

Summer 5-25-2019

2019 Rose-Hulman Institute of Technology : One-Hundred and Forty-First Commencement

Rose-Hulman Staff

Rose-Hulman Institute of Technology

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2019 COMMENCEMENT PROGRAM

Prelude	White Chapel Brass
Academic Procession	Erik Z. Hayes, BS, MS <i>Grand Marshal, Vice President for Student Affairs and Dean of Students</i>
Introduction	James A. Goecker, BS, MA, MS <i>Vice President for Enrollment Management</i>
Processional	The Rose-Hulman Joint Service ROTC Color Guard and Indianapolis Firefighters Emerald Society Bagpipers
National Anthem	Rose-Hulman Performing Arts Ensemble
Welcome	Sydney J. Black <i>Past President, Student Government Association</i>
President's Remarks	Robert A. Coons, BS, MBA <i>President</i>
Comments from Senior Class	Ross Klauer <i>President, Senior Class</i>
Awarding of Heminway Medal	Anne M. Houtman, BA, MA, DPhil <i>Provost and Vice President for Academic Affairs and Professor of Biology and Biomedical Engineering</i>
John T. Royse Award	Erik Z. Hayes
Herman A. Moench Distinguished Senior Commendation	Richard P. Dittion, BS, MS, PhD <i>Professor of Physics and Optical Engineering</i>
Recognition of the Special Award Recipients	Anne M. Houtman
Introduction of Honorary Degree Recipient and Commencement Speaker W. Darin Moody	Ella Ingram, BA, PhD <i>Associate Dean of Professional Development and Professor of Biology</i>
Awarding of Honorary Degree	Robert A. Coons
Commencement Address	W. Darin Moody, BS <i>Senior Vice President, Eli Lilly and Company</i>
Recognition of the Fifty-Year Graduates	Anne M. Houtman
Conferring of Undergraduate Degrees and Recognition of Students Anticipating Degrees	Robert A. Coons
Turning of the Tassels	Erik Z. Hayes
Conferring of Master's Degrees	Robert A. Coons
Greeting from Alumni	Gregory M. Gotwald, BS <i>President, Alumni Advisory Board</i>
Farewell	Gavin Karr <i>Past President, Student Government Association</i>
"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

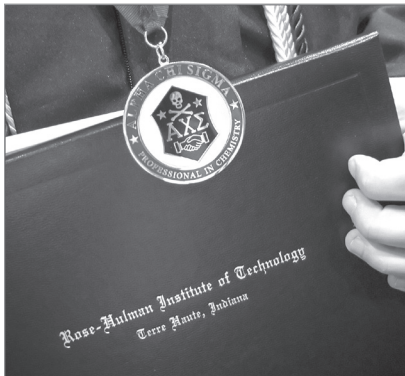
Here in central Indiana
is the school we know is best.
Rose-Hulman, Yes, our Alma Mater
far surpasses all the rest.
Sing her glories and her praises
in every way she does excel.
Rose-Hulman, you're our Alma Mater
our Alma Mater loved so well.

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.



2019 Class Photo

Be sure to download your own copy of the 2019 class photo, courtesy of the Office of Alumni Relations.

www.rose-hulman.edu/commencement19



COMMENCEMENT SPEAKER & HONORARY DEGREE RECIPIENT

W. Darin Moody

Senior Vice President
Eli Lilly and Company

Extensive operational and engineering experiences, especially globally, have brought W. Darin Moody back to his alma mater to address the Class of 2019 about the challenges of an ever-changing world in science, technology, engineering and mathematics.

Moody has spent his entire 32-year career with Eli Lilly and Company, after earning a bachelor's degree in chemical engineering in 1987 from Rose-Hulman Institute of Technology. His current leadership role as senior vice president involves oversight of corporate internal manufacturing operations located in Indiana, Puerto Rico, Ireland, Spain, and Brazil, along with coordination of a global network of external manufacturing partners.

Moody also is responsible for continuous improvement processes and Six Sigma initiatives within Lilly's global manufacturing plants, and supports a variety of technology innovations in the areas of small molecules, biologics, E.coli and dry products.

"While excelling professionally, Darin has never forgotten his alma mater," says President Robert A. Coons. "His commitment to Rose-Hulman is evidenced in both time and resources; he is deeply invested in the institution's ongoing success as the nation's premier undergraduate engineering institution. And as an active member of our Board of Trustees, he continues to bring a unique and thoughtful perspective to the table."

In 2016, Moody was promoted to senior vice president after serving as vice president of Lilly's corporate engineering and global health safety and environment division. His career with the company began as a process design engineer within the corporate

engineering organization, where he assisted in the design and construction of manufacturing facilities. He spent three years as general manager of a plant in Liverpool, England, and was general manager of active pharmaceutical ingredient operations in Indianapolis.

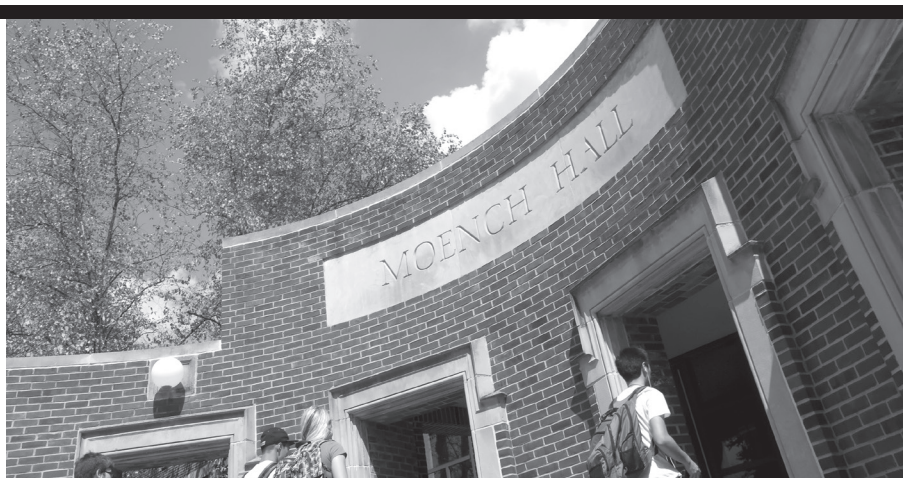
Diversity is an area of special interest to Moody. As a member of the Rose-Hulman Board of Trustees since 2007, he has participated in several initiatives to transform the institute by changing attitudes, along with the gender and racial makeup of the student body, out of a conviction that improving diversity is important for the long-term prosperity of the school. He also has been a member of the trustees' committees involving audit, board affairs, enrollment management and honorary degrees.

Moody is a past member of the Board of Advisors for the Minority Engineering Program of Indianapolis and a member of the Board of Directors of Downtown Indy Inc. He previously served as a member of the International Leadership Forum of the International Society of Pharmaceutical Engineers.

As a Rose-Hulman student, Moody was a member of the American Institute of Chemical Engineers, National Society of Black Engineers, Rose Astronomical Society, Alpha Chi Sigma professional chemistry fraternity, and Omega Chi Epsilon chemical engineering honor society.

Moody was presented the Rose-Hulman Alumni Association's Career Achievement Award in 2007 and has been an admissions volunteer for the Institute.

He resides in Indianapolis with his wife, Alison, and stepdaughter, Rachel.



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.

Earlier today, we recognized the contributions of the Class of 1969 by presenting commemorative degrees to those who have been alumni for 50 years. The diplomas they received honor their dedication of time and talent to their careers, society, and Rose-Hulman.

THE FOLLOWING MEMBERS OF THE CLASS OF 1969 RETURNED TO CAMPUS FOR TODAY'S CEREMONY:

Morgan Bruck
James Coles
Eric Dany
R. Alan Englehart
Stephen Hillman

David Hoecker
David Hohlfeldt
Lawrence Lynn
Thomas Michaelis
John Newlin

John Piper
David Ripple
Donald Royer
Bill Schindel
David Trueblood



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 chevrons, 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 honor society.

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
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Other Program Designations

A	U.S. Army Commission
AF	U.S. Air Force Commission
C	Consulting Engineering Program
G	Technical Translators Program-German
M	Management Studies Certificate
O	Optical Communications Certificate
S	Semiconductor Materials and Devices Certificate

Master Thesis or Engineering Management Project indicated in *italics*

Graduation Date Designations

Special codes indicate students who completed their degree requirements prior to May 25, 2019.

Those designations are:

a	August 25, 2018
n	November 19, 2018
f	February 25, 2019

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 with John N. Royse an emeritus 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.



A BRIEF HISTORY OF ROSE-HULMAN

Rose Polytechnic Institute welcomed an inaugural class of just 25 students in 1883 inside a towering, gothic structure at 13th and Locust streets in Terre Haute. The school was the brainchild of entrepreneur and philanthropist Chauncey Rose, who dreamed of creating an institute of higher learning “for the intellectual and practical education of young men.”

The institute’s heritage of educational excellence dates back to its earliest days, when the Board of Managers and a few other prominent community leaders, coaxed Charles O. Thompson, then-president of the prestigious Worcester Free Institute of Industrial Science, to take the leadership post at Rose. Under his guidance, the academic bar was set very high and has remained that way ever since.

The comradery and campus traditions that have long defined the student experience at Rose also started in its earliest days. By 1920, Rose freshmen were wearing “R” beanies to denote their newbie status and Rosie the Elephant was ensconced as the school’s mascot. Those and other traditions would survive a move to the country in 1922 when the campus transferred to its current location, where even more traditions were born, such as the annual Homecoming bonfire and voluntary (and sometimes involuntary) dips in Speed Lake.

Student enrollment began to accelerate on the new campus and would top 1,000 in 1969 under the leadership of President John Logan. The face of the campus also began to rapidly change, especially in the last quarter of the 20th century, when Cook Stadium, Hadley Hall, Oakley Observatory, Myers Center for Technical Research with Industry, Olin Advanced Learning Center and Olin Hall were all constructed. The institute took another major step in 1995 when the first female students were admitted under the leadership of President Sam Hulbert.

In this century, with growing student diversity, the addition of 1,100 acres of new property south of campus, the Mussallem Union and other significant improvements, the institute continues to build on the strong foundation laid by generations of visionary leaders, dedicated educators and hard-working students. With 20 consecutive years of No. 1 rankings from U.S. News & World Report and other recognitions, the institute, now with an enrollment of more than 2,100 undergraduates and graduate students, remains firmly established among the leading engineering, math, and science colleges anywhere in the world.

Rose-Hulman Institute of Technology

CANDIDATES FOR DEGREE

BACHELOR OF SCIENCE

BIOLOGY AND BIOMEDICAL ENGINEERING

BIOLOGY

*	Melanie Catherine Louise Foreman	Bloomington, Indiana
***	Alexander Henri Lacrampe	Mercer Island, Washington
	Bryly Madison Shipman	Jasonville, Indiana

Double Major in BIOLOGY and BIOCHEMISTRY & MOLECULAR BIOLOGY

*	Justin Michael Mader	Indianapolis, Indiana
**	Jakob Nikolaus Wentzel	Pleasant Prairie, Wisconsin

Double Major in BIOLOGY and BIOMATHEMATICS

***	Ariel Margarete Bohner	Terre Haute, Indiana
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BIOMEDICAL ENGINEERING

**	Ryuji Aoki	Long Grove, Illinois
**	Jonathan Scott Arnold	Indianapolis, Indiana
**	Megan Nicole Baker	Fort Collins, Colorado
*	Cole Watson Bechtold	South Whitley, Indiana
***	Lauren Elizabeth Blake	Wauconda, Illinois
***	Saylor Locke Bower	Monticello, Illinois
f	John David Briones	Greencastle, Indiana
*	Abigail Anne Bromenschenkel	Mendota, Illinois
	Sidrah Din	Bloomington, Indiana
***	Marissa Ann Frazee	New Bremen, Ohio
***	Kayla Nichole Gerken	Napoleon, Ohio
**	Mason Phillip Hancock	Amelia, Ohio
*	Abigail Claire Hawkins	Troy, Ohio
*	Conner James Helbling	Parker, Colorado
**	Maria Irene Kline	Terre Haute, Indiana
***	Bailey Reid MacInnis	Superior, Colorado
	Cole Delayne McFadden	Snohomish, Washington
**	Tzu Fei Millard	Marengo, Illinois
***	Kally Ann Morozin	Libertyville, Illinois
	Madeline Kate Mossdrop	Lake Oswego, Oregon
	Colin Patrick Myers	Saint Paul, Minnesota
	Trevor Alan Nong	Rockport, Indiana

***	Alex William Obatake	Torrance, California
*	Steven Donald Peterson	Pewaukee, Wisconsin
	Claire Marie Raffin	Valparaiso, Indiana
f *	Chloe Allison Seegers	Westchester, Illinois
*	Kayleigh Wittmann Sinopole	Poulsbo, Washington
**	Kelsey Lucille Sinopole	Poulsbo, Washington
f	Grant Brown Stewart	Yorktown, Indiana
	Madison McKenzie Struble	Carrollton, Illinois
*	Emily Raquel VanHavel	Mason, Michigan
**	Taylor Marie Vohland	West Chester, Ohio
	Madeline Ruth Wagner	Perrysburg, Ohio
	Rachel Christine Wood	Cary, North Carolina

Double Major in BIOMEDICAL ENGINEERING and MECHANICAL ENGINEERING

	Miranda Rose Anderson-Kenney	Hudson, Ohio
**	Beata Tala Barati	Lexington, Kentucky
**	Erin Elizabeth Minervini	Middletown, New Jersey
*	Samantha Nicole Starr	Brazil, Indiana

Anticipated Summer or Fall Completion **BIOMEDICAL ENGINEERING**

	Thomas Wooton Furie	Downers Grove, Illinois
	Hannah Maria Hart	Champaign, Illinois
	Russell Rodriquez	Hoffman Estates, Illinois

CHEMICAL ENGINEERING

	Alexandra Layne Anderson	Round Rock, Texas
	Umang Bhatia	Bangalore, India
*	David Michael Borden	Mason, Ohio
**	Micah Rushton Carlson	Greenwood, Indiana
**	Alexander Joseph Deptula	Omaha, Nebraska
	Lena Moi Duncan	Indianapolis, Indiana
	Elizabeth Ann Edwards	Indianapolis, Indiana
*	Chiarra Kianni Franklin	Kansas City, Missouri
**	Brett Stephen Fulk	Francisco, Indiana
**	Thomas Michael Gallery	Oswego, Illinois
	Nickolas Joel Gum	Kaneohe, Hawaii
*	Ariana Hernandez	Hammond, Indiana
	John Clarke Holthouse	Richmond, Indiana
***	Carter William Hounshell	Amelia, Ohio
a*	Yingyue Hu	Chengdu, Sichuan, China
***	Nolan Christopher Hughes	Shelbyville, Kentucky
**	Jonathan Paul Jones	Haymarket, Virginia
**	Ross Robert Klauer	Knoxville, Tennessee
	Jessica Diane Kohl	Indianapolis, Indiana
*	Hee Won (Richard) Kong	Seoul, South Korea
*	Ryan Paul Kuhl	Fishers, Indiana

**	David Herbert Lewis IV	Terre Haute, Indiana
	Jeanne Li	Batavia, Illinois
**	Lauren Kay London	Missouri City, Texas
**	Caitlyn Elizabeth Meiser	Eureka, Missouri
	Jason Charles Meyer	Ossian, Indiana
G*	Lucas Bernard Muhlbachler	Hopkinton, Massachusetts
*	Samuel Edward Mueller	Valparaiso, Indiana
	Ding Nie	Zhengzhou, Henan, China
	Stephen Francis O'Leary	Venice, Florida
***	Nicholas Andrew Palmer	Madison, Indiana
	Enzo Joseph Possemato	Fort Wayne, Indiana
***	Jenna Rose Queary	Midland, Michigan
*	Krishna Deepankumar Ramaiya	Naperville, Illinois
	Maxwell Knute Richardson	Indianapolis, Indiana
	Michael O'Donnell Rowe	Cincinnati, Ohio
	Bradford Stanley Russell	Antioch, Illinois
**	Audrey Brooking Ruxton	Cincinnati, Ohio
**	Brennan Haley Santaniello	Kingston, New Hampshire
	Joshua Dennis Schnipke	Kettering, Ohio
	Sarah Elizabeth Schwemmin	Noblesville, Indiana
A	Derek Gregory Snyder	Rockville, Indiana
	Tyler David Stevens	Saint Johns, Florida
*	Logan Stork	Round Rock, Texas
	Samantha Ruth Taylor	Tampa, Florida
	Laura Andrea Tello	Louisville, Kentucky
	Emerson Douglas Thayer	Birdseye, Indiana
**	Paige Caroline Underwood	Paris, Illinois
	Zachary William Versluys	Sycamore, Illinois
*	David Charles Walbring	New Carlisle, Indiana
	Elizabeth Ann Waskul	Dalton, Georgia
**	Zachary Robert Watson	New Haven, Indiana
**	Sydney Jeanne Woodard	Georgetown, Kentucky
	Zachary Eberhardt Zdanavicius	Crestwood, Illinois

Double Major in CHEMICAL ENGINEERING and CHEMISTRY

***	Anna Katherine Braun	Union, Kentucky
**	Xinyi Li	Wuhan, Hubei, China
**	Zhen Ni	Taizhou, Zhejiang China
	Brian Jacques Rouillard	Loveland, Ohio
*	Derek Thomas Steele	Columbus, Indiana

Double Major in CHEMICAL ENGINEERING and ECONOMICS

	Samantha Ellen Jacobs	Orland Park, Illinois
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Double Major in CHEMICAL ENGINEERING and MATHEMATICS

***	Leia Christine Nicole Edmondson	Fort Wayne, Indiana
***	Aaron Karcher Kulinowski	Mechanicsville, Virginia
***	Benjamin John Linxwiler	Ballwin, Missouri

Anticipated Summer or Fall Completion
CHEMICAL ENGINEERING

Double Major in CHEMICAL ENGINEERING and BIOMEDICAL ENGINEERING

Igor Adalberto Gonzalez Panama City, Panama

Double Major in CHEMICAL ENGINEERING and COMPUTER SCIENCE

† Kenneth Richard Kowalski Ypsilanti, Michigan

CHEMISTRY AND BIOCHEMISTRY

CHEMISTRY

f ** John Blake McLemore Elberfeld, Indiana

BIOCHEMISTRY

Collin James Diedrich Waseca, Minnesota
 Madison Grace Muncie Cory, Indiana
 Hannah Madrean Rowe Carmel, Indiana
 Taylor Lloyd Secrest Greencastle, Indiana

Anticipated Summer or Fall Completion
BIOCHEMISTRY

Katherine Elizabeth Brunner Batesville, Indiana
 Hunter Kaplan Schoenborn Plymouth, Wisconsin

CIVIL AND ENVIRONMENTAL ENGINEERING

CIVIL ENGINEERING

Charles Christopher Aimone Terre Haute, Indiana
 Juliann Marie Apple Greenfield, Indiana
 C Melissa Arbelaez Naples, Florida
 * Dakota James Bosse New Port Richey, Florida
 ** Ranger ChanLind Caffrey Marengo, Indiana
 C** Louis Abraham Campbell Phoenix, Arizona
 Erik Matthew Eksten Crown Point, Indiana
 Alec Mitchell Fair Terre Haute, Indiana
 C** Eric Michael Fiacable Crown Point, Indiana
 AF Eli Benjamin Hughes Clear Creek, Indiana
 Alexandra Diane Hull Brentwood, Tennessee
 Michael Ryan Kern Lafayette, Indiana
 * Cal Edwin Laughlin Paris, Illinois

*	Elizabeth Darlene Magee	Jasper, Indiana
***	Isabella Kathleen Marzari	Downers Grove, Illinois
	Nicholas Scott McGrail	Springboro, Ohio
	Levi Alexander Michalke	Thorntown, Indiana
*	Douglas Alan Pierce II.	Brazil, Indiana
**	Nicholas Dean Rademacher	Potomac, Illinois
	Molly Anne Redmon	Greensburg, Indiana
*	Braden Riley Shaffer	Houston, Texas
	Conner Alan Shipley.	Terre Haute, Indiana
	Brian Joseph Thomas	Saint Louis, Missouri
**	Brady Thomas Vaughan	Indianapolis, Indiana
	Grace Lynne Wright	Yorba Linda, California

Anticipated Summer or Fall Completion
CIVIL ENGINEERING

†	Ennis Weller	Munster, Indiana
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COMPUTER SCIENCE AND SOFTWARE ENGINEERING
COMPUTER SCIENCE

A	Nelson Connor Hawks Bade	Macungie, Pennsylvania
	Aaron Joseph Bartee.	Stilesville, Indiana
	Brandon Robert Benedict.	Indianapolis, Indiana
	Camron Ellis Borders.	Sweeny, Texas
*	Jiaqi Fang	Terre Haute, Indiana
*	George Wendell Finn	Glenview, Illinois
	David Allen Francis, Jr.	Clinton, Indiana
***	Jacob Daniel Gathof.	Glen Ellyn, Illinois
	Ryan Thomas Greenlee	Terre Haute, Indiana
	Yuhan Guo	Kunming, Yunnan, China
*	Charlie Adi Hershberger	Fremont, California
**	Fengyi Huang	Indianapolis, Indiana
	Vernon Thomas Joyner	Reston, Virginia
	Maxwell Ryan Kelly	Downers Grove, Illinois
	Addison Nichols Kremer	Holland, Michigan
	Evelyne Ange Maquelin	Granite Bay, California
***	Collin Timothy Moore	Franklin, Tennessee
	Mitchell Lee Murray, Jr.	Zionsville, Indiana
**	Christopher David Nurrenberg.	Oldenburg, Indiana
	Joshua George Palamuttam	San Jose, California
	John Cornelius Peterson.	Palatine, Illinois
	Christopher Robert Samp	Lisle, Illinois
	Jenna Samantha Seto	Santa Clara, California
	Logan Bryce Smith	Washington, Indiana
	Weimu Song	Beijing, China
	Zhaoyuan Sun	Beijing, China
*	Zachary Andrew Taylor	Louisville, Kentucky
	Natasha Augustine Tepley.	Saint Cloud, Minnesota
**	Wesley Charles Van Pelt	Fruitland, Idaho

**	Yuankai Wang	Shanghai, China
**	Yilun Wu	Nanjing, Jiangsu, China
***	Luke Thomas Wukusick	Batesville, Indiana
	Zezhi Xia.	Suzhou, Jiangsu, China
**	Xiao Xin	Suzhou, Jiangsu, China
*	Tiancong Zhao.	Changchun, Jilin, China

Two Degrees: COMPUTER SCIENCE and ELECTRICAL ENGINEERING

*	Daniel Prakash Neelappa	San Diego, California
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Triple Major in COMPUTER SCIENCE, MATHEMATICS, and SOFTWARE ENGINEERING

	Sheng Dong	Terre Haute, Indiana
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Triple Major in COMPUTER SCIENCE, SOFTWARE ENGINEERING, and MATHEMATICS

**	Connor James Boyle	Columbus, Indiana
***	Michael Kieran Crowell.	Terre Haute, Indiana

Double Major in COMPUTER SCIENCE and COMPUTER ENGINEERING

**	Anne Marie Boxeth.	Saline, Michigan
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Double Major in COMPUTER SCIENCE and MATHEMATICS

*	Jarrett Scott Alexander	Brownsburg, Indiana
**	Ryan James Bailey	Hillsdale, Michigan
**	Benjamin David Brubaker	Terre Haute, Indiana
	Nicholas Anthony Iasso.	Middleburg, Virginia
***	John Patrick McClary	West Chester, Ohio
**	Trevor Clark Morton	Issaquah, Washington
**	Adit Suvarna	Saint Charles, Illinois
*	Dylan Michael Vener	Houston, Texas
*	Jennifer Rose Wohlpart	Doylestown, Pennsylvania
f *	Alexander Zhenyu Wong	Carmel, Indiana
*	Abhimanyu Yadav	Gurgaon, Haryana, India
***	Zixuan Yang	Shenzhen, Guangdong, China

Double Major in COMPUTER SCIENCE and SOFTWARE ENGINEERING

**	Kiana Riley Caston	Chicago, Illinois
	Zachary Oliver Foote	Lake Stevens, Washington
	Jordan Alexander Hazelrigg	Connersville, Indiana
**	Christopher V Keinsley	Pekin, Indiana
*	Jonah Mark Reel	Terre Haute, Indiana
**	Linde Lee Schaffer	Inver Grove Heights, Minnesota

INTERNATIONAL COMPUTER SCIENCE (DUAL BS DEGREE WITH HOCHSCHULE ULM, GERMANY)

	David Hierholz.	Stuttgart, Germany
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SOFTWARE ENGINEERING

*	Robert William Byers	Loveland, Colorado
f	Jeremiah Nathaniel Caudell.	Middletown, Ohio
	Lance Ly Dinh.	Houston, Texas
	Jacob Edmund Douglass	Doylestown, Pennsylvania
**	Yizhi Feng	Guangzhou, Guangdong, China
**	Eric Thomas Moorman	Greensburg, Indiana
*	Mathew Viktor Palm	Schererville, Indiana

Triple Major in SOFTWARE ENGINEERING, MATHEMATICS, and COMPUTER SCIENCE

***	Walter Karl Panfil	Hoffman Estates, Illinois
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Double Major in SOFTWARE ENGINEERING and COMPUTER SCIENCE

**	Alexander James Granowski	Owatonna, Minnesota
*	Maya Kaeline Holeman	Saint Louis, Missouri
*	Tucker Fredrick Osman	Ballwin, Missouri

Double Major in SOFTWARE ENGINEERING and ELECTRICAL ENGINEERING

f	Jiaqi Liu.	Qingdao, Shandong, China
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Double Major in SOFTWARE ENGINEERING and MATHEMATICS

**	Carrie Margaret Utter	Noblesville, Indiana
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Anticipated Summer or Fall Completion COMPUTER SCIENCE

	Abhimanyu Agarwal.	Bangkok, Thailand
	George Boles.	Carmel, Indiana
	Timothy Luke Cloninger	Michigan City, Indiana
	Joshua Alan Kuhn.	Plymouth, Indiana
	Benjamin Andrew Oriold.	Saint Charles, Illinois
	Anirudh Balram Singh.	Mumbai, India
†	Shijun Yu.	Shenyang, Liaoning, China

Double Major in COMPUTER SCIENCE and MATHEMATICS

†	Ishan Saraf	Mumbai, India
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SOFTWARE ENGINEERING

	Michael Anthony Riley	Naperville, Illinois
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ELECTRICAL AND COMPUTER ENGINEERING

ELECTRICAL ENGINEERING

f *	Paul Azevedo	Salem, Oregon
***	Evan Kristopher Bauer	Celestine, Indiana
***	Rohit Gopal Chandra	Forsyth, Illinois
*	Connor Harlan Crenshaw	Nashville, Tennessee
***	Yulin Deng	Chongqing, China
S*	Michael Joseph Doyel	Wichita, Kansas
	Leah Ann Droste	Indianapolis, Indiana
*	Alec James Fowler	Griffith, Indiana
	Luke Owen Gelfius	Plainfield, Indiana
*	Mary Grace Grana	Palatine, Illinois
	Samuel Mathew Grant	Saint Petersburg, Florida
f *	Anthony John Grueninger	Mequon, Wisconsin
	Jacob William Hafner	Carlock, Illinois
	Caleb Nathaniel Hille	West Chester, Ohio
	Yuan-Ti Ho	Taipei, Taiwan
***	Hansel Alexander Hobbie	Lawrenceburg, Indiana
**	Matthew John Howlett	Richland, Washington
***	Adrian Kam	Diamond Bar, California
**	Alexander Nathan Kepchar	Griffith, Indiana
S***	Nathaniel Evan Lehrer	Canton, Ohio
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f **	Jinchi Li	Shanghai, China
**	Kuangyi Lu	Jiaxing, Zhejiang, China
O***	Charles Arthur Lynch III	Winter Springs, Florida
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	Ashley Ann Myatt	Davisburg, Michigan
	Michael Emerson Niemann	Austin, Texas
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	Michael David Rosier	Ramsey, Minnesota
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	Emily Agnes Smith	Newburgh, Indiana
*	Laura Aylin Stahle	Camarillo, California
S*	Erik Austin Stockwell	Sugar Land, Texas
	Trey Kordell Sykes	Frisco, Texas
**	Mila Tan	Chengdu, Sichuan, China
***	John Michael Quinlisk Van Treeck	Northbrook, Illinois
*	Lauren Elizabeth Walker	Washington, Indiana

Double Major in ELECTRICAL ENGINEERING and MATHEMATICS

**	Anita Ying Hsu	Granger, Indiana
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COMPUTER ENGINEERING

*	Devon Gray Adair	Albion, Indiana
*	Chinglin Katarina Chan	Independence, Kentucky
f **	Jindong Chen	Nanjing, Jiangsu, China
	Cameron John Compton	Ruxton, Maryland
	Luke Alexander Craig	Bloomington, Indiana
	Logan Nicholas Good	Goshen, Indiana
f	Melissa Groenewold	Mason, Ohio
	Brian Thomas Jennings	Bridgeton, Missouri
***	Russell James Johnson	Mackinaw, Illinois
f **	Gavin Michael Karr	Saint Charles, Illinois
*	Travious Devonte Lewis	Henderson, Texas
*	Andrew Joseph Lund	Schaumburg, Illinois
f	Minzhe Luo	Zhuhai, Guangdong, China
f *	Elizabeth Angelica Mock	Springfield, Illinois
**	Andrew Stephen Mueller	Palatine, Illinois
	Parker Brian Phillips	Piedmont, California
**	Elizabeth Gail Richardson	Newburgh, Indiana
	Adam Ben Satar	Terre Haute, Indiana
S***	Adam Joseph Seitz	Findlay, Ohio
*	Shane Robert Slaven	Rockville, Indiana
f **	Griffin Michael Steffy	Lebanon, Indiana
**	Peicheng Tang	Suzhou, Jiangsu, China
	Shinmon Ueno	Westwood, Massachusetts
	James Ferguson Usher	Syracuse, New York
***	Michael James Wilkins	Geneva, Illinois
*	Cooper Wayne Winans	Cincinnati, Ohio

Double Major in COMPUTER ENGINEERING and COMPUTER SCIENCE

**	Zachary T Davidsen	Indianapolis, Indiana
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*	Brian Anthony Burke	Lewis Center, Ohio
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	Kacper Kulesza	Wauconda, Illinois
	Jacob Micah Pluta	Indianapolis, Indiana

COMPUTER ENGINEERING

	Shaun Michael Davis	Gurnee, Illinois
	Samuel Mehari Goben	Saint Louis, Missouri

MATHEMATICS

MATHEMATICS

n**	John Thomas Lambrecht	Alma, Michigan
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**	Jiaye Su	Shanghai, China
	Jiawen Wang	Chengdu, Sichuan, China
	Lauren Teresa Wiseman	Robinson, Illinois

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**	Wyatt Arlen Smith	Honolulu, Hawaii
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BIOMATHEMATICS

Double Major in BIOMATHEMATICS and COMPUTATIONAL SCIENCE

f*	William Jacob McClure	Cordova, Tennessee
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Anticipated Summer or Fall Completion

MATHEMATICS

†	Cobi Patrick Illian	Long Grove, Illinois
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MECHANICAL ENGINEERING

*	Omar Mohamed Abdelrahman	Oak Lawn, Illinois
**	Arman Achuthan	Chicago, Illinois
	Andre Adam	Barueri, Brazil
	Ana Andrea Alcorn-Dominguez	Chillicothe, Ohio
	Elizabeth Alzate	College Station, Texas
***	Samuel Edward Bednarski	West Milford, New Jersey
	Colin James Berg	Stillwater, Minnesota
	Sydney Jean Black	Ballwin, Missouri
C	Corey Anthony Bochat	Crystal Lake, Illinois
	Chester Allen Bonnell	Columbus, Ohio
	Kyle Robert Braasch	Crystal Lake, Illinois

*	Stone Timothy Brogan	Schererville, Indiana
**	Allison Kay Bromenschenkel	Mendota, Illinois
*	David Andrew Burnside	Northbrook, Illinois
	Hannah Grace Burris	Fishers, Indiana
	Hae Rie Jessica Byun	Bethesda, Maryland
***	Logan Michael Caldwell	Fort Wayne, Indiana
f *	Lucas Craig Callahan	Danville, Indiana
	Coleson Craig Carmell	Columbus, Ohio
	John Henry Carone	Cary, Illinois
f	Miranda Nicole Chastain	Clayton, Indiana
***	Connor Lee Claussen	Grant Park, Illinois
*	Daniel Thomas Connolly	Fort Wayne, Indiana
**	Megan Cheryl Dado	Stillwater, Minnesota
	Trevor Joseph Dallio	New Lenox, Illinois
	Steven Charles Daum	Cincinnati, Ohio
**	Derek Patrick Deimel	Olney, Illinois
	Nolan Alexander Dexter-Brown	Yorba Linda, California
f	Mason Louise Diebold	Paola, Kansas
	Zachery Lee Dorsett	Plainfield, Indiana
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*	Noah Edward Forsythe	Thousand Oaks, California
f *	Zheng Fu	Hangzhou, Zhejiang, China
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	Emily Elizabeth Haussmann	Sugar Land, Texas
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*	Alexander Charles Hodges	Shirley, Indiana
*	Joseph Anthony Holtz	Elkhart, Indiana
*	Derek Michael Hornbeck	Newburgh, Indiana
***	Xinyu Hu	Beijing, China
f *	Siyuan Huang	Kunming, Yunnan, China
**	Thaddeus Joseph Hughes	Shirley, Illinois
	Taylor William James	Oconomowoc, Wisconsin
*	Nicholas Stephen Jeronis	Yardley, Pennsylvania
**	SiJun Jin	Shanghai, China
	Stephen A Jones, Jr.	Los Angeles, California
	Conner Scott Jurs	Rocky River, Ohio
**	Mitchell Jeffery Kelley	Columbus, Indiana

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	Jonathan Ryan Koenig	Sandborn, Indiana
	Mario Hunter LaMantia	Liberty, Indiana
*	Parker Erik Lappin	San Diego, California
	Lucas Lee Leiner	Fishers, Indiana
	Benjamin Frederick Lewer	Indianapolis, Indiana
	Wyatt Wesley Patton Lewis	Catlettsburg, Kentucky
AF*	Connor Martin Mahoney	Valdosta, Georgia
	Jan Margaret Evangelista Mangawang	Santa Clara, California
	William Roy McGowen	La Grange Highlands, Illinois
**	Austin Michael McKinley	Oaktown, Indiana
*	Allison Eileen McLaughlin	New Carlisle, Indiana
	Patrick Allen Mellor	Terre Haute, Indiana
f	Tanner William Metzmeier	Floyds Knobs, Indiana
	Matthew Clarence Michalak	Carol Stream, Illinois
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A*	Brennon Thomas Miller	Conneaut Lake, Pennsylvania
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n	Patrick John Neylon	Oak Lawn, Illinois
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*	Jeniffer Abril Saucedo	Austin, Texas
**	Michael Eric Simmons	Noblesville, Indiana
**	Ruochong Song	Nanjing, Jiangsu, China
*	Ryan Arthur Spangler	Yorktown, Indiana
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f *	Silven Lee Stallard	Olney, Illinois
	John Henry Steuby	University City, Missouri
***	Benjamin Joseph Strate	Chesterfield, Missouri
**	Sean Gregory Sullivan	Indianapolis, Indiana
	Austin Cole Supp	Miamisburg, Ohio
**	Zachary Michael Swanson	Lake Zurich, Illinois
f	Kenneth Robert Sweetnam	Boulder, Colorado
*	Turner Paul Tarrillion	San Antonio, Texas
**	Patrick James Thomas	Athens, Ohio
	Thomas Erwin Tintera	Pittsboro, Indiana
	Ramsey K Tomasi-Carr	Washington, District of Columbia
	Zsolt Benjamin Truckai	Saratoga, California
**	Michael Ryan Turski	Rochester Hills, Michigan
	Phillip Keith Tyler	Terre Haute, Indiana
**	Nicholas Andrew Van Hoy	Chapel Hill, North Carolina

	Markie Marie Vaughn	Sullivan, Indiana
	Scott Brian Waddle	Aptos, California
f *	Riley Sherod Waite	Terre Haute, Indiana
	Benjamin Thomas Walker	Springboro, Ohio
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**	Zihan Wan	Jiaxing, Zhejiang, China
**	Hao Wang	Ningbo, Zhejiang, China
f *	Tianhe Wang	Beijing, China
AF	Linnell Georgia Williams	Indianapolis, Indiana
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**	Brandon Joseph Wohlfarth	Tomball, Texas
**	Joshua Dugan Wright	Dayton, Ohio
*	Kevin Thomas Wuest	Fort Wayne, Indiana
*	Brian Cecil Wyatt, Jr.	Indianapolis, Indiana
A*	James Madison Young	Indianapolis, Indiana
	Sawyer Allen Young	Hayward, Wisconsin
A*	Joseph James Zemen	Manhattan, Illinois
f *	Yifan Zheng	Tangshan, Hebei, China

Double Major in MECHANICAL ENGINEERING and BIOMEDICAL ENGINEERING

	Sean Patrick Casey	McCordsville, Indiana
*	Arisa Alexis Kouchi	Rancho Palos Verdes, California

Double Major in MECHANICAL ENGINEERING and COMPUTATIONAL SCIENCE

	Nicholas Giuliano Harrelson	Wichita, Kansas
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Double Major in MECHANICAL ENGINEERING and COMPUTER SCIENCE

*	Timothy Luke Wynia	Columbus, Ohio
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Double Major in MECHANICAL ENGINEERING and ECONOMICS

	Carl Fredrik Gustav Se-Jong P Tepley	Great Falls, Virginia
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Anticipated Summer or Fall Completion **MECHANICAL ENGINEERING**

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A	Adam Nicholas Dombrowski	Fishers, Indiana
	Benjamin David Dreikosen	Maineville, Ohio
†	Lerin Elizabeth Hayes	Salt Lake City, Utah
	Ethan Richard Kaese	Rochester, Minnesota
	Andong Liang	Wuxi, Jiangsu, China
	Ari-Jit Kantiotou Majumdar	San Jose, California
	Evan Gene Piper	Clinton, Indiana

Tianyou Pu Changshu, Jiangsu, China
 Andrew Gregory Samet Hoopeston, Illinois
 James Ryan Taylor Columbus, Indiana
 Mackenzie Lee Willis Parker, Colorado
 Jianing Zheng Shanghai, China

Two Degrees: MECHANICAL ENGINEERING and COMPUTER SCIENCE

John Taylor McClure North Barrington, Illinois

PHYSICS, OPTICAL ENGINEERING, AND ENGINEERING PHYSICS

PHYSICS

** Weichang Lin Shenzhen, Guangdong, China

Two Degrees: PHYSICS and ELECTRICAL ENGINEERING

Zihang Xu Shanghai, China

Triple Major in PHYSICS, MATHEMATICS, and COMPUTATIONAL SCIENCE

* Brandon Martial Keltz Paris, Illinois

Double Major in PHYSICS and MATHEMATICS

** Zibo Wang Ningbo, Zhejiang, China

Double Major in PHYSICS and OPTICAL ENGINEERING

Zachary Adam Masner Coatesville, Indiana

OPTICAL ENGINEERING

Graham Joseph Cassel Mechanicsburg, Pennsylvania
 Jacob J Murray Wilmington, Ohio
 S Sydney Evelyn Wilson Yorktown, Indiana

ENGINEERING PHYSICS

S*** Samuel Thomas Wilkins Myren Terre Haute, Indiana
 S** Zachary Ryan Spears Indianapolis, Indiana
 S* Simon Peter Tsaoussis Miami, Florida

Anticipated Summer or Fall Completion

ENGINEERING PHYSICS

Emily Ann Ray Dyer, Indiana

MASTER DEGREES

MASTER OF CHEMICAL ENGINEERING

n Paige Victoria Bateman Bridgeton, Missouri
a Jason Thomas Marvin Oak Forest, Illinois
Daniel Ryan Moore Washington, Indiana

MASTER OF CIVIL ENGINEERING

Alexander LutzowPetaluma, California
Andrew Bryce Snyder South Bend, Indiana

MASTER OF ELECTRICAL AND COMPUTER ENGINEERING

Nathaniel Evan Lehrer Canton, Ohio

MASTER OF ENGINEERING MANAGEMENT

n Yixi FanChengdu, Sichuan, China
Albert James Okwudili Udom San Francisco, California
Wesley Donald Umbower Valparaiso, Indiana
n Pengzi Zhou Shanghai, China

MASTER OF SCIENCE

BIOMEDICAL ENGINEERING

Jessa Bryann WardLeavenworth, Indiana
An Investigation of the Biomechanics of Kinesiology Tape
Thesis Advisor: Professor Renee Rogge

CHEMICAL ENGINEERING

Ryan Michael BeereDemotte, Indiana
*Development and Analysis of a Methanol-to-Gasoline Reaction Setup
for Use in an Undergraduate Setting*
Thesis Advisor: Professor Gregory Neumann

- a Jennifer Ann Mobley Howe, Indiana
*Optimization of the Production of Long Chain Dicarboxylic Acids from Distillers Corn Oil
Using Candida viswanathii*
Thesis Advisor: Professor Irene Reizman
- n John Christopher Overton Orland, California
*Decolorization of Reactive Blue 4 Dye by Fenton Process
Using Heterogeneous Fe/SBA-15 Catalyst*
Thesis Advisor: Professor Gregory Neumann
- a Rachel Kimberly Weber Fenton, Michigan
*Fabrication and Characterization of
a Magnetohydrodynamic Micropump from PDMS*
Thesis Advisor: Professor Daniel Anastasio
- f Xintong Xia Chongqing, China
*Application of a Light-Switchable System
in Redirecting Escherichia coli Metabolic Fluxes*
Thesis Advisor: Professor Irene Reizman

ELECTRICAL ENGINEERING

- n Jiayu Guo Qingdao, Shandong, China
*Accuracy Improvement of Pedestrian Trajectory Prediction
by Extended Kalman Filter and Pedestrian Behavior Classification*
Thesis Advisor: Professor JianJian Song

ENGINEERING MANAGEMENT

- David Alexander Bruce Hopkins Terre Haute, Indiana
Measuring Effectiveness of a Virtual Team in the Automotive Workplace
Project Advisor: Professor Thomas James
- Randall Martin Languis Powell, Ohio
Production Rate Optimization: A DMAIC Approach
Project Advisor: Professor Craig Downing
- Kelly Elizabeth McKenna Crestwood, Kentucky
Improving the Order Management System of a Small Manufacturing Plant
Project Advisor: Professor Diane Evans
- f Rajalakshmi Somasundaram Sattur, Tamil Nadu, India
This is the Last Straw: Reducing Plastic Straw Usage on a College Campus
Project Advisor: Professor Diane Evans
- Sangavi Sundaramoorthy Chennai, Tamil Nadu, India
*Effects of Short and Frequent Workplace Physical Activity Breaks
on Work Performance*
Project Advisor: Professor Eva Andrijcic

Bilguun Tsogtbaatar Brownsburg, Indiana
A Sustainable Sourcing Strategy in an Automotive Supply Chain
 Project Advisor: Professor Craig Downing

Jacob Tyler Working Macy, Indiana
Investigation in College Student Housing: On-Campus Retention
 Project Advisor: Professor Eva Andrijcic

MECHANICAL ENGINEERING

f Ethan Wayne Cating Fortville, Indiana
*Design of Vibration Class Laboratory Assignments:
 Focusing on Broader Application*
 Thesis Advisor: Professor Daniel Kawano

a Zachary Joseph Dougherty Barboursville, West Virginia
*Foot-Controlled Supernumerary Robotic Arm:
 Control Methods and Human Abilities*
 Thesis Advisor: Professor Ryder Winck

f Joseph Otto Hubach Avon, Ohio
*Solar Tracking Using a Parallel Manipulator Mechanism
 to Achieve Two-Axis Position Tracking*
 Thesis Advisor: Professor Richard Stamper

Cheng Xu Ningbo, Zhejiang, China
Automated Microstructure Analysis of Large Regions
 Thesis Advisor: Professor Patrick Cantwell

OPTICAL ENGINEERING

James Arthur Dilts Billings, Montana
Design, Fabrication, and Characterization of Multilayer Hyperbolic Metamaterials
 Thesis Advisor: Professor Hossein Alisafaei

a Ehsan Ordouie Karaj, Iran
*Design, Fabrication, and Characterization of
 a One-Dimensional Single Material Polarizing Photonic Crystal*
 Thesis Advisor: Professor Azad Siahmakoun

OPTICAL ENGINEERING (DUAL MS DEGREE WITH SEOUL TECH, KOREA)

- Gwang Ho Choi Pohang-si, South Korea
*Modeling and Characterization of a Ring-Resonator
 Based Silicon Photonic Sensor on SOI*
 Thesis Advisor: Professor Azad Siahmakoun
- f Tae Won Huh Anyang, South Korea
Hybrid Optical Integrator Based on Silicon-on-Insulator Platform
 Thesis Advisor: Professor Azad Siahmakoun
- f JeongRok Kim Changwon, South Korea
*Coupling Light into Silicon Waveguide
 Using Surface Plasmon Polaritons*
 Thesis Advisor: Professor Azad Siahmakoun

SYSTEMS ENGINEERING AND MANAGEMENT (INTERNATIONAL PROGRAM)

- n Valeria Sophia Junge Herbrechtingen, Germany
*Development of a Company-Specific Model-Based
 Systems Engineering Method Encompassing Functional Safety*
 Thesis Advisor: Professor Dan Moore
- n Fabian Knupfer Biberach, Germany
*Sensors in Green Forage Harvest-Yield Estimation
 for Mowers with Roller Conditioner via Volume Flow Measurement*
 Thesis Advisor: Professor Dan Moore
- f Patrick Rippl. Burgebrach, Germany
*Analysis of Detector Signals and Optimization
 of the Image Creation Process of a Scanning Electron Microscope*
 Thesis Advisor: Professor Dan Moore

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