet-setter despite the fact that she's traded flying to clients and satellite offices for trips to nightclubs and international festivals to photograph her husband's gigs. "In my opinion, I think I've traded up!"

Rose-Hulman Coed Historical Timeline

October 3, 1991: Rose-Hulman Board of Managers votes to make Institute coeducational
Winter, 1992: President's Office appoints committee to coordinate the transition to coeducation
Winter, 1993: Admissions materi-

als updated to reflect coeducation
June/July, 1994: Female high school seniors recruited to Operation Catapult program
September 1, 1994: Eleven female students attend Rose-Hulman on part-time basis under

educational consortium arrangement with Indiana State University
August 26, 1995: First female freshman class moves into residence halls; 80 female students were in the class, making up 17.3% of freshman class

August 31, 1995: First day of classes for first female freshman class
September 30, 1995: The five-member women's cross country team has Rose-Hulman's first intercollegiate female athletic contest

October 6, 1995: Renee Schwecke becomes the first Rose-Hulman student to be crowned homecoming queen
April 18-20, 1996: Rose-Hulman hosts "A Woman's Place: A Conference on Women in Engineering, Science

and the Humanities."
April 21, 1996: Gamma Lambda chapter of Chi Omega sorority initiated
May 2, 1996: Gamma Pi chapter of Delta Delta Delta sorority initiated

May 25, 1996: Beth Knoy becomes Rose-Hulman's first female undergraduate after completing 66 credit hours in three academic quarters
September 14, 1996: Volleyball team defeats Robert Morris in the Black Center for first female intercollegiate

athletic victory
November 25, 1996: Women's basketball team defeats Agnes Scott College 55-43 in Decatur, Ga., for first-ever victory
April 26, 1997: Nikki Overman becomes first female all-conference athlete, winning the hammer

throw at the Indiana Collegiate Athletic Conference track and field championships
May 29, 1999: Commencement day for inaugural female freshman class; Liza Saunders receives Hemingway Gold Medal for having highest GPA in class;

May 30, 1998: Jodi Barous is first female recipient of John Roysse Award
February 2001: Alyssa Riley first female elected as student government president
May 26, 2001: Karen Hill is the first female recipient of Herman Moench

Distinguished Senior Commendation.
August 30, 2001: Freshman class includes a record 93 female students, making up 23% of class
February 13, 2003: Rachel Lukens named to All-USA Scholar Academic Team, published in USA Today

November 25, 2003: Jessica Farmer becomes first female Academic All-American, earns second-team honors in soccer

March 29, 2004: Rose-Hulman junior Angela Smiley and Amelia "Mae" Huels named Barry Goldwater Scholars for being among nation's top engineering and science undergraduate students



ROSE-HULMAN

HOMECOMING 2005



The class of 1955 and the Student Alumni Association team up for a rendition of Dear Old Rose.



Academic open houses



Alumni check in at the Alumni Center.



The Parents' Association fired up their famous pork chops.



Freshmen continued the bonfire tradition in blazing fashion.



Foursomes filled Friday's golf outings.



Rosie's KidZone entertained the younger set.



Alumni parties in Terre Haute drew attendees from various eras.



Queen Danna Sheridan, third from the left, and her court at the pep rally.



Reviewing bricks of honor at Reflection plaza



Engineer fans have fun with phonics at the football game.

THROUGH THE ALUMNI LENS



Lean Scene

One of the successful alumni trips last year took alumni and friends of Rose-Hulman to Italy where one of the stops included the Leaning Tower of Pisa. Ever the prideful group, the travelers stopped for a pose with a Rose-Hulman banner. For more information about upcoming Rose-Hulman alumni trips and other activities, visit the alumni office's Web site at <http://www.rose-hulman.edu/alumni-affairs>.



Bright Moment in Illinois

Rose-Hulman CEO Robert Bright (far right) speaks to alumni during a luncheon Dec. 9 in Robinson, Ill. Twenty-three alumni attended the event during which Bright talked about the quality of the freshman class and the continued positive impact of the Institute being ranked as the best in its category by U.S. News & World Reports. He provided an update presidential search.



Honorary Alumni

Each year, alumni select a faculty member and a staff member to receive honorary alumnus status. This year, alumni selected Robert J. Houghtalen, left, head and professor of the Department of Civil Engineering, and Brian Dyer, director of alumni relations, as honorary members of the Alumni Association.



Gavel Travel

Denis Radecki, left, a member of the Class of '72, is the new president of the Rose-Hulman Alumni Association. He receives the presidential gavel from outgoing president Jeff Burgan, a member of the class of '77. The transition took place during Homecoming 2005 activities last fall.

ALUMNI News

VARIOUS TOPICS OF INTEREST TO ALUMNI

After two years "interning" under Doug Stearley ('79) and Jeff Burgan ('77), it is my turn to hold the gavel as president of the Rose-Hulman Alumni Advisory Board. I want to use my first column to touch on a variety of topics important to alumni.

First, let's congratulate Brian Dyer, director of alumni affairs, and welcome him as an honorary member of the Rose-Hulman Alumni Association. Brian and his staff work hard to keep the alumni connected to the campus and make us feel like family rather than visitors when we're on campus.



One thing I've observed over the last two years as part of the Alumni Advisory Board is that the board consists of some very talented alumni volunteers. Our committees provide the opportunity for alumni to become an active part of today's campus. Many excellent ideas and programs have been initiated and nurtured by these committees.

A new initiative of the Student Alumni Association is the R.O.S.I.E. dinner, which brings students and alumni together. An alum hosts 6-8 students and maybe a professor for a casual dinner in

their home or at a restaurant. The students get a free meal (always a plus as I recall) and get to hear about the "good old days" (ok, so maybe the meal isn't quite free). The alum gets to hear about current campus life and current engineering education. To date, two such dinners have been hosted, one by Jeff Papa ('93) and John Rozmaryn ('97), and one by Pat Cahill ('67). If you are interested in hosting a dinner, contact the Alumni Affairs office. I'm looking forward to my cookout this spring.

A topic on the minds of many alumni is the search for a new president. See page 6 for more information on this important topic, and visit the Rose-Hulman presidential search Web page at www.rose-hulman.edu/presidentialsearch/.

Finally, those of you who have been on campus recently have seen the Reflection Plaza surrounding the Flame of the Millennium sculpture. The Plaza has become a major attraction to alumni who visit and read the messages on the many bricks and stones. The Office of Alumni Affairs will be placing another order in February. If you want to place a brick in the plaza call 800-248-7448, ext. 8359.

Denis Radecki '72
Alumni Association President

PRINTED ALUMNI DIRECTORY COMING SPRING 2006

If you have not ordered a new alumni directory, you will have another opportunity to do so in the near future.

Soon a letter from the alumni office will be going out to alumni who have not pre-ordered a directory or updated their alumni record. There is no obligation to purchase a directory when you update your record with the alumni office. Alumni who have already been contacted about a directory and did not order one will not receive the letter or be contacted via telephone again.

Alumni have ordered more than 800 directories from Publishing Concepts, the directory printer. The Alumni Office is pleased to offer this as a service to alumni who would like a printed directory in addition to the free online alumni directory. A softbound printed directory or a CD directory is available for \$69.95 each. A special price of \$89.95 allows you to receive both the printed version and the electronic version on a CD.

If you have any questions, please contact Brian Dyer, Director, Alumni Affairs at 812-877-8359.

LEAVE A LEGACY



You have a chance to leave a legacy for yourself or a family member in the Reflection Plaza on the front lawn of Rose-Hulman's campus. Purchase a brick that is part of the plaza surrounding the Flame of the Millennium sculpture.

**Three sizes of bricks available for purchase are:
4 x 8 inches for \$150, 8 x 8 for \$500 and 12 x 12 for \$1,000.**

For more information, contact the Office of Alumni Affairs at 800-248-7448, ext. 8359 or via e-mail at brian.dyer@rose-hulman.edu.

1962

Dale Oexmann (Math.) provided an idea that led to a utility patent titled "Vehicle Collision Warning System." A proof of feasibility and beta prototype were completed by a senior project team at Rose-Hulman. The project will be used to avoid collisions between motor vehicles and trains. What this system provides is an audible and/or visual warning to the driver of each vehicle that there is a likelihood of a collision if they continue their current trajectory, direction and speed.

Brent Robertson (C.E.) has retired from Michelin after 17 years there and 38 years in the rubber industry. He lives in Carmel, Ind., where he has started a new business: Concrete Protection & Decoration, LLC.

1968

Byron Myers (M.E.) has been elected a managing partner of the Ice Miller law firm in Indianapolis. His primary practice concentration is labor and employment law matters.

David A. Yeager (M.E.) received the Metal Powder Industries Federation Automotive Achievement Award for his automotive industry work that has contributed to the expansion of powder metallurgy applications in vehicles. He is senior technical specialist, component engineering department, Ford Motor Co. He received the award during SAE congress last year.

1971

John Spencer (M.E.) was recently promoted to global manufacturing manager – actuators for Haldex. He has responsibility for existing facilities in the United States, Mexico and Hungary. He also will be responsible for establishing facilities in China, Brazil and Indiana.

1972

David A. Burgner (E.E.) has been appointed as Delphi's General Motors Customer Director.

Herbert T. Young (Ch.E.) has taken the position of program manager for NineSigma, Inc., a Cleveland, Ohio-based innovation sourcing firm.

1973

Greg Smith (M.E.) has been elected vice chairman of the Ford Motor Co. Reporting directly to company chairman Bill Ford, Smith oversees central corporate staffs, including human resources and labor affairs, corporate strategy, information technology, the chief of staff office and the dealer policy board.

1974

Michael Goler (BIO) has been hired by the St. Joseph's /Candler health system in Savannah, Ga., to serve as director of system performance improvement. He joins the system from Springfield, Mo., where he served the St. John's Health System & Clinic as a staff physician and in other leadership roles.

1975

Steven McCracken (M.E.), chairman and CEO of O-I, has been named to the national board of directors of Keep America Beautiful, Inc.

1976

Bob Cole (Ch.E.) has been promoted to vice president, global engineering and environmental, health and safety by Eli Lilly & Co. He has responsibility for global process and maintenance engineering, global facilities delivery, asset strategy, and corporate environmental, health and safety.

Rick Stiles (M.E.) and his wife, Dauphine, announce the birth of daughter Alexandra Nicole Yuson Stiles on Aug. 16.

1977

Phil Wehl (M.E.) was promoted earlier this year to the position of vice president, Kennametal Value Business System and Lean Enterprise, and he also was elected as a corporate officer by Kennametal's Board of Directors.



Alumni Cycle in Service
Charles Borsos and Nathan Edwards, both 1978 mechanical engineering graduates, joined 13,000 other cyclists to ride in a 180-mile bike tour from Houston to Austin, Texas, as part of a fund-raising event for the National Multiple Sclerosis Society. Both alumni work for Schlumberger.

1978

Lou Jones (Ch.E.) has been promoted to director of engineering, starch division, for National Starch and Chemical Co. He and his wife, Verna, have relocated from Kansas City to the Indianapolis area.

1980

Keith Patton (M.E.) recently was promoted to associate vice president at TransCore, ITS with responsibility for development and deployment of TransCore's Traffic Control Systems.

Jonathan Perry (M.E.) reports that after eight great years in Trinidad, he has taken a position in Bogota, Colombia, as wells manager for BP Colombia.

1981

Kevin S. Rees (M.E.) has been named a fellow of ASME. A resident of Corpus Christi, Texas, he is chief, maintenance engineering division, U.S. Army Aviation Engineering

Directorate. He is a key technical leader in the rotorcraft maintenance industry, and he is responsible for implementing important initiatives that have reshaped the way helicopter maintenance is managed and performed. The Fellow grade, the highest elected grade of membership in ASME, is conferred upon a member with at least 10 years of active engineering practice and who has made significant contributions to the profession.

1982

Robert B. Heathcock (E.E.) reports the birth of son, Ryan Bruce, last summer. Robert also has retired from the U.S. Army as a lieutenant colonel after 23 years. He has been hired as Army radio systems manager for Harris RF Communications. He resides in Arlington, Va.

1985

Gerald W. Roberts (E.E.) has accepted an of-counsel attorney position with the intellectual property law firm of Maginot, Moore & Beck LLP in Indianapolis.

1987

James Yoakum has joined the engineering design firm Teter a+e where he is developing and heading up the company's new plant engineering design group. He is opening a Midwest office for the company in Champaign, Ill. He and his wife, Cecilia, have also opened their own maintenance and reliability consulting company. They live in Tuscola, Ill.

1988

Kevin McNelly (M.E.) has been appointed vice president of supply chain operations for MedImmune. He leads the company's supply chain activities, and he is responsible for the department's overall strategic direction. MedImmune is a medicine company that focuses on infectious diseases, cancer and inflammatory diseases.

Nathan Wright (M.E.) has been appointed to the board of directors of KRATON Polymers LLC. The company is a global specialty chemicals company, and it is the world's largest producer of styrenic block copolymers. Wright also will serve as a member of the board of directors of Polymer Holdings LLC. He has been a principal of Texas Pacific's operations group for five years.

1989

Trent Peyton (E.E.) founded Peyton Technical Services last year. The company provides electrical power system design and other facility engineering and technical services. The firm's primary focus is hazard assessments for OSHA Arc Flash compliance with NFPA 70E.

1990

John Jumper (E.E. and M.S.E.E. 1993) announces the April birth of fifth child, Laura Marjorie, who joins siblings Sara, Zoe, Ricky and Audrey. John works at Stellent in Colorado Springs, Colo., as an engineering manager of Web technologies.

**HOMECOMING 2006
OCTOBER 6 – OCTOBER 7**

Mark your calendars and make motel reservations now!

ALUMNUS QUALIFIES FOR 2008 U.S. OLYMPIC SWIMMING TRIALS

Rose-Hulman graduate Matt Smith qualified for the 2008 United States Olympic Swimming Trials with his performance at the 2005 ConocoPhillips National Championships. He graduated from Rose-Hulman in 2003 with a degree in mechanical engineering.



Matt Smith

Smith, who missed Olympic qualification in 2004 by just over one second in the 100-meter breaststroke, recorded a time of 1:04.55 to place 15th out of 61 elite-level swimmers at the championships. His effort bested the 100-meter breaststroke trial cut time of 1:04.69.

Smith became Rose-Hulman's first swimming national champion in 2003, claiming NCAA Division III title honors in the 100-yard breaststroke. The four-time All-American finished fifth in the 200-yard breaststroke in 2003, after claiming All-America honors in both events in 2002.

Smith also became the first Academic All-American in swimming program history in 2002. At Rose-Hulman, Smith was named the 2002 SCAC Tri-Swimmer of the Year, won eight individual conference titles and set eight school records.

1991

Todd Logan (M.E.) reports the birth of third child, Gabriel Blazer, born last June. He joins older siblings Nate and Bridget.

Doug Tougaw (E.E.) received the "Outstanding Educator of the Year Award" from the American Society for Engineering Education Illinois/Indiana Section. He also was runnerup for Eta Kappa Nu Outstanding Young Electrical Engineer.

He recently completed an MBA degree at Valparaiso University, where he is a professor of engineering.

1993

John Biddle (Ch.E.) and his wife, Melissa, celebrated the birth of their first child, MacKenzie, born in August. On the job front, John updates *Echoes* that he is general manager of a medical and pharmaceutical coatings company in Monticello, Ind.

Tod DeVore (M.E.) has joined AcuTemp as director of product development and engineering. AcuTemp manufactures high-performance insulation and temperature-sensitive packaging technology. DeVore is responsible for leading development of the company's product line and for implementing structured engineering processes.

Patrick McCrudden (E.E.) and his wife, Shirley, became parents of twins last summer when David John and Ella Charlotte were born. Additionally, Patrick was promoted to vice president at Bank of America. He continues his work in customer relationship management services as the owner of several profitability applications.

Chris Werling (C.P.E.) updates *Echoes* that he and his wife, Kristi, became parents in 2004 when Easton James was born.

1994

Greg Walker (M.E.) has become CEO and majority owner of CRI, a developer and manufacturer of medical devices, primarily minimally invasive disposable products and tubing sets. The company employs 80 people in offices in Indianapolis and Alpharetta, Ga.

1995

Patrick Goodwin (C.E.) updates us that he and his wife, Marti, now have three children: Caroline, Max and Ellen.

1996

Alan Eskuri (M.E. and M.S.B.E. 2000) announces the birth of second child Kora Jo. Also, Alan has accepted a position as a product development engineer with Stereotaxis Inc. in Maple Gove, Minn. He also is pursuing a Ph.D. in biomedical engineering at the University of Minnesota.

Leonard M. Dattilo (C.S.) and his wife, Gina, announce the arrival of their new son, Leonard John, born last spring.

Brian June (M.E.) reports the birth of daughter Dorrie Suzanne on July 1, and that he has moved to Rolls-Royce Corp. in Indianapolis as a project engineering specialist.

Troy A. Madlem (C.E.) has joined in the creation of a business venture titled Frost Engineering & Consulting Co. that focuses on providing quality professional services to architects, light and heavy industrial clients, and to state and local governments. He serves as vice president responsible for engineering projects, including industrial and commercial renovations, new building construction and road and bridge designs. He also leads implementation of information technologies into core business strategies.

1997

Mark Lancaster (A.O.) married Kimberly Theresa Cohill on Sept. 17 in Baltimore.

DO YOU HAVE A GOOD STORY IDEA?

Rose-Hulman readers enjoy stories and notes about alumni. If you think you have a story to tell or if you know of another alumnus who has had something interesting taking place in his or her life, contact:

Bryan Taylor, Editor
Echoes, Rose-Hulman Institute of Technology
5500 Wabash Avenue, Terre Haute, IN 47803
812-877-8258 or bryan.taylor@rose-hulman.edu

Jeremy S. Milliman (C.E.) reports the birth of first child Olivia, born last June. Also, Jeremy has started a new job as an instructor with the civil engineering faculty at the United States Air Force Academy, Colorado Springs, Colo.

James Poylio (A.O.) and his wife, Cyndi, had their first child, Connor Thomas, born on July 15.

Benjie Zeller (E.E.) and his wife, Ashley, had their first child, Zoey, born last April.

1998

Don Bales (C.E.) and his wife, Bonnie, announce the birth of their first child, Faith Elizabeth. Additionally, Don updates *Echoes* that he received his professional engineer license in 2003.

John (C.P.E.) and Kim (Whitesell) (M.E.) Larson announce the birth of son, Jack, last year.

Jodi (Barcus) McClure (M.E.) and her husband Todd welcomed son Carter Michael last February.

Stephen Huwe (M.E.) has left active duty as an Air Force intelligence officer, but he continues to work in

Christopher Swindle (C.S.) received a master of arts in history from the University of Alabama and he has started doctoral course work, also at Alabama.

1999

Matt Bazyn (M.E.) and his wife, Stacy, recently celebrated the birth of their first child, Hailey Ray, last April. On the job front, Matt now works for Fallbrook Technologies in Cedar Park, Texas.

John Collier (M.E.) married Amy Rowe on Aug. 7.

Dave Dusick (M.E.) moved back to Indianapolis last April to start his own business, Dave Dusick Enterprises, which specializes in increasing the professionalism of motorsports businesses. One branch is RaceTrackSupply.com which focuses on selling, installing and servicing products to racing facilities. Another division, RaceTeamSupply.com, focuses on creating a professional image for race teams.

Stephen Huwe (M.E.) has left active duty as an Air Force intelligence officer, but he continues to work in

Dayton, Ohio, as an aerospace engineer analyzing foreign fighter aircraft for the National Air & Space Intelligence Center.

Leland Keyt (M.E.) has accepted a regulatory affairs associate position with Dexcom in San Diego.

Chris King (C.P.E.) updates us that he and his wife, Mercy, welcomed new son Michael Alistair earlier this year.

John Rivard (M.E.) has taken a new job as scientific advisor to a DARPA program manager. He now is employed by Strategic Analysis, a consulting firm in Arlington, Va.

Holli Krumbein (Ch.E.) married Rick Shenfield last April.

Matthew (Ch.E. and ENV, 2001) and Ann (M.E./Ch.E) Talbert had second child Rose Ellen last April. She joins older sister Grace Ann.

2000

Alice Albrinck (Ch.E.) and her husband, Mark, welcomed their second boy, Kyle Raymond, last April.

Kelly A. Barney (C.E.) has passed the professional engineering exam and now is a licensed professional engineer in Texas.

Bryan W. Egli (C.E.) has been promoted to project manager within the Reynolds, Inc., Indiana

Plant Group. He is responsible for overseeing projects related to water/wastewater treatment plant construction.

Michael F. Harris (E.E.) finished his MBA at the Indiana University Kelley School of Business last May.

Melissa (Howell) Thayer (Ch.E.) reports that since we last heard from her, she married Matthew Thayer in April of 2004. They reside in Castaic, Calif., where Melissa is an engineer for Anheuser-Busch.

Brian M. Wickham (C.S.) and his wife, Amy, became parents when daughter Callaghan "Calli" Renee was born last April. Also, Brian received a master's degree from Johns Hopkins University last spring.

2001

Jay Askren (C.S.) has earned a master's in computational linguistics, and accepted a position with Quantum Leap Innovations as a software developer.

Michael Case (M.E.) has accepted a new position as controls engineer for Accudyne Systems in Newark, Del.

Matt (M.E.) and LaTisha (Ch.E.) Egenolf announce the birth of daughter Gabriella Marie, born last July.

Jason Kahlhamer (Ch.E.) wed Jessika Anderson last May.



Meneghini Receives National Orthopaedic Research Grant of \$50,000

R. Michael Meneghini, C.E. 1995, was awarded a 2005 national Orthopaedic Research and Education Foundation (OREF) career development research grant of \$50,000. It was one of only six awarded nationally and included individuals from Harvard, Sloan-Kettering and Cleveland Clinic. An orthopaedic surgeon, Meneghini will use the grant to fund his investigation of minimally invasive total hip replacement.

During the summer, Meneghini received the Mark Coventry Adult Reconstruction Fellowship Award as the outstanding hip and knee replacement fellow at Mayo Clinic.

Meneghini has joined the St. Vincent Center for Joint Replacement in Indianapolis.

"I have been fortunate to remain involved in the Rose-Hulman community over the past years when I was in Chicago and at the Mayo Clinic," Meneghini said. "I have given lectures to the biomedical engineering classes and have multiple orthopaedic-related biomechanical engineering projects currently going on with the master's students."

Meneghini has worked and continues to work on collaborative projects with Rose-Hulman professors Christine Buckley and Phillip Cornwell.

Rania Kashlan (Chem.) graduated from the University of Illinois College of Dentistry last May, earning a doctor of dental surgery degree. She has started a general practice residency at Loyola Hospital.

Andrea Michelle Putteet (E.E.) married Todd Michael Kuehnert last June.

Amanda Rice (M.E.) and **Harold Plance (C.E.)** married last May 21.

2002

Jamie (Searcy) (M.E.) and **Michael (E.E.) Baker** announce the birth of their second child, Kayla Grace, last August.

Jason Childs (M.E.) and his wife, Tara, had their first child, Alexis Madison, on July 1.

Ryan Cross (C.E.) updates *Echoes* that he married Ashley Stewart in October of 2004.

Ryan Harris (Ch.E.) has been accepted to medical school at Wright State University.

Eric Anthony Hopf (C.S.) wed Sarah Margaret Powley last June.

Rebecca (C.E.) and **William Richardson (C.S./Math.)** and son Carter welcomed the latest addition to their family, Kristen Jade, on April 10.

David Stevenson (E.E.) and his wife, Jeny, welcomed son Elijah David into the family when he was born Sept. 22.

2003

Alison Bailey (E.E.) married Patrick Smith of Bellevue, Wash., on May 29.

Chris Bratten (M.E.) has finished his master's in mechanical engineering at Purdue University. He served as the technical editor for *RFID for Dummies*, which is

becoming a standard reference for getting into the world of RFID. He also started two companies in April – LEDesignz.com, a custom lighting applications company, and Faber Solutions, an RFID consulting company.

Matthew L. Isbell (M.E.) married Kristen Gayle Snedeker last May.

Frank Levinson (M.E.) and **Rebecca Kilgore (Ch.E., '05)** were married on June 11.

Corey Trobaugh (Chem.) and **Anne Trueblood (M.E.)** married April 30. [Editor's note: Anne and Corey were married in White Chapel, which was given to the college by Anne's grandfather, the late John White, a member of the class of '47.]

2004

Cyril Duffala (M.E.) and **Nicole Hartkemeyer (M.E.)** were married last February. Cyril is in the U.S. Navy and stationed in San Diego aboard the USS Mobile Bay.

Jeremy Jarvis (C.S.) has been named director of communications and technology by Little Red Door Cancer Agency in Indianapolis.

Duane Meyer (M.E.) married Abby Potter last March.

Robert Sills (M.E.) married Tonya Brueck last June. On the job front, Robert was promoted to design engineer from applications engineer at Ingersoll Machine/IMTA.

OBITUARIES

1935

James Carl "Cart" Nelson (M.E.) died May 12 at the age of 93 in Beaumont, Texas. He made his career in the oil refinery business. Survivors include his wife, Mary Ann Glover Nelson; daughters Eliza Ann Nelson and Margaret Nelson Primeaux; and son John Lockwood Nelson.

1936

Evans K. Newton Jr. (C.E.) died Aug. 17 in West Chester, Pa. Most of his career was spent as a project engineer for the Indiana Department of Transportation. Survivors include his son Evans K. Newton.

1938

William A. Serban (Ch.E.) died April 17. He was 89 and a resident of Terre Haute. Survivors include a daughter, Dorothy Johnson, and a son William. He was a retired officer at Wabash Products.

John Hayden Wilson

(C.E.), 87, died April 17 at his home in Fort Collins, Colo. He ran his own general contracting business in the Chicago area and built public facilities throughout the Midwest. Survivors include his son, Bill Oldacre, and a daughter, Juliette Wilson.

1939

Robert N. Ladson (Ch.E.) died April 12 at the age of 87. He was a retired colonel in the U.S. Army. Survivors include his wife, Norma.

1941

William Johnson Anderson (E.E.), died June 7 at the age

of 86. His career was spent in the electronics industry (Rockwell International and Zenith), and before he retired he was owner and president of Data Devices Inc., electronics distributors and manufacturers representatives. He had been cited in "Who's Who in Engineering" for his work with Sandia National Laboratory supporting America's World War II effort. Survivors include his wife, Caroline, his son, Kurt, and his daughter, Christine Schulman.

1942

Harold B. Frist (M.E.) died Aug. 16 in Jackson Hole, Wyo. He was 84 years of age. Survivors include his wife, Beulah, and a daughter, Lisa A. Frist-Drenth. He was employed by General Motors/Allison Gas Turbine.

1943

George Douglas Blakey (M.E.) died last February at the age of 88. He was a retired technical engineer at Sperry Rand for 35 years. Survivors include his wife, Eleanor, and daughters Janet Hughes, Dorothy Priester and Kathryn Griffith.

Joseph P. Pipp Jr. (E.E.), 83, died Sept. 18. He was employed by GE in the power transformer department until his retirement in 1984. He is survived by three sons: Michael, Kevin and Timothy; and a daughter, Holly A. Donelson.

1946

Kenneth W. Barker (Ch.E.) died Aug. 26 at the age of 80. He had been a chemical engineer at Allison's in

Indianapolis. He is survived by his wife, Esther; daughters Beverly H. Lanham and Esther A. Barker; and a son, Kenneth Barker.

1949

Jesse Walter Cook (M.E.), 81, died Aug. 13. He was the former operator of Cook Concrete Products in Terre Haute, and he also ran J.C. Randall Inc. in Houston, where he was still active at the time of this death. Survivors include his wife, Norma, and three sons, Randall, Bradley and Brian.

1950

Gerald "Gerry" C. Laxen (E.E.) died Aug. 6 at the age of 80. He was owner of Quality of Engineering in Indianapolis for many years.

1951

Robert G. Greminger (M.E.), age 78, died last May at his residence in Richmond, Ind. The bulk of his career was spent at Bleden where he worked for 36 years. Survivors include two sons, Mark and Kurt.

1952

Richard Englum (M.E.), 75, died in December of 2004, according to a report recently received in the alumni office.

Robert E. Heckelsberg (C.E.) died July 21 in Columbus, Miss. Survivors include his wife, Wilma, two daughters Linda Boyle and Jean Chernosky, and a son, Duane Heckelsberg.

1953

Richard F. Grubaugh (Ch.E.) died July 21 at the age of 72. He was employed

as a chemical engineer and retired from Amoco Plastics. Survivors include his wife, Edna Fay, and a son, Matthew Blake.

1964

David E. "Gene" Lovelace (Math.) died July 29 at the age of 63. His career included stints at the Krannert Institute of Cardiology and Qualitech Steel.

1993

Mark W. Williams (C.E.) died Aug. 25 at the age of 34. Survivors include his wife, Robin. He was president of Williams Industries at the time of his death.

FACULTY

Benjamin Benjaminov Benjamin Benjaminov, professor emeritus of chemistry, died at the age of 82 on Jan. 12. He was a professor of chemistry at Rose-Hulman from 1959 to 1990, and continued to serve the college and the Terre Haute community during his retirement. During and after his career at Rose-Hulman, he taught organic and biochemistry for 22 summers at Indiana University in Bloomington.

For three decades, Benjaminov served as the only chairman of the Rose-Hulman Fine Arts Series and the Visual and Performing Arts Committee, organizations he created out of his passion for the arts and his belief that science and engineering students should learn to appreciate the arts.

In addition to his work on behalf of the arts on campus, he served as president and board member of the Terre

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Elaine Holler, rear seat, prepares for her Indy Car two-seater ride at the Indianapolis Motor Speedway. Her husband, Greg ('79) won the raffle for the ride at the Summer Golf Outing and gave it to Elaine.

continued on Inside back cover

GRAPPLING WITH THINGS PRESIDENTIAL AND RESIDENTIAL IN 1882

by John Robson, Librarian and Archivist

“Resolved that Prof. Charles O. Thompson...be elected President of the Faculty of the Institute...and that his salary be fixed at Four Thousand Dollars per annum, with the free rent of a residence.” Board of Managers, February 20, 1882

No doubt, it seemed only reasonable to the Board in 1882 to provide housing to the new president coming all the way from Worcester, Massachusetts. He hadn't been keen to come to Terre Haute in the first place, so the Board wanted to make the offer even more attractive.

In 1882 the task fell to Board Secretary Samuel Early to work with a committee of the Board in finding an appropriate home.

His correspondence with Thompson, who was in Europe much of the time, illuminates the problems of using the U.S. mails to resolve issues.

A suitable house was on the market. Located at 8th and Chestnut, one block east of Chauncey Rose's Greek revival residence, the mansion of the recently widowed Mrs. Ryce was for sale. The Board purchased it for \$8,000 in May 1882 with little input from Mr. Thompson, but he did at least see it. Early was very pleased to write on June 17th with room dimensions for each room. Four days later (the mails were faster then) Early responded to Thompson's last letter with yet more detail on fireplaces, heating, sinks and “a couple of conveniences in the cellar...one was an open rack, several shelves high, for milk crocks,” [June 21, 1882]

So far, all seemed amicable. Seven days later, no doubt in another Thompson letter, the new president started making suggestions for improvements. Early replied, “Your suggestions about your house will receive all due consideration, of course. The Board will, however, I think be inclined to limit their expenditure to about \$1000.00, having been compelled to pay \$500 more for the house than was at first supposed it could be bought for.” [June 28, 1882]

Thompson's furniture arrived by rail July 1st, in good condition. Early was considering whether to buy any of the pieces of

Mrs. Ryce's furniture that Thompson wanted based on the advertisement of June 18. But the president's needs were becoming an issue. “I have noted very carefully your wishes with regard to the proposed alterations in the house, and shall give Mr. Earle's [Thompson's Massachusetts architect] plans all due study...Unfortunately such changes are invariably more costly than original constructions and architects' estimates uniformly low. But I will do my best to secure the essentials, at least. The laundry, with a room over it, was expected by the Board, but not the changes in Dining Room, or anything involving tearing down and rebuilding.” [July 3, 1882]

This was the last letter received before President and Mrs. Thompson left for an extended study tour of European technical institutes.

A week later Early wrote, “I received a letter from Mr. S.C. Earle, the architect, this morning, but it gave no notion of the proposed changes in the President's House. It contained merely tracings of the house cannot you, yourself, give me a statement of what you wish done, leaving it to me to have

it accomplished as nearly as possible, and drop the architect altogether.” [July 10, 1882]

Early then wrote to the architect July 12th discouraging him from investing any more time because of the parsimonious Board. However, on a happier note, “the sale of Mrs. Ryce's furniture etc. took place on the 18th. I succeeded in obtaining everything you wished, and some other matters I thought you ought to have...The refrigerator is a first rate one and, my aunt says, most economical in the consumption of ice.” Being a careful man, he added “I will put a cousin there to sleep as a protector to both house and contents, and intend to have the carpets taken up, beaten, and protected against moths in some way.” [July 20, 1882]

Six days later the subject had turned to dividing the stable for extra space. “By dividing off the southern end of it, spacious laundry can be made on the ground floor, with a room on the second floor for a man, if you should desire to keep one.” [July



The first president's house as a funeral home in the late 1960s or early 1970s.



Architect's drawing

Looking Back cont...

26, 1882] The real problem seemed to be Thompson's desire to add a sixth bedroom [maid's room] to the rear of the first floor, adjoining the kitchen. Big change!

We know that in the end the architect was retained. In September Early wrote that the builders were at work and that four rooms had been added to the already substantial home and major changes to the dining room and master bedroom “...while closets, pantries, wash stands and sinks will be placed where needed.” [September 6, 1882]

Bad news came to the exasperated Mr. Early two weeks later when Thompson sent a cable saying to stop all work. He replied, “It is too late. The work on the laundry and man's room is done, and the walls of the extension and of the new dining-room are half-way up, all materials for other changes are purchased and the work so far progressed that it cannot be arrested.” [September 18, 1882]

By October 9, Early was explaining that he had to go with his best ideas and hoped that the Thompsons would approve. Winter was fast approaching. One cannot lay brick and plaster in Terre Haute after mid-November – too cold.

Worse, he wrote three days later after receiving a highly critical letter from Thompson, “Your objections to my plan for your house have disturbed me very much ...I did not understand that you desired 7 chambers exclusive of a room for a man servant....You must understand that I have labored, in this mat-

ter, almost single handed and under the restraint of limitation as to means, and that I did the best I could. Had you not been so hurried, when on your visit to Terre Haute, and given us more time to understand

your desires...perhaps the difficulties might have been diminished.” [October 12, 1882].

In the end, the President was provided with an imposing residence that must have met most expectations. Unfortunately, Thompson lived to enjoy his residence for only two years, dying in March 1885. While his body was returned to Massachusetts for burial, his widow remained in Terre Haute for at least five years. After the next president, Thomas Corwin Mendenhall (1886-1889) resigned, Mrs. Thompson again resided in the president's house according to the city directory. Sometime in the 20th century the house was sold and became the residence of Anton Hulman, Sr., father of Tony Hulman – an interesting coincidence. The house, demolished in the late 1960s or early 1970s, served many years as the Gillis Funeral Home. ■

Obituaries continued...

Haute Symphony Orchestra for more than 20 years, and also served as board member for Arts Indiana.

His many memberships included the American Chemical Society, American Association of American Professors, Indiana Academy of Science and the United Hebrew Congregation of Terre Haute, where he served on the board, and the Aiance Francaise, which he served as president for two terms.

Survivors include his wife of 58 years, Renee Zemach Benjaminov; one daughter, Deborah J. Gurman of Terre Haute; one grandson Loren Gurman; two granddaughters, Whitney and Rachel Gurman; one brother, Albert Benjaminov of Israel; two nephews, Adi and Ofer Benjaminov; brother-in-law, Joseph Srulovitch; and one niece, Tanna Srulovitch of Israel.

ALUMNI EVENTS

Contact Brian Dyer or Carey Treager Huber for more information on all the events listed below.
Phone: 800-248-7448
Email: brian.dyer@rose-hulman.edu or carey.huber@rose-hulman.edu
Web: www.rose-hulman.edu/alumni-affairs

February 17 Alumni Association Advisory Board Meeting Indianapolis	February 26 Alumni Dinner Orlando, Florida	April 1 Alumni Dinner Cincinnati, Ohio	April 8 Alumni Event Southwest Indiana
February 18 G.O.L.D. Ski Outing Lawrenceburg, Indiana	March 10 G.O.L.D. Social Fort Wayne, Indiana	April 1 Alumni Dinner San Francisco, California	April 29 Young Alumni Council Terre Haute
February 24 Alumni Meeting Lido Beach, Florida	March 11 Alumni Luncheon Fort Wayne, Indiana	April 7 Alumni Luncheon Columbus, Ohio	May 12 Alumni Association Advisory Board Meeting Terre Haute
February 25 Alumni Dinner Graduates of last decade Tampa, Florida	March 31 G.O.L.D. Social San Francisco, California	April 8 Alumni Event Cleveland, Ohio	

continued on next page



PARTING SHOT

Freshman Joe Craycraft, Bloomington, Ind., scales his way to the top during the Climbing Wall Challenge as part of this academic year's New Student Orientation Outdoor Adventure. Helping him climb the wall were his fellow classmates living on the first floor of Speed Hall.

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