

Spring 5-28-2011

# 2011 Rose-Hulman Institute of Technology : One-Hundred and Thirty-Third Commencement

Rose-Hulman

*Rose-Hulman Institute of Technology*, [weir1@rose-hulman.edu](mailto:weir1@rose-hulman.edu)

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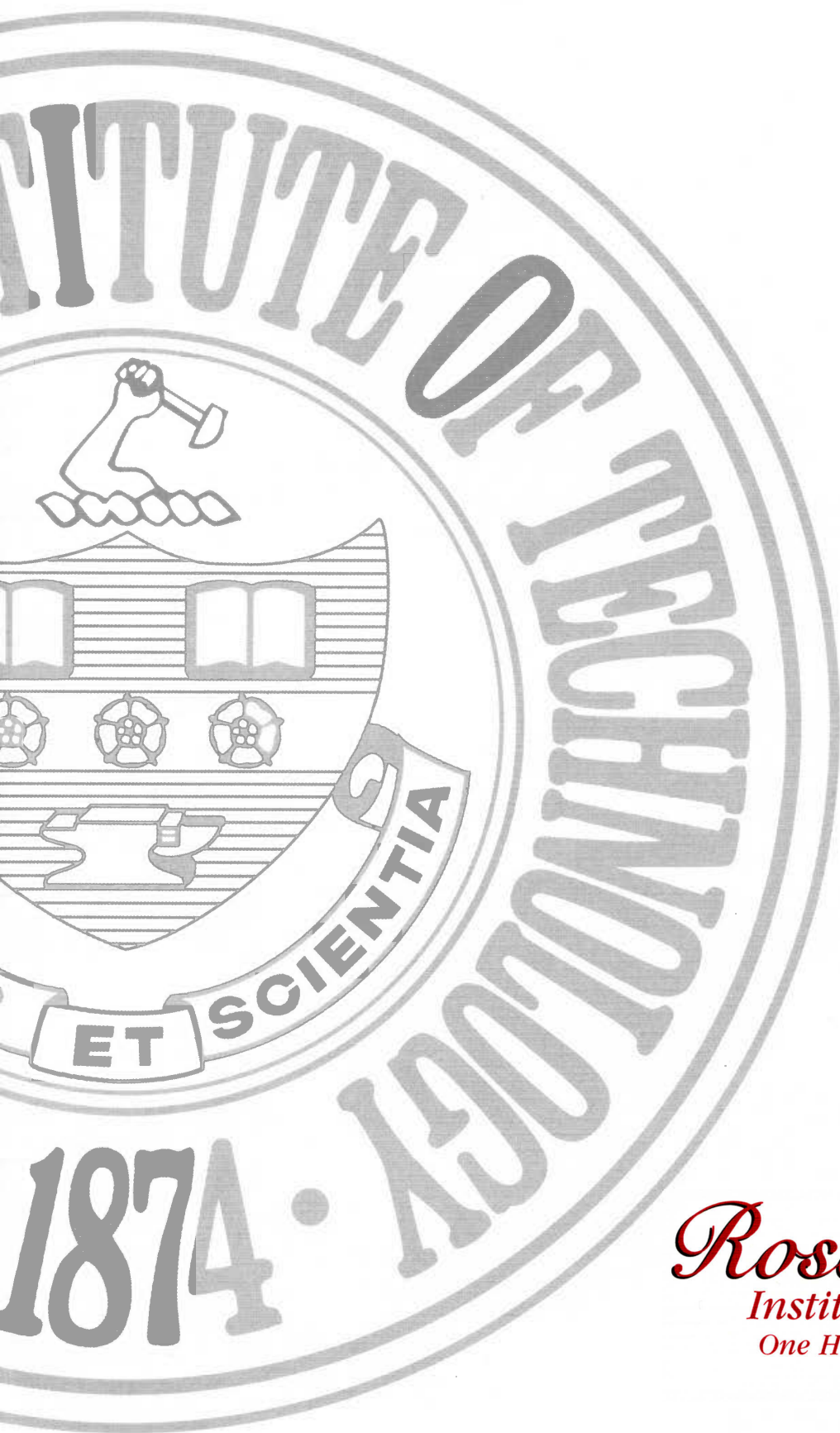
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*Rose-Hulman*  
Institute of Technology  
One Hundred and Thirty-Third  
Commencement

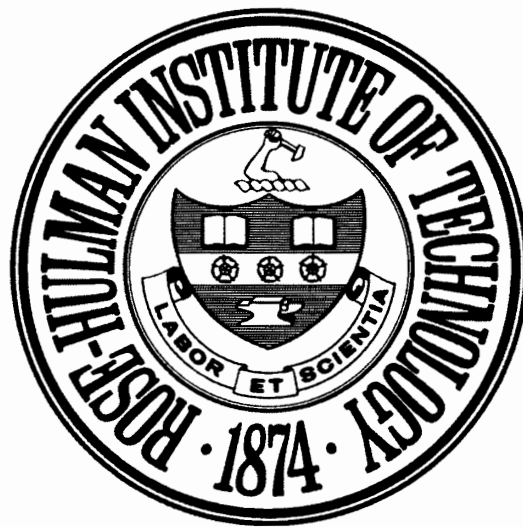
May 28, 2011

**One Hundred and Thirty-Third**

**Commencement**

**of**

**Rose-Hulman  
Institute of Technology**



**11 a.m., May 28, 2011  
Sports and Recreation Center**

## 2011 Commencement Program

Prelude .....	Crossroads Brass
Academic Procession .....	Peter Gustafson, B.S., M.S. <i>Marshal, Vice President for Student Affairs and Dean of Students</i>
Procession .....	Indianapolis Firefighters Emerald Society Bagpipers
National Anthem .....	Rose-Hulman Performing Arts Ensemble
Invocation .....	Cody Barron <i>Past President, Student Government Association</i>
Welcome .....	Matt Branam, B.S. <i>President</i>
Comments from Senior Class .....	Mitchell Pettigrew <i>President, Senior Class</i>
Awarding of Heminway Medal .....	William Kline, A.B., B.S., M.S., Ph.D. <i>Interim Vice President for Academic Affairs and Dean of Faculty</i>
John T. Royce Award .....	Peter Gustafson
Herman A. Moench Distinguished Senior Commendation .....	Keith Hoover, B.S., M.S., Ph.D. <i>Professor of Electrical and Computer Engineering</i>
Outstanding Graduate Thesis Award .....	Daniel Moore, B.S., M.S., Ph.D. <i>Associate Dean of the Faculty</i>
Introduction of Honorary Degree Recipient .....	Jameel Ahmed, B.S., M.S., Ph.D. <i>Associate Professor of Applied Biology and Biomedical Engineering</i>
Awarding of Honorary Degree .....	Matt Branam
Introduction of Honorary Degree Recipient .....	Rebecca DeVasher, B.S., Ph.D. <i>Associate Professor of Chemistry</i>
Awarding of Honorary Degree .....	Matt Branam
Introduction of Honorary Degree Recipient .....	Zachariah Chambers, B.S., M.S., Ph.D. <i>Associate Professor of Mechanical Engineering</i>
Awarding of Honorary Degree .....	Matt Branam
Introduction of Honorary Degree Recipient and Commencement Speaker .....	LeMoyne Michael Habimana-Griffin <i>President, Blue Key</i>
Awarding of Honorary Degree .....	Matt Branam
Commencement Address .....	Dr. Michio Kaku, B.S., Ph.D.
Presentation of Fifty-Year Commemorative Degrees .....	Matt Branam
Conferring of Undergraduate Degrees .....	Matt Branam
Conferring of Master's Degrees .....	Matt Branam
Recognition of Students Anticipating Degrees .....	Matt Branam
Greeting from Alumni .....	Richard Neal (Class of '77), B.S., M.B.A. <i>President, Alumni Association</i>

President’s Outstanding Service Award . . . . . Matt Branam

Dean’s Outstanding Teacher Award . . . . . William Kline  
William D. Schindel, B.S., M.S.  
*Member, Board of Trustees*

Board of Trustees’ Outstanding Scholar Award . . . . . William Fenoglio, B.S., Eng. D.  
*Chairman of the Board of Trustees*  
Jack Ragle  
*Life Member, Board of Trustees*

President’s Greeting to the Class of 2011 . . . . . Matt Branam

“Alma Mater” . . . . . Rose-Hulman Performing Arts Ensemble

Benediction . . . . . Ejimofor Oruche  
*President, National Society of Black Engineers*

“Dear Old Rose” . . . . . Crossroads Brass

Recessional . . . . . Crossroads Brass

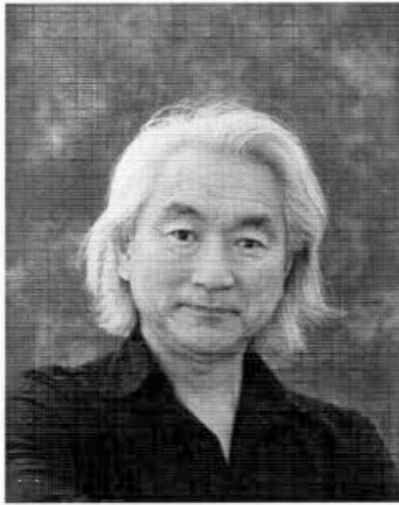
***Alma Mater***  
*Music by Raymond Mech*  
*Lyrics by Andrew Mech*

*Here in central Indiana  
is the school we know is best.  
Rose-Hulman, Yes, our Alma Mater  
far surpasses all the rest.  
Sing her glories and her praises  
in every way she does excel.  
Rose-Hulman, you're our Alma Mater  
our Alma Mater loved so well.*

*Rose did more than set foundations  
for the work that was to come.  
The people here became as family;  
Rose became another home.  
Though we live at quite a distance  
and time has passed since our farewell,  
Rose-Hulman you have grown yet dearer  
our Alma Mater loved so well.*

***Dear Old Rose***  
***The School Fight Song***  
*Words and Music by Malcolm C. Scott, Class of 1922*

*Dear Old Rose  
The sweetest flower that grows  
Here's to your colors rose and white  
Here's to the ones who've kept them bright.  
Colors true for those who honor you  
Here's to everything you've done,  
Here's to every fight you've won.  
Dear Old Rose.*



## Honorary Degree and Commencement Speaker

**Honorary Doctor of Engineering**

**Dr. Michio Kaku**

**Theoretical Physicist & Famed Futurist**

Acclaimed public speaker, famed futurist, best-selling author, theoretical physicist, radio and television personality, Dr. Michio Kaku is the choice of the world's top organizations from business to academia, from science to industry and to media and the arts.

Dr. Kaku's technical books are required reading for scores of Ph.D. graduate students in major physics laboratories around the world. His two radio programs "Explorations in Science" and "Science Fantastic" focus on topics such as frontiers in physics, black holes, time machines, hyperspace, the human genome project and genetic engineering.

Dr. Kaku's most recent book, *Physics of the Future*, currently on the New York Times best-sellers list, examines how science will shape human destiny and people's daily lives by the Year 2100. Other best-selling books have been *Visions: How Science Will Revolutionize the 21st Century and Beyond* (1999), *Physics of the Impossible* (2008), *Parallel Worlds* (2006), *Einstein's Cosmos* (2005), *Beyond Einstein* (1995) and *Hyperspace* (1995).

Dr. Kaku's award-winning Discovery Science Channel television program, "Sci Fi Science" based on his best-selling book *Science of the Impossible*, reaches millions of households to make him a recognized authority on the future of the future. He has also been featured on several documentaries by both PBS and the BBC such as "Einstein Revealed," "Stephen Hawking's Universe" and "Science Odyssey." He also appears regularly on FOX News and CNN as a regular commentator on scientific current events.

As the Henry Semat Professor of Theoretical Physics at the Graduate Centre of the City University of New York, Dr. Kaku's goal is to complete Einstein's dream of a "theory of everything" – a single elegant equation that unifies the fundamental forces of the universe.

From interviews to documentaries to panel discussions and live events, Dr. Kaku explains the most fascinating and complex ideas in science today, in many ways so elegant and easy to understand that many of his fans and critics have compared him to the late Carl Sagan.

Using the cutting edge research of today's foremost scientists Dr. Kaku explores the science of tomorrow: computers, artificial intelligence and reshaping our genetic inheritance. He explains how science is opening entirely new avenues for society and organizations at large.

A mesmerizing and humorous speaker, Dr. Kaku conveys a contagious sense of the wonders of science of today and tomorrow. His humanistic approach to any subject matter propels audiences into the future with thought-provoking insights about science and technology, optimistic but realistic observations about the human condition, and sage advice for our own evolution and enlightenment.

He received a bachelor's degree (summa cum laude) from Harvard University in 1968, graduating first in his physics class. He went on to the Berkeley Radiation Laboratory at the University of California-Berkeley and received a Ph.D. in 1972. He is also a visiting professor at the Institute for Advanced Study at Princeton University and is a Fellow of the American Physical Society.

## Honorary Degree

**Honorary Doctor of Engineering**  
**Gian Paolo Dallara**  
**Owner of Dallara Motorsports**

For almost 40 years, Gian Paolo Dallara has been synonymous with innovation, the pursuit of excellence and winning in motorsports. His company has been devoted to the business of designing, building and supporting some of the world's most competitive racing cars. Dallara strives for the ultimate in performance by creating an environment of innovation, team spirit and taking pride in his work. This produces the fastest, safest racing cars with the highest standards of quality and customer service.

One motorsports magazine described Dallara's company, Dallara Motorsports, as "the world's most successful, yet understated racing car builder."

Dallara was born in Parma, Italy, and he graduated from Politecnico di Milano University, majoring in aeronautical engineering. He has been associated with the biggest names in motorsports, designing race cars for Ferrari, Lamborghini, Maserati, Williams and Renault. He has also provided consulting services for Audi, Honda, Bugatti, Toyota and Alfa Romeo. And, Dallara-designed chassis have been in the winner's circle in Formula One — the pinnacle of auto racing — along with the Formula Three Series, World Series by Renault, Grand-Am Rolex Sports Car Series and the IZOD IndyCar Series. On busy racing weekends as many as 300 race cars made by Dallara Motorsports can be seen speeding along famous race tracks around the world.

Dallara cars have won the prestigious Indianapolis 500 10 times, and the IZOD IndyCar Series championship 12 times with more than 170 victories since 1998.

Dallara is currently building the 2012 car for the IZOD IndyCar Series, and the company is planning to move into a new, state-of-the-art technology center located in Speedway, Ind., near the Indianapolis Motor Speedway, with a \$7 million investment into the community. The facility will set new standards in terms of safety, fuel efficiency, raceability, technology performance and cost containment, and will allow universities to educate future motorsports engineers and vehicle developers. It will also strengthen Indianapolis' status as the "Motorsports Capital of the World."

In 2009 he was awarded the renowned "Ernst & Young Entrepreneur of the Year" in the Global category.

Now in his 70s, Dallara is still known for putting in 12-hour days at his company vehicle development centers, and providing valuable input into the research and development of future projects. He has expressed excitement in expanding into the United States, but his vision is grounded.

"We don't want to be too big," Dallara stated in media reports. "We'd rather be good in our specialized niche. We want to know that we're the best doing what we know how to do."

Andrea Pontremoli, chief executive and general manager of Dallara Motorsports, adds: "If we win races, we're good. And, we win a lot of races."



## Honorary Degree

### Honorary Doctor of Engineering

**Dr. Michael A. Evans**

**Founder/President, AIT Laboratories**



“Learn, Earn, Return” isn’t just a motto for Dr. Michael A. Evans, it’s a life-long call to action. As founder, president and chief executive officer of the American Institute of Toxicology (AIT Laboratories), Dr. Evans puts more emphasis on “learn” and “return” and sees “earn” as simply a means for giving back to his employees, his company and the community.

Dr. Evans founded AIT Laboratories in 1990. The company is an independent reference laboratory based in Indianapolis, Indiana, that specializes in compliance monitoring, forensics, clinical and pharmaceutical testing. In 2009, Dr. Evans transferred ownership of the company to his employees through an Employee Stock Ownership Plan (ESOP).

Under Dr. Evans’ direction, AIT has been repeatedly recognized locally and nationally for its commitment to employees, culture, education and training. Accolades for AIT Laboratories include being named one of the Best Places to Work in Indiana; being recognized by Inc. magazine as one of the top 5,000 fastest-growing, private companies in the nation; and being named to Training magazine’s Top 125 list of companies recognized for employer-sponsored training and development programs.

Dr. Evans has also been personally recognized for AIT’s rapid growth, success and commitment to employees over the past decade, including being named the 2008 Ernst & Young Midwest Entrepreneur of the Year.

Prior to founding AIT, Evans served as tenured professor, director, faculty member and researcher for institutions such as the Indiana University School of Medicine, Vanderbilt University Medical Center, Illinois Institute of Technology and the University of Illinois College of Medicine. He was also a visiting professor of toxicology for Kunming Medical College and the Sichuan Institute of Materia Medica, both located in China.

Dr. Evans firmly believes in supporting education of the sciences and proudly lends his acuity for science to the education community. He has served on numerous boards including the Rose-Hulman Institute of Technology Science Advisory Board, the Board of Trustees for Saint Joseph’s College and Indiana Tech, Indiana University Purdue University Indianapolis (IUPUI) Science Advisory Board, IUPUI National Science Foundation for Forensic Sciences, and the Marian University College of Medicine Advisory Board.

He also lends his expertise to budding life sciences companies and currently serves on the Board of Directors for Perfinity BioScience, an Indiana-based company that focuses on sample preparation techniques and tools to facilitate mass spectrometry.

Dr. Evans has a true passion for charitable deeds, especially those benefitting the education of underprivileged youth. He is closely tied to organizations that provide post-secondary opportunities for disadvantaged students including Project SEED and Providence Cristo Rey High School. He opens the doors of AIT to provide internships for these students and has personally assisted the youth in getting accepted to nationally recognized colleges and universities, including the United States Naval Academy.

Dr. Evans is a disabled veteran who was awarded a Bronze Star and a Purple Heart for his service in Vietnam. He resides in Indianapolis, and is married with three children.



# Honorary Degree

## Honorary Doctorate of Engineering

**James K. Gilman, M.D.**

### **Commanding General, U.S. Army Medical Research and Materiel Command**

Developing and delivering the best medical solutions to enhance, protect, treat and heal American service men and women has been the focus of James K. Gilman during his 33-year military service career.

Dr. Gilman, a major general in the U.S. Army, is currently commander of the Army Medical Research and Materiel Command and Fort Detrick in Frederick, Maryland, a premier quad-services installation that's home to the Army Medical Research and Materiel Command, the National Cancer Institute and 37 mission partners. The installation also hosts a National Interagency Confederation for Biological Research and National Interagency Biodefense Campus.

Under Dr. Gilman's leadership, the medical command has led many efforts to field the best possible products to protect soldiers and save lives. During the military conflicts in Iraq and Afghanistan, the command has provided critical materiel support to joint medical operations and is providing solutions that address lessons learned and changes in operational requirements. As the Army's medical materiel developer, the command manages the acquisition and fielding of all medical equipment used by deployed Army medical units, and plays a key role in managing the responsible return of materiel from Iraq as U.S. forces draw down.

Some of the products new to the battlefield, coming from the command, include the remote leishmania diagnostics, combat gauze, damage control resuscitation for non-compressible hemorrhage, combat application tourniquet, rotary valve pressure swing adsorption oxygen generator, improved first aid kit and anesthesia machines.

Dr. Gilman, a 1974 biology Rose-Hulman alumnus, previously served as the commander of Brooke Army Medical Center (Texas) and the Great Plains Regional Medical Command, which oversees Army hospitals and clinics in 16 states. Other assignments have had him serving as commander of the Walter Reed Health Care System, which includes Walter Reed Hospital; director of health policy and services directorate for the Office of the Surgeon General; commander of the USAMEDDAC at Fort Wainwright (Alaska); deputy commander for clinical services at Madigan Army Medical Center (Wash.); deputy commander for clinical services at Fort Hood (Texas); and chief of cardiology services at Brooke Army Medical Center. He completed overseas tours in Alaska and Germany and served with the 2nd Armored Cavalry Regiment in Haiti.

Lt. Gen. Eric Schoomaker, Army surgeon general and commander of the U.S. Army Medical Command, praises Dr. Gilman, stating "Jim really has been a beacon of rationality, compassion, integrity and honesty. Jim is one of those people who really speaks truth to power. I never have lost sleep knowing Jim has been in command."

Dr. Gilman earned his medical degree from the Indiana University School of Medicine. He is board certified in both internal medicine and cardiovascular diseases, and is a fellow of the American College of Cardiology. He is a graduate of the U.S. Army Command and General Staff College (Fort Leavenworth, Kan.), and the U.S. Army War College (Carlisle Barracks, Pa.). Military awards and decorations include the Distinguished Service Medal, Legion of Merit, Meritorious Service Medal, the Army Staff Badge, and the Expert Field Medical Badge. He also is the recipient of The Surgeon General's "A" Proficiency Designator and a member of the Order of Military Medical Merit.

Dr. Gilman is a native of Hymera, Ind., in nearby Sullivan County.





## **Fifty-Year Commemorative Degrees**

For more than 130 years, Rose-Hulman alumni have been making positive contributions to society as engineers and scientists. Success has not been limited to their career areas. They serve their local communities through civic organizations, youth activities and churches.

Much of the recognition Rose-Hulman enjoys today is because of our alumni. Rose-Hulman graduates make an impact. Their achievements as engineers, scientists and concerned citizens translate into a reputation of quality for their alma mater.

Today, we recognize the contributions of the Class of 1961 by presenting commemorative degrees to those who have been alumni for 50 years. The diplomas they receive today honor their dedication of time and talent to their careers, society and Rose-Hulman. The following members of the class of 1961 returned to campus for today's ceremony.

### **Class of 1961**

#### **Attending Commencement 2011**

William Fenoglio, Greenwood, Indiana

Wilbur Decker, Brazil, Indiana

Vernon R. Gross, Tyler, Texas

Daniel Kingery, Carlisle, Pennsylvania

Edward Kostra, South Holland, Illinois

Richard Pike, Anderson, Indiana

Dale Raquet, Morgantown, Pennsylvania

Robert Turecky, Dallas, Texas

## The Academic Procession

In today's academic procession, the gown and hood indicate the degree held by the wearer. The hood is lined with the official color or colors of the college or university conferring the degree. Graduates of certain institutions wear gowns in the color of the university, faced down the front with velvet panels and with velvet crossbars on each sleeve. The velvet may be black or may be the color which represents the field in which the degree was conferred.

### *RHIT Bachelor's Degree Attire*

Rose-Hulman Institute of Technology Bachelor's degree holders or candidates wear a black gown and a black mortarboard with a red and white tassel. Students graduating Cum Laude, Magna Cum Laude or Summa Cum Laude wear gold Honor Cords.

### *RHIT Master's Degree Attire*

Master's degree hoods for Rose-Hulman Institute of Technology are black, lined with rose satin and white satin chevron and edged in golden yellow velvet. With the gown and hood is worn a black mortarboard and red and white tassel.

### *Current and Past Trustee Chair*

Black gown with red chevrons bordered in gold piping, and red, front panels.

### *Trustees*

Black robes with black chevrons bordered with gold piping.

### *President*

Red with black chevron bordered with gold piping. The front panels on the gown include the official school seal. The colors inside the hoods for the trustees and president represent the official school colors of old Rose and White.

### *Eta Kappa Nu*

Scarlet and navy cords signify membership in Eta Kappa Nu, the National Electrical Engineering Honor Fraternity.

### *Pi Mu Epsilon*

Violet, lavender, and gold cords signify membership in Pi Mu Epsilon, the National Mathematics Honorary.

### *Upsilon Pi Epsilon*

Maroon and white cords signify membership in Upsilon Pi Epsilon, the International Honor Society for the Computing and Information Disciplines.

### *Presidential Medallion*

The gold-plated Rose-Hulman Presidential Medallion carries the school seal on one side. The other side portrays a rendering of the Flame of the Millennium sculpture, bordered by the phrase "Continuing Our Legacy of Excellence."



## Scholarship Honors

Students graduating with a scholarship index of 3.90 or higher will be graduated Summa Cum Laude; those with a scholarship index between 3.60 and 3.90 will be graduated Magna Cum Laude; and those with a scholarship index between 3.30 and 3.60 will be graduated Cum Laude. These honors are recognized by the display of gold Honor Cords at the Commencement ceremonies and in appropriate fashion on the diplomas.

- \* *Cum Laude*
- \*\* *Magna Cum Laude*
- \*\*\* *Summa Cum Laude*

### **Other Program Designations**

- G Technical Translators Program-German
- A U.S. Army Commission
- AF U.S. Air Force Commission
- C Consulting Engineering Program
- M Management Studies Certificate
- I Imaging Systems Certificate
- S Semiconductor Materials and Devices Certificate
- R Robotics Certificate

Master Thesis or Engineering Management Project indicated in *Italics*

### **Graduation Date Designations**

Special codes indicate students who completed their degree requirements prior to May 28, 2011.

Those designations are:

- a August 28, 2010
- n November 22, 2010
- f February 28, 2011

### **The John T. Royse Award**

The John Tuller Royse Award was inaugurated at Rose-Hulman to honor Mr. Royse in perpetuity for his many years of service to the college as a member of our Board of Managers. The Royse tradition on the Board continues today as John N. Royse is an active member.

The award consists of a bronze medal and cash honorarium to be made at commencement each year to the graduating senior who, in the opinion of the faculty and administrative staff, is considered to be our most outstanding graduate based on academic achievement, student leadership, participation in co-curricular activities, and general campus citizenship. The recipient of the Royse Award must be nominated by either a classmate or a member of the faculty or administrative staff.

### **The Moench Commendation**

Herman A. Moench graduated from our school, then called Rose Polytechnic Institute, in 1929. He served Rose as associate vice president and professor of electrical engineering for over five decades, during which time he was an inspiring mentor and role model. Herman helped shape the Rose-Hulman values that we all cherish today, including putting the student first, remaining humble while striving for excellence, and encouraging close student-teacher relationships. Though Herman never married, he had a lifelong love affair with one great lady: a school named "Rose Poly."

In 1980 the first Moench Commendation was awarded to the most "Moench-Like" graduating senior. This is a person who is "Not just a good student in the upper half of their class, but also has demonstrated exemplary character in the eyes of their peers and teachers; a person who has been influential in making RHIT a better place." The recipient is selected by a vote of faculty and administrative staff who believe this student has demonstrated exemplary character, including honesty, self-discipline, compassion and moral conviction.

# Rose-Hulman Institute of Technology

## Candidates for Degree

### Bachelor of Science

#### APPLIED BIOLOGY AND BIOMEDICAL ENGINEERING

##### APPLIED BIOLOGY

	Julianna Marie Barr .....	Louisville, Kentucky
*	Mitch Edward Braddock .....	Parkersburg, Illinois
**	Molly Catherine Gillam .....	Lafayette, Indiana
**	Johanna Stephanie Moore .....	Brazil, Indiana
f **	Elizabeth Paige Stewart .....	Brazil, Indiana

##### BIOMEDICAL ENGINEERING

	Lucas Byron Alvey .....	Tell City, Indiana
**	Caroline Adele Andersen .....	North Manchester, Indiana
A	Barbara Cheyenne-Yvette Arrowsling .....	Bedford, Indiana
A	Cody Lee Barron .....	Angola, Indiana
**	Jason Michael Betts .....	Forest Lake, Minnesota
**	Ryan Philip Boeckermann .....	Hibbing, Minnesota
f *	Paul Bouabre Bouagnon .....	Saint Charles, Illinois
f *	Rebecca Claire Bowermaster .....	Wood River, Illinois
f *	Clayton Dale Britton .....	Newton, Illinois
**	Jacob J Carr .....	Zionsville, Indiana
**	Allan Wilson Che .....	Fenton, Missouri
f	Margaret Michelle Clouse .....	Glasgow, Kentucky
f	Chad H Coxon .....	Ortonville, Michigan
f	Emily Susan Dentler .....	Constantine, Michigan
A	Emily Fünke Dosmar .....	Chicago, Illinois
*	Bradley Grant Emerick .....	Columbia City, Indiana
*	Mychal Ann Fitterer .....	Ellensburg, Washington
A	Lindsey Marie Gault .....	Canton, Ohio
*	Jason Douglas Gibbs .....	Greenwood, Indiana
**	Damien Andrew-Courtland Harris .....	Columbia, South Carolina
**	Kevin Scott Harris .....	Carmel, Indiana
*	Evan Kirsch .....	Martinsville, Indiana
**	Michael Francis Kovacs .....	Milford, Ohio
**	Tyler Carter Kreipke .....	Zionsville, Indiana
*	Timothy Allen Lane II .....	Indianapolis, Indiana
**	Allison Joy Luther .....	Beach Park, Illinois
**	Andrew Tyler Markowitz .....	Crown Point, Indiana
**	John David McLaughlin .....	Evansville, Indiana
**	Clark Andrew Moser .....	Elwood, Indiana
**	Ejimofofor Chidiebere Oruche .....	Fishers, Indiana
**	Holly Marie Poling .....	Hilliard, Ohio
**	Nicholas Stephen Race .....	Martinsville, Indiana
**	Nathan Scott Ridgley .....	Oregonia, Ohio
**	Joanna Lynn Rosenbaum .....	Northbrook, Illinois
**	Jonathon Chase Strauser .....	Carmel, Indiana
**	Keegan Clint Superville .....	York, Pennsylvania

**	Sara Nicole Telezyn	Terre Haute, Indiana
**	William Wilson Terrill	Cuyahoga Falls, Ohio
*	Katie Josephine Trella	Des Plaines, Illinois
**	Amelia Brooke Turner	Evansville, Indiana
*	Tyler James Tutton	Greenwood, Indiana
	Brittany Alexandria Young	Austin, Indiana

Double Major in BIOMEDICAL ENGINEERING and BIOCHEMISTRY & MOLECULAR BIOLOGY

**	Steven Campbell Chase	Carmel, Indiana
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Double Major in BIOMEDICAL ENGINEERING and ELECTRICAL ENGINEERING

***	LeMoyne Michael Habimana-Griffin	Alexandria, Indiana
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Double Major in BIOMEDICAL ENGINEERING and MATHEMATICS

*	Kyla Ann Lutz	Tennyson, Indiana
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CHEMICAL ENGINEERING

	Kamal Manhal Aljazireh	Dhahran, Saudi Arabia
**	Joshua Alan Andreas	Columbia City, Indiana
	David Carlos Becerra	Brownsburg, Indiana
***	Gregory Blachut	Willowbrook, Illinois
	Ashley Ann Brockhaus	Columbia City, Indiana
	Justin Allen Budka	Knox, Indiana
*	Jesse Allen Cherbak	Cedar Lake, Indiana
*	Sonia Margarita Cheung Chang	Guatemala
**	Ming Cheng Chew	Plymouth, Minnesota
**	Adam Samuel Churchill	Naperville, Illinois
	Jonathan Michael Dann	Plainfield, Indiana
**	Ryan Anthony Davis	Gallatin, Tennessee
	Nathan Bradley Elder	Mattoon, Illinois
	Othmane Fathi	Casablanca, Morocco
	Trevor Steven Guldstrand	Los Angeles, California
**	Molly Anne Harding	Avon, Indiana
C*	Quinton Jenkins Huffman	Goshen, Indiana
***	Mitchell Price Ishmael	Knoxville, Tennessee
***	Joseph Mark Kelly	Parker, Colorado
*	Daniel Thomas Lee	Rochester, Minnesota
*	Jack Guilford Lee IV	Cedarburg, Wisconsin
	Jose Lujan	Medellin, Colombia
**	Conor Benjamin Mack	Arlington Heights, Illinois
	Elizabeth Hannah Malola	Indianapolis, Indiana
**	Jonathan Amos McCulfor	Fort Wayne, Indiana
**	Emily Novak Meyer	Chicago, Illinois
***	Jordan Robert Milligan	Westfield, Indiana
C**	Edward David Norton	Solon, Ohio
	Andrew Christopher Papin	Cincinnati, Ohio
	Kevin Patrick Parrent	Westfield, Indiana
C**	Timothy James Potmesil	Robinson, Illinois
*	Kyle Alan Rawn	Indianapolis, Indiana
	Justin Paul Rice	Robinson, Illinois
	Kelsey Anne Robin	Woodstock, Illinois
C*	Greg Wayne Rubeck	Crystal Lake, Illinois

	Amanda Marie Rupp	Baltimore, Ohio
	Gannon Paul Sadzeck	Crystal Lake, Illinois
**	Shalini Saxena	Bethesda, Maryland
	Andrew Miles Smith	Elgin, Illinois
	John Lewis Smith	Cross Plains, Indiana
	Adam Whitten Somerall	Mountain Brook, Alabama
**	Christopher Allen Stemple	Mount Vernon, Indiana
*	Sharon Lu Wang	Charleston, South Carolina
***	Andrea Marie Weber	Harrison, Ohio
	Michael Andrew Weber	Schererville, Indiana
	Cristen Jenea Weist	Hazleton, Indiana
	Peter Charles Westrick	Valparaiso, Indiana
	Jessica Mae Zaiss-Bowman	Jasper, Missouri

Double Major in CHEMICAL ENGINEERING and BIOCHEMISTRY & MOLECULAR BIOLOGY

*	John Charles Lawrence	Minneapolis, Minnesota
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CHEMISTRY

	Rose Annette Brewer	McConnells, South Carolina
*	Carolyn Anne Harper	Louisville, Kentucky
	Karina Diane Keller	Troy, Illinois

Double Major in CHEMISTRY and BIOCHEMISTRY & MOLECULAR BIOLOGY

G***	Carly Anne Baehr	Stevens Point, Wisconsin
	Natalie Marie Freienmuth	Rio Rancho, New Mexico
	Amanda Marie Jevons	Henderson, Nevada
**	Suzanne Marie Kissel	Evansville, Indiana

CIVIL ENGINEERING

	John Robert Alexander	Terre Haute, Indiana
	Benjamin Lawrence Atkinson	Terre Haute, Indiana
*	Adam Michael Bales	Lewisville, Indiana
	Kathleen Carol Berry	Terre Haute, Indiana
	Timothy Daniel Boyer	Haworth, New Jersey
C	Nathaniel Joseph Butkauskas	Pana, Illinois
	David Robert Caldwell	Plymouth, Indiana
*	Anthony William Celebucki	Porter, Indiana
A *	Corbin Riley Clow	Martinsville, Indiana
	Gabrielle Paulette Dernier	San Antonio, Texas
C	Derik Clayal Doughty	Charleston, Illinois
	Jeana Diane Eviston	South Whitley, Indiana
*	Allison Renee Faber	Saint Louis, Missouri
*	Mindy Michelle Grupe	Wheaton, Illinois
	Jennifer Evelyn Hardyniec	Burlington, Indiana
**	Theresa Rose Henke	Alexandria, Kentucky
	Christian Ebenezer James Hidden	Ridgefield, Washington
	Samuel Claude Hill IV	Winter Park, Florida
*	Jessica Ashleigh Honegger	McLean, Illinois
	Galen Windle Jones	Washington, D.C.
*	Susanna Margaret Kelly	Evergreen Park, Illinois
CM	Jason Lynn Kimmel	Albion, Indiana
	Adam Lawrence Kirchner	Plymouth, Wisconsin

	Navjot Singh Lakhan	Plainfield, Indiana
**	Allen Lee Malcomb	Deputy, Indiana
	Jonathan Randall Marmouze	Springville, Indiana
**	Jessica Marie Muhlenkamp	Portland, Indiana
A	Brian Patrick Murphy	Rensselaer, New York
**	Jonathan Glenn Oakley	Kansas, Illinois
C**	Stephen Craig Owen	Bloomington, Indiana
	Marie Lorey Phelan	Reynoldsburg, Ohio
	Steven Wayne Procter	Las Vegas, Nevada
C*	Katherine Anne Quigg	Chillicothe, Illinois
**	Molly Elizabeth Richardson	Orange Park, Florida
	Steven Daniel Ricks	Pittsboro, Indiana
	Nicholas Herman Rumpke	Cincinnati, Ohio
**	Joshua Glenn Sizemore	Franklin, Ohio
	Zachary Alden Snively	Franklin, Ohio
**	Benjamin Joseph Zobrist	Goodfield, Illinois

## COMPUTER SCIENCE AND SOFTWARE ENGINEERING

### COMPUTER SCIENCE

	Robert John Adams	Schaumburg, Illinois
	Aaron Zebulon Blankenbaker	Harvard, Illinois
	Melissa Sue Brumbaugh	Arlington, Ohio
	Jeremiah Paul Elroy	Kankakee, Illinois
*	Kenneth Daniel Skaggs	Metamora, Illinois
	Matthew Phillip Vargo	Indianapolis, Indiana
AG	Daniel Clayton Waters	Vine Grove, Kentucky

#### Triple Major in COMPUTER SCIENCE, SOFTWARE ENGINEERING and COMPUTER ENGINEERING

**	David Andrew McGinnis	Cincinnati, Ohio
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#### Triple Major in COMPUTER SCIENCE, SOFTWARE ENGINEERING and MATHEMATICS

**	Timothy Lee Ekl	Lake Zurich, Illinois
	Michael Anthony Hein	Sterling Heights, Michigan

#### Double Major in COMPUTER SCIENCE and COMPUTER ENGINEERING

**	Peter Bruce Lundgren	Duluth, Minnesota
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#### Double Major in COMPUTER SCIENCE and MATHEMATICS

***	Eric Allen Crockett	Georgetown, Indiana
**	Robert Samuel Pienta	Iowa City, Iowa
***	Michael James Pridal-LoPiccolo	Columbia, Missouri

#### Double Major in COMPUTER SCIENCE and SOFTWARE ENGINEERING

**	Phillip Nathan Iverson	Staunton, Indiana
**	Mark Joseph Jenne	Louisville, Kentucky

### SOFTWARE ENGINEERING

*	Elisabeth Paige Baca	Albuquerque, New Mexico
	Peter George Brousalis	Munster, Indiana
	Brian Paul Buetow	Louisville, Kentucky
	David Adam Fishman	Hastings on Hudson, New York



**	Joseph DeWayne Hill	.....New Palestine, Indiana
	Benjamin Vincent Kehm	.....York, Pennsylvania
*	Thomas Winslow Most	.....La Crosse, Wisconsin
*	David Pruzan Pick	.....Chicago, Illinois
	Joseph Michael Salisbury	.....Fort Wayne, Indiana
	Lewis Preston Sego III	.....Rockford, Minnesota
	Eric Jonathan Stokes	.....Fort Wayne, Indiana
	Mitchell Douglas Thieme	.....Fort Lauderdale, Florida
**	Samuel David Varga	.....South Bend, Indiana
	Benjamin Thomas Waters	.....Franklin, Indiana
R*	Timothy James Wentz	.....Crystal Lake, Illinois

Triple Major in SOFTWARE ENGINEERING, COMPUTER SCIENCE and MATHEMATICS

n	Michael Zachary Jones	.....Bolingbrook, Illinois
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Double Major in SOFTWARE ENGINEERING and COMPUTER SCIENCE

*	Jerry Cecil Belton II	.....St. Louis, Missouri
M	Albert Cooper Johnson	.....Sugar Land, Texas
*	Andrew Robby Kruth	.....Cedar Park, Texas

ELECTRICAL AND COMPUTER ENGINEERING

ELECTRICAL ENGINEERING

	Bradley Robert Baber	.....Naperville, Illinois
Sf	Justin James Bauer	.....Naperville, Illinois
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	Kyle Russell Clark	.....Pendleton, Indiana
	Dawes Matthew Culp	.....Indianapolis, Indiana
*	Lea Jane Dekker	.....Kankakee, Illinois
	Sean Michael Donohue	.....Pasadena, Maryland
	Kavitha Duvoor	.....New York City, New York
	Daniel Zachary Giranda	.....Gurnee, Illinois
	Emily Rose Held	.....Taylorville, Illinois
**	Seth Andrew Hendrickson	.....Crawfordsville, Indiana
f **	Benjamin Reid Hopf	.....Jasper, Indiana
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f **	Mark Andrew Kimbell	.....New Albany, Indiana
	Trent Preston Kimbrell	.....Seymour, Indiana
f ***	Joshua William Manore	.....Roberts, Wisconsin
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*	Kabe Ryan Mattocks	.....Cloverdale, Indiana
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**	Marc Anthony Pardee	.....Metamora, Ohio
	Leon Wheless Perry IV	.....Wake Forest, North Carolina
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**	Matthew Runchey	.....Springboro, Ohio
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 Alice Colleen Forehand .....Rockville, Maryland  
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 \*\*\* Brian Howard Hulette .....Hillsborough, North Carolina  
 \*\* Jonathan Thompson Klein .....Anchorage, Alaska  
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 f Zachary Adam Rubin .....Fort Myers, Florida  
 G Eric Douglas Schulte .....Centreville, Virginia  
 Scott A Skiles .....Columbus, Indiana  
 f \*\* Annmarie Dorothy Stanley .....Warrenville, Illinois  
 f \*\* Mark Anthony Swanson .....Saint Cloud, Minnesota  
 \* Joseph Michael Wanstrath .....Batesville, Indiana  
 n Brandon Marcus Woodward .....Minneapolis, Minnesota

MATHEMATICS

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Double Major in MATHEMATICS and COMPUTER SCIENCE

\*\* Sarah Anne Jabon .....Glenview, Illinois

Double Major in MATHEMATICS and ECONOMICS

n \* Nicole Marie Burton .....Terre Haute, Indiana

MECHANICAL ENGINEERING

James Cameron Allen .....Lake Mary, Florida  
 C Meshari Mohammed Alquraini .....Alhasa City, Saudi Arabia  
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 R Matthew Clarence Behling .....Columbus, Indiana  
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	Matthew Paul Dunn	.Decatur, Indiana
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	Scott Andrew Eaton	.Fishers, Indiana
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f **	Ariel Marie Young	Channahon, Illinois

Two Degrees: MECHANICAL ENGINEERING and ECONOMICS

- Shaun Robert Wendel .....Monroe, Indiana
- \*\* Heather Katerina Wiest .....Arlington Heights, Illinois

Two Degrees: MECHANICAL ENGINEERING and MATHEMATICS

- \*\*\* Kyle Lyndon Wilson .....Dublin, Ohio

Two Degrees: MECHANICAL ENGINEERING and OPTICAL ENGINEERING

- \* Andrew Joseph Horvath .....Euclid, Ohio

Double Major in MECHANICAL ENGINEERING and COMPUTER SCIENCE

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- \*\* Michael Joseph Ulrey .....North Oaks, Minnesota

Double Major in MECHANICAL ENGINEERING and ELECTRICAL ENGINEERING

- R Jinwoo Baek .....Seoul, South Korea
- Taylor Benjamin Coleman .....Northbrook, Illinois
- Mitchell Alan Pettigrew .....Delaware, Ohio

Double Major in MECHANICAL ENGINEERING and MATHEMATICS

- \* Anthony Wayne Millhouse .....Angola, Indiana

PHYSICS, OPTICAL ENGINEERING AND ENGINEERING PHYSICS

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- \*\*\* Amanda Kay Barnett .....Plainfield, Indiana
- David Alan French .....Stillwater, Oklahoma
- Benjamin DuBray Hall .....Bedford, Indiana
- Zachary Hans Pligge .....Franklin Park, Illinois
- \* Austin Lemuel Tam .....Rochester, Indiana

Two Degrees: PHYSICS and MECHANICAL ENGINEERING

- Steven Junior Harden .....Brazil, Indiana

Double Major in PHYSICS and MATHEMATICS

- \* Samantha Jo Gregory .....Huntsville, Alabama
- David Scott La Mantia .....Munster, Indiana

OPTICAL ENGINEERING

- Thomas Clelland Bruner .....Rockville, Indiana
- Philip Andrew Davies .....Lakeville, Minnesota
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- \* Daniel Robert Brooks .....Medford, Oregon

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	Timothy Richard Burcham	.....Versailles, Indiana
AS	Dallas Jonathan Burton	.....Houghton, Louisiana
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S*	Kendra Allison Lyons	.....O'Fallon, Illinois
Sf	Joseph Leonard Dean Summa	.....Carlisle, Ohio

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f	David Matthew Baty	Grosse Pointe Park, Michigan
f	Joel Christopher Beally	Zionsville, Indiana
	Joel Stephen Carlson	Hobart, Wisconsin
n	Michael J. Fiedeldey	Granger, Indiana
f	Daniel B. Freve	Chicago, Illinois
f	Xiang Gao	Nanchang, Jiangxi, China
	Alexander Mason Huff	Kirkland, Washington
f	Pinghua Jiang	Qingdao, Shandong, China
f	Qiang Jiang	Wenling, Zhejiang, China
f	Jian Li	Leng Shuijiang, China
n	Kai Li	Shenyang, Liaoning, China
f	James Berry Mayfield	Cincinnati, Ohio
	Clancy Lawaine Soehren	Edinburg, Indiana
n	Ian A. Thomas	Pennville, Indiana
n	Mitchell A. Thomas	Pennville, Indiana
n	Keqiong Xin	Heilongjiang, China
f	Ruili Zhao	Xiangxiang City, China

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	Randy J. Carre	Terre Haute, Indiana
	Justin Jeffrey Deutsch	West Harrison, Indiana
	Bridget Kay Goergen	Alexandria, Minnesota
	Mark Joseph Intihar	Wheaton, Illinois
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a	Jason M. Miller	Shelburn, Indiana
	Brian Michael Murphy	Indianapolis, Indiana
f	Thomas Robert Raley	Bloomington, Indiana
	Elliot Alexander Schmidt	Rocky River, Ohio
	Aaron James Szczesny	Villa Park, Illinois
	Susan L. Vaughn	Sullivan, Indiana
f	Lintao Wang	Indianapolis, Indiana

### MASTER OF SCIENCE

#### ENGINEERING MANAGEMENT

	Jakob Emanuel Beer	Bad Harzburg, Germany	
			<i>Challenges and Improvements in Supplier Management in the Automobile Industry</i>
			Project Advisor: Professor Terry Schumacher
	Calvin Michael Bueltel	Huntingburg, Indiana	
			<i>Onsite Expansion of a Commodity Chemical Manufacturing Facility</i>
			Project Advisor: Professor Craig Downing
	Mark Enrique Ellis	Vincennes, Indiana	
			<i>Quantitative Model-Driven Scenario-Based Forecasts for a Regional Foundation</i>
			Project Advisor: Professor Terry Schumacher

- James E. Gammon, Jr. ....Dallas, Texas  
*Business Plan for the Cruise Customs Electric Guitar Company*  
Project Advisor: Professor Craig Downing
- Atul Ram Jaganathan .....Chennai, India  
*Algae Carbon Capture Technology in Coal Plants*  
Project Advisor: Professor Terry Schumacher
- Balasubramanian Kannan .....Chennai, India  
*Green/Sustainable Supply Chain Management*  
Project Advisor: Professor William Kline
- Daniel J. Keown .....Brownsburg, Indiana  
*Steel Dynamics, Inc.: Pittsboro Merchant Mill Expansion*  
Project Advisor: Professor Craig Downing
- n William Jarad King .....Bedford, Indiana  
*Gearheads Mobile Lube*  
Project Advisor: Professor Craig Downing
- Beth Knoy Brock .....Speedway, Indiana  
*Pharmaceutical Outsourcing and the Importance of  
Engineering Engagement with External Manufacturing*  
Project Advisor: Professor Thomas Mason
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*Moving Toward Green Logistics:  
Comparing Two Grocery Retailers in the U.S. and Germany*  
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*NPD and Launch of "The Balancer"*  
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- Barry Thomas Schneider .....Westlake, Ohio  
*Steel Dynamics, Inc.: Pittsboro Merchant Mill Expansion*  
Project Advisor: Professor Craig Downing
- n Peter R. Sedillo .....Bloomington, Indiana  
*Continuous Improvement Methods with Respect  
to NSWC Crane's Technical Design Process*  
Project Advisor: Professor Thomas Mason



- f Priyanka Singh .....Patna, Bihar, India  
*Application of Six Sigma Methodologies for  
Improving Overall Equipment Effectiveness (OEE)*  
Project Advisor: Professor Craig Downing
- Keerthana Sivakumar .....Chennai, India  
*Application of Marketing Techniques Used in  
Fast Moving Consumer Goods Companies - India*  
Project Advisor: Professor Craig Downing
- n Singalex Ban Song .....Indianapolis, Indiana  
*Gearheads Mobile Lube*  
Project Advisor: Professor Craig Downing
- n John Edward Williams III .....Bloomington, Indiana  
*Continuous Improvement Methods with Respect  
to NSWC Crane's Technical Design Process*  
Project Advisor: Professor Thomas Mason
- f Franklin Gale Wiseman .....Salem, Indiana  
*Technology Management & Strategy  
Competitive Business Case Development:  
Product Launch of Variable Valve Timing (VVT) Using Powder Metallurgy*  
Project Advisor: Professor Terry Schumacher

#### ENVIRONMENTAL ENGINEERING

- Chelsea Sue Moss .....Bloomington, Indiana  
*Lost Creek Restoration*  
Project Advisor: Professor Sue Niezgoda

#### MECHANICAL ENGINEERING

- f Ryan Patrick Bormann .....Paris, Illinois  
*The Design of a Minimally Invasive Reusable Neurosurgical Instrument*  
Thesis Advisor: Professor Patricia Brackin
- a Ryan Christopher Reuer Gergely .....Wilkinson, Indiana  
*Towards the Optimization of the Preparation Techniques of PMMA Bone Cement*  
Thesis Advisor: Professor Kathleen Toohey
- Guha Raman .....Chennai, India  
*Exergy Analysis of Flue Gas Cooling for a  
Chilled Ammonia CO<sub>2</sub> Separation Process*  
Thesis Advisor: Professor Donald Richards
- Kameshwaran Sasidharan .....Chennai, India  
*Improved Techniques for Experimental Determination  
of Room Acoustical Reverberation Times*  
Thesis Advisor: Professor Darrell Gibson

OPTICAL ENGINEERING

Aaron Boyd Cole .....Makanda, Illinois  
*High-Speed Optical Accumulator for a High-Speed  
Delta-Sigma Optical Analog-to-Digital Converter*  
Thesis Advisor: Professor Azad Siahmakoun

a Yiye Jin .....Wuhan, China  
*A Photonic Analog-to-Digital Converter  
Based on Delta-Sigma Modulation*  
Thesis Advisor: Professor Azad Siahmakoun

Tyler Wayne Masterson .....Wabash, Indiana  
*Measurements of Optical Nonlinearities  
Using a Nanosecond White Light Continuum*  
Thesis Advisors: Professor Richard Lepkowicz and Robert Bunch

Erin Marie Reeves .....Waukegan, Illinois  
*Photonic Asynchronous Delta-Sigma Modulation*  
Thesis Advisor: Professor Azad Siahmakoun

Jessica Lee Wittig .....Oakwood, Illinois  
*Evolution of Surface Structures via Ultrashort Pulse Processing*  
Thesis Advisor: Professor Galen Duree

SUMMER OR NOVEMBER COMPLETION  
APPLIED BIOLOGY AND BIOMEDICAL ENGINEERING

APPLIED BIOLOGY

Kristen Nicole Latta .....Brazil, Indiana

BIOMEDICAL ENGINEERING

Nicholas Alan Leedy .....Kalona, Iowa

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Trever Wayne Schoolcraft .....Henryville, Indiana

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Ryan James Eslinger .....Centerville, Ohio

Cyril Benjamin Rybicki .....Sterling Heights, Michigan

COMPUTER ENGINEERING

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Gardner Ross Peck .....Danville, Illinois

Tyler Andrew Strayer .....Muncie, Indiana

Double Major in COMPUTER ENGINEERING and COMPUTER SCIENCE

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MECHANICAL ENGINEERING

Mohammed Salem Alsaud .....Alhasa City, Saudi Arabia

Mitchell Wayne Buffington .....Spotsylvania, Virginia

Daniel Harrison Dalenberg .....Georgetown, Illinois

Christopher Michael Duncan .....Terre Haute, Indiana

Patrick Scott Duncan .....Terre Haute, Indiana

Ethan John Kelly .....Hong Kong

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Ryan Lee Parker .....Robinson, Illinois

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Double Major in MECHANICAL ENGINEERING and ELECTRICAL ENGINEERING

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## A Brief History of Rose-Hulman/Rose Poly

Local businessman, entrepreneur, railroad builder, leading citizen and philanthropist Chauncey Rose, and nine of his friends founded Rose Polytechnic Institute in 1874 "for the intellectual and practical education of young men," according to the original charter.

The school grew from its original class of 25 students to more than 200 by 1903, educating them in five engineering curricula: mechanical, civil, electrical, architectural and chemical. As the first private engineering college west of the Allegheny Mountains, the school provided a rigorous curriculum from the beginning.

A growing enrollment required a move from the middle of Terre Haute (now used as Chauncey Rose Middle School) to a 123-acre farm east of the city on U.S. 40 (our current location), which was donated by the Hulman family. Classroom and residential buildings began to be constructed, and campus life officially began with athletics, Greek life, musical organizations and publications available to students.

Campus did not change too much from 1900 to 1961, with enrollment remaining around 300 to 400 students, but degree programs in mathematics, physics and chemistry were added in 1958. Beginning about 1962, however, dramatic changes began as campus facilities expanded to include the Hulman Union and new housing facilities, as well as a recreation center.

The Hulman family continued their tradition of philanthropy, turning over the assets of their foundation in 1971, and that is when the college was renamed Rose-Hulman Institute of Technology.

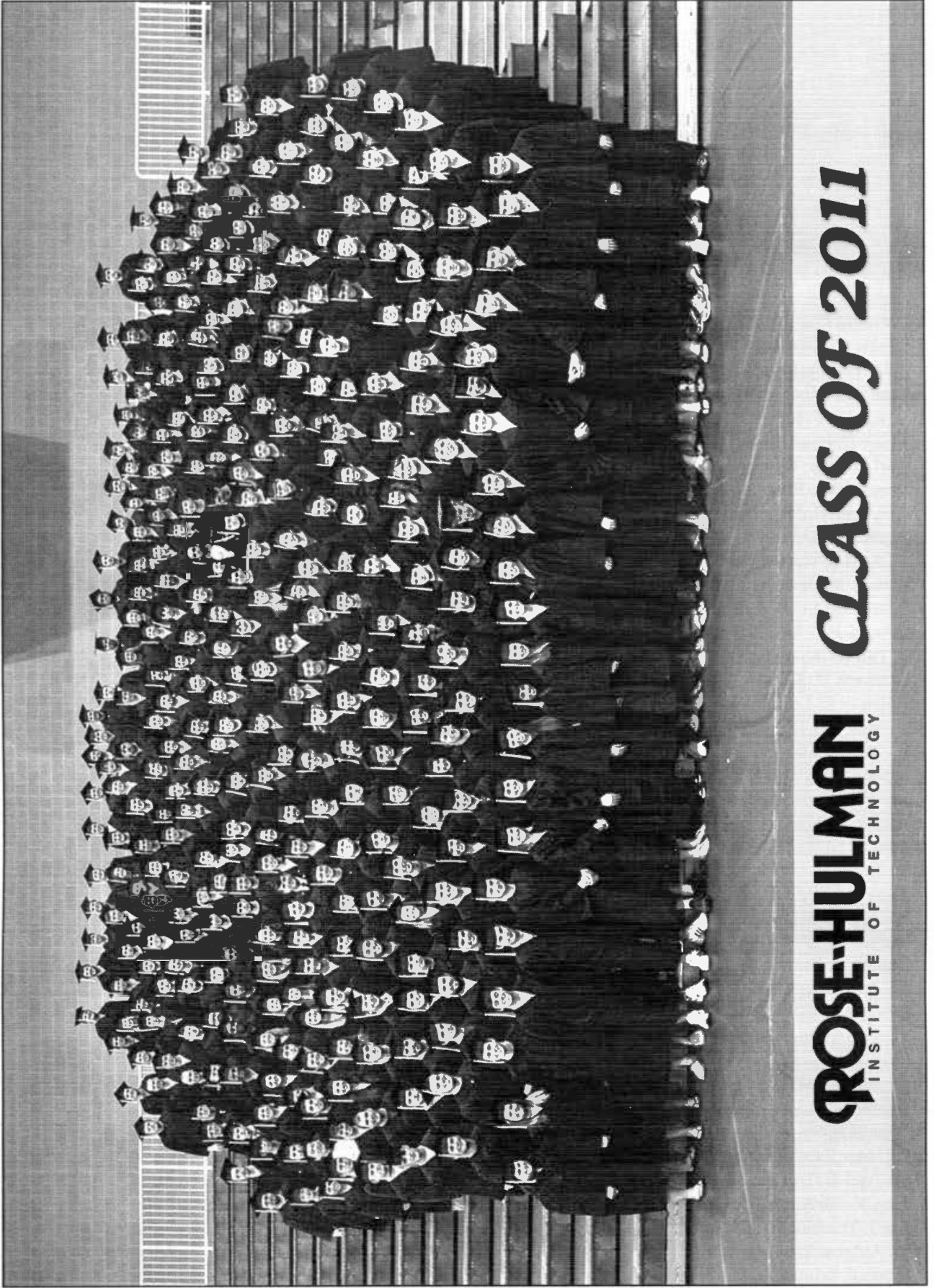
The succeeding decades have seen growth at an accelerated pace, with one of the most notable changes being the admission of women to the college in 1995. Today, Rose-Hulman's undergraduate enrollment stands at 1,875 students.

The college's reputation has been strong since its inception and continues to grow. For the past 12 years, Rose-Hulman has been ranked number one by engineering educators as the nation's best college or university that offers the bachelor's or master's degree as its highest degree in engineering, according to America's Best Colleges guidebook, published annually by U.S. News & World Report. Rose-Hulman is also recognized internationally through its relationships with universities in countries such as Germany, Russia, Ireland, Japan and China.



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