

# Campus Insight

Volume 8, Issue 2 June, 2007

Rose-Hulman Institute Of Technology Parents' Association Newsletter

## Talking Points

- ◆ 92% of engineering seniors passed the Fundamentals of Engineering exam -- the first step to becoming a certified engineer.
- ◆ 93% of the Class of 2007 had secured jobs, graduate school appointments or military commissions before receiving their diplomas.
- ◆ 1,252 pints of blood were donated by the campus community in 2006-07 -- an all-time high.



## Seniors & Parents Walk Away With Memories

Members of Rose-Hulman's Class of 2007 took steps toward their futures and looked back fondly on their collegiate careers during the annual commencement procession -- walking past campus landmarks and people who played a significant role in their personal and academic development.

Eighty-eight percent of this year's graduates assessed their impressions about the college as "excellent or good" on the 2007 Senior Survey -- part of 29 all-time high grades out of 59 academic and student life areas. (See story inside)

Parents shared their students' sentiments, according to a survey of Parents' Association leaders.

"The students leave with the best education," assessed former Parents' Association Co-Chair Bev Viles, whose daughter, Amy, was a biomedical engineering graduate. "The (academic) bar is

set high. It forces each student to work to their potential."

Paul Herbig, a Rose-Hulman alumnus, was proud when his son, Robert, decided to attend the college, and even prouder when he earned degrees in computer science and software

engineering.

"The Rose-Hulman education can't be rivaled anywhere else in the world," he says, pointing out that "my son will be starting at a salary I never achieved in my entire working life."

Kathy Reitdorf said

A few months ago, our son told us that he was so happy to be back at school following winter break. He said, "I feel like I'm at home here." It made us feel so happy to hear that from him"

- Jane Barnes  
Rose-Hulman Parent

that her son, mechanical engineering graduate Michael, "worked hard and had fun! Sometimes I think he was a little overwhelmed at the intensity of the work level. However, when I saw his resume, showing everything he knew and what he had done at his internship, I was impressed."

Visit The Parents' Association's Web Page at [www.rose-hulman.edu/parents](http://www.rose-hulman.edu/parents)

## We're Taking This Journey Together

Rose-Hulman parents and students may have already discovered some of the less widely-known attributes about the college: The students' world-class T-shirt collections, fantastic study abroad programs, the quality music and theatre productions, and a huge variety of cool student-sponsored enrichment programs and activities.

Another well-kept secret is the Parents' Association.

At first glance, the above activities don't seem to have much in common with the great education for which Rose-Hulman is best known. Yet, the college not only graduates great engineers, it develops well-rounded persons who have been given every possible opportunity to realize and develop their potential. Yet, the more you hang around campus, the

more you realize that Rose-Hulman excels because it is amazingly supportive of the students.

The Parents' Association is one facet of the Rose-Hulman group effort. It lets families get involved in the students' education, and is an important part of the amazing camaraderie of the campus community.

The students don't just "show up". Neither should we parents. We should get involved, just like the students do, so that we can contribute, experience and enjoy that camaraderie for ourselves.

By becoming involved in the Association, you are helping your student continue to develop.

The Parents'

Association does several things, too numerous to mention in a small column such as this. Come to the Parents' Association meetings. Support the activities. Help create new activities. Be involved. The few hours a year that you spend with the Parents' Association is not time taken away from your student; it's time given to your student -- and all Rose-Hulman students. It's a great excuse to come to campus a few weekends a year. Best of all, it's free, and it's made up of parents just like you.

### 2007-08 Parents' Association Meetings

Aug. 25 - New Student Orientation, Hulman Union, 8 a.m.

Sept. 29 - Homecoming, Hulman Union, 8 a.m.

Nov. 3 - Dad's Day, Hulman Union, 8 a.m.

April 26 - Mom's Night, Hulman Union, 8 a.m.



### Parents' Association Co-Chairs

**John Barnes**

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**Yvonne Latta**

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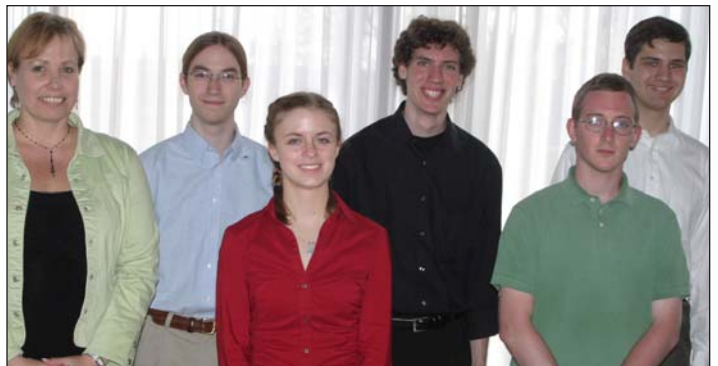
### Mom's Day Photo Album



**Honored For Service:** Kae Smith (middle) received the Parents' Association's Joy Hulbert Award for distinguished service to Rose-Hulman. Presenting the award was Association Co-Chairs John Barnes and Yvonne Latta.



**Senior Parents:** Parents' Association leaders that graduated this year included (from left) Tim and Bev Viles, Paul and Rachel Herbig, and Bruce and Kathy Rietdorf.



**Freshman 4.0 Awards:** Honored by the Parents' Association for completing the 2005-06 freshman year with 4.0 GPAs were (from left) Stephen Nease, Kristin Wilson, Jonathan Gray, Jason Sauppe and Evan Breedlove.

# Parents News & Notes

## Legacy Continues For Garmong, Hannum and Ray Families

This year's commencement was a very special occasion for two families -- witnessing Rose-Hulman's first fourth generation alumni.

Rachel Hannum continued a legacy started by great grandfather K. Richard Garmong ('31) and continued by grandfather Kenneth Hannum ('56) and father David Hannum ('81). David Hannum is president of Garmong Design/Build Construction and Hannum Wagle & Cline Engineering in Terre Haute.

Andrew Johnson's Rose-Hulman heritage includes Fred Ray ('20), F. Perry Ray ('48) and Ronald Andrews ('74). Johnson, from Anchorage, Alaska, is the great-grandson son of Fred Ray. A total of 13 family members attended this year's commencement.



**Rose-Hulman Heritage:** Andrew Johnson is surrounded by family members before this year's commencement.

## Presidential Inauguration Filled With Love, Respect

By John Barnes, Co-Chair, Parents' Association

In April, Gerald Jakubowski was inaugurated as Rose-Hulman's 13th president. I attended this event as a representative of the Parents' Association. I wanted to him to know that parents are interested in his selection for a position with profound influence on Rose-Hulman and our students.

On behalf of the Parents' Association, Dr. Jakubowski was presented with a framed print of the proverb: "Train up a child in the way he should go, and when he is old, he will not depart from it." Rose-Hulman will have a dominant impact on our children's lives. The poem should remind Dr. Jakubowski that we care, and we want to continue to be supportively involved in Rose-Hulman's "family" tradition.

The educational fruits that grow at Rose-Hulman take years, even decades to plan, plant and grow to fruition. Long-term, effective leadership is essential to keep Rose-Hulman a successful educational leader -- the kind of leader-



**Leaders:** Gerald Jakubowski (right) was welcomed by Samuel Hulbert.

ship Samuel Hulbert provided as president from 1976-2004.

To me, the most profound part of all the inauguration ceremonies was when Dr. Hulbert spoke. His wisdom, love for and absolute dedication to Rose-Hulman was palpable. When he said that there was no better educational institution in the world than Rose-Hulman, there were no better students in the world than those at Rose-Hulman, and that the only reason the college exists is for its students, he meant it. If Sam Hulbert endorses Jerry Jakubowski, I believe we can trust him.

I was left convinced that Dr. Jakubowski has a firm understanding of Rose-Hulman's mission, culture, history, and that intangible feeling of "family"; that he is approachable and willing to listen to parents and others; that he genuinely cares for the students, and that he will be a good leader. May Rose-Hulman prosper and flourish under Jerry's leadership, and may he share our commitment to Rose-Hulman and our students.



One of the nation's top undergraduate engineering, science, and mathematics colleges

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Caring Campus Community

## Rose-Hulman Web Resources For Parents:

- ◆ Parents' Association Page  
[www.rose-hulman.edu/parents/](http://www.rose-hulman.edu/parents/)
- ◆ Senior Soiree Photo Album  
[www.rose-hulman.edu/alumni/soiree2007](http://www.rose-hulman.edu/alumni/soiree2007)
- ◆ Latest Campus News  
[www.rose-hulman.edu/news](http://www.rose-hulman.edu/news)

## Who To Call On Campus . . .

Tom Miller, Associate Dean of Students	877-8210
Erik Hayes, Director of Residence Life	877-8230
Donna Gustafson, Associate Dean of Students	877-8275
Carey Treager Huber, Director of Student Activities	877-8484
Pete Gustafson, Vice President of Student Affairs	877-8257
ARAMARK Dining Services	877-8351
Bookstore	877-8344
Financial Aid Office	877-8259
Health Services Office	877-8367
Public Safety	877-8411
Registrar's Office	877-8298
Student Financial Services Office	877-8296
<b>Main Campus Switchboard (812) 877-1511</b>	

# What's Happening at Rose-Hulman

## Large Graduating Class Urged To Lead The Way

A record 422 graduates received degrees during the 129th commencement on 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.

Rose-Hulman President Gerald Jakubowski, participating in his first Rose-Hulman commencement, presented degrees to 383 bachelor of science graduates and 39 master's degrees candidates.

Commencement speaker Mike Hatfield told the commencement crowd estimated at 3,100 that the Rose-Hulman class of 2007 should believe in themselves and know that what they have learned is applicable to the country's needs.

"I challenge you to take the lead. You owe it to yourselves and to your community to do that . . . You should set direction and drive results," said Hatfield, a successful entrepreneur, 1984 Rose-Hulman graduate and member of the college's Board of Trustees.

## '07 Grads Give High Marks For Academic, Student Areas

Members of the 2007 graduating class gave all-time high grades in 29 of 59 areas about the college's academic and student life areas in this year's Senior Survey.

Areas receiving "excellent or good" marks included:

- ◆ Impressions about college - 88%
- ◆ Faculty attitude to students - 98%
- ◆ Attitude of staff to students - 92%
- ◆ Instruction quality in major - 95%
- ◆ Courses in your major - 90%
- ◆ Quality of classrooms - 95%
- ◆ Quality of laboratories - 90%
- ◆ Conditions of buildings and grounds - 92%

## 'The Life of Pi' on Summer Reading List For Freshmen

Rose-Hulman has joined a growing number of universities and colleges that are dishing out summer reading assignments to first-year students, according to Donna Gustafson, associate dean of student affairs.

The reading program will include group discussions during orientation week as a way to ease the intellectual and emotional transition newcomers make when they arrive on campus. The moderated discussions also give students the opportunity to express different viewpoints.

The first Common Read book will be the popular novel "Life of Pi," by Yann Martel. Published in 2001, the book is about an Indian teenager who shares a lifeboat for 227 days with a Bengal tiger. It is a book about survival and faith, about how

believing something sincerely can make it happen.

Campus common reading programs result from a simple idea: that reading the same book brings people closer and provides a common ground for discussion. The Office of Student Affairs received input from the Department of Humanities and Social Sciences about the book selection.

## Summer Projects to Expand Campus Space

Returning students will see subtle campus changes that will increase academic space, renovate classroom and laboratory areas, consolidate offices and improve office efficiency.

The projects will include renovating a mechanical engineering classroom/studio lab in Moench Hall; Remodeling/renovating chemistry laboratories; Relocation of Administrative Services offices and the Mail Processing Center, along with the



**Commencement Award Winners:** Members of the Class of 2007 recognized during commencement were (front row, from left) Gautham Venugopalan, Heminway Award; Riley Buttry, Herman Moench Distinguished Senior; Stephen Lewis, John Tuller Royse Award; and Thomas Werne, Heminway Award. In the back are Heminway Award winners (from left) Scott Ruskamp, Amanda Rohde, Amelia Mae Huehls, Robert Lauer and Brian Thompson.

Print Shop, opening prime faculty office and study space and creating new mechanical engineering laboratory space; Providing new office space for the Office of Admissions on the main floor of Hadley Hall, including relocating the Office of Financial Aid to this area of campus.

## Hotline Tutors Answer Record 43,353 Calls

Rose-Hulman's Homework Hotline free telephone tutoring service had another record-breaking year, with students helping 43,353 middle and high school students better understand math and science during this school year.

Tutors have now answered nearly 200,000 calls since 1999. The hotline was originally launched in 1991 to help students in local school districts.

# Students In The News

## Aning Named Orr Entrepreneur Fellow

Recent civil engineering graduate Yaw Aning is among 13 Indiana college students that will be spending the next two years working for the state's leading entrepreneurial companies as a Governor Bob Orr Indiana Entrepreneurial Fellow.

Aning has accepted a position with City Securities in Indianapolis. His most significant involvements in college included being a two-time business owner, belonging to the American Society of Civil Engineering, and organizing the first Entrepreneurship Club at Rose-Hulman.

Fellows were judged on academic performance, extracurricular involvement, demonstrated leadership potential, and previous job experiences. Orr served as governor from 1981-88.

## Meles Earns Tau Beta Pi Scholarship

Senior mechanical engineering major Aaron Meles was among U.S. college students earning prestigious Tau Beta Pi senior-level scholarships, worth \$2,000, for the 2007-08 school year. Meles received the Leonard W. Duenweg Scholarship.

There were 293 applicants for \$270,000 in undergraduate study scholarships that were awarded for the 2007-08 academic year. Thirty of this year's scholarship recipients are studying mechanical engineering.

Tau Beta Pi is the national engineering honor society.

## Five Students Honored For Helping Others

The following students received Student Leadership Awards from the Student Government Association during the 2006-07 school year:

- ◆ Nicholas Corkill organized members of the American Society of Civil Engineers chapter to construct a 30-foot wheelchair ramp for a Terre Haute couple. The ramp is now allowing the couple to leave the home for doctor visits.

- ◆ Mandy Hecker led 60 student volunteers that assisted Rose-Hulman in hosting the NCAA Division III Indoor Championships in March. She also organized the "Welcome Group" for persons attending the championship banquet.

- ◆ Ben Lauer helped form the Materials Club and created several podcasts that are part of the American Society of Materials International's Materials Radio, a series of podcasts on materials and their uses. Lauer also is president of the Delta Sigma Phi fraternity and helped organize a basketball marathon fund-raising event for the March of Dimes.

- ◆ Shaina Steward served as president of the National Society of Black Engineers' chapter in 2006-07. She organized chapter members to compete in the NSBE Tech Bowl, helped tutor local youths at Terre Haute's Charles T. Hyde Community Center, and set high chapter academic standards.

- ◆ Nathan Shomber was a valuable tutor for the Learning Center, assisting hundreds of students with their homework during the past two years in Percopo residence hall.

## Sports Trio Continue All-American Heritage

Student-athletes Ryan Robinson, Kathleen Stynes and Matt Trowbridge earned ESPN The Magazine Academic All-American honors from the College Sports Information Directors of America in 2006-07, marking the 22nd consecutive year that at least one Engineer has been recognized.

Robinson claimed second-team College Division honors in football while Stynes was a second-team selection in women's soccer. Trowbridge was a third-team honoree in men's soccer.



Aning



Corkill



Hecker



Meles



Shomber



Steward

## Albert, Edward Take Over Lead SGA Roles

Senior Emily Albert and junior Adler Edward have started one-year terms as president and vice president of the Student Government Association, representing students' views to the administration and board of trustees and overseeing the distribution of approximately \$330,000 in student activities funds to student organizations each year.

Appointed to the SGA's executive committee are Kenny Hurst, as executive director; Evan Breedlove, as secretary; Levi Rupp, as treasurer; Mandy Ferrell, as publicity director; Marsha Krisenko, as club relations coordinator; and Ryan Morley, as parliamentarian.

## Eighteen Get Honor Keys For Involvement

A large group of students received the Honor Key award from the Student Government Association for having leadership roles in student organizations, while maintaining high academic honors.

This year's Honor Key Award recipients were David Bander, Riley Buttry, James Compson, Jennifer Cringoli, Phillip Flanders, Jennifer Frey, Elliot Goodman, Michael Haughney, Stephen Lewis, Adam Reynolds, Amanda Rohde, Zachary Schiff, Rachel Selby, Danna Sheridan, Woli "Bob" Urbe, Edgar Vargas, Eric Volz and Catherine Walker.

## McNeill to Make ACM Research Presentation

Brittany McNeill, a senior computer science major, has had her Association for Computing Machinery Student Research Competition proposal accepted for presentation at the prestigious Grace Hopper Celebration of Women in Computing. Only a few entries get selected for this honor.

McNeill's research is on the topic "Gender Differences in the Use of Social Networking Sites." Professor Lisa Kaczmarczyk served as McNeill's faculty advisor on the project.

# Student Recognition: Honors & Awards

## Students Earn Academic Honors For Achievements

The following awards were presented to students at this year's Honors & Awards Recognition Program:

### **Carl Wischmeyer Award**

(Top GPA After Junior Year)

Thomas Werne

### **Carl Wischmeyer Scholar**

Kyle Douglass      Robert Lauer      Gautham Venugopalan  
Amelia Huehls      Amanda Rohde

### **Paul N. Bogart Prize**

(Top GPA After Sophomore Year)

Alexander Clerd

### **Paul N. Bogart Scholars**

Samantha Dick      Aaron Meles      Scott Ruskamp  
Amanda Grantz      Peter Outcalt      Brian Thompson  
Nathaniel Lindle      Ian Rogers      Sara Zenner

### **The Heminway Bronze Medal**

(Top GPA After Freshman Year)

Robert Lemke-Oliver

### **The Heminway Scholars**

Evan Breedlove      Kwang Young Oh      Jason Sauppe  
Jonathan Gray      Levi Rupp      Kristin Wilson  
Stephen Nease

## Applied Biology and Biomedical Engineering

Samuel F. Hulbert Scholarship      Andrew Tverdosi  
Baumgardt Scholarship      Jennifer Cringoli, Sarah Dempsey  
and Samantha Sheets

Guidant Life Sciences Scholarship      Jordan Goslee, Kristin Greer,  
Stephen Lewis, Bridget Mayer and Kirk Thompson

## Chemical Engineering

Eli Lilly & Co. Clinton Lab Award      John Patrick O'Grady  
Pfizer Inc. Award      Christopher Thiede  
Sam C. Hite Award      Richard Do

## Chemistry

Roger Louis Maness Memorial Scholarship      Levi Rupp  
John White Award      Phillip Flanders and Christopher Thiede  
William Albert Noyes, Sr., Award In Chemistry      Amelia Huehls  
Department Undergraduate Research Award      Rebecca Waltz  
Department Service Award      Shannon Jaquess and Kellen Hills  
Merck Index Award      Adam Georgas  
Dunlap-Alpha Chi Sigma Scholarship      Rachel Selby

## Civil Engineering

Civil Engineering Faculty Award      Jeremy Burch  
Shelton Hannig Award      Joel Anderson  
Morris L. Cleverley Award      Nicole Sanders  
ASCE Alumni Award      Michael Krantz  
J.B. Wilson Consulting Engineering Award      Jacob Wagle  
Department's Star Student Award      Ryan Robinson  
Edward A. MacLean Award      Adam Knaack

## Computer Science and Software Engineering

Addison-Wesley Outstanding Senior Award      Justin Hutchins  
Michael Atkins Outstanding Senior Thesis      Brandon Borkholder

Frank Young Outstanding Service Award      Lissa Avery  
Frank Young Scholarship      Brandon Borkholder and Eric Lindberg  
Doc Criss Outstanding Senior Project Award  
David Bauman, Drew Bowman, Michael Brandell,  
Ivan Kornienko and Matthew Salisbury

## Electrical and Computer Engineering

Outstanding Senior Award  
Stephen Schnelle and Matthew Longbrake  
Eta Kappa Nu Outstanding Sophomore Awards  
Daniel Coons and Stephen Nease  
Clarence Knipmeyer Award      Robert Lauer, Scott Ruskamp,  
Brian Thompson and Thomas Werne  
W. Hugh Holmes Scholarship      Haren Lalchand

## Humanities and Social Sciences

The German Oberlander Club Award      David Korff  
Hannelore Lehr Award      Kathleen Stynes  
Technology and Society Essay Award      Ely Spears  
Interpretation of Texts and Cultures Essay      Amelia Huehls  
Research and Analysis Essay Award      Kat Sorvig  
Outstanding Senior in Economics Award      Alexander Lamont

## Mathematics

Clarence P. Sousley Award      Amanda Rohde and Thomas Werne  
Theodore Paine Palmer Award      Casimir Ksiazek  
Indiana Collegiate Math Contest  
Robert Lemke-Oliver, Hari Ravindran and Amanda Rohde  
Putnam Competition      Robert Lemke-Oliver and Amanda Rohde  
Mathematical Contest in Modeling  
Team No. 1 - Ted Lyman, Ely Spears and Thomas Werne  
Team No. 2 - Nathan Lindle, Piotr Pelcer and Xiafeng Tao

## Mechanical Engineering

Cummins Engine Company, Inc. Award      Elliot Goodman  
Steinhauser Award      Aaron Meles

## Military Science & Aerospace Studies

John T. O'Bryan Air Force ROTC Award      Alexander Tunis  
"Sarge" Kearns Army ROTC Award      Richard Franko

## Physics & Optical Engineering

John W. Rhee Award      Brent Covele  
C. Leroy Mason Award      Robert Parada  
Jean M. Bennett Award      Daniel Ott  
Wilkison Meeks Award      Brian Hayden  
Sophomore Optical Engineering Award      Andrew Boneff  
Sophomore Engineering Physics Award      John Stanley  
Perry Family Astronomy Award      Brian Hayden

## Student-Athletes Honored For Deeds

The following awards were presented to students at this year's Athletic Honors and Awards Banquet:

Ruel Fox Burns Blanket (Top Senior Athlete):  
Suzy Carlson, Rebekah Forsyth and Ryan Schipper  
John A. Logan Senior Student-Athlete:  
Mandy Hecker and Joe Rottman  
Samuel Hulbert Senior Leadership Award:  
Mandy Hecker, Ryan Robinson and Kathleen Stynes  
Jess Lucas Spirit Award:      Rachel Selby (R-H Spirit Club)

## News In Brief

### Residence Hall Leaders Chosen

Fourteen seniors, 13 juniors and 30 sophomores have been chosen to the residence hall advisory staff for 2007-08. The Resident Assistant (RA) and Sophomore Advisor (SA) assignments are:

**Apartment Style-East:** Karen Kirchman (RA), Simon Leavitt (RA) and Dave Schluneker (RA)

**Apartment Style-West:** Chris Leibs (RA), Kyle Wilson (RA) and Katie Zack (RA)

**Blumberg:** Emily Curtis (SA), Justin Fuller (RA), Pooja Saxena (SA) and Katie Wolber (RA)

**Bauer-Sames-Bogart:** Josh Cartwright (RA), Trevor Clark (SA), Natalie Dickman (RA), Bridget Goergen (SA), Derek Hammer (SA), Sean Kriesberg (SA), Darcie Thomas (SA), Charlie Vana (SA) and Terrence Whittington (RA)

**Deming:** Luke Alvey (SA), Deepak Bhojwani (SA), Adler Edward (RA), Daniel Goodwin (RA), Kenny Hurst (RA), Michael Krizman (SA), Michael Nguyen (SA), Jon Papp (SA), Kyle Rhodes (SA), Joe Tolsma (RA), Elias Tselentakis (SA) and Arnold Yim (SA)

**Mees:** Jana Binkerd (SA), Corrie Campbell (SA), Ashley Erffmeyer (RA), Jonathan Korff (SA), Anthony Pearce (SA) and Bryan Ruiz (RA)

**Percopo:** Tess Fuller (RA), Dan Wismer (RA) and Kevin Zekis (RA)

**Scharpenberg:** Michael Fuson (SA), Alex Hanson (RA), Beau Inskip (RA), Peter Leigh (SA), Josh Knapp (SA) and Peter Richards (SA)

**Skinner:** Ben Decker (RA) and Matt Melton (RA)

**Speed:** Jeremy Goodsitt (SA), Eric Hollenkamp (SA), Mark Intihar (RA), Daniel King (SA), Nic Kirkland (SA), Casey Kretzer (SA), Tyler Masterson (RA), Kyle Overmyer (RA) and Daniel Sullivan (SA)

### GUAM Donations Help Others

Rose-Hulman students donated over \$2,800 to support the Vigo County Sheriff Department's Canine Corps and Terre Haute Boys & Girls Club through the Residence Hall Association's Give Up A Meal program.

More than 1,350 students gave up one of their residence meals, through ARAMARK Food Service, to support the community programs.

Support for the Boys & Girls Club came through the Travis Smith Memorial Fund, named to honor a 2006 local high school graduate who was killed in an automobile accident earlier this year. The fund will provide financial assistance for needy children to participate in educational programs.



**Greeks Of The Year:** Receiving Greek Leadership Awards for their participation and dedication to their organizations were (front row, from left) Ryan Robinson, Matthew Kivett, Jesseca Zapf, Jennifer Frey, Abigail Reborn, and Jordan Wysong. In the back row (from left) are Brandon Hathaway, Keith Godin, Scott Decker, Stephen Lewis and Brent Covele.

## Fraternity & Sorority Members Earn Greek Leadership Awards

Trying to get the most out of life helped 11 recent graduates to earn Greek Leadership Awards for their dedication to their fraternity and sorority chapters, Rose-Hulman and the Terre Haute community.

"These students' contributions are essential to the quality of life in our Greek community. They bring out the best in all of us, help us face our challenges, and assist us in keeping our focus on what we face in the future," stated Tom Miller, associate dean of students.

This year's Greek Leadership Awards winners were:

- ◆ Brent Covele, Pi Kappa Alpha: Served as scholarship chair for the chapter, volunteers to lead other chapter activities.
- ◆ Scott Decker, Lambda Chi Alpha: As chapter president, he helped reinvigorate the chapter and increase spirit among members and alumni.
- ◆ Jennifer Frey, Chi Omega: As recruitment chair, Frey helped educate members about the sorority's values and role on campus.
- ◆ Keith Godin, Theta Xi: Served as president and senior house leader for the fraternity.
- ◆ Brandon Hathaway, Sigma Nu: Was recognized after serving as chapter president, house manager and alumni relations officer during the past four years.
- ◆ Matthew Kivett, Alpha Tau Omega: Volunteered to deliver food and supplies to homebound elderly persons through the Meals on Wheels program.
- ◆ Stephen Lewis, Triangle: Served as the fraternity's pledge class president, sergeant-at-arms, community service chair, and executive committee secretary.
- ◆ Abigail Reborn, Delta Delta Delta: As philanthropy chair, she expanded the number of fund-raising activities organized by the chapter with the addition of a campus trivia night and Penny Wars event.
- ◆ Ryan Robinson, Phi Gamma Delta: Served as scholarship chair, participated in chapter outreach that helped in Hurricane Katrina relief efforts near Slidell, La., and assisted in activities for Trees Inc., Bikes For Tykes and Happiness Bag.
- ◆ Jordan Wysong, Delta Sigma Phi: Organized a successful 24-hour basketball marathon fund-raising activity for March of Dimes and served as the chapter's former house manager, coordinating restoration of the living quarters.
- ◆ Jesseca Zapf, Alpha Omicron Pi: Played a key role in the formation of a third sorority on campus, from forming a sorority interest group to reviewing possible national affiliate organizations to becoming the chapter's president.

# Student Teams Earn Top National & State Honors

Several Rose-Hulman student teams showcased their design skills and competitive desires by reaping honors in national and state competitions this spring.

♦ **REV Wins SAE Competition:** Achieving 1,541 miles per gallon, the Rose-Hulman Efficient Vehicles (REV) team won the collegiate division (out of 30 teams) in the Society of Automotive Engineers' Supermileage competition in early June. The team had also placed second in the Shell Eco-Marathon Americas Challenge in April by averaging 1,637 mpg.

The SAE Supermileage competition provides students with a challenging design project that involves the development and construction of a fuel-efficient vehicle. Vehicles are powered by a small one cylinder, four-cycle engine. Significant engine modifications are allowed.

REV team leaders were 2007 graduates Elliot Goodman, Robert Lally and Michael Haughney. Other members were John Cerngul, Michael Gough, Elisha Gregory, Rose Ann Haft, Blake Lin, James "Barry" Mayfield, Katie Snider, Tinoy Sriratanakoul, Cory Stansbury, Danielle Steinke and Aren Thompson.

### ♦ Challenge X Gets Outreach & Technology

**Awards:** The Challenge X team earned the Outstanding Outreach and The MathWorks' Crossover to Model-Based Design awards in the third year of the Challenge X: Crossover to Sustainable Mobility collegiate automotive engineering contest.

Rose-Hulman also placed second for Freescale Semiconductor's Silicon On The Move Award and was third for National Instruments' Most Innovative Use of Graphical System Design. Team member Kristina Lawyer earned the Incoming Women In Engineering Award.

The competition followed GM's real-world Global Vehicle Development Process to design, develop and integrate advanced technology solutions into a Chevrolet Equinox, a GM crossover sport utility vehicle, that increased energy efficiency and reduced environmental impact.

The Challenge X team's community outreach efforts were organized by Jama Johnson and Javid Khan. Team leaders included 2007 graduates Zach Pieri, Clint Hammes, Caleb Harper, Joseph "Rusty" Berg, Tom Martin and Russell Muren; seniors Matthew Lipkowitz, Edgar Vargas and Tim Pulliam; and juniors Matthew Colchin and Adam Williams. Other key team members were Ben Braun, Riley Buttry, Ben Ciavola, Ashley Erffmeyer, Kail Keusch, Steve Morey, Jonathon Rhoades, Isaac Sachs, Kristopher Stuckey, Crystal Trivedi and Rebecca Winer.

### ♦ Modernization Study Wins Civil Contest:

Five civil engineering students reaped first place honors in this year's American Society of Civil Engineers' senior design presentation competition. The team designed a multi-modal transportation system to relieve traffic congestion on a major thoroughfare near the Indiana University campus in Bloomington.

The 10th Street Extension and Modernization Study examined ways to increase the safety and efficiency of multi-modal transportation, infrastructure needs and travel demand management strategies.

Team members were Rob Adolph, Drew Lopshire, David Massey, Ryan Robinson and Todd Stout.



**SAE Champions:** Members of the Rose-Hulman Efficient Vehicles Team were the collegiate division champions in this year's Society of Automotive Engineers' Supermileage competition.



**Meeting Challenge:** Rose-Hulman's Challenge X vehicle development team earned team and individual recognition in the third year of the Challenge X: Crossover to Sustainable Mobility national engineering competition.

♦ **Team Pedals to Second ASME Finish:** In its second year, the Human Powered Vehicle Team placed second out of 23 colleges in the American Society of Mechanical Engineers' 2007 East Coast championships.

Human-powered vehicles are recumbent bikes with aerodynamic shells. Teams are judged in sprints, endurance tests, design reports and oral presentations. Rose-Hulman took second place in the endurance and men's sprint competitions, and third in the women's sprint and design report categories.

The team's project manager was Tommy Roberts, while Danny Sing and Molly Nelis were the riders. Team members were Christina Davis, Luisa Fairfax, Justin Gerretse, Zach Goff, Blake Lin, Tim Mayhew, Pooja Saxena, Jeff Van Treuren, Nathan Wendt, Michael Wieck and Chris Wlezien.

♦ **Team Earns Honors In FAA Contest:** An environmentally-friendly snow and ice removal system designed by five 2007 civil engineering graduates for the Indianapolis Airport Authority earned third-place honors in the Federal Aviation Administration's first Airport Design Competition for Universities.

Splitting the \$1,000 prize were Christopher Armstrong, Mark Johanning, William Kenny, Roy McIlwaine and Robert Wilson.

## News In Brief

### Student-Faculty Teams Work on IRCBC Research Projects

A record eight Rose-Hulman students and seven faculty members are working this summer on projects in the Interdisciplinary Research Collaborative in Biology and Chemistry.

Continuing through Aug. 17, the core of the IRCBC experience is participation in a vigorous laboratory research program. The summer research experience is being supervised by professors Mark Brandt and Peter Coppinger.

Students participating, along with their faculty mentor, are Eric Smith (Rebecca DeVasher), Michele Mumaw (Brandt), Cherie Garvis (Ella Ingram), Brent Witten (Jameel Ahmed), Meagan Gallagher (Jennifer O'Connor), Kat Sorvig (Dan Morris), David Bander (Peter Coppinger) and Amanda Isom (DeVasher).

There were 26 student applicants and 11 faculty members willing to participate in the program.

### Civil Eng. Team Travels to Ghana for Project Site Visit

Five 2007 civil engineering graduates joined professor John Aidoo in visiting a Ghana village during June to investigate site locations for a proposed agricultural training facility. The initiative was completed as part of a senior-year design project.

The Obodan Sustainable Development Center is an agricultural training center for villages surrounding Obodan, Ghana. The facility will include a computer training center, conference hall, caretaker house, hostel, poultry building, office space and executive chalets.

Completing floor plans, site layout, structural design and foundation design were Joel Anderson, Yaw Aning, Matthew Childs, Richard Franko and Kristin Miller. Aidoo was the faculty mentor.

### Optics Students Earn Poster Honors in Technology Contest

Optical engineering majors Robert Erffmeyer and Ramzi Zahreddine joined professor Richard Lepkowicz in earning third-place honors in the student poster competition during the Biomimetic Nanoscience and Nanoscale Technology Initiative at Ohio University.

The title of the poster was "Bio-Inspired Layered Polymer Lenses: A New Degree of Freedom in Optical Design."

## Valuable Experience Gained Through RHV Internships

For many college students finding a career-related summer job is difficult. Sometimes, it's necessary to travel to unfamiliar cities, hundreds of miles from home to find the right internship. For 72 Rose-Hulman students, all they had to do was travel three miles south of campus to benefit from internships at Rose-Hulman Ventures (RHV) working for technology-driven companies.

This summer's projects have the students modeling, prototyping, assembling and testing products and services -- providing real-world engineering challenges and the opportunity to learn from clients and project managers.

"It is exciting to work on a project where I can add my own creativity and influence to advance the progress of the team," said Andrew Evans, a junior computer engineering major.

Brant Gurganus, a senior computer science major, agrees, stating: "A definite advantage of working at Rose-Hulman Ventures in comparison to past internships is that the work done here is real and has clear value." This is his second internship at RHV.

These internships allow students to combine knowledge learned in the lab and classroom with hands-on learning provided by projects from client companies, said William Kline, associate dean for professional experiences for Rose-Hulman Ventures and associate professor of engineering management.

"For many students it's the first time to apply the engineering skills in the context of real projects," Kline said. "We want to make sure that's a successful experience for students and companies, while maintaining our technical, innovative edge."

## Students, Faculty Examining 'Green' Oil

Rose-Hulman professors Michael Mueller and Patrick Cunningham have joined four students this summer in assisting the Hoosier Biodiesel Company to evaluate the development of a "green" two-cycle engine oil based on biodiesel that is to be mixed with fuel. The research may lead to making the college a center for research and development of alternative renewable energy resources such as biodiesel and ethanol-based fuels.

Imperial Petroleum Inc. has contracted with Rose-Hulman to test oil via ASTM standards and engine tests based on National Marine Manufacturers Association (NMMA) standards. Over 100 hours of engine tests will be conducted to investigate the wear and deposits associated with the new oil. The ASTM tests examine the chemical and physical properties of the oil, including viscosity and lubricity.

The "green" two-cycle engine oil project is significant because it supports renewable oil development as an alternative to fossil fuel oils.

Gaining valuable hands-on experience are juniors Matt Colchin, Doug Hale and Chad Whitaker and sophomore Ben Collins.



**Best Results:** Dietrich Tullos (top) and Joseph Belaschky record results from tests completed on a product by Suros Surgical Systems.

# Putting Education Into Practice

## Design Teams Come Up With Creative Solutions

A team of recent civil engineering graduates provided Wabash River Development and Beautification Inc. and Vigo County residents with a big dream for Terre Haute's future: A pedestrian bridge across the Wabash River that could become the signature gateway for the region.

The project was completed as part of the Department of Civil Engineering's senior design course, and presented to community leaders and local citizens at a series of meetings during May.

Team members Jason Bednarko, Devin Cook, Dustin Dvorak, Joshua Heigert and Adam Knaack evaluated potential crossing sites, formulated hydraulic and foundation design studies, designed the unique structure and developed a phased construction implementation plan for the project. The team's faculty mentor was James Hanson.

"This was an impressive, professional-quality engineering study that will provoke further discussions about the future development of Terre Haute's riverfront, and provides officials with ideas to seek state and federal grants for the project," said Pat Martin, a transportation specialist for the City of Terre Haute's Engineering Department. "The students exceeded my expectations. This was an ambitious project, with many different aspects. I would have been delighted for them to have completed one or two aspects in the planning stages. Instead, the students completed the entire project."

The team's bridge will allow the National Road Heritage Trail to be extended to the Illinois state border, and will enhance the development of two miles of recreational wetlands on the west bank of the Wabash River, which was planned last year by a Rose-Hulman civil engineering team.

The team's design met with delight from local residents. "Paris has got the Eiffel Tower, St. Louis has got the arch . . . This could be the signature (landmark) for Terre Haute," said John Mutchner, president of Wabash River Development and Beautification.

Other highlighted senior-year design projects this year were:



**Working With Circuits:** Andrea Leichtman shows off a circuit board created to compare two embedded system programming techniques for National Instruments -- part of a senior year project in electrical and computer engineering.



**Bridge Concept:** A pedestrian bridge concept that would cross the Wabash River in Terre Haute was offered by five 2007 civil engineering graduates for Wabash River Development and Beautification Inc. The bridge would be 130 feet tall and 630 feet long, and would be a community landmark.

- ♦ A refreshable Braille display that helps convey text from a computer screen to blind persons received the Texas Instruments Project Award in the Electrical and Computer Engineering's Senior Symposium. Computer engineering majors Tim Karwoski and Scott Ruskamp joined electrical engineering students Brian Thompson and Jennifer Weber in designing a device that translates computer screen text into Braille characters, which can be read on a keyboard-style device.

- ♦ Students combined their entrepreneurial and engineering skills to design and construct a low-cost specialty lift device to assist a woman that suffers from spinal muscular atrophy, a form of muscular dystrophy. Completing the project as part of the Multidisciplinary Entrepreneurial New Product Design course were 2007 graduates Brian Belcher, Cory Edds, Javid Khan, Steven Sawusch and Alan Schroeder.

- ♦ A Web-based computer software program was designed to help employees at a nearby community campground to better manage park operations. Program features will allow employees to work simultaneously on multiple park improvement projects; will keep track of people that have used the camp, have made reservations for future camp visits and have sought camping information; and will keep better records about persons having camp passes. Designers were David Bauman, Drew Bowman, Michael Brandell, Ivan Kornienko and Matthew Salisbury.

- ♦ Computer engineering majors Joel Derby, Matt Longbrake, Joe Moder and Adam Reynolds created a product that formulates hardware and software packages into a telescope guidance system that helps amateur astronomers to accurately point telescopes to find known objects in the sky. A sensor package mounts to a Dobsonian-style telescope and a custom software application helps astronomers align the telescope with the targeted celestial object -- to within one degree of the correct angle.

- ♦ Projects completed by mechanical engineering teams included development of a breast mold that could help Suros Surgical Systems Inc. test a breast biopsy device; a study of a rear turbine support device for Rolls-Royce Corp.; and an investigation of ways to automate bin transformation procedures for Red Gold Products.

## Photo Album



**Medal Designer:** Ryan Schultz enjoys a close up look at the new Rose-Hulman Presidential Medallion that he helped to design for the inauguration of Dr. Gerald Jakubowski.



**Design Champs:** The team of Ryan Robinson, Drew Lopshire, Todd Stout, David Massey and Rob Adolph won this year's Indiana ASCE senior design presentation competition.



**Engine Testing:** Matt Colchin, Chad Whitaker and Doug Hale examine two-cycle engines being tested in a summer research project on the development of "green" biodiesel oils.



**Passing Gavel:** Emily Albert accepts the Student Government Association president's gavel from 2006-07 leader Riley Buttry and Rose-Hulman President Dr. Gerald Jakubowski.



**Improving Grades:** Tim Olmsted received the D.J. Angus-Scientech Club of Indianapolis Award for improving his grades between the fall quarter of the freshman and sophomore years.



**Perfect Scorers:** The team of (from left) Mark Jacobson, Justin Larson, Andy Evans and Brandon Bradshaw won the Winter Robotic Challenge after having two perfect runs.

If you would like to receive a jpg or tif image of any photo, please send a request to [Dale.Long@rose-hulman.edu](mailto:Dale.Long@rose-hulman.edu)

## 2007-2008 ACADEMIC CALENDAR

### Fall Quarter

Aug. 24 - Fee payment deadline for fall quarter  
Aug. 30 - Start of fall quarter  
Oct. 11-12 - Fall break  
Nov. 12-15 - Final exams for fall quarter  
Nov. 16 - Fee payment deadline for winter quarter

### Winter Quarter

Nov. 26 - Start of winter quarter  
Dec. 22-Jan. 6 - Holiday vacation  
Jan. 7 - Winter quarter classes resume  
Feb. 18-21 - Final exams for winter quarter  
Feb. 22 - Fee payment deadline for spring quarter

### Spring Quarter

March 3 - Start of spring quarter  
March 29-April 6 - Spring break  
May 19-22 - Final exams for spring quarter  
May 24 - Commencement, 11 a.m.

## 2007-2008 PARENTS' ASSOCIATION EVENTS

Aug. 24-25 - New Parent Welcome/Orientation  
Sept. 29 - Homecoming (Football vs. Hanover College)  
Nov. 3 - Dad's Day (Football vs. Manchester College)  
April 26 - Mom's Night

## SPECIAL ACTIVITIES

Sept. 17 - Grad School Fair  
Oct. 3 - Fall Career Fair  
Oct. 26-27/Nov. 2-3 - Drama Club's Fall Play, Hatfield Hall  
Dec. 9 - Performing Groups' Holiday Program  
Jan. 23 - Winter Career Fair  
Jan. 25-26 - Drama Club One-Act Plays, Hatfield Hall  
Feb. 9 - Encore Engineers Show  
April 9 - Spring Career Fair  
March 15 - R-H Community Show  
April 12 - Fundamentals of Engineering Exam  
April 25-26/May 2-3 - Drama Club Musical, Hatfield Hall  
April 26 - Honors & Awards Program & Parents' Reception  
May 23 - Senior Soiree, Hulbert Arena, 6-7:30 p.m.  
May 24 - Army/Air Force ROTC Commissioning, 7:30 a.m.



## What's Ahead

## PERFORMING ARTS SERIES

Sept. 18 - Diavolo                      Feb. 15 - Harlem Gospel Choir  
Oct. 6 - The Second City              March 6 - Beakman Live!  
Nov. 10 - Sequenza Trio              April 9 - East Village Opera Co.  
Jan. 22 - Hot Club San Francisco

Visit The Parents' Association's Web Page at [www.rose-hulman.edu/parents](http://www.rose-hulman.edu/parents)

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