5-30-2015

2015 Rose-Hulman Institute of Technology : One-Hundred and Thirty-Seventh Commencement

Rose-Hulman

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2015 Commencement Program

Prelude ............................................................... White Chapel Brass

Academic Procession ................................................ Peter A. Gustafson, BS, MS
Marshall, Vice President for Student Affairs, and Dean of Students

Introduction .......................................................... Arthur B. Western, BS, MS, PhD
Professor Emeritus of Physics and Optical Engineering

Processional .......................................................... The Rose-Hulman Joint Service ROTC Color Guard and
the Indianapolis Emerald Society Firefighters Bagpipers

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

Invocation .............................................................. Kylie M. McCollum
Past President, Student Government Association

Welcome ............................................................... James C. Conwell, BS, MS, PhD, PE
President

Comments from Senior Class ........................................ Alexander J. Vasko
President, Senior Class

Awarding of Heminway Medal ..................................... Phillip J. Cornell, BS, MS, PhD
Vice President for Academic Affairs and
Professor of Mechanical Engineering

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

Herman A. Moench Distinguished Senior Commendation .......... Keith E. Hoover, BS, MS, PhD
Professor of Electrical and Computer Engineering

Outstanding Graduate Thesis Award ................................ Azad Siahmakoun, BS, MS, PhD
Associate Dean of Faculty and Professor of Physics and Optical Engineering

Introduction of Honorary Degree Recipient ......................... Niles L. Noblitt, BS, HD '96
Member, Board of Trustees

Awarding of Honorary Degree ...................................... James C. Conwell

Introducution of Honorary Degree Recipient ...................... Gregory L. Gibson, BS
Member, Board of Trustees

Awarding of Honorary Degree ...................................... James C. Conwell

Introduction of Commencement Speaker ............................ William M. Olah, BS, JD
Member, Board of Trustees

Commencement Address ............................................. Michael A. Mussallem, BS, HD '99
Chairman & Chief Executive Officer, Edwards Lifesciences

Presentation of Fifty-Year Commemorative Degrees ............. James C. Conwell

Conferring of Undergraduate Degrees ............................. James C. Conwell

Conferring of Master's Degrees .................................... James C. Conwell

Recognition of Students Anticipating Degrees ..................... James C. Conwell

Greeting from Alumni ............................................... Tracey L. Lockhart, BS
President, Alumni Association

President's Outstanding Service Award ............................ James C. Conwell
Dean’s Outstanding Teacher Award ............................... Richard E. Stamper, BS, MS, PhD, PE  
Dean of Faculty and Professor of Mechanical Engineering and Engineering Management  
Board of Trustees’ Outstanding Scholar Award ........................... Donald M. Ings, BS, HD ’99  
Chairman, Board of Trustees  
Introduction of President .................................................. Donald M. Ings  
President’s Remarks ........................................................... James C. Conwell  
“Alma Mater” ................................................................. Andy Mech, BS, MS, PhD  
Professor of Mechanical Engineering  
Benediction ........................................................................ Vashon Solomon  
National Society of Black Engineers  
“Dear Old Rose” ................................................................. White Chapel Brass  
Recessional ........................................................................ White Chapel Brass  

Alma Mater  
Music by Raymond Mech  
Lyrics by Andrew Mech, PhD, Professor of Mechanical Engineering  

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.
Commencement Speaker

Michael A. Mussallem
Chairman & Chief Executive Officer, Edwards Lifesciences

Michael Mussallem, a 1974 chemical engineering graduate and recipient of a Rose-Hulman honorary doctorate in 1999, leads one of the world’s most dynamic and successful health care companies in the vitally important field of medical devices.

Mussallem has been chairman and CEO of California-based Edwards Lifesciences since the company spun off from Baxter International Inc. 15 years ago. He joined Baxter in 1979 and would advance to lead several of the company’s divisions, including the cardiovascular business and the biopharmaceutical business, and was chairman of the Asia-Pacific Board, overseeing Baxter’s operations throughout Asia.

But leading a team of energetic, creative innovators at Edwards focused on addressing unmet patient needs would prove to be the perfect role for Mussallem. Under his leadership, Edwards has become a global leader in the science of heart valves and critical care monitoring, with extensive manufacturing operations in North America, Europe, Singapore, and the Caribbean. The company is guided by a strategy focused on creating value with therapies that transform patient care. In 2011, for example, Edwards received long-awaited Food and Drug Administration approval for the country’s first transcatheter aortic heart valve, a truly revolutionary way to treat heart disease without invasive, open-heart surgery. Now, more than 100,000 patients around the world have been treated with Edwards’ transcatheter aortic valves, and Edwards continues to invest heavily in research and development to support focused innovation that will extend the company’s leadership and fuel growth.

Under Mussallem’s guidance, Edwards has been a business success story, as well. Many of Edwards’ market-leading therapies and technologies, which are sold in approximately 100 countries, are considered industry “gold standards.” More than 95 percent of the company’s sales are from products in leading market positions. When Baxter spun off the company in 2000, Edwards’ stock traded for less than $8 per share. Today, a share costs more than $140, a rate of return far surpassing the S&P 500 and Dow Jones indices. In just this last year, Edwards’ market value as a public company has doubled.

This success has also enabled Edwards’ commitment to charitable giving and participation in philanthropic causes. In 2014, global donations from the Edwards Lifesciences Foundation to non-profit organizations around the world exceeded $8 million.

Apart from leading a global company of more than 9,000 employees, Mussallem has taken a leading role in U.S. health care reform, speaking on behalf of medical device manufacturers as past chairman of the California Healthcare Institute and past chairman and current executive committee member for AdvaMed, the Advanced Medical Technology Association. He also serves on the board of the Healthcare Leadership Council, is an advisory board member for the Leonard D. Schaeffer Center for Health Policy and Economics at the University of Southern California and is a trustee of the UC Irvine Foundation.
Honorary Degree

Honorary Doctor of Engineering
Thomas Dinkel
President & Chief Executive Officer, Sycamore Engineering

A life of servant leadership, guided by his Christian heritage, has made Thomas T. Dinkel, a 1972 Rose-Hulman mechanical engineering graduate, an obvious choice for an honorary doctorate of engineering from his alma mater.

Apart from his numerous successful business roles, Dinkel has been a positive, guiding presence in a number of Terre Haute-area not-for-profit organizations and has helped guide Rose-Hulman as treasurer of the Board of Trustees. So extensive are his involvements, Tom Dinkel was distinguished in December with the Chapman S. Root Award, one of the most prestigious public service honors in the Wabash Valley, a recognition he shares with only two dozen others, including former Senator Richard Lugar and former Senator and Governor Evan Bayh.

Dinkel, who still works as a practicing engineer on a daily basis, is president/CEO of Sycamore Engineering, a commercial and industrial construction company employing more than 170 people; Dinkel Associates, a mechanical and electrical engineering design company; Sycamore Building Corporation, a real estate company; and Dinkel Telekom, a telecommunications company specializing in DC power system installations. In addition, Dinkel is a licensed professional engineer in Indiana, Illinois, and Florida, and a licensed mechanical and electrical contractor.

Currently, Dinkel serves on the board and is chairman of the audit committee of the publicly traded First Financial Corporation based in Terre Haute, consistently one of the top-rated financial institutions in its peer group.

A proponent of improving economic opportunities and quality of life in the Wabash Valley, Dinkel has served as president/chairman of the board for several local organizations, including the Terre Haute Chamber of Commerce, Terre Haute Economic Development Corp, Wabash Valley Community Foundation, Terre Haute YMCA, Country Club of Terre Haute, Community Chest, Terre Haute North Vigo High School Athletic Booster Club, Strawberry Hill Cannoneers, Alpha Tau Omega Fraternity Board of Managers, and the Rose-Hulman Alumni Association. He also serves as a member of the finance committee for Saint Benedict's Church.

A 1968 graduate of Terre Haute's Schulte High School and a Terre Haute native, Dinkel has been married to his wife, Susie, for 41 years. They have three children, Sara Smith, Lyndsey Bartlett, and Tyler Dinkel.
Honorary Degree

Honorary Doctor of Engineering
Carl Cook
Chief Executive Officer, Cook Group

Carl Cook, a member of the Rose-Hulman Board of Trustees, leads one of the largest privately-held medical device companies in the world. Cook took over as Chief Executive Officer of the Cook Group in 2011 and continues to lead the Bloomington-based business to new innovations and success in the evolving health care industry.

Started by his father, Bill Cook, in a spare bedroom in a southern Indiana apartment in 1963, the Cook Group of businesses is dedicated to developing health care devices that improve the lives of people around the globe. Under Carl Cook’s leadership, the company continues to broaden the horizons of medical device development.

Since graduating from Purdue University in 1985 with a degree in electrical engineering and earning an MBA from the University of Iowa two years later, Cook has assisted in the vital work of cardiac pacemaker development and the development of Cook’s Doppler blood flow monitors at Cook Vascular in Pennsylvania. He also served the family business in production at Cook Endoscopy in North Carolina. More recently, he served as Chief Operating Officer and Chairman of the Cook Group.

Like his father and mother, Gayle Cook, Carl Cook has an intense commitment to historic preservation. He serves as chairman of Indiana Landmarks, the largest statewide historic preservation group in the United States. Additionally, under his leadership, the Cook Group has conducted major historic renovation projects including the stunning West Baden Springs Hotel and the French Lick Springs Resort Hotel in southern Indiana, the Yoho General Store in Solsberry, Indiana, the Tivoli Theatre in Spencer, and the Central United Methodist Church in Indianapolis, among many others.

A member of the Rose-Hulman board of trustees since 2009, Cook is a champion for education in his home state. Soon after becoming CEO of the Cook Group, he donated $500,000 to Rose-Hulman for the construction of the William Alfred Cook Laboratory for Bioscience Research. Announcing the donation, Cook noted that the state-of-the-art facility reflected his late father’s commitment to cross-disciplinary endeavors, including using engineering technology to solve complex problems in the field of internal medicine. The Cook laboratory has opened new doors and opportunities for hands-on research involving plant life for Rose-Hulman students.
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 representing the field in which the degree was conferred.

Rose-Hulman 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.

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

Current and Past Trustees Chair
Black gown with red chevrons bordered in gold piping, and red front panels.

Trustees
Black gown with black chevrons bordered with gold piping.

President
Red gown 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 red 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

† Honors Anticipated for Summer or Fall Completion candidates

**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
- S Semiconductor Materials and Devices Certificate
- SU Sustainability Studies Certificate

**Graduation Date Designations**

Special codes indicate students who completed their degree requirements prior to May 30, 2015.

Those designations are:

- a August 30, 2014
- n November 24, 2014
- m March 2, 2015

**The Heminway Gold Medal**

This award, established by the late Mrs. Sarah A. Heminway, is awarded to the graduating undergraduate student with the highest grade point average. In the event of a tie duplicate awards are given.

**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. 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 must be nominated by a classmate, a member of the faculty, or administrative staff.

**The Moench Commendation**

Herman A. Moench graduated from our school in 1929. He served as associate vice president and professor of electrical engineering for more than five decades. Moench 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.

In 1980, the first Moench Commendation was awarded. 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 Rose-Hulman a better place.” The recipient is selected by a vote of faculty and administrative staff.
Fifty-Year Commemorative Degrees

For more than 130 years, Rose-Hulman alumni have been making positive contributions to society as scientists, engineers, and mathematicians. 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 scientists, engineers, mathematicians, and concerned citizens translate into a reputation of quality for their alma mater.

Today, we recognize the contributions of the Class of 1965 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 1965 returned to campus for today’s ceremony:

Class of 1965 Members
Attending Commencement 2015

John Boyer
Peter Canalia
Ronald Esserman
Terrence Fenimore
Michael Francis
Joseph Griffin
Elmer Guerri
Jerry Massa
Roy Mueller
David Nancrede
James Wadsworth
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 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 2,100 students.

The college’s reputation has been strong since its inception and continues to grow. For the past 16 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, South Korea, and China.
Candidates for Degree

BACHELOR OF SCIENCE

BIOLOGY AND BIOMEDICAL ENGINEERING

BIOLOGY

Braxton Kenneth Carter ........................................ Bloomington, Illinois
George Thomas Conway ........................................ Prospect, Kentucky
* Briana Nicole Harvey ........................................ Clinton, Indiana
* Adam Wesley Zigler ........................................... Fillmore, Indiana

BIOMEDICAL ENGINEERING

Kathleen Faye Aburano ........................................ Glenview, Illinois
* Jessica Marie Ahlborn ........................................ Houghton, Michigan
Jared Michael Beams ........................................... Fremont, Indiana
** Kevin Michael Becker ...................................... Loveland, Ohio
** Erin Ruth Campbell ......................................... Rising Sun, Indiana
** Sarina Chawla .................................................. Neenah, Wisconsin
* Mackenzie Leigh Christensen .............................. Oconomowoc, Wisconsin
* Caitlin Amanda Clarke ....................................... Beavercreek, Ohio
* Lauren Michelle Dobias ..................................... Fishers, Indiana
Julia Isabel Douglas .......................................... Gladwin, Michigan
m Suzanne Marie Eisenberger ................................ Clarence Center, New York
Jeffrey Byron Elliott ......................................... Okeana, Ohio
*** Zachary Scott Erba ......................................... Winona Lake, Indiana
Grace Elizabeth Gibbs ........................................ Parker, Colorado
m** Daniel Prendergast Griffin .............................. Barrington, Colorado
Jing Guo ................................................................ Wuxi, China
m G* Austin John Hayhurst .................................... Newburgh, Indiana
Sarah Elizabeth Hensley ....................................... Linton, Indiana
** Nicholas Adam Heshelman ................................ Plainville, Indiana
** Celeste Lorraine Kline ....................................... Terre Haute, Indiana
Philip Eugene Kwasi Koranteng ......................... Sterling, Virginia
*** Andrew Gust Koustenis, Jr. ............................... Noblesville, Indiana
m Jacob Evan Lueck ............................................. Monrovia, Maryland
Brian Christopher Ruane .................................... Geneva, Illinois
Ryan Benson Seale ............................................. Owensville, Indiana
** Alexander John Vasko ....................................... Columbus, Ohio
** Stephen Wilmer Wang ....................................... Mason, Ohio
Megan Konrad Weinzapfel ................................ Evansville, Indiana
** Adam Joseph Wertz ........................................... Zionsville, Indiana
* Ryan Matthew Zigler ......................................... Fillmore, Indiana
**CHEMICAL ENGINEERING**

Zeyad Abed Al Musallam ........................................ Dammam, Saudi Arabia
Abdullah Nasser Alskar ........................................ Riyadh, Saudi Arabia
Victoria Michelle Alden ........................................ .Cicero, Indiana
Abdulrahman Nasser Alhizami ................................ Alkhubar, Saudi Arabia
David Andrew Arriaga ......................................... Westfield, Indiana
Andrew James Bartush ......................................... Granger, Indiana
Maxwell Dyker Brown .......................................... Atlanta, Georgia
Allison Marie Carlson .......................................... Portsmouth, Virginia
Ronald Eugene Carroll, Jr. .................................... Lexington, Kentucky
Alexander Dean Clayton ....................................... Streator, Illinois
Emily Jane Cottingham ........................................ West Chester, Ohio
Matthew James Crisler ........................................ Lake Zurich, Illinois
Emily Nicole Davis ............................................ Greenwood, Indiana
Deanne Marie De Keizer ....................................... Mishawaka, Indiana
Wade Reece Eberly ............................................ South Whitley, Indiana
Jose Luis Escandon ............................................ Richland, Michigan
Zhengyuan Fang ................................................ Jinan, China
James Edward Files ........................................... Oak Park, Illinois
Emma Fitzpatrick ............................................... Ionia, Michigan
Catherine Ann Fiutem .......................................... Harrison, Ohio
Samuel Thomas Geist ........................................ Goodlettsville, Tennessee
Mitchell Patrick Gillen ...................................... Macon, Illinois
Patrick John Hartnett .......................................... Miami, Florida
Rebecca Anne Hecht ............................................ Bexley, Ohio
Alyse Shalee Henson .......................................... Monrovia, Indiana
Kayla Marie Hiatt ............................................. Noblesville, Indiana
Joshua Evan Hojnacki ........................................... La Porte, Indiana
Brent Joseph Hukill ............................................ Franklin, Indiana
Rachael Elizabeth Ilic .......................................... Solon, Ohio
Sarah Catherine Jensen ........................................ Overland Park, Kansas
Samuel Clayton Jordan ........................................ Cloverdale, Indiana
Jacob Scott Kabealo ........................................... South Pasadena, California
Soo Jin Kim ...................................................... Ilsan, South Korea
Dustin Charles Lehmkuhl ..................................... Beech Grove, Indiana
David Dalton Lentz ............................................ Franklin, Tennessee
Garrett Lewis .................................................... Pittsburgh, Pennsylvania
Megan Elaine Liebman .......................................... Wheaton, Illinois
Leah Stephanie Markowitz ................................... Crown Point, Indiana
Morgan Brittany Mayfield ..................................... Springfield, Illinois
Kylie Marie McCollum .......................................... Lee's Summit, Missouri
Andrew Richard Miller ....................................... West Chester, Ohio
John Nelson Milner ............................................. Ridgeville, Indiana
** Jordan Alexander Muth ........................................... Greenwood, Indiana
** Haley Michelle O'Neil ........................................... Batavia, Illinois
* Monica Kathryn Paik ........................................... Lima, Ohio
* Matthew Nicholas Palla ........................................ Monticello, Illinois
Pun Pasidparchya ................................................. Chicago, Illinois
Samantha Ann Peters ............................................. Grove City, Ohio
* Dalton Quinn Pickens .......................................... Newton, Illinois
* Jesse James Renfroe. ............................................ Newton, Illinois
Eric John Schaible ............................................... Findlay, Ohio
* Jacob Arthur Sexton ............................................. Findlay, Ohio
Travis Thompson Shepherd III ................................. Franklin, Indiana
Noura Sleiman ...................................................... Aitoo, Lebanon
** John Edward Stephani II ...................................... Portage, Michigan
Andrew James Strebing .......................................... Noblesville, Indiana
Anna Elizabeth Taylor ............................................. Owensboro, Kentucky
Jennifer Belle Tribble ............................................ Galena, Ohio
Peter David Vannauker .......................................... Kingwood, Texas
Lindsay Anne Vencel ............................................. Clay City, Indiana
* Stephen Thomas Walsh ........................................... Franklin, Tennessee
** Yi Wan ..................................................................... Chengdu, China
** Kathryn Joanne Westbrook ................................... Marion, Ohio
** Rosemary Katherine Yost .................................... North Canton, Ohio

Two Degrees: CHEMICAL ENGINEERING and MATHEMATICS
*** Matthew Ryan Billingsley .................................. Moline, Illinois

Two Degrees: CHEMICAL ENGINEERING and MECHANICAL ENGINEERING
* Katrina Marie Brandenburg ................................ Scipio, Indiana

Double Major in CHEMICAL ENGINEERING and CHEMISTRY
* Laura Maureen Danhauer .................................... Barrington, Illinois
*** David Michael Harvey ....................................... Marion, Indiana

Double Major in CHEMICAL ENGINEERING and COMPUTER SCIENCE
* Jonathan William Pearson ..................................... Dayton, Ohio

CHEMISTRY AND BIOCHEMISTRY

CHEMISTRY

Kassandra Nicole Hensley ........................................ Pine Village, Indiana
Julia Lauren Kubisz ................................................ Highland, Indiana
** Matthew David McDonald ................................... Naperville, Illinois

Double Major in CHEMISTRY and BIOCHEMISTRY & MOLECULAR BIOLOGY
m G* Alison Margaret Chartier ...................................... Shelby Township, Michigan

BIOCHEMISTRY

n Bianca Ellen Maled .............................................. Camby, Indiana
CIVIL ENGINEERING

Jacob Allen Althouse .......................................................... Converse, Indiana

Morgan Rae Anderer .......................................................... Clinton, Pennsylvania

Caleb James Apker .......................................................... Aurora, Illinois

Elizabel Evelyn Carrillo ........................................................... Lafayette, Indiana

Todd A Clapp .......................................................... Sugar Grove, Illinois

Douglas Gregory Collett .......................................................... Terre Haute, Indiana

Ila Louise Creekbaum .......................................................... West Terre Haute, Indiana

Kevin Alan Dorn .......................................................... San Jose, California

Zachary Robert Ehlers .......................................................... Cullom, Illinois

Eric Michael Fair .......................................................... Terre Haute, Indiana

Thomas Louis Glardon .......................................................... Kettering, Ohio

Jacob Heath Gould .......................................................... Greencastle, Indiana

George Edward Green .......................................................... Brownsburg, Indiana

John Edward Horvet .......................................................... Flora, Illinois

Kyle Thomas Kraus .......................................................... Greenwood, Indiana

Ethan Frederick Kroh .......................................................... Wabash, Indiana

Robert Alan Larson .......................................................... Edina, Minnesota

Mengzhen Lei .......................................................... Jiangsu, China

Benjamin Michael Meadows .......................................................... Greensburg, Indiana

Marlo Elaine Niverson .......................................................... Fairmount, Indiana

Kendal John Rosenbaum .......................................................... Campbellsburg, Indiana

Sunil Satish .......................................................... Jessup, Maryland

Ashley Rebecca Schumacher .......................................................... Saint Louis, Missouri

Jia Shen .......................................................... Shanghai, China

Brian Joseph Soller .......................................................... Indianapolis, Indiana

Samantha Joy Springer .......................................................... Irving, Texas

Austin Charles Thomas .......................................................... Wapwallopen, Pennsylvania

Michael Joseph Timko .......................................................... Brownsburg, Indiana

Joseph Harrel Tumey IV .......................................................... Columbus, Indiana

Bowen Xiang .......................................................... Nanjing, China

Two Degrees: CIVIL ENGINEERING and MATHEMATICS

Sijun He .......................................................... Shenzhen, China

Double Major in CIVIL ENGINEERING and COMPUTATIONAL SCIENCE

Louis Oren Vaught .......................................................... Chapel Hill, North Carolina

COMPUTER SCIENCE AND SOFTWARE ENGINEERING

COMPUTER SCIENCE

Spencer Raymond Alves .......................................................... Claremont, California

Christopher Dean Debiccari .......................................................... Campbell, California

Xiaohan Ding .......................................................... Hangzhou, China

Katelyn Marie Dion .......................................................... Simi Valley, California

Ziyang Huang .......................................................... Terre Haute, Indiana

Jacob Andrew Oakes .......................................................... Hagerstown, Indiana

Lance Patrick Riechel .......................................................... Snohomish, Washington
Zoe Anastasia Rudich ................................................. Ray, Michigan
Sydney Monroe Satchwill ............................................. Indianapolis, Indiana
Eric Matthew Yuhas .................................................. Fremont, Ohio

Two Degrees: COMPUTER SCIENCE and MECHANICAL ENGINEERING
**
Dillon Scroggin ..................................................... Winston Salem, North Carolina

Triple Major in COMPUTER SCIENCE, SOFTWARE ENGINEERING,
and MATHEMATICS
Corey Joshua Alexander ........................................... Highlands Ranch, Colorado

**
William Alexander Brophy ........................................ Rumson, New Jersey

Double Major in COMPUTER SCIENCE and ECONOMICS
*
Grant Bradley Smith ................................................ Angola, Indiana

Double Major in COMPUTER SCIENCE and MATHEMATICS
**
William Albert D’Attilio ........................................... Indialantic, Florida
*
Kyle Hayden Dooley ................................................ Granger, Indiana
**
Anthony Jacob Piergiorgianni .................................... Nazareth, Pennsylvania
Davis Preston Robinson .............................................. Franklin, Tennessee

Double Major in COMPUTER SCIENCE and SOFTWARE ENGINEERING
Ethan Garrett Campbell ............................................. Poplar Bluff, Missouri
**
Jeffrey Kimball Carter ............................................. Madison, New Jersey
Brandon Christian Cox .............................................. Greenfield, Indiana
**
Kenneth Seldon Faulkner .......................................... Indianapolis, Indiana
*
Eric James Guilford ................................................... Guilford, Indiana
*
Chadwick David Allen Jones ..................................... Scottsburg, Indiana
**
John Ilija Krasich .................................................. Terre Haute, Indiana
Brandon Marmion Lockard ........................................ Kentfield, California
*
Christopher Eugene O’Hara ....................................... Warsaw, Indiana
**
Brian Thomas Padilla ............................................... Sylmar, California
*
Peter Jovan Savkovich ............................................... Louisville, Kentucky
***
Dharmin Kamlesh Shah ............................................. Newburgh, Indiana
*
Richard Tarrant Shomer III ....................................... Lansing, Illinois
*
Theodore John Sterne III ........................................... Evansville, Indiana
**
Devon Glenn Timaeus ............................................... Richwood, Texas

SOFTWARE ENGINEERING
*
Jonathan Andrew Earles ........................................... Houston, Texas
David Schwalbe Gartzke ............................................ New Glarus, Wisconsin
Gabriel Sackett Glenn .............................................. Novi, Michigan
Ian Michael-Patrick Hallam ....................................... Jonesboro, Illinois
Logan Thomas Hallowell ........................................... Macungie, Pennsylvania
*
Scott Arden Harris .................................................. Fort Wayne, Indiana
***
Gordon Matthew Hazzard .......................................... Atlanta, Illinois
**
Carly Jo Heibel ....................................................... Fort Wayne, Indiana
Nathan Walter Jarvis ...................................... Saint George, Utah
Bohyun Kim .................................................. King of Prussia, Pennsylvania
John Ryan Kulczak ........................................... Noblesville, Indiana
Simon David Llewellyn ..................................... Marietta, Georgia
John Thomas McCormack .................................. Boca Raton, Florida
Xiangbo Meng .................................................. Beijing, China
Nicholas Scott Miller ....................................... King of Prussia, Pennsylvania
Anthony Robert Minardo .................................. Greenwood, Indiana
John Christopher Petry ..................................... Spencer, Indiana
Angelica Rodriguez ......................................... Hammond, Indiana
Michael John Royappa ...................................... Pensacola, Florida
Seth Lee Rujiraviriapinyo .................................. McCordsville, Indiana
Peter Daniel Samyn ......................................... Loveland, Ohio
Dylan Lee Sturgeon .......................................... Paoli, Indiana
Austin Robert Uphus ........................................ West Harrison, Indiana
Daniel Beachley Wells ...................................... Lutherville, Maryland

** Quadruple Major in SOFTWARE ENGINEERING, COMPUTER SCIENCE,
      MATHEMATICS, and ECONOMICS

Alexander Joseph Memering ................................ Columbus, Indiana

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

Benjamin Ian Paul ........................................... Prospect, Kentucky

** Double Major in SOFTWARE ENGINEERING
      and BIOMEDICAL ENGINEERING

Lindsey Marie Watterson .................................. Hanover, Indiana

** Double Major in SOFTWARE ENGINEERING and COMPUTER SCIENCE

Daniel Alexander Iverson .................................. West Chester, Ohio
Matthew David Lash ......................................... Batavia, Illinois
Jordan Mackenzie Moore .................................... Springfield, Illinois
Caleb Nathaniel Post ........................................ Rockford, Michigan
Frank Joseph Roetker ........................................ Lafayette, Indiana
Zachary Thomas Stewart .................................... Bolingbrook, Illinois

** ELECTRICAL AND COMPUTER ENGINEERING

** ELECTRICAL ENGINEERING

James Patrick Benedicto .................................. Los Altos, California
Carson Frederick Bishop .................................... Terre Haute, Indiana
William Jonathan Bismayer ................................ Cincinnati, Ohio
Lucas Holt Brok ............................................ Bemidji, Minnesota
Kayla Nicole Brosie ........................................ Jerseyville, Minnesota
Tayler Thomas Burns ....................................... Lake Elmo, Minnesota
John Wesley Byers .......................................... Loveland, Colorado
Danielle Jeanette DeFelice ................................ Andover, New Jersey
Jason William Dodd ......................................... Saint Charles, Missouri
Double Major in ELECTRICAL ENGINEERING and MATHEMATICS

Garrett Saathoff Shaffer .......................................................... Medicine Lake, Minnesota

COMPUTER ENGINEERING

Jacob Richard Anderson .......................................................... Naperville, Illinois
Rain Forrest Dartt ................................................................. Clarksville, Tennessee
Coy DePratt ......................................................................... Saint Joseph, Tennessee
Charles Traylor Eubanks ......................................................... Fairfax, Virginia
Jiayu Guo ............................................................................... Qingdao, China
Dakota John Kowalski ............................................................. Peru, Illinois
David Eric McNeil, Jr.............................................................. O’Fallon, Missouri
Mark Anthony Morrison ......................................................... Grosse Ile, Michigan
Vashon Lee Solomon ............................................................... Greensboro, North Carolina
Eric Michael Taylor .............................................................. Chapel Hill, North Carolina
Zebulan Keith Thomas .............................................................. Brazil, Indiana
Randall Scott Turner ............................................................... Cincinnati, Ohio
Yashi Yadav ................................................................................. Soddy Daisy, Tennessee

Double Major in COMPUTER ENGINEERING
and COMPUTER SCIENCE

Matthew Carl Olson ................................................................. North Oaks, Minnesota
Janelle Marie Weir ................................................................. Bronxville, New York
MATHEMATICS

Andrew Paul Kipp ................................................. Dallas, Texas
*** Cody Gray Roberts ........................................... Franklin, Indiana
* Yilin Wang .......................................................... Xianyang, China
Giuliana Elizabeth Watson ........................................... Centerville, Indiana

** Double Major in MATHEMATICS and BIOCHEMISTRY & MOLECULAR BIOLOGY
Alex John Zellner ..................................................... Hugo, Minnesota

** Double Major in MATHEMATICS and COMPUTATIONAL SCIENCE
Brian Thomas Bowmaster ........................................... Morristown, New Jersey

** Double Major in MATHEMATICS and ECONOMICS
Angelica Patrice Cox ................................................... Indianapolis, Indiana
*** Lorena Hernandez Maxwell ...................................... Gary, Indiana

MECHANICAL ENGINEERING

G* Ross Andrew Aker .................................................. Lexington, Kentucky
** Craig Tyler Altmann ................................................ Jasper, Indiana
Clayton Robert Baker ............................................... Deputy, Indiana
C** Emily Ann Barker ................................................ Fort Wayne, Indiana
Dalton Dean Barnes .................................................. Bristol, Indiana
** Lucas Vaughn Baurichter ......................................... Terre Haute, Indiana
Michael Cody Bostic ................................................ Fishers, Indiana
A Kathleen Patricia Boyce .......................................... Riverside, Illinois
LeKisha Reshee Bradley .............................................. Richmond, Indiana
** Daniel Christopher Brindley ..................................... Hebron, Connecticut
*** Nicholas Edward Buchta ......................................... North Barrington, Illinois
Nicholas Scott Burriss ............................................... Indianapolis, Indiana
Angela Joyal Carr .................................................... Zionsville, Indiana
* Richie Yeh Chang .................................................... Brooklyn, New York
Collin Douglas Coker ................................................ Reston, Virginia
Carly Alicia Corrigan ................................................. Arlington Heights, Illinois
* Brock Collin Craig ................................................... Indianapolis, Indiana
*** Allison Ann Crump ................................................ Woodbury, Minnesota
** Joseph Dillon ......................................................... Clayton, Missouri
* Mike Nickolas Dragnich ............................................ Washington, District of Columbia
Davis Alexander Evans .............................................. Vacaville, California
** Rebecca Susan Evans .............................................. Tinley Park, Illinois
Ian Lyndon Fong ...................................................... Fremont, California
Abhimanyu Golchha ................................................... Kathmandu, Nepal
Gabriel Elijah Goldsberry .......................................... Medora, Indiana
* Nicole Taylor Gonzalez ............................................. Camarillo, California
Christopher Dean Good ................................................ Westville, Illinois
* Dustin Glen Graber .................................................. New Paris, Indiana
** Benjamin Pierce Griffith .......................................... Fort Wayne, Indiana
Michael Hallstein ..................................................... Minier, Illinois
Matthew Stephen Hayes .............................................. Indianapolis, Indiana
<table>
<thead>
<tr>
<th>Name</th>
<th>City</th>
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</thead>
<tbody>
<tr>
<td>Peter Todd Heidlau</td>
<td>Geneva, Illinois</td>
</tr>
<tr>
<td>Joshua Michael Hoeing</td>
<td>Rushville, Indiana</td>
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<tr>
<td>Adam Maxwell Hook</td>
<td>Arcadia, Indiana</td>
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<tr>
<td>Crystal Louise Hurtle</td>
<td>Hebron, Kentucky</td>
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<tr>
<td>Brian Clinton Kenney</td>
<td>Champaign, Illinois</td>
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<tr>
<td>Andrew Lee Kimball</td>
<td>Tell City, Indiana</td>
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<tr>
<td>Alex Kittleson</td>
<td>Decorah, Iowa</td>
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<td>Sean Alexander Kling</td>
<td>Miamisburg, Ohio</td>
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<td>Lucas Rorke LaFontaine</td>
<td>Bloomington, Indiana</td>
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<td>Frank Ronald Levering</td>
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<td>John Oliver Lipinski</td>
<td>Riverwoods, Illinois</td>
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<td>Ashley Nicole Loy</td>
<td>Merrillville, Indiana</td>
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<td>Kevin Jeffrey Ly</td>
<td>Indianapolis, Indiana</td>
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<td>Benjamin Peter Mayhew</td>
<td>Terre Haute, Indiana</td>
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<td>Joseph Grady McGoff</td>
<td>Cincinnati, Ohio</td>
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<td>Benjamin Milan Menich</td>
<td>Mount Prospect, Illinois</td>
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<td>Lonn Allen Meyer</td>
<td>Fort Wayne, Indiana</td>
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<td>Ryan John Meyer</td>
<td>Greenwood, Indiana</td>
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<td>Margaret Mary Murphy</td>
<td>Eden Prairie, Minnesota</td>
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<td>Melissa Margaret Murray</td>
<td>New Canaan, Connecticut</td>
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<tr>
<td>Alanna Nacar</td>
<td>Scott AFB, Illinois</td>
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<td>Eshan Chetan Nayyar</td>
<td>Mumbai, India</td>
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<tr>
<td>Brian Christopher Nelson</td>
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<td>Lisa Jeanne Nelson</td>
<td>Burnsville, Minnesota</td>
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<td>William Kelsay Nelson</td>
<td>Columbus, Indiana</td>
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<td>Andrew Aaron Nguyen</td>
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<td>Kevin Addison O'Dowd</td>
<td>Niceville, Florida</td>
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<td>Christopher Allen Olinger</td>
<td>San Francisco, California</td>
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<td>Clinton James Ott</td>
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<td>Ellen Marie Owens</td>
<td>Brookville, Indiana</td>
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<td>Meredith Leaann Pitsch</td>
<td>Fort Smith, Arkansas</td>
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<td>Corey Lee Povaleri</td>
<td>Deputy, Indiana</td>
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<td>Aaron Michael Puetz</td>
<td>Naperville, Illinois</td>
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<td>Jordan Scott Ridgley</td>
<td>Lebanon, Ohio</td>
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<td>Lucas Alvin Rohrman</td>
<td>Knox, Indiana</td>
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<td>Christine Elizabeth Rollins</td>
<td>Springfield, Ohio</td>
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<td>Gustavo Isac Romo</td>
<td>Indianapolis, Indiana</td>
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<tr>
<td>Bryan Parker Rossman</td>
<td>Lake Forest, Illinois</td>
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<td>Joshua John Rychtarczyk</td>
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<td>Patrick James Salay</td>
<td>Loveland, Ohio</td>
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<td>Evan Scott Sego</td>
<td>Bloomington, Indiana</td>
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<td>Dominic Patrick Sena</td>
<td>Moss Beach, California</td>
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<tr>
<td>Joshua Carl Sonneberger</td>
<td>Edon, Ohio</td>
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<tr>
<td>Keon Alan Stallard</td>
<td>Olney, Illinois</td>
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<tr>
<td>Katelyn Haley Stenger</td>
<td>Burlington, Kentucky</td>
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<tr>
<td>Daniel Ray Stevenson, Jr.</td>
<td>Lebanon, Indiana</td>
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<td>Erik Nils Swensen</td>
<td>Corcoran, Minnesota</td>
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<td>Zachary Allen Taylor</td>
<td>Somerset, Kentucky</td>
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<td>Samuel Robert Throne</td>
<td>Terre Haute, Indiana</td>
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</tbody>
</table>
John Robert Tift .......................................................................................................................... Saint Louis Park, Minnesota
* Tony Wray Titus, Jr .................................................................................................................. Fountaintown, Indiana
Christopher Craig Tubb ........................................................................................................... Colorado Springs, Colorado
** Marcus James Alan Tucker ..................................................................................................... Indianapolis, Colorado
Jacob Robert Umsted .................................................................................................................. Waukee, Iowa
Russell Dean Varvel .................................................................................................................. Fillmore, Indiana
** Daniel Enluo Wang ................................................................................................................ Garden City Park, New York
* Marek Wasilewski ....................................................................................................................... Johnsburg, Illinois
Stuart Guy West ............................................................................................................................ La Porte, Indiana
Aaron Edward Worcester ............................................................................................................. Colchester, Vermont

Two Degrees: MECHANICAL ENGINEERING and BIOMEDICAL ENGINEERING
*** James Robert Tumavich ........................................................................................................ Glen Ellyn, Illinois

Double Major in MECHANICAL ENGINEERING and BIOMEDICAL ENGINEERING
Landen Jeffrey Gelwicks ............................................................................................................. Zionsville, Indiana

Double Major in MECHANICAL ENGINEERING and COMPUTATIONAL SCIENCE
*** Kyle Andrew Smolarek ............................................................................................................. Macomb, Michigan
* Kyle Ron Starkey ........................................................................................................................ Indianapolis, Indiana

PHYSICS, OPTICAL ENGINEERING, AND ENGINEERING PHYSICS

PHYSICS
** Eric Michael Kercher ............................................................................................................... Corvallis, Montana
* Alla Renatova Letfullina ........................................................................................................ Terre Haute, Indiana
** Alexander James White ............................................................................................................. Hamilton, Ohio

Three Degrees: PHYSICS, MATHEMATICS, and ECONOMICS
Abby Corinne Schendt ................................................................................................................ Colorado Springs, Colorado

Two Degrees: PHYSICS and MATHEMATICS
m*** Elizabeth Justine Melton ..................................................................................................... Goodrich, Michigan

Two Degrees: PHYSICS and MECHANICAL ENGINEERING
Lawrence Michael Goedrich ........................................................................................................ Sacramento, California

OPTICAL ENGINEERING

Christian John Benson ................................................................................................................ Sycamore, Illinois
William Tyler Lowry .................................................................................................................... Dixon, Kentucky
Seth Aaron Myers ........................................................................................................................ Greenfield, Indiana
* Joseph Nelson Oliver .................................................................................................................. Goshen, Kentucky
James Oliver Zebedee Rademaker ............................................................................................. Anchorage, Alaska
Gregory Roy Stein ........................................................................................................................ Carmel, Indiana
m** Daniel Joseph Thul ................................................................................................................ Bloomington, Illinois
* Alex Japhet Weissenfels ........................................................................................................... Litchfield, Maine
m Yun Zha ..................................................................................................................................... Nanjing, China
ENGLISH PHYSICS

S**  Bradlee Kyle Beauchamp........................................................................................................... Indianapolis, Indiana
S***  Caleb Daniel Gannon.................................................................................................................. Elgin, Illinois
S*    Christopher Aaron Gewirtz......................................................................................................... Brooklyn, New York
S*    Marshall Andrew Mullins............................................................................................................ Bloomington, Indiana
S***  Michael Scott Swartz.................................................................................................................. Kansas City, Missouri

MASTER DEGREES

MASTER OF CIVIL ENGINEERING

Caleb Clark Comstock ......................................................................................................................... Waynesfield, Ohio
Katherine Clara Dangel ....................................................................................................................... Upper Arlington, Ohio

MASTER OF ELECTRICAL AND COMPUTER ENGINEERING

Bárbara de Pinho Martins da Costa ....................................................................................................... Itaperuna, Rio de Janeiro, Brazil
Mark Anthony Morrison ...................................................................................................................... Grosse Ile, Michigan
Tianyi Xue ........................................................................................................................................... Terre Haute, Indiana
Tianren Yang ........................................................................................................................................ Beijing, China
Ying Ying Zhou ..................................................................................................................................... Naperville, Illinois

MASTER OF ENGINEERING MANAGEMENT

Jay Thomas Dial ........................................................................................................................................ Heath, Ohio
Selina Engel ........................................................................................................................................... Landsweiler, Germany
James Edward Files ............................................................................................................................. Oak Park, Illinois
Shelby Anne Hacker ............................................................................................................................. Cloverdale, Indiana
Alexander Matthew Jacoby .................................................................................................................. Tucson, Arizona
Jama Marie Johnson .............................................................................................................................. Monon, Indiana
Casey Jordan Levitt .............................................................................................................................. Thousand Oaks, California
Duane A Musser ..................................................................................................................................... Westfield, Indiana
Nancy Stinson ......................................................................................................................................... Indianapolis, Indiana

MASTER OF SCIENCE

BIOMEDICAL ENGINEERING

Anderson Adams ....................................................................................................................................... Lexington, Kentucky
A Comparative Evaluation of Cadaveric and Composite Femur Models for Total Hip Arthroplasty
Thesis Advisor: Professor Renee Rogge

Melissa Jo Montgomery .......................................................................................................................... Alexandria, Indiana
Development and Validation of a Robust, Adjustable Hippotherapy Simulator
Thesis Advisor: Professor Renee Rogge
Brian Joseph Sutterer .................................................. Terre Haute, Indiana
An Investigation of the Relationship Between Plantar Weight Distribution and the Condition of Osteoarthritic Knees During Quiet Standing
Thesis Advisor: Professor Renee Rogge

ELECTRICAL ENGINEERING

Yang Liu ................................................................. Wuhan, China
A Heart Rate Finger Ring and Its Smartphone App Through Customized NFC
Thesis Advisor: Professor JianJian Song

Leihao Wei ............................................................. Nanjing, China
Development and Verification of Multi-Level Sub-Meshing Techniques of PEEC to Model High-Speed Power and Ground Plane-Pairs of PCBs
Thesis Advisor: Professor Edward Wheeler

Yuxuan Zeng .......................................................... Xiantao, China
Design Improvements of WirelessHART Enabled Field Device
Thesis Advisor: Professor JianJian Song

ENGINEERING MANAGEMENT

Ed-Samuel Oluwatomisin Adegbeye ................................ Madison, Wisconsin
Designing a New Ordering and Inventory Management System
Project Advisor: Professor Craig Downing

Grace Elizabeth Timm Aker ......................................... Reelsville, Indiana
Environmental Project Analysis at Crown Equipment Corporation: Implementation of the Partners for Pollution Prevention Program Through the Indiana Department of Environmental Management
Project Advisor: Professor Craig Downing

Reyhaneh Askari Sarcheshmeh ...................................... Alborz, Iran
Critical Success Factors and Possible Risks for Implementing an Information System in Supply Chain Management
Project Advisor: Professor Eva Andrijcic

Deepak Bhojwani ..................................................... Dubai, United Arab Emirates
Ice Air HVAC Toolbox
Project Advisor: Professor Craig Downing

Johannes Borchert ..................................................... Cappeln, Germany
Analysis and Optimization of Selected Project Management Processes in the New Product Development Field (Focus: Automobile Industry)
Project Advisor: Professor Craig Downing

Tanya Augusta Colonna .............................................. Broadview Heights, Ohio
A Medical Device Industry Analysis from the Perspective of an Emerging Start-up Company
Project Advisor: Professor Craig Downing
Jacqueline Grace Dalton ........................................ Holland, Michigan
Fun Theory: An Analysis to Improve Recycling on Campus
Project Advisor: Professor Craig Downing

Elizabeth Anna Evans ......................................... Bicknell, Indiana
Getting Fed Faster with a Six Sigma Production System Analysis
Project Advisor: Professor Craig Downing

Heather Nicole Finnell ........................................ Cleveland, Tennessee
Market Segmentation Research: An Analysis Intended to Aid
in the Revitalization of Downtown Terre Haute, Indiana
Project Advisor: Professor Craig Downing

Sebastian Flachs ................................................ Magdeburg, Germany
A Process-Oriented Modeling Approach for Humanitarian Supply Chains
Using the Supply Chain Operations Reference Model
Project Advisor: Professor Craig Downing

Matthew Anthony Fouts ....................................... Terre Haute, Indiana
Profdesk.com—The Next Generation Classroom Management System
Project Advisor: Professor Craig Downing

Christopher Hanke ............................................. Magdeburg, Germany
Performance Measurement in Small Companies: Use of the Balanced Scorecard
and a Hybrid Implementation Methodology
Project Advisor: Professor Eva Andrijcic

Lauren Alexandria Meadows ................................ Indianapolis, Indiana
A Life Cycle Analysis: Paralleling Student-Athletes with Front-Line Engineers
Project Advisor: Professor Craig Downing

Anjana Neelakandan ............................................. Chennai, India
Integrating Efficient Inventory Management Systems in the Healthcare Sector
Project Advisor: Professor Craig Downing

Albert Rogito Nyangeri ........................................ Nairobi, Kenya
Streamlining Road Transport Supply Chain Inefficiencies in East Africa
Through a Technology Platform by Kenya Apps Network
Project Advisor: Professor Craig Downing

Gregory Vincent Piekos ...................................... Park Ridge, Illinois
An Analysis of the Benefits of Liquefied Natural Gas (LNG) Locomotives
Project Advisor: Professor Craig Downing

Nebula Nichole Schultz ......................................... Brazil, Indiana
The Impact of the Chinese Student’s Culture
on Their Educational Experience at Rose-Hulman
Project Advisor: Professor Terry Schumacher
Margaret Anne Schultz .................................................. Powell, Ohio
  Biomedical Consulting Engineering
  Project Advisor: Professor Craig Downing

Mary Catherine Schultz .................................................. Harrison, Ohio
  A Case Study with Integra LifeSciences Utilizing Six Sigma
  Project Advisor: Professor Craig Downing

Prathiba Srinivasan .................................................. Chennai, India
  Purchasing Strategy and Supplier Selection in Global Sourcing
  Project Advisor: Professor Craig Downing

Christoph Theilmann .................................................. Lohheide, Germany
  Adequate Safeguarding in Mixed-Model Assembly Lines
  Project Advisor: Professor Craig Downing

Grant Robert Warmoth .................................................. Martinsville, Indiana
  The Modified Innovation Canvas Approach:
  A Tool for Successful Product Development and Innovative Key Feature Selection
  Project Advisor: Professor William Kline

Anderson Ross Willis .................................................. Jasper, Indiana
  Chicago X LLC: Maritime Supply Chain Design
  Project Advisor: Professor Craig Downing

Felix Winkelmann .................................................. Magdeburg, Germany
  Business Model Design for a Case Study Initiative
  at Rose-Hulman Institute of Technology
  Project Advisor: Professor Grant Hoffman

Jonas Wullbrandt .................................................. Gross Denkte, Germany
  Internal Pressure: An Investigation of Employee Stress Resulting
  from Lean System Implementation
  Project Advisor: Professor Craig Downing

MECHANICAL ENGINEERING

Austin Lee Nash .................................................. Sullivan, Indiana
  Euler-Lagrange Optimal Control of Indirect Fire Symmetric Projectiles
  Thesis Advisor: Professor Bradley Burchett

Michael Louis Pauly .................................................. Colorado Springs, Colorado
  Workspace Analysis of a Linear Delta Platform: Calculating the Inscribed Radius
  Thesis Advisor: Professor David Fisher

Ashwin Arvind Upasani .................................................. Pune, India
  The Development and Evaluation of a Method for Understanding the Impact of
  Transmission Loss on the Overall Noise Attenuation of a Finite Barrier
  Thesis Advisor: Professor J. Darrell Gibson
Matthew Randall Winter ................................ Edgewood, Kentucky
The Development of Advanced Controls Laboratories
Thesis Advisor: Professor Bradley Burchett

Yanzeng Li .................................................. Changchun, China
Quantitative Data Extraction Using Spacial Fourier Transform
in Inversion Shear Interferometer
Thesis Advisor: Professor Scott Kirkpatrick

Michael Edward Plascak ................................ Terre Haute, Indiana
Optical Bistability with Two Serially Integrated InP-SOAs on a Chip
Thesis Advisor: Professor Azad Siahmakoun

Wanseok Oh ................................................ Eumseong-gun, South Korea
Study of Laser Speckle Scattering in Vitreous Humor Models
Thesis Advisor: Professor Charles Joenathan

Sangwook Park .............................................. Yongin-si, South Korea
A Study on Development and Evaluation of Accuracy
for the Spherical Coordinate 3D Scanning System
Thesis Advisor: Professor Sergio Granieri

Junyeob Song ................................................. Seoul, South Korea
Fabrication and Characterization of Edge-Emitting Semiconductor Lasers
Thesis Advisor: Professor Paul Leisher

Yonghee Won ................................................ Seoul, South Korea
A Study of Scattering Characteristics
for Micro-Scale Rough Surfaces
Thesis Advisor: Professor Robert Bunch

Fabian Aiple ................................................... Gosheim, Germany
Laser Power Modulation by Turning a Lambda Plate with a BLDC Motor
Thesis Advisor: Professor Daniel Moore

Paul Arnold .................................................. Illertissen, Germany
Loudspeaker Array for Mid-Range Frequencies in Car Applications
Thesis Advisor: Professor Daniel Moore

Benedikt Bez ................................................ Tuebingen, Germany
A Concept and Prototype for an Adaptive Full LED Matrix Headlight Control Unit
that Eliminates All Moveable Components
Thesis Advisor: Professor Daniel Moore
Developing and Implementing Signal Processing Algorithms to Find Optimal Parameters for Tip Timing Measurements of Turbine Blades

Thesis Advisor: Professor Daniel Moore

Conception and Installation of a Generic Measuring System for Inspection of Ignition Control Units

Thesis Advisor: Professor Daniel Moore

SUMMER or FALL COMPLETION

BACHELOR OF SCIENCE

BIOMEDICAL ENGINEERING

Taylor Wayne Franklin ............................................. Brownstown, Indiana
Sonia Sanchez ...................................................... Hammond, Indiana
Emily Geraldine Savrda ........................................... Connersville, Indiana
Sheree Antoinette Williams ........................................ Bluffton, South Carolina

CHEMICAL ENGINEERING

Sloan Daniel Haywood ........................................... Plainfield, Indiana
Seth Michael Kiefer ............................................... Bonfield, Illinois

CHEMISTRY

Chelsey Marie Hasler ............................................ Sullivan, Indiana

CIVIL ENGINEERING

Taran Jacob Bohnhoff ............................................. Dieterich, Illinois
Connor Gibson Gerhart ........................................... La Mesa, California

COMPUTER SCIENCE AND SOFTWARE ENGINEERING

COMPUTER SCIENCE

Fang Huang .......................................................... Nanjing, China

SOFTWARE ENGINEERING

James Richard Butler ............................................ Village of Lakewood, Illinois
Joshua Steven Harbison ....................................... Rockville, Indiana
Matthew Anthony Rocco ........................................ Nacogdoches, Texas
Marshall Scott Yeoman ......................................... Elkhart, Indiana
ELECTRICAL AND COMPUTER ENGINEERING

ELECTRICAL ENGINEERING

Feiyu Cai .......................................................... Nanjing, China
Parris Allan Gray .................................................. Richmond, Indiana
Yuji He .......................................................... Shanghai, China
Jiaqi Jin .......................................................... Shanghai, China
Patrick Thomas Martin ........................................... West Harrison, Indiana
Sara-Clare Alexandra McGeever .................................. State College, Pennsylvania
Dmitry Nikolevitch Votintsev ..................................... Moscow, Russia
† Jiawei Zhang .......................................................... Nanjing, China

† Christopher Arne Andrews ........................................ York, Pennsylvania
† Asa Draic Bromenschenkel ........................................ Deer River, Minnesota
Chad David Kohls .................................................. Leipsic, Ohio

† Jinseok An .......................................................... Seoul, South Korea
† Edna Luo Jones .................................................... Fairfield, Iowa
Yunhui Shi .......................................................... Chengdu, China
Brett Jay Sneed .............................................................. Kingwood, Texas

MATHEMATICS

‡ Xiaoning Bai .......................................................... Taiyuan, Shanxi, China
‡ Trevor Anthony Bischoff ........................................... Brookville, Indiana
‡ Cody Eli Bressler ................................................... Kirkwood, Pennsylvania
‡ Gautham Chandrasekar ................................................. Bangalore, India
‡ Christopher Leif Erickson ............................................ Edwardsville, Illinois
‡ Mark Stephen Fitz .................................................. Fort Worth, Texas
‡ Gregory James Gorsage .............................................. Indianapolis, Indiana
‡ Salonee Rajesh Gupta ................................................ Mumbai, India
‡ Samuel Ethan Hojnacki .............................................. La Porte, Indiana
‡ Paul Joseph Janczak ................................................ Saint Charles, Illinois
‡ Kenji Masaharu Kunugi .............................................. Madison, Wisconsin
‡ Gregory Taylor Lee .................................................. Christiansburg, Virginia
‡ Lisa Marie Lillis ...................................................... Phoenix, Arizona
‡ Mingmin Liu .......................................................... Shenyang, China
‡ Nathan James Montgomery ........................................ Columbia Station, Ohio
‡ Greg Alan Musselman ............................................... Princeton, Illinois
‡ Brandon Lee Naylor .................................................. Indianapolis, Indiana
‡ Tyler J Ricketts .......................................................... Westerville, Ohio
‡ Austin Wade Schulthies .............................................. Dubois, Indiana
‡ Brady Michael Stefancik .............................................. Linton, Indiana
‡ Krzysztof Szymon Stopka ........................................... Oak Lawn, Illinois
‡ Darren Michael Timlin ................................................ Tuscola, Illinois
‡ Marcus Elliot Washington .......................................... Frankfort, Kentucky
‡ Nicholas Gerard Christopher Wilkowski ................................ Minneapolis, Minnesota
‡ Zhiyi Yuan .......................................................... Terre Haute, Indiana

‡‡ Xiaoning Bai .......................................................... Taiyuan, Shanxi, China
‡‡ Trevor Anthony Bischoff ........................................... Brookville, Indiana
‡‡ Cody Eli Bressler ................................................... Kirkwood, Pennsylvania
‡‡ Gautham Chandrasekar ................................................. Bangalore, India
‡‡ Christopher Leif Erickson ............................................ Edwardsville, Illinois
‡‡ Mark Stephen Fitz .................................................. Fort Worth, Texas
‡‡ Gregory James Gorsage .............................................. Indianapolis, Indiana
‡‡ Salonee Rajesh Gupta ................................................ Mumbai, India
‡‡ Samuel Ethan Hojnacki .............................................. La Porte, Indiana
‡‡ Paul Joseph Janczak ................................................ Saint Charles, Illinois
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‡‡ Brady Michael Stefancik .............................................. Linton, Indiana
‡‡ Krzysztof Szymon Stopka ........................................... Oak Lawn, Illinois
‡‡ Darren Michael Timlin ................................................ Tuscola, Illinois
‡‡ Marcus Elliot Washington .......................................... Frankfort, Kentucky
‡‡ Nicholas Gerard Christopher Wilkowski ................................ Minneapolis, Minnesota
‡‡ Zhiyi Yuan .......................................................... Terre Haute, Indiana
PHYSICS, OPTICAL ENGINEERING, AND ENGINEERING PHYSICS

PHYSICS

† Blake Jeffrey Lee Holeman ........................................... Summitville, Indiana

ENGINEERING PHYSICS

Upamanyu Bose .......................................................... Mumbai, India
† Alex M Hanna ........................................................... Monticello, Indiana

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