PARTING SHOT

Commencement 2007 brought out the confetti as members of the Class of 2007 were declared graduates of Rose-Hulman Institute of Technology this May. A record-sized class received diplomas this year.

CAREER ACHIEVEMENT

Meet the Class of 2007

ADVANCED TRANSPORTATION INITIATIVE

Teams Find Success in Performance, Design
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*The ingredients here are in place. Take the leadership to the next level; put the ingredients together and change the culture of engineering education.*

—George Peterson, executive director of ABET, the accrediting agency for engineering education, addressing President Gerald Jakubowski during the installation ceremony of the inauguration.
Rose-Hulman has received wireless equipment, faculty stipends and technical support from Hewlett-Packard and Microsoft Research to improve student achievement. Support from these two companies continues to recognize the college as a leader in the field of tablet PC and collaboration-facilitating software pedagogies, according to Art Western, vice president of academic affairs.

The HP Technology for Teaching Grant is designed to transform teaching and improve learning in the classroom through innovative uses of technology. The grant provides a set of new tablet PCs and other equipment, as well as a summer support for faculty involved in the project. Faculty members named in the grant were Arubha Chidanandan of computer science and software engineering, David Fisher of mechanical engineering and Matio Simoni of chemical engineering.

Rose-Hulman has received support from Microsoft Research for the second consecutive year for the “Evaluating the Synergism of Pen-based Computing and Collaboration-facilitating Software in the Classroom” project. Faculty members spent the 2006-07 school year assessing the impact of tablet computers and collaboration software on faculty pedagogy and student learning. In 2007-08, faculty will study such issues as “Facilitating Collaboration Between Language Teachers and Learners,” “Encouraging Student Collaboration in Biomechanics” and “Medical Imaging Virtual System Design with a Tablet PC.”

The HP and Microsoft Research projects will involve a substantial assessment component managed by the Office of Institutional Research, Planning and Assessment.
The project is at the cutting edge of fuel technology in that it is using a biodiesel as a two-cycle engine oil additive,” Mueller said.

The green two-cycle engine oil project is significant because it supports renewable oil development as an alternative to fossil fuels, according to Cunningham.

Further work may involve fuel design such as an E85 containing biodiesel instead of gasoline, an ethanol-biodiesel blend, and the new two-cycle engine fuel. Two-cycle engines are used in grass trimmers, chain saws and outboard motors. Students play an integral role to the project and will gain valuable hands-on experience through operating engine tests, tracking key engine performance and operating parameters, and completing engine tear-downs and inspections. The research group includes junior chemical engineering major Matt Colchin, Doug Hale and Chad Whitaker, and Ben Collins, a junior chemical engineering and mechanical engineering major.

O’Neal is vice president of marketing and business development for San Diego-based Proximity, Inc. He graduated from Rose-Hulman in 1984 with a bachelor of science degree in electrical engineering. O’Neal earned his MBA and law degrees from Southern Methodist University, where he is currently a member of the Cox School of Business Alumni Board.

A WiMax pioneer, O’Neal has over 20 years experience in telecommunication, and as a leading spokesman for broadband wireless issues worldwide. He began his career with Western Bell and O2X. Prior to joining Proximity, he was vice president of marketing for Abration and also Ensemble Communications, where he helped build the WiMax market from its very beginnings starting with Texas Instruments.

Two alumni have been selected as new academic department heads.

Anita Anderson has been named head of the Department of Engineering Management and Michael Mueller has been selected as the new head of the Department of Chemistry.

The Department of Engineering Management offers a master’s degree in engineering management and an undergraduate minor in entrepreneurship as well as popular degree options to provide management and entrepreneurial skills for the engineer and scientist. Anderson succeeds Prof. Tom Mason, who directed the creation of the department in 1995, and has served as its only department head. Mason will return to full-time teaching in engineering management and economics following a sabbatical during the 2007-08 academic year.

Anderson joined the Rose-Hulman faculty in 2004 as associate professor of engineering management. She teaches courses in organizational management, supply chain management, entrepreneurship, introduction to engineering management, integrated project, graduate seminar and multidisciplinary entrepreneurship design. Prior to joining the Rose-Hulman faculty, Anderson taught at Arizona State University and gained extensive industrial and managerial experience in the United States and internationally.

Mueller, associate professor of chemistry, has been a member of the Rose-Hulman faculty since 1990. He teaches courses in general chemistry, physical chemistry, chemistry honors, quantum chemistry and molecular spectroscopy, undergraduate research and advanced physical chemistry. Mueller is currently working with undergraduate students on a research project to test a new renewable resource-based two-cycle engine oil additive. Mueller is being assisted on the project by Pat Cunningham, assistant professor of mechanical engineering at Rose-Hulman.

Before joining the Rose-Hulman faculty, Mueller taught in the Department of Chemistry and Biochemistry at the University of Texas at Austin. He is the author of five textbooks in physical chemistry with Molecular Spectroscopy and Electronic Structure Computations. He earned the Ph.D. in physical chemistry from the University of Texas at Austin, and the bachelor of science in chemistry from Texas A&M University at Kingsville. Anderson and Mueller were chosen for their department head positions following nationwide searches.

Two Rose-Hulman Institute of Technology alumni have been selected to the college’s Board of Trustees. Attending their first trustee meeting in May were William Olah and Carlton O’Neal. Olah is a partner in the Terre Haute law firm of Wilkinson, Goeller, Motez, Wilkinson and Drummy LLP. He heads the law firm’s business section and serves as counsel to business entities and their principals in the areas of business mergers and acquisitions. He also has extensive experience in real estate development, leasing, zoning issues, and tax abatements. He advises clients about federal and state tax issues including trust and tax planning. Olah has represented clients before a variety of administrative agencies and courts including the United States Supreme Court.

Two alumini were chosen for the Student Alumni Association committee. He also has membership in the American, Indiana State, Seventh Circuit and Terre Haute Bar Associations.

Mueller, head of the Department of Chemistry, and

for the past several years, she coordinated national symposia on homeland security technologies. Anderson presented the first symposium on engineering entrepreneurship at the American Association for the Advancement of Science national meeting. Anderson earned the Ph.D. in industrial engineering from Arizona State University.

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A record 422 Rose-Hulman graduates received degrees during the college’s 129th commencement May 26 and were challenged to use their technical and scientific expertise to take the lead and be proactive in their careers and personal lives.

422
Rose-Hulman graduates received degrees.

3,100
people estimated in the 2007 graduation crowd.

7
seniors earned a perfect 4.0 during their careers.

### FACULTY FOCUS: ENGLISH PROFESSOR RECEIVES FULBRIGHT AWARD TO LECTURE IN LEBANON

Rose-Hulman Assistant Professor of English Rebecca Dyer will lecture and do research at Lebanon American University who has earned the highest grade point average during their four years at Rose-Hulman. Each recipient earned a perfect 4.0 grade point average:

**Recipients:**
- Robert Lauer, electrical engineering and mathematics
- Amanda Rohrer, mathematics and chemical engineering
- Fargo, North Dakota
- Thomas Werner, electrical engineering and mathematics
- Furdinand, Ind.
- Amelia Mar Ehrlich, chemistry, Indianapolis, Ind.
- Brian Thompson, an electrical engineering major from Gloucester, Va.
- Scott Ruarkap, computer engineering major from Dodge, Nef.
- Guzhang Vrougopoulou, a mechanical engineering major from Franklin, Wn.
- Others students honored were Stephen Lewis, Canton, Ohio, who was presented with the John Buckle Award; Robert Banty, Middletown, Ind., received the Herman Moersch Distinguished Senior Commendation; and Marc Hans-Martin Schweide, Willem, Germany was named the recipient of the award for the most outstanding master’s thesis. He received a master’s degree in optical physics, was honored for his distinguish service to the Indiana Section of the American Association of Physics Teachers. He has served three different terms as president of the Indiana Section and a section member for more than 35 years.

**Other Students:**

- Dennis Paustenbach, head and professor of applied biology and biomedical engineering, is a finalist in the Education Contributions to Technology Award for Innovative Contributions to the Liberal Arts within Engineering Education.
- Gautham Venugopalan, a mechanical engineering major from Ferdinand, Ind.
- Andreas Michel, associate professor of German, continues to serve as president of the Triangle Fraternity’s Men of the Century for serving as a model of extraordinary Triangle excellence and inspiration to alumni and current members. The Men of the Century award was created to celebrate the 100th anniversary of Triangle, a fraternity that limits its membership to students majoring in engineering, architecture and the sciences.
- Jennifer O’Connor, assistant professor of applied biology and biomedical engineering, was selected a 2006-2007 Scholar-in-Residence by the American Society for Microbiology (ASM), the oldest and largest organization devoted to a single life science in the world.

Amy Liveays, associate professor of applied biology and biomedical engineering, was elected a Fellow for the National Effective Teaching Institute of the ASEE’s Educational and Research Methods Division. She was also elected to the directing board of ASEE’s Design in Engineering Education Division.

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Management guru Peter Drucker has said, “The best way to predict the future is to create it.” I am pleased to report the creative process is in full swing at Rose-Hulman. Our future awaits!

As I enter my second year as Rose’s 13th president, I am able to share with you that your institution is hard at work developing plans in response to societal needs, including the needs of our future students, the technological professions, and those companies that continue to aggressively seek our graduates. For more than 130 years, Rose-Hulman has proven its capability to succeed and to evolve, meeting and leading change in the educational community. Once again, Rose-Hulman must evaluate its options to respond to several external influences, including globalization of the marketplace, new technologies; the need for renewable energy sources such as wind and solar energy; the call for cleaner air and water along with the need to deal with global warming; evolution of engineering content that includes prefixes such as “bio,” “nano,” “info,” and “maco;” more interconnectivity and crossover among traditional engineering disciplines; calls for education reform to attract more people to engineering, science and mathematics education; the increasing importance of lifelong learning; increasing competition from other outstanding educational institutions for students, faculty, staff and resources; and the growing need for well-educated problem-solvers in our society.

At first glance, that list might seem somewhat forbidding, but Rose-Hulman is more than up to the task. During the last six months, we have been crafting a strategic plan to meet those challenges along with others. Students, faculty, staff, academic and administrative leaders, and the Board of Trustees have devoted countless hours to developing the plan. The planning process has focused on being the best in every aspect of an academic institution. However, being excellent isn’t enough. Excellence in the absence of relevance is self-defeating. Our planning process has focused on being relevant as we seek to create a strategic plan that builds on its current strengths and capabilities while embracing new practices, pedagogies, and commitments. That approach allows us to meet dramatic and pervasive external forces, challenges, and opportunities that will challenge us to retain our educational leadership.

When completed, this strategic plan will guide Rose-Hulman as it provides our students with the relevant set of skills, values, aptitudes, experiences, and knowledge to realize their complete potential as the problem-solvers and leaders of tomorrow. Our alumni are well-rounded, capable individuals who are adept at communicating and at working within team environments. Rose-Hulman alumni understand the impact they have on society both professionally through their careers and personally through contributions to their communities.

Our graduates are special people because they come from a special place. In the last issue of Echoes, I spoke to the characteristics that distinguish Rose-Hulman from its peer engineering, science and mathematics institutions across the country. The six characteristics that set us apart from other similar institutions are: exceptional students; top-quality faculty and staff; a strong curriculum; a “hands-on, project-based approach to learning; co-curricular activities; and the spirit of the Rose-Hulman community.

As we plan for the future, we must hold true to those six characteristics that define this special place we know as Rose-Hulman Institute of Technology. It would be easy to stay where we are, but eventually we would fall victim to our own success by failing to grow and seek new horizons. I find much wisdom in the writing of Lester Thurow, former dean of the MIT Sloan School of Management: “Systems obviously need to be rebuilt when they fail, but they often need to be rebuilt when they succeed. But it is much harder to change if the need for change is generated by success. Success changes the nature of the environment and requires change if success is to continue.”

Rose-Hulman must emerge with an overall plan that builds upon its current strengths and capabilities while embracing new practices, pedagogies, and commitments. That approach allows us to meet dramatic and pervasive external forces, challenges, and opportunities that will challenge us to retain our educational leadership. When completed, this strategic plan will guide Rose-Hulman as it provides our students with the relevant set of skills, values, aptitudes, experiences, and knowledge to realize their complete potential as the problem-solvers and leaders of tomorrow.

The Rose-Hulman athletic department presented Ruel Fox Burns Blankets to seniors Suzy Carlson, Rebekah Forsyth and Ryan Schipper to highlight the 2007 Athletic Honors and Awards Banquet. The Ruel Fox Burns Blanket, presented to the department’s top senior male and female athletes as voted by the coaching staff, has been presented to outstanding Engineer student-athletes since 1968.

Carlson graduated with women’s basketball career school records in assists (320), (1,062) and steals (185), along with marks for made field goals (663) and free throws (428). She ranks third all-time with 3,311 points and 154 steals and is second all-time with 153 three-pointers and 406 free throws made. Forsyth established women’s basketball school records for points (1,779), rebounds (1,062) and steals (185), along with marks for made field goals (663) and free throws (428). She ranks third in school history with 216 assists and 93 blocked-shots, and holds the top four individual scoring games in school history. Schipper earned All-American honors at the NCAA Division III Outdoor Track and Field National Championships in his fourth attempt at a national meet this spring. He finished third overall in the pole vault, after recording placements of ninth, ninth and tenth at title meets in his career.

CARLSON, FORSYTH, SCHIPPER WIN RUEL FOX BURNS BLANKETS

The Rose-Hulman senior pole vaulter Ryan Schipper capped his career with All-American honors and a third-place finish at the 2007 NCAA Division III Track and Field Outdoor National Championships. Schipper cleared 15’ 9 1/4” on his first attempt, after previously clearing 15’ 3 1/2” on his first try. He tied for third-place with two distinguished vaulters, Zach Johnson of Wisconsin-Oshkosh (cleared 17’ 1 1/2” earlier in the year) and Matt Novak of Wisconsin-La Crosse (the defending national champion). “The wind made things a little difficult, and an extra day waiting in the hotel was tough on all the vaulters. I’m real proud of Ryan’s accomplishments and this is a great way to cap his career,” said Rose-Hulman head coach Larry Cole. Schipper earned the 36th All-American award in Rose-Hulman’s track and field history and became the 37th different student-athlete in Fighting Engineer athletic history to achieve All-American status.

In addition, Schipper captured the 14th All-American honor in Rose-Hulman’s pole vault history that includes two national championships by 1998 graduate Ryan Loftus. Ryan’s brother Andrew claimed on All-American honors in his career.

The effort marks Rose-Hulman’s highest finishing track and field All-American award since Andrew finished second in the pole vault at the 2003 NCAA Division III Indoor National Championships at DePauw.

The Rose-Hulman athletic department has now combined for 59 All-American awards in its history, counting Schipper’s effort. The most recent All-American was third-team football honoree Adam Helmerich earlier this year.
When Chauncey Rose founded Rose-Hulman Institute of Technology in 1874, he turned to friends and business associates to make his vision a reality. They came together with ideas, energy and financial resources to start what would become one of the nation’s leading undergraduate engineering, science and mathematics colleges in the country. That foundation of friendship continues to play a vital role 133 years later.

I would like to extend a big THANK YOU to all the “Friends of Rose-Hulman.” Individuals, corporations and foundations are very important members of our family as we educate and build future contributors and leaders in our society. In today’s world, no one can do it alone—especially a small, private college. So the willingness of our friends to join with us in providing the best undergraduate education in engineering, science and mathematics is a cornerstone of any success we have.

Obviously we THANK YOU for providing financial support to help the brightest and best students find a way to attend Rose-Hulman. The need for scholarship dollars has never been greater, and we hope your support will continue to help us attract the best high school students from the region, country and world. Also, your economic support of programs and physical assets is key to our ability to allow students access to the latest trends in our fields of endeavor and prepare them to be productive in your environment as they leave here to meet the needs of the workplace and community and the challenge of realizing their dreams.

We THANK YOU for your willingness to participate in advisory groups at all levels, providing us pertinent information about the trends and needs in your world and giving us the opportunity to be on those leading edges with you. Your input is vital to helping Rose-Hulman maintain an educational experience pertinent to the needs of our society and our students.

We THANK YOU for the opportunities and responsibilities you give our young alumni to contribute to your operations and to your communities. We are extremely proud of their accomplishments because they have an instant impact upon graduation. Their success stems, in part, from the education they received at Rose-Hulman. I am convinced that through their success, the Rose-Hulman “product sells itself.”

Our audience continues to widen through geographic placement and growing reputation. We have an alumni presence in all 50 states and 38 foreign countries. Our admissions pool is branching out as well. Fifteen years ago, 66 percent of our students came from Indiana. Today that number stands at 42 percent.

We THANK YOU for your willingness to engage with our faculty and staff to provide “real-world” projects and activities which are extremely critical in our practical “hands-on” type curriculum. We are committed to having every undergraduate participate in at least one such opportunity. This enhances the learning process in a way emphasized in the following Chinese proverb:

“Tell me and I’ll forget;
Show me and I may remember;
Involve me and I’ll understand.”

The hands-on nature of our education is a sure path to understanding for our students. Also, we appreciate the interaction our professors have with industry. It is critically important to our success as our faculty bring the real world to the classrooms and labs at 5500 Wabash Avenue.

Most importantly we THANK YOU for just being a “Friend of Rose-Hulman.” We hope this provides you a meaningful, positive experience that you will share with others who might think they could be able to help us along this continuing journey. The opportunities to share and grow are boundless, and we certainly want to do our part by providing an attitude and environment to work together to create the best young citizens and leaders of the future.

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THANK YOU.
Advanced Transportation Group: Student projects in Rose-Hulman's Advanced Transportation initiative showcase their vehicles. The initiative includes the Challenge X team, efficient vehicles team, human-powered vehicle team, Team Rose Motorsports and Design/Build/Fly team.

TEAMS EARN TOP HONORS, KEEP STUDENTS & FACULTY ON CUTTING EDGE

Rose-Hulman Institute of Technology students showcased their design and teamwork skills, along with their competitiveness and ingenuity, to earn team and individual honors at national engineering competitions that concluded the 2006-07 academic year. Successes include:

The Challenge X team brought home top honors for community outreach and technical merit after concluding the third year of the Challenge X: Crossover to Sustainable Mobility. North America’s premier college-level automotive engineering competition. Rose-Hulman was one of only 17 colleges selected to participate in the event, organized by General Motors Corp. and the U.S. Department of Energy.

The Rose-Hulman Efficient Vehicles team won the collegiate division of the Society of Automotive Engineers’ annual Supermileage competition, achieving 1,541 miles per gallon in fuel efficiency to top 30 North American colleges and universities. Earlier, the team placed second in the Shell Eco-Marathon American Challenge at the California Speedway (Fontana, Calif.), getting 1,637 mpg with another motor configuration.

The Human Powered Vehicle team pedaled to a second-place finish out of 23 teams in the American Society of Mechanical Engineers’ 2007 East Coast championships in Cocoa, Fla. The team’s sleek, one-person vehicle sped up to 36 mph in the men’s sprint race while going 26 mph in the female event.

Rose-Hulman’s new American Institute of Aeronautics and Astronautics student organization designed and assembled its first unmanned, electric-powered, radio-controlled aircraft for the AIAA’s undergraduate Design/Build/Fly competition in Tucson, Ariz. All four of these teams joined Team Rose Motorsports, a competitive drag racing club, as part of Rose-Hulman’s Advanced Transportation System initiative, which strives to give students valuable educational experiences through hands-on classroom and extracurricular programs. This initiative is supported by several technology-driven company and industry sponsors, and individual donors.

Several key components of this year’s student competition teams were developed through classroom and independent study design projects, and teams shared technology and design ideas to give them cutting-edge advantages in their competitions.

A new model-based system design curriculum is being developed in four key educational areas: software, processor, integrated processor system and integrated subsystems. The curriculum teaches students how to develop a mathematical plant model and system controller using Simulink and Stateflow software, according to Zac Chambers, associate professor of mechanical engineering. He works with Marc Herniter, associate professor of mechanical engineering, on developing the curriculum.

Turn the page for more insight on each student project area in the Advanced Transportation System initiative.
Comments from Challenge X judges included: “Rose-Hulman has developed a real program in hybrid vehicles” and “I can’t believe you did this in eight months.”

The team has been creative and innovative to overcome challenges faced by the use of alternative fuels, according to Herniter, the other co-faculty advisor.

“The competition has uncovered exciting new technologies for our students that will further the world of automotivedesign and help us cross over to sustainable mobility,” he said.

Electrical Integration Systems Team Leader Joseph “Rusty” Berg, a 2007 graduate, stated: “The practical experiences have been enormous. There are a lot of things you learn while turning a wrench or trying to put everything back together again. The Challenge X project has been the capstone of my college education—putting everything together in a comprehensive package.”

Rose-Hulman received the Outstanding Outreach Award and the MathWorks’ ‘Crossover To Model-Based Design Award, while placing second for Freescale Semiconductor’s Silicon On The Move Award and third for National Instruments’ Most Innovative Use of Graphical System Design. Team member Kristina Lawrey, a senior mechanical engineering major, earned the Incoming Women In Engineering Award from the Lyn St. James Foundation—the second consecutive year that a Rose-Hulman student has been recognized. The team received $4,750 from Challenge X sponsors for its award-winning efforts.

In only its second year, the human-powered race team has risen to become a national contender as quickly as its vehicle has raced around the track. Besides its second-place finish in the ASME regional, the team was the only college team that participated in the Nissan One Hour Challenge during Spring Break in Casa Grande, Ariz.
“Never before has the mission of this college been more important to our students, to Terre Haute, to our state and to our nation than it is today and will be tomorrow.”

President Gerald S. Jakubowski, Inaugural Address, April 27, 2007

The increasing national reputation Rose-Hulman Institute of Technology has earned the past two decades has created expecta-
tions of the college to achieve a higher level of educational leader-
ship, overall excellence and increased impact on the world, Rose-
Hulman President Gerald Jakubowski said during his Inaugural
Address.

Jakubowski urged the Rose-
Hulman community to “dream and to dream big. We are not limited by our ideas, we are only limited by time and resources,” he told a crowd of 1,100 who attended his official installation as the 13th president of Rose-
Hulman. Among those attending the ceremony were 32 delegates representing colleges and univer-
sities ranging from Harvard
University in Boston to Loyola Marymount University in Los
Angeles. Speakers included representatives from national educa-
tion organizations, Rose-Hulman faculty, staff, students and alum-
ni; as well as members of the Terre Haute community. Former
Rose-Hulman President Samuel Hulbert was among the honored
guests and spoke at the ceremony.

Jakubowski dedicated his inauguration to his deceased parents,
Chester and Pauline. He noted that he was the first person in his
family to attend college after being urged throughout his forma-
tive years by his parents to become an engineer.

He said Rose-Hulman should adapt its educational programs to changes occurring in the engineering and science professions. Trends that include sustainable, renewable sources; continued globalization; and broader career options for graduates.

Jakubowski said Rose-Hulman has an obligation to continue “our legacy of excel-

ence created by past contributions made by many others during the history of this college.” He cited Chauncey Rose, the
Hulman family, Carl Mees, Herman Moench and Samuel F. Hulbert to whom he directed special praise.

“Sam, your devotion and leadership to this institution will forever be remembered for the incredible impact you had on mak-
ing Rose-Hulman what it is today, and the extraordinary influence you continue to have on Rose-Hulman and its people,” Jakubowski stated.

Jakubowski said Rose-Hulman must give serious thoughts to its role as a leader. “In many aspects, we have been a leader in engineering and science educa-
tion, and we are seen as an educational leader by other institutions. However, our leadership role has to expand and grow. Leadership should be at the core of everything we strive to accomplish,” he emphasized.

He cited the leadership of alumni, faculty, staff and students. Jakubowski singled out alumni who have been honored at the White House as some of the nation’s most important engineers, and young alumni who are working on the latest mis-
sions to explore Mars. Faculty and staff were praised for not only being exceptional professionals, but for their deep concern for the well being of Rose-Hulman students.

He described as “amazing” the talents of Rose-Hulman stu-
dents that go beyond their academic abilities to the excellent tal-
ents they exhibit as singers, actors and actresses, and their concern for helping others in this country and internationally.

He said Rose-Hulman should adapt its educational programs to changes occurring in the engineering and science professions. Trends that include sustainable, renewable sources; continued globalization; and broader career options for graduates.

“The technical and scientific talents of students like those in our audience today, and those we will educate in the future, will be critical to the future quality of life in America including our economic strength, prosperity, health, security and our role as a global leader,” he remarked.

Jakubowski concluded his 30-minute inaugural speech by saying, “Together we have much to do. Together we have many dreams to achieve. If we think big, big things will happen.

“I’m very optimistic about the future of this institution. We have an exceptional team here at Rose-Hulman. It’s my privilege and honor to be a part of this team and this community.”

The Rose-Hulman Concert Band provide music for the installation ceremony.

A video of the entire 90-minute installation ceremony and photos highlighting the event can be accessed at Rose-Hulman.edu/president

1. Alumni Wesley Bolsen, Kelly Kozdras and Bryce Clark discuss “Science, Technology and Social Needs” during the Inauguration Symposium.

2. William Fenoglio, vice chair of the Board of Trustees, toasts President Gerald Jakubowski during a faculty/staff dinner.

3. The Rose-Hulman Chorus helped provide music for the ceremony.

4. Alumni Wesley Bolsen, Kelly Kozdras and Bryce Clark discuss “Science, Technology and Social Needs” during the Inauguration Symposium.
The symposium also included three panel discussions featuring 10 Rose-Hulman alumni. Panel discussion topics included "Entrepreneurial Skills and Technical Careers," "Careers in the Global Marketplace," and "Science, Technology and Social Needs — Responsibilities and Rewards." Faculty and staff were guests at an inauguration dinner the night before President Jakubowski's official installation ceremony.

Students enjoyed a wonderful menu during a reception prior to a show by engineer-turned-comedian Don McMillan. "One can readily see the challenge of this by looking at operating systems which have lines of code. How can one possibly know that it won't do something unexpected?" he asked. "That is...security it's not that the product not operate as intended, but also that the product not operate in unexpected ways that could harm security," Roback advised.

Roback is also involved in the E-Government program to leverage IT solutions to modernize and web-enable government services to increase government response to citizens and business, and enhance government-wide efficiency and effectiveness. With such an extensive list of responsibilities, Roback says his day-to-day schedule varies, although a few areas are always given priority. "Security, privacy, investment management, and headquarters IT support tend to be at the top of the list," says Roback, who earned his bachelor's degree in mathematical economics and computer science. "Roback's introduction to government service came at the end of his junior year at Rose-Hulman during a summer internship with the U.S. Department of State's information systems security office. After earning a master's degree in political science from the University of Illinois in 1985, Roback returned to the Department of State as a Presidential Management Intern. "I began my Federal career by accepting an offer in the Department of State's information systems security office, which was still a rather novel idea at the time," Roback recalls. "In many ways it was an ideal blend to use my computer science education from Rose in the arena of international affairs in government service. While there I wrote computer security policy for the department and conducted computer security assessments overseas," said Roback.

After four years at the State Department, Roback joined the staff of the Commerce Department's National Institute of Standards and Technology (NIST) in Gaithersburg, Maryland. Roback would become chief of the Computer Security Division at NIST where he was responsible for supporting the agency's role in protecting sensitive Federal information and promoting security in commercial information technology products.

During his tenure at NIST, Roback also worked to promote security in commercial information products which resulted in improvements to encryption standards that strengthened cyber security for ATM banking transactions and improved security for information on laptop computers. Roback was part of a team that was presented with a Gold Medal from the Secretary of Commerce for creating of the widely acclaimed Advanced Encryption Standard to enhance the security of E-Commerce and E-Government applications. In 2005, he joined the Department of the Treasury as Associate Chief Information Officer for cyber security. In this capacity, Roback served in an IT leadership position responsible for formulating security policy and procedures for protecting classified and unclassified systems, addressing the security challenges of the President's Management Agenda, promoting cyber security training and awareness, managing the classified IT security program, supporting cyber critical infrastructure protection, and operating the Treasury Computer Security Incident Response Center.

Roback is fulfilling that goal in an information technology management role that is vital to our nation's cyber security.
JOHN LUEKEN
Directs construction for McDonald's Restaurants

The famed Golden Arches aren’t added to McDonald’s restaurants across America before the involvement of John Lueken (Civil Eng., ’87), director of construction for the nation’s largest chain of quick-service restaurants.

Since 2005, Lueken has led the U.S. Construction Department and helped establish profitable strategies for over 13,000 current locations, including assisting with the redesigning of restaurants for the introduction of the “Forever Young” brand — the first major redesign since the 1970s. He leads the development and implementation of construction technologies for 22 regional development teams including costing systems and web-based project management tools. He also assists in setting global procurement strategies in his leadership of the construction purchasing group, leads corporate Americans with Disabilities Act efforts, and serves as corporate counterpart for the Ronald McDonald House Charities initiative, Asian Business Vision and Hispanic Business Vision Place Teams.

Lueken’s efforts have been recognized with four company awards in his 13 years with McDonald’s USA, including the “Circle of Excellence Award” in 2005 and the President’s Award and U.S. Regional Construction Manager of the Year, both in 2003. He worked as an area and regional construction manager for the Phoenix and Southern California regional offices before joining the corporate leadership team.

Lueken’s engineering career started in Projects Department Manager for MasterBrand Cabinets, from 1987-1994.

“I love to build things,” said Lueken, a native of Ferdinand, Ind. “I am thrilled to have seen so many projects start with a bare piece of real estate and experience the transformation into a functioning development.”

MICHAIL RADOVSKY
At the forefront of pharmaceutical, biotechnology products

Michael Radomsky (Chem. Eng., ’87) has been at the forefront in the development and manufacturing of a wide range of new pharmaceutical and biotechnology products for large and small companies. It has been an exciting and rewarding ride.

“Research and development may be a tedious process, but the discovery of how things work and interact is why I became an engineer. It still fascinates me,” he says.

Since 2004, Radomsky has served as associate director of pharmaceutical sciences for Theravance, a 10 year-old pharmaceutical company based in South San Francisco that develops market-leading medicines. He leads the development of products that treat respiratory disease, Crohn’s disease, and autoimmune disorders.

“Today’s leader must be effective working and communicating to instill confidence in his team environment,” said Radomsky. “It’s all about trust and support.”

He has had primary responsibilities for the preparation, review and editing of a range of regulatory documents.

Radomsky’s technical expertise also includes the chemistry, manufacturing and controls for pharmaceutical products, along with current Good Manufacturing Practice (cGMP) knowledge.

After graduating from Rose-Hulman, Radomsky earned a Ph.D. in chemical engineering from Johns Hopkins University in 1991. He has worked for Syntex, Orquest, Epicyte Pharmaceutical and Arc Engineering — all based in California — before joining Theravance.

“Twenty years ago, I thought I would become a college professor. However, in graduate school, I fell in love with research. Right now, research and helping develop new pharmaceutical discoveries is where I can make a difference.”

Career Achievement AWARDS

DARIN MOODY
Eli Lilly leader stresses importance of communication

Eli Lilly English Professor Richard House couldn’t have been happier when Darin Moody (Ch.E., ’87) told House’s students that one of the most important skills they would need as engineers or scientists was the ability to be an effective communicator. “Poor decision can result from poor communications,” Moody told students in House’s technical communications class.

“Whether it’s the need to communicate effectively to comply with government regulations or to teach employees complicated procedures for the production of pharmaceuticals, Moody’s message was clear — writing and speaking effectively is vital to having a successful career.”

Moody’s 20-year career with Eli Lilly and Co. shows communications is an important characteristic of being a leader. “Today’s leader must be effective working and communicating in a team environment,” said Moody, who is executive director of Six Sigma, Global Manufacturing and Quality at Eli Lilly. “The pace of technical change is staggering. The ability to communicate change to others so they can adapt to it is critical,” he stated.

Moody’s career began as a process engineer contributing to the design, construction and start-up of manufacturing facilities in Indianapolis, Clinton and Lafayette in Indiana. He moved to assignments in environmental controls, manager of bulk manufacturing in Indianapolis and biochemical manufacturing. Moody was promoted to general manager of the Lilly production facility in Liverpool, England in 1992. Two years later, he returned to Indianapolis in another site leadership role before becoming executive director of global process and maintenance engineering where he was responsible for engineering and maintenance activities at Lilly’s facilities worldwide.

He’s now communicating with over 7,000 employees worldwide in his responsibilities which are focused on implementing the Six Sigma approach to improving operational execution in the areas of manufacturing and quality. Lilly has honored Moody for being a successful coach and mentor to numerous individuals in the organization and for excelling at a key strategic initiative in the bulk insulin manufacturing division. Well-deserved recognition that illustrates his effectiveness as a communicator.

GREG SMITH
Reving up strategies for the future of Harley-Davidson Motor Co.

The Harley-Davidson brand is one of the best known in the world. Its customers are well known for their loyalty to Harley-Davidson products. So, how do you improve upon the products that have such a strong brand and market share? That’s one of the questions Greg Smith (E.E., ’87) pondered each day. As director of operations strategy for Harley-Davidson Motor Co., Smith is creating the strategies to guide future decisions about manufacturing, assembly and supply chain investments.

Smith describes his work using the words cross functional, flexibility, corporate circles and vision. “The company must be adaptive and responsive to customer needs,” says the Illinois native, who was president of the student body during his undergraduate days and a member of Lambda Chi Alpha.

“We have to plan for operations flexibility,” he stated. “As an example, how flexible must our manufacturing be to meet customer demand?” Smith asks.

Smith’s career has taken him from manufacturing management posts at GE Aerospace and GE Aircraft Engines to a return to the classroom when he earned master’s degrees from MIT in management and electrical engineering. After a three-year stint at Motorola, where he contributed to the launch of cell phone products in the European market, Smith was hired by Harley-Davidson in 1996 to provide leadership for supply/materials purchasing that amounted to $1.4 billion annually.

A move to powertrain program director gave him the opportunity to impact product development. He led a cross-functional team that launched the 2006 and 2007 Big Twin powertrains, which included the Twin Cam 96™ engine with the Six-Speed Cruise Drive™ transmission. He managed the creation of new processes to introduce the product at considerable savings.

It’s not easy trying to determine future corporate strategy. Smith advises to stay customer focused. “While developing strategy, you’ve got a lot of information to consider. But while doing that, you’ve got to keep close to the customer,” says Smith.
Alumni key in predicting North Korean ballistic missile launch

On July 4, 2006, as Americans grilled burgers and made ready the bug spray and pyrotechnics for the evening’s festivities, North Korea set off a test launch of six missiles, including a long-range Taepodong-2 (TD-2), which failed shortly after takeoff and fell harmlessly into the Sea of Japan. While North Korea insisted it had a right to stage the launch, the rest of the world believed it was in defi-ance of international warnings and numerous expressions of concern.

Was the United States surprised by the Independence Day test launch? Not really, thanks to a team of engineers at the National Air & Space Intelligence Center (NASIC) at Wright-Patterson Air Force Base near Dayton, Ohio. These professionals, under the direction of Rose-Hulman alumni and Division Chief Michael Engle (’86), tirelessly scrutinized the North Korean activi-ties for months preceding the event, providing Washington with intelligence reports predicting the test.

The team included five Rose-Hulman alumni, in addition to Engle, each bringing his or her own specialty to the tremendous task at hand. They are Glenn Gersch (’94), Alan Sobecki (’97), Autumn Faith (’93), Rebecca Levinson (’05), and Jared Augsburger (’05). The Ballistic Missile Division is a group of 60 scientists and engineers within NASIC, a 2,200-person organization at the base.

Sobecki was the Division’s lead analyst for the launches and briefed White House senior staff members a number of times during the months prior to the launch. Sobecki remembers sleeping on a couch in the Division Office as he spent 24 straight hours at work prior to the test launch. “It was physically and mentally draining,” he recalls. “But when you hear your words being echoed by the Secretary of Defense and you see and hear snippets and phrases of the work you’ve prepared, that was most satisfying.” Sobecki also received a personal note from a four-star general whom he had briefed, commending him for NASIC’s outstanding work.

The pre-launch work performed by the Ballistic Missile Division team was unprecedented and allowed the president and vice president to make decisions about our national posture both pre- and post-launch. The work went from Wright-Patterson “straight to the top,” Engle was told by one of the White House senior staff members.

To unravel the North Korean plans, the team performed what they called “reverse engineering.” Other countries have an understand-ing of U.S. capabilities, so they attempt to hide things and even put out erroneous information to try to trip up the intelligence teams. “We work backwards,” Levinson, a chemical engineer, explains. “It’s the toughest process, but you use the same skills as you would in regular engineering.”

It’s truly an interdisciplinary work atmosphere. In other words, peo-ple from a number of disciplines work together to solve the puzzles. Among the Rose-Hulman alumni, for example, are mechanical, chemi-cal and aerospace engineers. Sobecki, Levinson and Faith work as sys-tem analysts, each specializing in a certain country. Augsburger and Gersch study propulsion and performance to make both digital and dynamic models to predict how far a certain missile will be able to go. 

Another way the team describes its work is to equate it to trying to put together a 100-piece puzzle with 50 to 70 pieces missing. They use every piece of information they can find, from magazine articles to data available through national technical means. After all, no matter who produces a weapon, the laws of physics are the same. As a result, sometimes the team finds those missing “puzzle pieces” from other puzzles. The intelligence reports from the NASIC division not only help the U.S. government, but our key foreign partners as well. “The U.S. government has the best intelligence apparatus, so we make the largest investment,” Engle explains. “We leverage each other’s skills, expertise and knowledge, because our foreign partners have key pieces to the puzzle, too.”

While the North Korean project was made very public, the large majority of the Ballistic Missile Division’s work is highly classified. In fact, most of the time they can’t even tell their fami-lies what they do at work. All employees must have Top Secret Clearance, which can take a long time to obtain. As a result, many future NASIC employees now start in a co-op program so the clearance process can start earlier in their career.

Because more than 20 countries have ballistic missile sys-tems, it is likely that these weapons will be a threat into the future for U.S. forces. They are attractive because they can be used effectively against a country with a strong air-defense system and they can be loaded with chemical, biological or nuclear warheads.

ROSE-HULMAN PREPARES STUDENTS WELL FOR NASIC WORK

Engle says he loves to recruit new employees from Rose-Hulman because the curriculum promotes and provides such well-rounded people. “They can do the nuts and bolts of their job, and they can also interact with people and provide the information well.” As you read above, those communication and interpersonal skills are extremely important when one is reporting to such high-level gov-ernment officials.

While Gersch received his bachelor’s degree elsewhere, he appreci-ated his overall learning experience at Rose-Hulman while earning a mas-sor’s degree. “I really learned how to deal with problems,” he recalls.

Engle remembers how willing the professors were to take their time and talk with students. They really helped him uncover what he want-ed to do with his career and then steered him toward the classes that could take him there. For his role as Division Chief, Engle also believes his minor in sociology was at least as important as his major.

Faith was pleased with Rose-Hulman’s focus on the Humanities, remembering that she took 32 credit hours in that department. “Those classes make us able to communicate better,” she believes. Her communication skills and her ground-breaking work at NASIC helped her to be chosen from among thousands of candidates as the 2004 Air Force Intelligence Award Program winner for mid-level analysts.

Augsburger remembers modeling rocket engines in an advanced modeling class. “I predicted how high it would go and tested it,” he says. “That was one of the key experiences that led him to his NASIC position.”

Rose-Hulman, too, is proud of this team of alumni putting together those seemingly unsolvable puzzles to boldly protect our country from foreign threats.

Gail Hayes is a writer with Well Rounded Marketing Communications.
Seven Rose-Hulman Institute of Technology graduating classes have reached or exceeded a financial goal that will have a positive impact on Rose-Hulman students and the reputation of Rose-Hulman for many decades. Their efforts are creating new scholarships to enable the college to successfully compete for the nation’s best students. Each class has achieved the goal of raising at least $50,000 or more to establish an endowed scholarship fund in honor of their class. Four classes have a scholarship fund value of over $100,000. Thirty-three classes have started raising funds to endow a scholarship. The market value of the three largest funds are the classes of 1940 ($994,724), 1954 ($608,000) and 1952 ($276,247) as of December, 2006.

Almost all of us received some type of financial help when we were students, and we should honor those who assisted us by providing scholarships to ensure that Rose-Hulman can continue to recruit outstanding students,” stated Hal Brown, a Rose-Hulman trustee, who is involved in planning the 50th reunion for the class of 1957 at homecoming Sept. 28-29. At their reunion dinner, the class will present a $57,000 check to President Gerald Jakubowski to launch their scholarship fund.

Fred Goetsch, who is chair of the class of 1957 reunion, says getting a few early gifts is important to a successful effort. “You need to identify a core group in your class to ‘seed’ the fundraising effort,” he recommends. “In our case, Ron Meredith was the leader. Then it takes personal contacts and continued follow-ups to seek support.”

In addition to the class of 1957, graduates of 1977 have reached their goal in time for their reunion at homecoming. “We have received fairly broad based support,” notes ’77 class member Jeff Burgan, who along with classmate Warren Mckens has coordinated efforts to raise funds for their class scholarship. “The next class reunion will be interesting since we will honor the first recipient of our class scholarship,” says Burgan, past president of the Rose-Hulman Alumni Association.

“It took our class five years for the most part to get to where we are. The real key is whether we can push to double the amount over the next few years,” Burgan said.

Mark Lindemood, vice president for development, encourages classes to plan early and to use a reunion year, especially the 25th or 50th, as a timeframe to achieve the $50,000 goal or significantly add to an existing class scholarship fund.

“A reunion year is a time when graduates gather to reflect about how Rose-Hulman had a significant, positive impact on their lives. It is an ideal time to give a very special gift to their alma mater,” he said.

Lindemood encouraged classes that have started their funds to increase their efforts to exceed their goal. “Providing the excellent engineering and science programs Rose-Hulman offers with a low student-to-faculty ratio requires additional resources to maintain and enhance,” he emphasized. “Increasing our scholarship programs is vital to ensuring the college’s leadership position,” Lindemood stated.

Rose-Hulman is not able to provide the level of financial aid offered by other colleges and universities it is competing against for outstanding students, notes Jim Goocker, dean of admissions and financial aid. “We’re competing against the best colleges and universities in the country who are able to meet a student’s financial need which is something we are not always able to do. To continue to be the best, we must be able to recruit the best,” he emphasized.

If your class has a scholarship effort underway, you can find out the value of the fund at www.rose-hulman.edu/development/scholarship.htm.

To discuss beginning a fundraising effort to create a class scholarship, contact Jessica Callahan, coordinator of development activities, 812-877-8217, or at Jessica.Callahan@rose-hulman.edu.

There are exciting days at Rose! In March, the Indianapolis Colts Super Bowl Trophy traveled to Rose-Hulman, the summer camp host to the Colts. In April, Dr. Gerald S. Jakubowski was inaugurated as the 13th president of Rose-Hulman. In May, Rose graduated the highly talented Class of 2007 in the Sports and Recreation Center. The things that are happening at Rose make me proud to be an alumnus.

There are many ways for you, as a Rose alumnus, to get involved and have fun! On the Fourth of July, Rose-Hulman hosted “A Day at the Ball Park” at an Indianapolis Indians baseball game. It was a fun afternoon for the entire family with a Rose-Hulman picnic complete with food and refreshments before the game followed by the game and fireworks at the beautiful Victory Field. The “Vic,” as it is called, is one of the most fan- and family-friendly minor league ball parks in America.

Rose-Hulman is truly a special place. As an alumnus, you know that. But, perhaps, you have forgotten how special it really is. To plan to come to some of the many Rose-Hulman events. You are always welcome. Go to the Web site to see what they are and when they happen. We know that you will enjoy yourself!

I hope to see you at one of these events.

Robert Fuller (’88), construction manager for Hunt Construction which is the lead construction firm on the new Lucas Oil Stadium in Indianapolis, provided an update to more than 60 alumni who gathered for a meeting in Indianapolis this spring. The meeting was sponsored by the Office of Alumni Affairs.

purchase of any Rose-Hulman license plate, you are making a difference in the lives of students. The license plate program typically raises $40,000 annually for student scholarships! A $25 tax-deductible contribution is given to Rose-Hulman for each plate ordered per year. An additional $15 special recognition plate fee along with your annual vehicle registration fees are assessed by the Bureau of Motor Vehicles.
1995
Rich Reeves (E.E. and M.S.E.E., ’66) retired in 2003 from Lockheed Martin-Orlando after a 25 year industrial career and 14 years as Air Force civil servant. He then joined a small military electronics company located in Melbourne, Fla., as vice president of business development. Last year, that company was acquired by Northrop Grumman and this last March he retired. Rich and his wife, Rose, plan to continue to reside in Orlando.

1977
John R. Lawell (M.E.) has taken a job as lead engineer/mechanical for Foth Production Solutions, LLC in Lake Elmo, Minn. Moving to the position from Wisconsin, John has resolved that he will not become a Vikings fan. In other news, John was named a Silver Beaver award recipient by the Bay-Lakes Council of the Boy Scouts of America.

1978
David A. Whitley (E.E.) has been elected to the office of executive vice president for the North American Electric Reliability Corp.

1979
Marvin Soffin (E.E.) has been named director of the Trident Life Extension Programs, a major weapon system upgrade for the U.S. Navy Trident Nuclear Weapon System.

1981
Jim Renfro (E.E.) has been promoted to the level of engineering fellow at Raytheon Network Centric Systems in Marlborough, Mass.

1982
Chris A. Mack (Ch.E., Chem, E.E., Phys.) has accepted a role as advisory scientist for Invanzia, Inc., a leader providing of advanced patterning synthesis solutions to the global semiconductor industry. He was described as “Lithography Gurus and Gentleman Scientist.”

1983
Joseph L. Krenn (M.E.) has accepted a position as senior partner in the Singapore parent firm of Ellis Chong Sparrow & Ferguson.

1984
Greg Gibson (C.E.) has been appointed to serve on the Indiana Port Commission by Gov. Mitch Daniels. He was named “Harrier Pilot of the Year.”

1985
Cary Blodow (E.E.) has been appointed director of the Midwest region of Avionix. Working in the company’s defense systems division, he will lead efforts in support of Avionix’s defense contracts and assist with business development in the Midwest.

1989
James M. Blackhur (M.E.), lieutenant colonel in the U.S. Marine Corps, has been given command of MWHS-1 in Okinawa, Japan, beginning in January of 2008. He has served in the Marines for 17 years and flown the AV-8B Harrier for 15 of those years. In 2004, he was named “Harrier Pilot of the Year.”

1990
Kevin “Uncle” Fesler (M.E.), a lieutenant colonel in the U.S. Air Force, has taken command of the 94th Fighter Squadron, one of only 2 operational F-22 squadrons. The 94th Fighter Squadron is the famous WWF1 squadron called the “Har in the Ring Gang”, and our Top Ace of all time is Captain Eddie Rickenbacker. As a side note, Eddie Rickenbacker actually sold the Indianapolis 300 race track to Tony Hulman in the 1940s after he left the US Army Air Corps and founded the Rickenbacker Motor Company.

1991
Rudney J. West (M.E.) and his wife, Laurie, announce the birth of their fourth daughter, Julia. She joins big sisters Alyssa, Nora and Vanessa in Liberty, Ind. Real is employed with Square D/Schneider Electric in Oxford, Ohio.

1993
Rhett T. Harper (C.E.) and Kyle T. Harper (’95, C.E.) have opened Harper Engineering in Lakeland, Fla. The civil engineering business specializes in commercial and residential real estate development.

1994
Matthew Anderson (C.E.) reports that twins Brent and Bryn were born Dec 10th, 2006. Big Brothers Blake, Connor and Parker are wonderful help to Matthew and his wife, Diane. Kevin Hayes (M.E.) received his PE license in the State of Texas last December.

1995
Kevin C. Ketzler (E.E.) has celebrated his 10-year anniversary with Affiliated Resource Group where he is a senior developer-analyst and project leader. Mark Young (C.E.) has accepted a position with the Victellio Group in West Palm Beach, Fla. The Victellio Group is a conglomerate of construction, construction material, mining, and environmental companies.

1996
Frederick Schurger (E.E.) has graduated from Palmer College of Chiropractic and has opened a practice in Springfield, Ill. He and his wife, Jeanne, were married April 14.

1997
John Callan Hale (C.E.) and Abigail Garrett Hale (E.E., ’99) welcomed their second child on Jan. 7. Samuel Martin was a huge joy to join big sister Tamay as he was born in the front seat of the car outside the hospital.

1998
Benjamin Cotton (M.E.) married Telma Szczechowska on Feb. 10. On the career front, he has moved from Chicago to Phoenix to take an in-house position as the intellectual property attorney at ASM America.

1999
Angela Anderson (E.E.) has recently had their third child, Logan, born last October.

2001
Mark D. Bessler (M.E.) has earned a new job with BP Exploration Alaska as a flow station facility engineer. He and his family have relocated to Anchorage, Alaska.

Hanna Pecinaugh Fortwendel (M.E.) and her husband, Phillip, announce the addition of Max, born Jan. 10. He joins syster Sydney Rae. Hanna is a project engineer with Donmar in Hanover, Ky.

Mars Morales (C.O.) updates Echoes that since we last heard from him, he has returned to Kokomo, Ind., after a two-year assignment in Japan for Delphi Corp. He also completed his manufacturing management master’s degree at Kettering University. He recently received a promotion to project manager and continues to support Toyota

It took half a century and a Google search, but two college flames recently rekindled their romance into a marriage. Tom Pebworth, a 1957 chemical engineering alumnus, dated Lynn Hollis for two and a half years when he was a student at Rose Poly. Upon his graduation they amicably parted ways – he to a job in St. Louis and she continuing her studies at Hanover College. Both moved on with their lives, marrying other people and becoming parents. Each of them became widowed – Lynn in 1997 and Tom in 2005. He later decided to see if he could track down Lynn on the Internet using the Google search engine. He found her name on the staff page of the First Presbyterian Church in Youngstown, Ohio. An e-mail of inquiry led to confirmation that it was the same Lynn he knew in college. Other e-mails followed and soon they were meeting face-to-face at a Catcher Barrel Restaurant in Ohio. They married about a year ago and now live in Canfield, Ohio. Internet search reunites couple who dated five decades ago
 programs for Delphi. He and his wife, Elizabeth, welcomed a new member to the family, Joshua, who joins siblings Jacob and Tessie.

Matthew Simon (Ch.E.) and his wife, Heather, had a baby girl, Morgan, born in February. She joins siblings Shawnie, Madison and Aiden.

Malcolm Talbot (Ch.E.) married Holly Clifton on March 17.

2001
Michael Case (M.E.) married Christina Xia this spring in Newark, Del.

2002
Robert E. Garzzese (C.E.) married Joanna X. Borges last February.

Chris Small (M.E.) has been promoted to global product manager for GGB Bearing Technology’s metal-polymer bushing product line. His responsibilities include product development support and global sales growth.

Kyle James Sponsak (Ch.E.) and his wife, Natalie, welcomed their first daughter, Hannah Rose, last year.

2003
Aaron Burke (C.E.) married Catherine Mohr last fall.

Dan Gallagher (M.E.) and his wife, Marcy (Ch.E., ’95), have moved to Brownsburg, Ind. Marcy has taken a process engineering position with National Starch in Indianapolis, and Dan is a systems engineer with Beeckman Couter.

Tim (M.E.) and Amy (A.O.) Kibbey announce the birth of their first son, Reed Joseph. Tim works for ATK Launch Systems in Promontory, Utah, where he has been researching and designing the solid propulsion for NASA’s new Crew Launch Vehicle.

Manish LODAYA (M.S., Ch.E.) received an MBA finance degree from the University of Houston in December of 2006. He relocated to Dubai—United Arab Emirates at that time.

2004
Michael W. Shipley (M.E.) and Katherine M. Herber (Ch.E.) exchanged wedding vows last year.

2005
Brian T. Meyer (M.E.) was the distinguished honor graduate from the U.S. Army Aviation Warlighting Center at Ft. Huachuca, Al. Lt. Meyer currently is stationed with the 101st Airborne Division at Fort Campbell, Ky. And pilots the OH-58D helicopter. This note was submitted by proud brother Jason Meyer, Class of ’03.

2006
Alicia Goldbaur (Ch.E.) and John Harmon (M.E.) married July 1.
1928
Wendell Watkins (M.E.) died on his 101st birthday April 3. He had celebrated 75 years of marriage to his wife, Mary, in 2004. Survivors include daughters Nancy and Barbara. At the time of his death, he was Rose-Hulman’s oldest living alumnus.

1947
John F. King (C.E.), 85, died March 29. He was a retired employee of the American National Can Company as a chemical engineer. He is survived by his wife, Martha, and children Stephen, Helen and Barbara.

1957
Ronald D. Freiberger, 72, died April 11. He was retired from Delco Electronics where he served for 22 years. Survivors include his wife, Martha; four daughters – Eleanor Ridge, Mary Haney, Rhonda Wagner and Lisa; and son James.

1953
Edwin Blanford (E.E.) died April 18. His career included stops at Bell Labs and General Electric, where he worked on Saturn and Apollo projects. Survivors include children Bruck, Mark and Lynn.

1957
Ronald D. Freiberger, 72, died April 11. He was retired from Delco Electronics where he served for 22 years. Survivors include his wife, Martha; four daughters – Eleanor Ridge, Mary Haney, Rhonda Wagner and Lisa; and son James.

1960
William T. Brummett, Jr. (E.E.) died last October. He worked for Emerson Industrial Controls for 33 years before taking an early retirement to pursue his passion of cooking. He is survived by his wife, Dee; father William T. Sr.; daughters Tia, Joni Amy and Jill; and son, Willie.
Daily students pass through Mees Hall and walk by the portrait of the man for whom the hall is named, Carl Leo Mees. His painting holds little immediate relevance to the current Mees Hall residents and their world of classes, projects, pizzas, and instant messaging. However, for students and alumni who passed through the doors of Rose between 1887 and 1919, Mees cast a long and impressive shadow. He helped shape and expand the project-based curriculum laid down by Charles Thompson, the first Rose president, and he had a great role in ensuring the importance of integrating theory with application.

The son of a Lutheran minister who emigrated from Germany, C. Leo Mees (as he signed his name) was born and reared in Columbus, Ohio in 1853. Mees graduated from Columbus High School where he was assist to his physics teacher, Thomas Corwin Mendenhall, who became Rose’s second president in 1887. Mees claimed it was Mendenhall who inspired him to study chemistry and physics. In 1874, he earned a B.S. degree from what became Ohio State University, again studying under Mendenhall, who had become OSU’s first professor. He entered Staling Medical College (later to become part of OSU) and took the medical and the chemistry curricula in parallel, graduating with an M.D. in 1879, never to practice medicine.

Mees’s most significant scientific work began at Starling where he was mentored by Dr. Thomas Wormley, an international expert on poisons. Mees worked with Wormley in perfecting methods for the detection and identification of human blood and tissues in suspected murder cases. He was the first to succeed in photographing different kinds of blood for comparison and exhibition to juries.

He left the world of poisons and forensics in 1875 to become professor of chemistry and physics at the University of Louisville. Beginning in 1880, he invested two years in post-graduate work, first at Frederick William University of Berlin, where he studied under physicist Hermann Helmholtz, famed for his theory of electro- and thermodynamics, and later at the Royal College of Science (now Imperial College of London), where he studied under England’s foremost microbiologist and physicist, John Tyndall.

Returning to America, his formal education completed (in 1893 the Board conferred upon him the Ph.D.), Mees spent 1882-1887 as professor of chemistry and physics at the University of Louisville. Beginning in 1880, he invested two years in post-graduate work, first at Frederick William University of Berlin, where he studied under physicist Hermann Helmholtz, famed for his theory of electro- and thermodynamics, and later at the Royal College of Science (now Imperial College of London), where he studied under England’s foremost microbiologist and physicist, John Tyndall.

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