2010 Rose-Hulman Institute of Technology : One-Hundred and Thirty-Second Commencement
One Hundred and Thirty-Second

Commencement

of

Rose-Hulman
Institute of Technology

11 a.m., May 29, 2010
Sports and Recreation Center

2010 Commencement Program
2010 Commencement Program

Prelude .......................................................... Crossroads Brass

Academic Procession .................................................. Peter Gustafson, B.S., M.S.
Marshals and Vice President for Student Affairs and Dean of Students

Processional .................................................... Indianapolis Emerald Society Firefighters Bagpipers

National Anthem .................................................. Rose-Hulman Performing Arts Ensemble

Invocation .......................................................... Sarah Erhart
Past President, Student Government Association

Welcome .......................................................... Matt Branam, B.S.
President

Comments from Senior Class ........................................... Meredith Woodard
President, Senior Class

Awarding of Heminway Medal ........................................... Arthur Western, B.S., M.S., Ph.D.
Vice President for Academic Affairs and Dean of Faculty

John T. Royse Award ................................................. Peter Gustafson

Herman A. Moench Distinguished Senior Commendation ........ Keith Hoover, B.S., M.S., Ph.D.
Professor of Electrical and Computer Engineering

Outstanding Graduate Thesis Award ................................... Daniel Moore, B.S., M.S., Ph.D.
Associate Dean of the Faculty

Introduction of Honorary Degree Recipient ......................... Gregory Thomas Neumann
Class of 2010, Chemical Engineering

Awarding of Honorary Degree ........................................... Matt Branam

Introduction of Honorary Degree Recipient
and Commencement Speaker ........................................... Sean Cody
President, Blue Key

Awarding of Honorary Degree ........................................... Matt Branam

Commencement Address ................................................ Dr. Bob Metcalfe, B.S., M.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 ................................................. Todd Royer (Class of '80), B.S.
President, Alumni Association

Dean’s Outstanding Teacher Award .................................... Arthur Western

Board of Trustees’ Outstanding Scholar Award .................... William Fenoglio, B.S., Eng. D.
Chairman of the Board of Trustees

President’s Outstanding Service Award ................................ Matt Branam
"Alma Mater" ........................................... Rose-Hulman Performing Arts Ensemble

Benediction .............................................................. Sabre Evans

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. Bob Metcalfe
Polaris Venture Partners

Dr. Bob Metcalfe is an MIT engineer, Harvard mathematician, Internet pioneer, Xerox scientist, Ethernet inventor, Stanford professor, 3Com founder, Cambridge fellow, InfoWorld pundit, and now Polaris partner. Metcalfe joined Polaris Venture Partners in January 2001 and is a general partner in the Waltham office.

Metcalf had three other careers in technological innovation before becoming a venture capitalist:

• While an engineer-scientist (1965-1979), Bob helped pioneer the Internet. In 1973, at the Xerox Palo Alto Research Center, he invented Ethernet, the local-area networking (LAN) standard—Internet plumbing—on which he shares four patents.

• As an entrepreneur-executive (1979-1990), Bob founded and grew 3Com Corporation, the billion-dollar networking company where at various times he was Chairman, CEO, division general manager, and vice president of engineering, sales, and marketing.

• From 1992-1995, Metcalfe served as chief executive officer of International Data Group’s InfoWorld Publishing Company. Also, for eight years, he shared his opinions about the Internet in a syndicated InfoWorld column read weekly by more than half a million information technologists.

Our speaker serves on the boards of Polaris-backed start-ups including 1366, Ember, Infinite Power Solutions, SiOnyx, and Sun Catalytix. Bob is also a director-trustee-advisor to Avistar Communications, USC Stevens Institute, MIT, and MIT’s Energy Initiative, Department of Electrical Engineering and Computer Science, Department of Chemistry, Dean of Engineering, and Dean of Science.

In 1969, Metcalfe graduated from the Massachusetts Institute of Technology with bachelor degrees in electrical engineering and in industrial management. He received a master degree in applied mathematics from Harvard University in 1970. In 1973, he received his Ph.D. in computer science from Harvard.

Metcalf was honored with the National Medal of Technology, at a 2005 White House ceremony, for his “leadership in the invention, standardization and commercialization of Ethernet.” He also has been inducted into the National Inventors Hall of Fame and the Computer History Museum Hall of Fame; elected to the National Academy of Engineering and American Academy of Arts and Sciences.

After 22 years in Silicon Valley, Doctors Robyn and Bob Metcalfe now live in Boston and Maine.
Honorary Degree
Honorary Doctor of Engineering
James R. Baumgardt
Chairman of the Board of NICO Corporation

A leader in the life sciences field, James R. Baumgardt serves as chairman of the board of NICO Corporation and director of Neochord Inc. Both are development-stage companies focused on minimally invasive surgical technologies.

Baumgardt also is a partner with Twilight Ventures, an Indiana based life sciences venture capital business, and he previously served as director of Laserscope.

Association with Rose-Hulman includes being an emeritus member of the Board of Trustees and former chairman of the trustees' Rose-Hulman Ventures Affairs Committee. He also serves on the advisory boards of Butler University’s School of Business and Purdue University’s School of Biomedical Engineering.

At the conclusion of a 25-year career with Eli Lilly and Company, where he had assignments in engineering, sales, marketing and business development, he served as executive director of business development. In that role, he was an executive on the team that took Guidant Corporation public in 1994. As one of the founders of Guidant Corporation, he served as president of Guidant Sales Corporation until his retirement in 2000.

Upon retirement, Baumgardt became president of the Guidant Foundation, a nonprofit charitable organization dedicated to education and advocacy for patients who are at risk or suffer from cardiovascular disease. He served in that position until 2006.


Most recently, he was chairman of Rose-Hulman’s Leading the Next Decade of Innovation gala where he was credited with outstanding service and generosity to Rose-Hulman. Our honoree was instrumental in raising Rose-Hulman’s profile in one of our most important business/technology sectors — life sciences.

Baumgardt earned a bachelor of science degree in chemical engineering from Rose-Hulman Institute of Technology in 1970 and a master’s of business administration from Butler University.

Baumgardt and his wife, Sharon, reside in Zionsville, Indiana.
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 1960 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 1960 returned to campus for today's ceremony.

Class of 1960
Attending Commencement 2010

Jim Bauch, Greensboro, Georgia
Larry Berger, Culver, Indiana
Franklin Fisher, Los Angeles, California
Ted Jaenke, St. Peters, Missouri
Ronald Jennings, New Palestine, Indiana
Bill Johnson, Ft. Wayne, Indiana
Robert Johnson, Nederland, Texas
Donald Moyer, Silver Lake, Ohio
Bill Perkins, Tempe, Arizona
Joel Waldbieser, Terre Haute, Indiana
Don Welker, Round Rock, 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 Millenium sculpture bordered by the phrase “Continuing Our Legacy of Excellence.”
Scholarship Honors

Students graduating with a scholarship index for 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

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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>G</td>
<td>Technical Translators Program-German</td>
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<td>A</td>
<td>U.S. Army Commission</td>
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<td>AF</td>
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<td>Certificate</td>
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<td>R</td>
<td>Robotics Certificate</td>
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Graduation Date Designations

Special codes indicate students who completed their degree requirements prior to May 29, 2010. Those designations are:

- a August 29, 2009
- n November 23, 2009
- m March 1, 2010

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 still 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

Emily Anne Curtis ................................................. Plainfield, Indiana
Kristin Elizabeth Greer ............................................. Batavia, Ohio
Evan Paul Jones .................................................. Anderson, Indiana
Mariya Olegovna Krisenko ........................................... Brazil, Indiana
Megan Elizabeth Lu ................................................ Woodbine, Maryland
Jeanie Marie Sozansky ................................................. Greentown, Indiana
Kirk Michael Thompson ........................................... Harrisburg, Illinois

Two Degrees: APPLIED BIOLOGY and SOFTWARE ENGINEERING

Robert John Williamson ........................................ Alpine, Texas

Double Major in APPLIED BIOLOGY and BIOCHEMISTRY & MOLECULAR BIOLOGY

Marcus William Stepp ........................................... Floyds Knobs, Indiana

Double Major in APPLIED BIOLOGY and BIOMEDICAL ENGINEERING

Haocheng Zhou .................................................. Arcadia, California

BIOMEDICAL ENGINEERING

Cody Matthew Austin ........................................ Fort Wayne, Indiana
Matthew Scott Bryant ........................................... Greenfield, Indiana
Annie Elizabeth Bullock ......................................... Bedford, Indiana
Lauren Hana Christensen ......................................... Duluth, Minnesota
Sarah Ann Dempsey ............................................... Billerica, Massachusetts
Justin Andrew Druba ........................................ Hanover, Indiana
Andrew Curtis Ernster ........................................ Lewiston, Idaho
Jordan Alyse Goslee ............................................... Saint Joseph, Michigan
Lauren Noelle Griggs ........................................ New Palestine, Indiana
Kyle Evan Harbison ............................................... Rockville, Indiana
Julie Anne Hart .................................................. La Porte, Indiana
Sungae Sara Hong ................................................ Edmond, Oklahoma
David Andrew Hormuth II ....................................... Indianapolis, Indiana
Elaine Faith Houston ............................................... Hopewell Junction, New York
Leah Ann Howard .................................................. Crawfordsville, Indiana
Erin Briggs Johnson ............................................. Lexington, Kentucky
Margaret Rose Kelly ........................................... Elkhart, Indiana
Daniel Ryan King ................................................... Batesville, Indiana
Sabrina Nicole Liechty ........................................ Clay City, Indiana
Jarod Christopher Markley .................................... Liberty, Indiana
Brittaney Michelle Maurer ...................................... Delphi, Indiana
Andrew Charles McLeish ........................................ Indianapolis, Indiana
Jessica Michelle Mitchum (Neeb) .................................. Fountaintown, Indiana
Kyle Thomas Moore .................................................. Champaign, Illinois
<table>
<thead>
<tr>
<th>Name</th>
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<tr>
<td>Joseph Patrick Morand</td>
<td>Kalamazoo, Michigan</td>
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<td>Kate Elizabeth Pippins</td>
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<td>Bryan William Poulsen</td>
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<td>Samantha Kay Ratley</td>
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<td>Matthew Connor Rusin</td>
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<td>Benjamin Taylor Schrod</td>
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<td>Erinn Sheridan</td>
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<td>Angela Marie Starner</td>
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<td>Darcie Caitlin Thomas</td>
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<td>Didem Tunç</td>
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<td>Charles Jerome Tuskan III</td>
<td>Saint John, Indiana</td>
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<td>Michael Gregory Volitich</td>
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<td>Jeremiah Anthony Wolfe</td>
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<td>Sarah Michelle Younger</td>
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<td>Deborah Michelle Aleksa</td>
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<td>Marlow John Bakken</td>
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<td>Steven Donald Bridge</td>
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<td>Calvin Michael Bueltel</td>
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<td>Brianna Nicole Butchart</td>
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<td>Sean David Cody</td>
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<td>Allison Janette Cross</td>
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<td>Jennifer Lynn Fischer</td>
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<td>Alexander Steven Frederick</td>
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<td>Brenna Kate Fullin</td>
<td>Westerville, Ohio</td>
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<td>Alicia Marcela Gilpin</td>
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<td>Bridget Kay Goergen</td>
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<td>Stephanie Katherine Hance</td>
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<td>Scott Tyler Heckman</td>
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<td>Zachary Thomas Hocutt</td>
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<td>Chelsea Arianna Howard</td>
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<td>Marcella Renee Huber</td>
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<td>Satomi Kaminaga</td>
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<td>Helen N. Kim</td>
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<td>Nicholas Adam Kirkland</td>
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<td>Brittany Maria Koob</td>
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Christopher Steven Kysilka .................................. West Chester, Ohio
Joni Moselle Lipkowitz ................................... Seymour, Tennessee
Joshua Ryan Loudermilk .................................. Robinson, Illinois
Peter Thomas Maginot .................................. Crown Point, Indiana
Robert Benjamin Martin .................................. Merrillville, Indiana
Michael Jonathan Mast .................................. Storm Lake, Iowa
Jeffrey Charles McCartney .................................. Wooster, Ohio
Albert W. Mui .............................................. Naperville, Illinois
Danica Danielle Neier .................................. Brazil, Indiana
Sarah Kathleen Nejfelt .................................. Bloomington, Indiana
Gregory Thomas Neumann .................................. Fort Wayne, Indiana
Erin Leigh Parker .............................................. Germantown, Tennessee
Darren John Parzych .............................................. Pearland, Texas
Mark Curtis Parzych .............................................. Pearland, Texas
Anthony Louis Pisano .................................. Phoenix, New York
Bradley Austin Pruet .............................................. Highland, Illinois
Jessica Elaine Rogers .................................. Johnston City, Illinois
Melissa Ann Rogers .................................. New Market, Indiana
Rachel Elyse Schaftlein .................................. Milltown, Indiana
Miteshkumar K. Shah .................................. Cincinnati, Ohio
Daniel Gregory Stark .............................................. Ashland, Kentucky
Adam Michael Strom .............................................. Naperville, Illinois
Abigail Katherine Switzer .................................. Marion, Ohio
Adam Russell Taylor .................................. West Chester, Ohio
Denise Naomi Tom .................................. South Pasadena, California
Charles Christopher Vana .................................. Des Plaines, Illinois
Megen Frances Velten .................................. Rhome, Texas
Adam Dennis Vogt .................................. Dorr, Michigan
Brian Matthew Wamsher .................................. Loveland, Ohio
Patrick Louis Victor Zacherl .................................. Fond du Lac, Wisconsin

Two Degrees: CHEMICAL ENGINEERING and CHEMISTRY
Theodore Edwin Frater .................................. Madison, Wisconsin

Two Degrees: CHEMICAL ENGINEERING and MECHANICAL ENGINEERING
Cody Charles White .............................................. Urbana, Indiana

Double Major in CHEMICAL ENGINEERING and BIOCHEMISTRY & MOLECULAR BIOLOGY
Amanda Amy Lundahl .................................. Lake Forest, Illinois

Double Major in CHEMICAL ENGINEERING and CHEMISTRY
Scott Richard Klare .................................. Haddam, Connecticut
Dean Nicolaus Straub .................................. Rolling Meadows, Illinois
CHEMISTRY

Brett Michael Anderson ................................................. Milford, Michigan
Joseph Flancia Barlan ..................................................... Astoria, New York
Michael Real Montalbo, Jr. .............................................. Reno, Nevada
Anthony Nickolas Henry Pearce ..................................... La Porte, Indiana
Tyler Allen Werke ............................................................. Bettendorf, Iowa

Two Degrees: CHEMISTRY and CHEMICAL ENGINEERING
Timothy Andrew Mosley ................................................. Centerville, Indiana

Double Major in CHEMISTRY and BIOCHEMISTRY & MOLECULAR BIOLOGY
Sarah Elizabeth Erhart .................................................. New Castle, Indiana
Joshua Duane Knapp ...................................................... Boonville, Indiana
Kathryn Elizabeth Sernett ................................................ Crystal Lake, Illinois
Eric Alan Smith ............................................................ Clinton, Indiana

Double Major in CHEMISTRY and MATHEMATICS
David Robert Cooper ....................................................... Houston, Texas

CIVIL ENGINEERING

Katie Arminda Anderson ................................................ Lancaster, Ohio
Steven James Barbian .................................................... Cincinnati, Ohio
Kyle Matthew Beaty ........................................................ Needham, Indiana
Jason Mark Bulson .......................................................... Hopewell Junction, New York
Corrie Elizabeth Campbell ............................................ Pittsburgh, Pennsylvania
Daniel Scott Clapp .......................................................... Rockville, Indiana
Trevor Jason Clark .......................................................... Avon, Indiana
William J. Crosby .......................................................... Merrillville, Indiana
Colin Michael Dale .......................................................... Lebanon, Indiana
Mathew David Deaton ...................................................... Vevay, Indiana
Emily Margaret Eddy ........................................................ Amherst, Massachusetts
Andrew Dean Emly .......................................................... Clarksville, Indiana
Troy Robert Eveslage ...................................................... Ramsey, Indiana
Sarah Marie Farlow ........................................................ Fort Wayne, Indiana
Megan Marie Gasser ........................................................ Huntington, Indiana
Stephanie Lynn Harrington .............................................. Houston, Texas
Sarah Ashley Hoch ........................................................ Huntington, Indiana
Eric Scott Hollenkamp .................................................... Salem, Illinois
Jonathan Michael Korff .................................................. Canton, Georgia
Alexandria Grace Kowatch ............................................. Tinley Park, Illinois
Riley Culligan Lubbers ................................................... Florence, Montana
Nicholas Rogers Maloney ................................................ Cary, Illinois
Nicholas Ray Murphy ........................................................ Casey, Illinois
Bradley Stephen Pease .................................................... New Haven, Indiana
Cole Tyler Perry ............................................................... Columbus, Indiana
Justin Paul Perry .......................................................... Salem, Indiana
Alexander Derek Piper ................................................... Saint Petersburg, Florida
Jonathan Paul Seger ...................................................... Jasper, Indiana
Ryan Barbour Sidler ....................................................... Lemont, Illinois
Joshua Philip Steiner ...................................................... Jeannette, Pennsylvania
Benjamin Troy Stenger ...................................... Brookville, Indiana
Jared James Stermole ........................................ North Ridgeville, Ohio
Joel Michael Strayer ........................................ Reisterstown, Maryland
Jeremy Lee Taylor ........................................... Osceola, Indiana
Elias Emmanuel Tselentakis ................................ Thessaloniki, Greece
Bernard Bradley Vannoy ..................................... Westminster, Maryland
CM* Jeremy Patrick Zindel ....................................... Moweaqua, Illinois

COMPUTER SCIENCE AND SOFTWARE ENGINEERING

COMPUTER SCIENCE

m ** Michael Gregory Boland ................................... Terre Haute, Indiana
Benjamin James Campbell .................................... Dresden, Ohio
m Anthony James Ferrell .................................... Kirkland, Washington
James Christopher Gahn .................................... Lexington, Kentucky
m Brant Langer Gurganus .................................. Indianapolis, Indiana
Matthew Maxwell Iverson .................................. Centerville, Indiana
Gregory Christopher Jackson ................................ Carol Stream, Illinois
** Chandler Clayton Kent ..................................... Antioch, Illinois
** Daniel Joseph Knight ..................................... Lake in the Hills, Illinois
*** David James Loughry .................................... Crescent City, California
* Logan Daniel Price .......................................... Modoc, Indiana
Daniel Sabin .................................................... Madbury, New Hampshire
I Nathaniel Lee Sickler ........................................ Morocco, Indiana
n ** Brenon Todd Smith ........................................ Woodbury, Minnesota
John William Zeiser .......................................... Sunman, Indiana

Double Major in COMPUTER SCIENCE and MATHEMATICS

** John-Paul Verkamp .......................................... Kyana, Indiana

Double Major in COMPUTER SCIENCE and SOFTWARE ENGINEERING

** Paul William Banister ..................................... Columbus, Indiana

SOFTWARE ENGINEERING

m ** Andrew Timothy Carlson ................................ Virginia Beach, Virginia
Derek Russell Hammer ........................................ Plainfield, Indiana
Timothy Sean Marriner, Jr. .................................. Hagerstown, Maryland
Patrick James Nowicki ....................................... Cincinnati, Ohio
Alexander Richard Packard ................................ .Brazil, Indiana
* Drew Hilton Paine .......................................... Terre Haute, Indiana
Benjamin Michael Smith ..................................... Anoka, Minnesota

Double Major in SOFTWARE ENGINEERING and COMPUTER ENGINEERING

*** Steven Joseph Stark ........................................ Saint John, Indiana

Double Major in SOFTWARE ENGINEERING and COMPUTER SCIENCE

Stephen Donald Hauser ........................................ Lake Barrington, Illinois
** Ryan Neal Parnas .......................................... Saint Louis, Missouri
** Bradley Barnett Wehmeier ................................ West Chester, Ohio
** Israel Iraalexander Wilson II ................................. Carthage, Indiana
Double Major in SOFTWARE ENGINEERING and MATHEMATICS

M ** Tyler Edwin Christian Gonnsen ............................................. Maquoketa, Iowa

Double Major in SOFTWARE ENGINEERING and PHYSICS

* Kyle Alexander Rhodes .................................................. Indianapolis, Indiana

ECONOMICS

m Janelle Celeste Crockett .................................................. Indianapolis, Indiana

ELECTRICAL AND COMPUTER ENGINEERING

ELECTRICAL ENGINEERING

** Andrew Robert Anderson ........................................... Cold Spring, Minnesota
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m * Jeffrey David Borth .................................................... Palatine, Illinois
Richard Lee Brinson, Jr. ..................................................... Linton, Indiana
Wescott Paul Clark .......................................................... Westminster, Maryland
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Richard Joseph Collins ..................................................... Chino Hills, California
m*** Benjamin Stassen Cook .................................................. Algonquin, Illinois
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Jonathan Daniel Turpen ..................................................... Danville, Indiana
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Double Major in ELECTRICAL ENGINEERING and COMPUTER SCIENCE

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COMPUTER ENGINEERING

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* Brian David Embry ............................................. Clinton, Michigan
Joshua Thomas Hayfer ............................................. Cincinnati, Ohio
Steven Andrew Junker .............................................. Indianapolis, Indiana
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Clayton Lee Shotwell ............................................... Arcadia, Indiana
* Elliot Andrew Simon ........................................... Paradise Valley, Arizona
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Two Degrees: COMPUTER ENGINEERING and PHYSICS

S ** Benjamin Andrew Seibert .................................. Beavercreek, Ohio

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Two Degrees: MATHEMATICS and ECONOMICS

** Sophia Dorothy Sullivan .................................. Chapel Hill, North Carolina

Two Degrees: MATHEMATICS and PHYSICS

** Artem Yankov ............................................... Coventry, Rhode Island

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Gregory James Zynda, Jr. ........................................ Lemont, Illinois

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** Rebecca Marie Fehribach ................................... Hilliard, Ohio

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MECHANICAL ENGINEERING

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Braxton Curtis Anderson ....................................... Terre Haute, Indiana
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n ** Kurtis Storms Muehlenkamp ................................ Wyoming, Ohio
Two Degrees: MECHANICAL ENGINEERING and CHEMICAL ENGINEERING

AF*** Joseph Karl Ausserer ........................................... Beavercreek, Ohio

Double Major in MECHANICAL ENGINEERING and ECONOMICS

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Double Major in MECHANICAL ENGINEERING and ELECTRICAL ENGINEERING
Clayton Liborio MacCrindle ........................................ Village of Lakewood, Illinois

Double Major in MECHANICAL ENGINEERING and MATHEMATICS
Frederick Howard Freers ........................................ Warren, Michigan

PHYSICS, OPTICAL ENGINEERING AND ENGINEERING PHYSICS

PHYSICS

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Adam Leonard Monnier ........................................ Valparaiso, Indiana

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Emily Kristine Walker ........................................ Vadnais Heights, Minnesota

Two Degrees: PHYSICS and MATHEMATICS
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* Thomas James Kleeman ........................................ Wilmette, Illinois

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Double Major in PHYSICS and OPTICAL ENGINEERING

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S ** Matthew Stephen Mills ...................................... Olmsted Falls, Ohio

OPTICAL ENGINEERING

S Kendra Rashell Albers ........................................ Knoxville, Tennessee
Landry Aaron Carbo ........................................ Lafayette, Louisiana

*** Anthony Cecere Klee ........................................ Billings, Montana
S Hannah Lynn LaFleur ........................................ Exeter, California

*** Matthew Charles Reichert ................................ Robbinsdale, Indiana
Clint Michael Thompson ........................................ Spokane, Washington
Meredith Lorraine Woodard .................................... Nashville, Tennessee

Double Major in OPTICAL ENGINEERING and PHYSICS

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ENGINEERING PHYSICS

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Samuel Matthew Howell ........................................ Kettering, Ohio

* Christian Burke Iversen ..................................... Eagle River, Alaska

*** Brian Thomas Kiraly ........................................ Granger, Indiana
S *** Katherine Cora Kragh .................................... Arlington Heights, Illinois
James William Preston ........................................ North Manchester, Indiana
S Morgan Andrew Roddy ........................................ Vaughn, Washington
MASTER DEGREES

MASTER OF ELECTRICAL AND COMPUTER ENGINEERING

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Mark Francis Jacobson .................................. Naperville, Illinois
James Reagan Kaupert .................................. San Antonio, Texas
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John Douglas Stein ..................................... Bloomington, Indiana
Brett Allen Stephens .................................... Petersburg, Indiana
Vidhushah Sudhakar .................................... Chennai, India
Oluwatomi A. Walker ................................... Ibadan, Nigeria
Shawn Waltz ............................................. Jacksonville, Florida

MASTER OF SCIENCE

BIOMEDICAL ENGINEERING

Samantha Renee DeVries ................................... Fort Wayne, Indiana
Design of a Parallel Manipulator Device for Wrist Joint Testing
Thesis Advisor: Professor Renee Rogge

Susumu Tokunaga ....................................... Tokyo, Japan
Finite Element Analysis of a Composite Tibia: Validation and Parametric
Studies of Femoral Loading Conditions on Strain in the Proximal Tibia
Thesis Advisor: Professor Renee Rogge

Cory P. Wright ........................................... Mooresville, Indiana
Micromechanical Modeling of the Nonlinear Stress-Strain
Response of Collagenous Tissue
Thesis Advisor: Professors Kay C Dee and Glen Livesay

CHEMICAL ENGINEERING

Dianna Katherine Artigue ................................ Terre Haute, Indiana
Multivariable Control and Operation of a Corning Distillation Column
Thesis Advisor: Professor Atanas Serbezov
ENGINEERING MANAGEMENT

F. Kristen Bailey ........................................... Ellettsville, Indiana
*Process Improvement and Management of ATB Advance Production*
Project Advisor: Professor Richard Stamper

Jason Marion Davis ........................................ Loogootee, Indiana
*Evaluating Alternative Logistics Management Structures to Support the Warfighter*
Project Advisor: Professor Craig Downing

Henrike Dietrich ........................................... Potsdam, Germany
*Site Selection in the United States of America*
Project Advisor: Professor Craig Downing

Ashley Marie Erffmeyer ........................................ Lemont, Illinois
*Examination of Nontechnical Education for the Automotive Industry*
Project Advisor: Professor Thomas Mason

Jeffrey Dillon Hash ........................................... Franklin, Indiana
*Catheterization of Fiber-Based Ultrashort-Pulse Laser Technologies for Athermal Tissue Ablation*
Project Advisor: Professor Thomas Mason

Joseph John Katzenberger ................................... Crawfordsville, Indiana
*Engineering and Business Strategy for Freudenberg-NOK and the Manufacturing and Technology Center*
Project Advisor: Professor Craig Downing

Manuel U. Kuttenkeuler ................................... Würzburg, Germany
*Implementation of RJ45 Product Line to Fuling Manufacturing Utilizing Lean Manufacturing Concepts*
Project Advisor: Professor William Kline

Oliver Linthe ........................................... Helmstedt, Germany
*Supplier Management of a Multi-National Car Manufacturer: A Case Study of the Volkswagen Group China*
Project Advisor: Professor Craig Downing

Sadhana Mohideen ............................................... Trichy, India
*Launching and Financing Emerging Technologies: A Case-Study of Nanotechnology in Computing*
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*The Green Alloy - An Analysis of 100% Recycled Aluminum Household Foil at Novelis*
Project Advisor: Professor William Kline

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*Axis Small Scale Wind Power*
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Neeraj Neelakantan ........................................... Srirangam, India
Axis Small Scale Wind Power
Project Advisor: Professor William Kline

Prashanth P.K.R. ............................................... Chennai, India
Applying Lean Principles to a High-Mix and a Low-Volume Production Model
Project Advisor: Professor Craig Downing

Thomas Scott Reives ....................................... Indianapolis, Indiana
Diversity Recruiting and Retention Strategies - An Evaluation
of Rose-Hulman's Recruiting Strategy and Recommendations
for Enhancement Based on Researched Methods and Best Practices
Project Advisor: Professor Craig Downing

Darin G. Schaeffer ....................................... Bloomington, Indiana
Process Improvement and Management of ATB Advance Production
Project Advisor: Professor Richard Stamper

Marie Schulze ............................................... Leipzig, Germany
Optimization of a Joining Process in the Common Rail Injector Assembly
Project Advisor: Professor Richard Stamper

Henry B. Stitsworth ....................................... Columbus, Indiana
New Strategy and Organizational Model
Fridley Test Operations Cummins Power Generation
Project Advisor: Professor William Kline

MECHANICAL ENGINEERING

Matthew Douglas DeVries .................................. Grand Haven, Michigan
Robotic Part Selection, Positioning and Orientation Using Machine Vision
Thesis Advisor: Professor David Fisher

Ryan Drew Hodge ........................................... Ellettsville, Indiana
A Parametric Study of Linear Bolted Joint Models and an Analysis Method to
Account for Intermittent Contact in Determination of Natural Frequencies
Thesis Advisor: Professor Phillip Cornwell

Victor Ferdinand Koenig .................................... Stuttgart, Germany
Parameter Identification of Unmanned Aerial Vehicles
Thesis Advisor: Professor Bradley Burchett

Avinash Ramesh ............................................ Chennai, India
Physical Aspects of a Computational Model for a Gas Turbine Combustor
Thesis Advisor: Professor Calvin Lui

Thomas Charles Hisashi Roberts .......................... Pacific Grove, California
Fuel Cell Transfer Function Modeling
Thesis Advisor: Professor Patrick Cunningham
Christoph Johannes Schweizer ............................ Riegelsberg, Germany
Set-Valued Filtering of Discrete Time Nonlinear Systems Using Semidefinite Programming
Thesis Advisor: Professor Phillip Cornwell

Steven Soots ............................................. Indianapolis, Indiana
Dynamic Fuzzy Models of the Fastrac Startup Sequence for Fault Detection
Thesis Advisor: Professor Bradley Burchett

Delmar Andrew Sowders .................................. Greensburg, Indiana
The Effect of Upstream Thermal Boundary Condition on Convective Heat Transfer Coefficient on A Film-Cooled Flat Plate
Thesis Advisor: Professor James Mayhew

Katy Ren'e Swanson ....................................... Buena Vista, Oregon
Experimental Determination of Subsonic Flow Characteristics of an Axisymmetric, Surface-Mounted Obstacle to Improve CFD Methods
Thesis Advisor: Professor Frederick Haan

Alex M. Mulvihill ............................................ Portage, Indiana
Wideband Photonic RF Phase Shifter
Thesis Advisor: Professor Azad Siahmakoun
SUMMER COMPLETION

CHEMICAL ENGINEERING
Michael Robert Janes ......................................... Hinsdale, Illinois

Double Major in CHEMICAL ENGINEERING
and BIOCHEMISTRY & MOLECULAR BIOLOGY
Tiffany Parrott .................................................. Louisville, Kentucky

CIVIL ENGINEERING
Sean Michael Myers .......................................... Terre Haute, Indiana
Derek Jordan Simon ........................................ Huntington, Indiana

COMPUTER SCIENCE AND SOFTWARE ENGINEERING

COMPUTER SCIENCE
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Christopher Ryan Routh ..................................... Muncie, Indiana
Jared Leigh Vanderford ...................................... Burns Flat, Oklahoma
Jonathan R. Woodworth ..................................... Milton, Massachusetts

Double Major in COMPUTER SCIENCE and MATHEMATICS
Rex Edward Chappell ......................................... Smithville, Georgia
Mark William Grandjean ..................................... Honesdale, Pennsylvania

ELECTRICAL AND COMPUTER ENGINEERING

ELECTRICAL ENGINEERING
Shaun Michael Quirk ........................................ Muncie, Indiana

MATHEMATICS
Jeffrey Michael Miller ....................................... Danville, Indiana
Emma Elizabeth Snively ..................................... Crystal, Michigan

MECHANICAL ENGINEERING
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Todd Eric Deskin .............................................. Greenville, Ohio
James Brandon Duke .......................................... Thorntown, Indiana
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Scott Philip Vicino ........................................... Oak Brook, Illinois
NOVEMBER COMPLETION

CHEMICAL ENGINEERING
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Monica Christine Guzik ..................................... Avon, Ohio

CIVIL ENGINEERING
Vinh Xuan Dao ................................................ Indianapolis, Indiana

COMPUTER SCIENCE AND SOFTWARE ENGINEERING

COMPUTER SCIENCE
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Mitchell Lee Garvin ........................................... Franklin, Indiana
Kyle Robert Kopacz ......................................... Burton, Michigan
Matthew Colin Luke ......................................... Lancaster, Pennsylvania

SOFTWARE ENGINEERING
Christine Stesha Price ....................................... Ballwin, Missouri

ELECTRICAL AND COMPUTER ENGINEERING

ELECTRICAL ENGINEERING
Michael Joseph Gerdov ...................................... Chicago, Illinois
Joshua Jacob Licata ........................................ South Whitley, Indiana

COMPUTER ENGINEERING
Chase Jarrett Brechlin ...................................... Northfield, Illinois
Nicholas Stephen McNees ................................... Advance, Indiana

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Sabre Marie Evans ........................................... Indianapolis, Indiana
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Grant David Walthall ........................................ Carmel, Indiana
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Gregory Wayne Williams ................................... Boonville, Indiana

Double Major in MECHANICAL ENGINEERING and ELECTRICAL ENGINEERING
Nathan Paul Wendt ........................................... Crown Point, Indiana

PHYSICS, OPTICAL ENGINEERING AND ENGINEERING PHYSICS

ENGINEERING PHYSICS
Anthony Simon Finigan ...................................... Springfield, Illinois
A Brief History of Rose-Hulman/Rose Poly

Rose-Hulman Institute of Technology was founded in 1874 by Terre Haute entrepreneur and philanthropist Chauncey Rose, whose goal was to form an institution that provided an "intellectual and practical education." The college originally was incorporated as the Terre Haute School for Industrial Science, but was renamed in 1875 by the Board of Managers to Rose Polytechnic Institute in honor of founder Chauncey Rose. In 1971, the college was renamed to Rose-Hulman Institute of Technology to recognize the long-time support of the Hulman family of Terre Haute. Rose-Hulman originally was located at 13th and Locust streets in what is now north central Terre Haute and home to Chauncey Rose Junior High School. The campus moved to its present location in 1922 thanks to a donation of part of the Hulman family farm in 1917. The Institute's first president, Charles O. Thompson, charted an educational course that stressed hands-on learning guided by top faculty in their respective fields. The focus of the college's education was broad-based engineering, science and mathematics, and that emphasis continues today. Rose-Hulman offers a rigorous, hands-on education that stresses development of technical and interpersonal skills in an environment characterized by close personal attention for every student.

The milestones are numerous in the educational road traveled and, many times, blazed by Rose-Hulman. Included among these accomplishments are:

- The post-World War II years when the campus was graduating three classes a year, and married students lived in barracks erected on campus.
- A gift from the Olin Foundation that resulted in construction of Olin Hall and sparked a curricular revolution accompanied by millions of dollars worth of construction that spanned two decades.
- Rose-Hulman's transition to coeducation from an all-male college in 1995.

Today, Rose-Hulman's undergraduate enrollment stands at 1,960. The college's reputation has been strong since its inception and it has continued to grow. For the past 11 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 rankings included the "America's Best Colleges" guidebook, published annually by U.S. News & World Report.
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