

Rose-Hulman Institute of Technology

**Rose-Hulman Scholar**

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Commencement Programs

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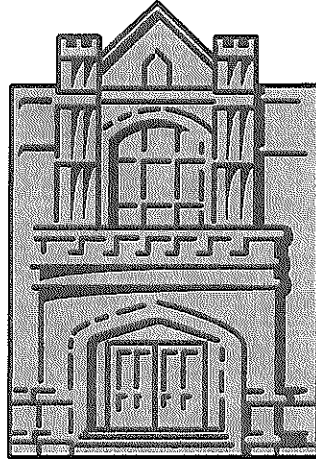
Spring 5-27-2000

## **2000 Rose-Hulman Institute of Technology : One-Hundred and Twenty-Second Commencement**

Rose-Hulman Communications and Marketing

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*Rose-Hulman*  
INSTITUTE OF TECHNOLOGY

*One Hundred and Twenty-Second  
Commencement  
May 27, 2000*

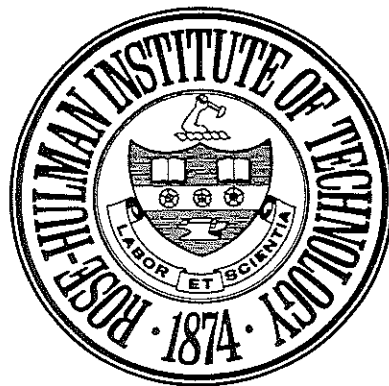
One Hundred and Twenty-Second

Commencement

of

Rose-Hulman Institute

of Technology



11 a.m., May 27, 2000  
Sports and Recreation Center

## Commencement Program

Prelude .....	“Trumpet Tune in D” by H. Purcell
Academic Procession .....	Jess R. Lucas, B.S., M.S., Ph.D. <i>Marshal</i>
Processional .....	<i>Indianapolis Emerald Society Firefighters</i>
National Anthem .....	Andrew R. Mech, B.S., M.S., Ph.D. <i>Professor of Mechanical Engineering</i>
Invocation .....	Hannah Rumpf <i>President, Blue Key</i>
Greeting from the Alumni .....	Roger C. Ward, B.S., M.S.E. <i>President, Alumni Association</i>
Response from the Senior Class .....	Nicholas Hurlburt <i>President, Senior Class</i>
Introduction of Commencement Speaker .....	Jason Zielke <i>President, Student Government Association</i>
Commencement Address .....	Erik N. Jansen <i>Managing Director for Investment Banking, D.A. Davidson &amp; Company Seattle, Washington</i>
“www.howtothriveintheecommerceworld.com”	
Awarding of Heminway Medal .....	Barry A. Benedict, B.S., M.S., Ph.D. <i>Vice President for Academic Affairs</i>
John T. Royse Award .....	Jess R. Lucas <i>Vice President for Student Affairs</i>
Herman A. Moench Distinguished Senior Commendation .....	Keith E. Hoover B.S., M.S., Ph.D. <i>Herman A. Moench Distinguished Professor</i>
Awarding of Honorary Degrees .....	Samuel F. Hulbert, B.S., Ph.D. <i>President, Rose-Hulman Institute of Technology</i>
John A. Bizal, M.D. (Doctor of Engineering), Introduced by Lee R. Waite, B.S., M.S., Ph.D.	
Walter S. Blackburn (Doctor of Engineering), Introduced by Caroline Carvill, B.A., M.A., Ph.D.	
Harold D. Brown, Jr. (Doctor of Engineering), Introduced by M. Patricia Brackin, B.S., M.S., Ph.D.	
Gail F. Burrill (Doctor of Science), Introduced by Patricia Ann Carlson, A.B., M.A., Ph.D.	
Erik N. Jansen (Doctor of Engineering), Introduced by James R. Eifert, B.S., M.S., Ph.D.	
John N. Royse (Doctor of Engineering), Introduced by Thad D. Smith, B.A., Ph.D.	
Presentation of Fifty-Year Commemorative Degrees .....	Samuel F. Hulbert
Conferring of Degrees .....	Samuel F. Hulbert
Dean’s Outstanding Teacher Award .....	Barry A. Benedict
Board of Trustees’ Outstanding Scholar Award .....	B. Guille Cox, Jr. <i>Chairman of the Board of Trustees</i>
President’s Outstanding Service Award .....	Samuel F. Hulbert
Alma Mater .....	Rose-Hulman Chorus
Benediction .....	Wesley Bolsen <i>President, Eta Kappa Nu</i>
Recessional .....	“Rondeau” by J. J. Mouret
Postlude .....	“Allegro Moderato” by G. Young

Organ Music by Steve McCullough

## Honorary Degrees

Doctor of Engineering

John A. Bizal, M.D.  
Tri-State Ear, Nose and  
Throat Surgeons, Incorporated  
Evansville, Indiana

John Bizal has distinguished himself during a 35-year career as an ear, nose and throat surgeon. He has been honored as a fellow in the American College of Surgery, the American Academy of Facial, Plastic and Reconstructive Surgery, and the Head and Neck Society.

Following graduation with honors from Rose-Hulman in 1957, Bizal worked for the Dow Chemical Co., and completed a tour of duty with the U.S. Army Corps of Engineers prior to entering Indiana University where he earned a master's of business administration. A longtime interest in medicine led to a medical degree from Indiana University. He entered private medical practice in 1970 in Evansville.

He has served as a trustee of the Indiana State Medical Association and is past president of the Indiana State Medical Association. Bizal has been medical director of the Evansville Surgery Center and a past president of the Vanderburgh County Medical Society. He served as a lieutenant colonel in the Army Medical Corps until 1996.

Doctor of Engineering

Walter S. Blackburn  
President  
Blackburn Associates Architects  
Indianapolis, Indiana

Widely regarded as a prominent architect, Walter Blackburn was chosen to design the new Underground Railroad Freedom Center in Cincinnati, Ohio. The museum is the largest and most significant African-American cultural and historical museum in the United States.

Blackburn has worked on an impressive list of important structures in Indiana and across the nation. They include the United Airlines Maintenance Hub at Indianapolis International Airport, the sculpture and ceramic building for the Herron School of Art, and numerous shopping centers, churches, schools, complex housing developments and high-rise buildings.

He is a graduate of the Howard University School of Architecture and Engineering. Blackburn has served as vice president of the American Institute of Architects. He was appointed by President George Bush to the Board of Directors of the National Institute of Building Sciences. He received an honorary degree from Purdue University earlier this month.

Blackburn has served since 1990 as a member of the Rose-Hulman Board of Trustees.

## Doctor of Engineering

Harold D. Brown, Jr.  
Retired Senior Vice President AMR Energy Corporation  
and President of Woodacre Corporation  
Dallas, Texas

Hal Brown has provided financial and management leadership resulting in substantial growth of several businesses. He has served as president of Woodacre Corp., Amcar, Inc., Dixie Lime and Stone Co., Tonk Products, and Round Rock Lime Co. Brown was senior vice president for finance and administration of AMR Energy Corp., an oil and gas company owned by American Airlines.

After graduating from Rose-Hulman in 1957 with a chemical engineering degree, Brown completed active duty as an officer in the Army Corps of Engineers and was hired by Dow Chemical Co. His work at Dow included positions as area superintendent and production superintendent in Freeport, Texas.

As president of Round Rock Lime Co., Brown restored profitability to the company in just one year. He was instrumental in the acquisition of Tonk Products and Dixie Lime and Stone Co. by Amcar, a subsidiary of Carmeuse of Belgium. Brown assisted the Environmental Protection Agency in drafting rules and regulations relating to reformulated gasoline now used in 40 percent of the nation's vehicles.

Brown is the chairman of the business administration committee and treasurer of the Rose-Hulman Board of Trustees.

## Doctor of Science

Gail F. Burrill  
Director, Mathematical Science Education Board of the  
National Research Council and Past President, National Council  
of Teachers of Mathematics  
Washington, D.C.

Gail Burrill is nationally known as a leader in the field of mathematics education. She has made significant contributions to improvements in the preparation of mathematics teachers and mathematics education. Burrill serves on numerous national and international educational advisory boards related to teaching standards, mathematics curricula and testing.

For 30 years, Burrill taught mathematics at Whitnall High School in Wisconsin. During that time, she received the Presidential Award for Excellence in Teaching Mathematics and Sciences, the Distinguished Mathematics Education Award, and the Rose-Hulman Outstanding High School Teacher Award.

She has served as an associate researcher for the Wisconsin Center for Education Research at the University of Wisconsin in Madison, and serves on the executive committees of the Conference Board on Mathematical Sciences and the International Mathematical Olympics. As the director of the Mathematical Science Education Board, she brings together leaders from various professions to improve mathematics education.

Doctor of Engineering

Erik N. Jansen  
Managing Director for Investment Banking  
D.A. Davidson & Company  
Seattle, Washington

Erik Jansen is responsible for D.A. Davidson & Company's capital markets activities in the Northwest including its public equity offerings, private fund raising, merger and acquisition advisory services. He specializes in growth and technology-oriented issues.

In prior Wall Street assignments, Jansen was a well-known technology research analyst as identified by major institutions including Fidelity Management and Research, Bloomberg Financial Markets, Dow Jones and Co., and Reuters. He has appeared on many national broadcast news programs and been quoted by various national business publications.

Prior to leading D.A. Davidson's investment banking efforts, Jansen was chief executive officer and co-founder of Palo Alto Technologies, a start-up company focused on developing specialized manufacturing automation systems. He was also the founding partner of the financial advisory firm of Jansen, Remmers, Nichols and Bernier, Inc.

He earned an electrical engineering degree from Rose-Hulman in 1978 and the MBA from Indiana University in 1981. He is a member of the Rose-Hulman Board of Trustees.

Doctor of Engineering

John N. Royse  
Retired Chairman and CEO  
Old National Bancorp  
Terre Haute, Indiana

John Royse has been a leader in the banking profession during a 38-year career with American Fletcher National Bank, Merchants National Bank and Old National Bancorp in Indiana.

Royse began his career in 1960 with American Fletcher National Bank in Indianapolis. Three years later, he joined Merchants National Bank in Terre Haute and held a variety of positions before becoming president in 1977 and chief executive officer in 1979.

Royse was elected to the Old National Bancorp Board of Directors as the result of a merger between Merchants National Bank and Old National in 1985. He became president and chief operating officer in 1991, and chairman and chief executive officer in 1995. Royse retired from Old National Bancorp in 1998 and continues to serve on its Board of Directors.

A Terre Haute native, Royse is a graduate of Amherst College and the University of Wisconsin School of Banking. He is a dedicated volunteer who has served on many community boards, including the United Way, Boy Scouts, Chamber of Commerce, Union Hospital and Indiana State University.

He has been a member of the Rose-Hulman Board of Trustees since 1975 and is the past treasurer of the board.

## **Fifty-Year Commemorative Degrees**

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

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

Today, we recognize the contributions of the Class of 1950 by presenting commemorative degrees to those men 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 1950 returned to campus for today's ceremony.

### **Class of 1950 Attending Commencement 2000**

Gene Clingerman .....	Columbus, Indiana
George Eddy .....	Lynnfield, Massachusetts
Robert Haswell .....	Louisville, Kentucky
Allan Junker .....	Venetia, Pennsylvania
Samuel Lynch .....	Elizabethtown, Pennsylvania
Jack McLaren .....	Summerfield, Florida
Bill Pittman .....	Beavercreek, Ohio
Robert Ragsdale .....	Hollywood, Florida
Charles Strickland .....	Indianapolis, Indiana



## 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.

* <i>Cum Laude</i>	G	Technical Translators Program—German
** <i>Magna Cum Laude</i>	A	U.S. Army Commission
*** <i>Summa Cum Laude</i>	AF	U.S. Air Force Commission
	C	Consulting Engineering Program
	M	Management Studies Certificate
	I	Imaging Systems Certificate
	S	Semiconductor Materials and Devices Certificate

Master Thesis indicated in *Italics*

### *Graduation Date Designations*

Special codes indicate students who completed their degree requirements prior to May 27, 2000. Those designations are:

a	August 28, 1999
n	November 18, 1999
f	February 24, 2000

## 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, although black is the basic color of the majority of academic gowns. The doctor's gown is faced down the front with velvet panels and has three velvet crossbars on each sleeve. The velvet may be black or may be the color which represents the field in which the degree was conferred.

### *RHIT Bachelor's Degree Attire*

Rose-Hulman Institute of Technology Bachelor's degree holders or candidates wear a black gown and a black mortarboard with a red and white tassel.

### *RHIT Master's Degree Attire*

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

# Rose-Hulman Institute of Technology

## Candidates for Degrees

### Bachelor of Science

#### CHEMICAL ENGINEERING

*	Alice Christine Tranter Albrinck .....	Edgewood, Kentucky
	John Joseph Basler III .....	New Castle, Indiana
	William Edward Bennett II .....	Shelbyville, Indiana
	Timothy John Blotkamp .....	Garrett, Indiana
	Charissa Hope Bolind .....	Ingleside, Illinois
	Monte Alan Brown II .....	West Terre Haute, Indiana
*	Stephen Matthew Burnside .....	Macomb, Michigan
*	John Donald Cole .....	Terre Haute, Indiana
	Patricia Dawn Cunnington .....	Snyder, Texas
	Jason Bradley Davis .....	Indianapolis, Indiana
G**	James Robert Dowd .....	Rockford, Michigan
	Kathleen Renee Faulkner .....	Clarksville, Indiana
	Anthony Daniel Ferraro .....	Tinley Park, Illinois
	Sharon Sue Foltz .....	Carmel, Indiana
*	Cathy Allene Francis .....	Janesville, Wisconsin
	Amanda Michele Gray .....	Hanover, Indiana
	Karin Alexis Guthrie .....	Marshalltown, Iowa
	Elizabeth Marie Hagerman .....	Highland, Illinois
	Travis Franklin Hammond .....	Dunkirk, Indiana
***	Terry Dayne Hardin .....	Avon, Indiana
A	David Matthew Hartman .....	Greensburg, Indiana
	Robert William Hodge II .....	St. Louis, Missouri
	Aaron Otto Holder .....	Boonville, Indiana
*	Anastasia Kay Hubert .....	St. Henry, Indiana
*	Neil David Kaszubski .....	Cincinnati, Ohio
	David Edward Kempf .....	Avon, Indiana
	Valerie Robyn Knoll .....	Vincennes, Indiana
	Mark Anthony Lewis .....	Indianapolis, Indiana
	Shaun Darrell Lindley .....	Plainfield, Indiana
	Yuet Ching Rita Lo .....	Terre Haute, Indiana
***	Michael Dell Madden .....	Myersville, Maryland
***	Eric Alan Marion .....	Lincoln, Nebraska
	Neil Andrew McCracken .....	Hamilton, Ohio
**	Brian Kristopher Meents .....	Scottsburg, Indiana
*	Stacey Marie Miles .....	Terre Haute, Indiana
	Aaron Andrew Miller .....	Huntington, Indiana
	Benjamin Wayne Munson .....	LaPorte, Indiana
*	James William Pattison II .....	Mexico, Indiana
	Kristi Jo Pratt .....	Harrisville, West Virginia
	Michelle Rae Query .....	Camby, Indiana
	Kellina Jo Reckard .....	Huntington, Indiana
***	Alyssa Ann Riley .....	Toledo, Ohio
	Adrian Sawyer Rust .....	New Albany, Indiana
	Stephen Allen Sands .....	Key West, Florida
	Ryan Kristopher Slavens .....	Center Point, Indiana
	Hannah Rose Snodgrass .....	Advance, Indiana
	Scott Heinzman Spicer .....	Cicero, Indiana
G*	Jacob Lee Stoltzfus .....	Goshen, Indiana

- \*\* Scott Robert Walshon ..... Skokie, Illinois
- G\* Russell Scott Weinhammer ..... Algonquin, Illinois
- \* Christine Marie Winters ..... Huntington, Indiana
- \* Brad Lee Zenthoefel ..... Haubstadt, Indiana

Two Degrees: CHEMICAL ENGINEERING and CHEMISTRY

- \*\* Kevin James McKinney ..... Glen Rock, Pennsylvania
- \*\* Philip Richard Reksel ..... Chicago, Illinois

CHEMISTRY

- Denise Lynn Beemster ..... Chicago, Illinois
- \*\* Stephanie Lyn Cohen ..... Aurora, Colorado
- n Joanna Louise Mahan ..... Farmersburg, Indiana
- \*\*\* David Charles McKinney ..... Bedford, New Hampshire
- \* Catherine Michelle Miller ..... Inez, Texas
- Christopher James Sanderson ..... Bedford, Indiana
- n Michael Todd Smithback ..... New London, Wisconsin
- Gf\* Jill Suzanne Sprague ..... Wray, Colorado

CIVIL ENGINEERING

- Kelly Ann Barney ..... Mount Pleasant, Iowa
- George William Charles II ..... Vincennes, Indiana
- Bradley Alexander Chelton ..... Houston, Texas
- \* Stephanie Kay Dunagan ..... Madison, Indiana
- Andrew Neal Effinger ..... Evansville, Indiana
- \* Eric Thomas Haenlein ..... Houghton Lake, Michigan
- C\*\* Susan Elizabeth Howard ..... Terre Haute, Indiana
- Shannon Marie Kerns ..... Terre Haute, Indiana
- Katrina Louise Klein ..... Rochton Park, Illinois
- Elizabeth Allyn Nixon ..... Marshalltown, Iowa
- Sara Marie O'Connell ..... Pekin, Indiana
- C\*\*\* Kenneth David Rickard ..... Evansville, Indiana
- Shanna Lynn Rives ..... Shepherdsville, Kentucky
- Jeffrey Randall Scott ..... Crete, Illinois
- Jonathan Wayne Walls ..... Paoli, Indiana
- Adam David Weber ..... Guilford, Indiana

COMPUTER SCIENCE

- Vincent Joseph Agnello ..... Midwest City, Oklahoma
- \*\* Kevin Rocco Beto ..... Oak Brook, Illinois
- AF\* Nicholas Scott Bianchi ..... Boston, Massachusetts
- Patty Jane Bragger ..... Hope Valley, Rhode Island
- f\*\* Matthew A. Burke ..... Lake Zurich, Illinois
- Christopher Dalzell ..... Indianapolis, Indiana
- \* Shawn Michael Dooley ..... Carmel, Indiana
- Anthony J. Flynn ..... Linton, Indiana
- \*\* Nicholas Ray Hurlburt ..... Black River Falls, Wisconsin
- \*\* Raul Gregory Lara ..... Elizabethtown, Kentucky
- \*\* Daniel Ryan Lehenbauer ..... Indianapolis, Indiana
- \* Herbert Paul Dalton Mann ..... Indiana, Pennsylvania
- Christopher Wayne Maurer ..... Springfield, Ohio
- Daniel Carl Moore ..... Shelbyville, Indiana
- I William Alfred Nagel ..... Wabash, Indiana
- Craig Steven Pohlman ..... Tempe, Arizona
- I Christopher David Schultz ..... Montgomery Village, Maryland
- AF\*\* Robert Joe Settle III ..... Carmel, Indiana
- Gregory David Smelker ..... Delaware, Ohio

- \*\*\* Michael Scott Thomas ..... Silverdale, Washington
- \*\* Michael Eric Treaster ..... Ledyard, Connecticut
- f\* Michael Scott Van Vertloo ..... Edwardsville, Illinois
- Brian Christopher Vargas ..... Highland, Indiana
- \*\* Christopher Verlie Vollbrecht ..... Dexter, Michigan
- Jason Alan Walker ..... Moneta, Virginia
- Chad Kenneth Wiseman ..... Rensselaer, Indiana
- \* William Ray Young ..... Griffith, Indiana

Double Major in COMPUTER SCIENCE and ECONOMICS

- \*\* Corey Russell Keith ..... Omaha, Nebraska

Double Major in COMPUTER SCIENCE and MATHEMATICS

- \*\*\* Steven Alexander Bogaerts ..... Buffalo Grove, Illinois
- \*\* Joseph Edward Boyd ..... Chrisney, Indiana
- \*\* Brooke Nicole Chenoweth ..... Danville, Indiana
- \*\*\* David Matthew Edwards ..... Herndon, Virginia
- f Frederick Daniel Franzwa ..... Rochester, New York
- \*\*\* Matthew Baker Lepinski ..... Minneapolis, Minnesota
- f\*\*\* Nicholas Allen Robarge ..... Fishers, Indiana
- David Charles Sing ..... Brick, New Jersey
- \* Brian Mark Wickham ..... Springfield, Virginia

ECONOMICS

- Peter Taylor Rudolph ..... Tell City, Indiana

ELECTRICAL AND COMPUTER ENGINEERING

ELECTRICAL ENGINEERING

- f\*\* Kyle Shayne Aubrey ..... Tell City, Indiana
- C\*\* Wesley James Bolsen ..... Lovington, Illinois
- \*\* David Martin Bostrom ..... Terre Haute, Indiana
- f Brian Keith Brackee ..... Martinsville, Indiana
- M\*\* Katharine Elizabeth Brown ..... Evergreen, Colorado
- Carol Ann Choate ..... Troy, Michigan
- \*\* Philip James Chorazy ..... Schaumburg, Illinois
- AF Matthew James Clausen ..... Brazil, Indiana
- \* Jonathan Andrew Coppock ..... Kokomo, Indiana
- \*\* Benjamin Daniel Drake ..... West Union, Illinois
- Erin Francis Edwards ..... Lafayette, Indiana
- Toby James Eiler ..... Hebron, Indiana
- \*\* Chad Richard Eviston ..... Columbia City, Indiana
- Bradley Scott Fetters ..... Noblesville, Indiana
- Michael Patrick Frohnapple ..... Dyer, Indiana
- Brian Reinhardt Goldman ..... Chesterton, Indiana
- \*\* Patrick Charles Grace ..... Norman, Oklahoma
- Jonathan David Grubb ..... Terre Haute, Indiana
- \* Timothy Michael Hancock ..... Indianapolis, Indiana
- f Douglas William Hansel ..... West Terre Haute, Indiana
- Michael Francis Harris ..... Indianapolis, Indiana
- \* Robyn Lyn Hartmann ..... Owensboro, Kentucky
- Gregory Andrew Herman ..... Centerville, Ohio
- Jonathan Lee Hulsman ..... Ireland, Indiana
- Nathan Alan Johanningsmeier ..... Metamora, Illinois
- Wes David Journey ..... Bryant, Indiana

**	Jason Edgar Kaiser .....	Merom, Indiana
f	Jerry Gene Kezar .....	Nappanee, Indiana
f	Nathan Andrew Kirk .....	Peru, Indiana
	Adam Daniel Knoll .....	Noblesville, Indiana
***	Ronald Craig Larcom .....	Great Falls, Montana
	Jason Phillip Lemke .....	Fort Worth, Texas
f	Norbert James Martini .....	Lawrenceburg, Indiana
	Carlos Deshea McGowan .....	Galveston, Texas
	Marina Francesca Mondello .....	Oak Park, Illinois
	L'Netta Dawn Moss .....	Gary, Indiana
*	Jonathan Paul Nord .....	Huntingburg, Indiana
	David Cody O'Neil .....	Gypsum, Colorado
	Jonathan Christopher Phillips .....	Mooresville, Indiana
	Rachael Lynn Polen .....	Ferdinand, Indiana
	Eric James Reinhardt .....	Okeana, Ohio
*	Jason Joseph Sherey .....	Fort Worth, Texas
	Mandy Lynn Smith .....	Clay City, Indiana
	Russell Jacob Stamp .....	Lawrenceburg, Indiana
*	Alan Ronald Study .....	Centerville, Indiana
f	Roger Andre Vachon .....	Wake Forest, North Carolina
G*	Todd Alan Van Meter .....	Rockport, Indiana
	William Kristopher Verdeyen .....	Terre Haute, Indiana
	Jamie Rashad Wilson .....	Fort Wayne, Indiana

#### COMPUTER ENGINEERING

	Anthony Wayne Addis .....	Shelbyville, Indiana
f	Charles William Agnello .....	Midwest City, Oklahoma
	Jacob Ali Ansari .....	Kenosha, Wisconsin
	Brian Jeffrey Ball .....	O'Fallon, Illinois
	Brian Duane Clevenger .....	Muncie, Indiana
	Jarrod Marcum Dobson .....	Oldenburg, Indiana
f	Jamie Elizabeth Funk .....	Scottsburg, Indiana
I**	Joseph Zachary Gorman .....	Portland, Oregon
f	Theodore Jason Gould .....	Aurora, Colorado
I*	Alejandro Emilio Icaza .....	Baton Rouge, Louisiana
AF*	Trevor Allyn Jones .....	Napa, California
f**	Timothy Michael Langham .....	Troy, Michigan
	Matthew Wade Lueck .....	Mountain Home, Arkansas
f**	Aaron Stephen Nelson .....	Arden Hills, Minnesota
**	Stephen Todd Nelson .....	Fairbanks, Alaska
	Jeffrey Bryant Price .....	Chesterton, Indiana
*	Brian Wesley Pruss .....	Farmers Retreat, Indiana
	Shawn Gregory Scott .....	Cicero, Indiana
	Shane Benjamin Thomas Stanford .....	Surfside Beach, South Carolina
	Mark David Stetzer .....	Taylor, Wisconsin
	Brandon Matthew Swango .....	Bedford, Indiana
	John Aaron Swarner .....	Valparaiso, Indiana
f**	Leo Paul Szumel .....	Santa Cruz, California
***	Benjamin Christopher Thompson .....	Union City, Indiana
**	Eric Ryan Willeke .....	Mansfield, Ohio

## MATHEMATICS

f*	Jonathan LaVerne Matthews .....	San Diego, California
Double Major in MATHEMATICS and COMPUTER SCIENCE		
**	Randall Kenneth Motchan .....	Chesterfield, Missouri

## MECHANICAL ENGINEERING

	Craig Michael Ashcraft .....	Fort Wayne, Indiana
f	James Jason Barry .....	Hartford City, Indiana
	Michael Anthony Bredhold .....	Evansville, Indiana
	Matthew Dale Briscoe .....	Austin, Texas
	Nathan Beecher Chastain .....	Harmony, Indiana
	Christopher Alan Cinal .....	Vandenberg AFB, California
	Zachariah Alan Cole .....	Mitchell, Indiana
	Matthew Aaron Comer .....	Marion, Ohio
*	Adreanne Rachel Czuba .....	Hamburg, New York
	Andrew Richard Davis .....	Huber Heights, Ohio
	Brian Paul Degnan .....	Rising Sun, Indiana
*	Lisa Ann Durcholz .....	Ferdinand, Indiana
	Andrew Jacob Eberly .....	Ligonier, Indiana
	Timothy David G. Emmitt .....	Holly, Michigan
n	Marc Thomas Feichter .....	Fort Wayne, Indiana
***	David Scott Fisher .....	Bedford, Indiana
	Rachel Lynn Freebairn .....	Lowell, Indiana
	Jeffrey Daniel Fuchs .....	Mishawaka, Indiana
*	Colin Stanley Gabhart .....	Rosedale, Indiana
	Bryan Charles Gill .....	St. Louis, Missouri
	Robert Keith Harman .....	Daleville, Indiana
*	Matthew Jason Haycox .....	Riverview, Michigan
	Elizabeth Nicole Henthorn .....	Waynetown, Indiana
	John Clark Hewitt .....	Sullivan, Indiana
	Jacqueline Nicole Hoskins .....	Brazil, Indiana
	Michael Troy Howard .....	Brazil, Indiana
*	Emily Elizabeth Huguenard .....	Fort Wayne, Indiana
	Joshua Dale Hulett .....	Sullivan, Indiana
	Eric Thomas Hyten .....	Indianapolis, Indiana
	James Christopher Inman .....	Fishers, Indiana
	Matthew Isaac Jackson .....	Greenwood, Indiana
	Aaron Paul Jennings .....	Tipton, Indiana
*	Ryanne Marie Jennings .....	Terre Haute, Indiana
A	Joshua Allen Karkalik .....	Dayton, Ohio
	Leland Nicole Keyt .....	Indianapolis, Indiana
	Jason Russell Kousky .....	Waldorf, Maryland
	Deborah Marie Kroll .....	River Grove, Illinois
	William Matthew Kuester .....	Newburgh, Indiana
	Mary Elizabeth Kundrat .....	Loveland, Ohio
M	David Daniel Lawrence .....	Lindenhurst, Illinois
	John Paul Lewington .....	St. Louis, Missouri
	Trevor Joseph Lobo .....	Terre Haute, Indiana
	David Wayne Luebke .....	Madison, Indiana
	Jason Andrew Macak .....	West Terre Haute, Indiana
*	Joseph Quentin Marietta .....	Clinton, Indiana
**	Michael Eric McClure .....	Grand Rapids, Michigan
	Marc Patrick McCullough .....	Cincinnati, Ohio
	Irwin Scott Minnemann .....	Oakland City, Indiana
	Lester Earl Mobley IV .....	Spencer, Indiana

C*	Adam Jay Morrison .....	Linton, Indiana
	Charles Morris Neese .....	Elwood, Indiana
*	Mary Kathryn Newberry .....	Indianapolis, Indiana
f	Robert Matthew Nichols .....	West Terre Haute, Indiana
	Russell Wayne Nichols .....	Sullivan, Indiana
	Zachary Rohan Nicoson .....	Terre Haute, Indiana
**	Bradley Charles Nord .....	Dale, Indiana
*	Julie Marie Nordmeyer .....	Terre Haute, Indiana
f**	Kent Robert Paschen .....	Lucerne, Indiana
	Kenneth Luis Patricio .....	Centreville, Virginia
	Joseph Arthur Patterson .....	Evansville, Indiana
**	Daniel Marsden Peairs .....	Wyoming, Ohio
	Matthew Aaron Poi .....	Indianapolis, Indiana
*	Scott Eric Polak .....	Crete, Illinois
	Richard Martin Price .....	Lake Orion, Michigan
	Anthony Joseph Primozich .....	Salem, Oregon
	Matthew William Revercomb .....	Newark, Ohio
	Jena Michelle Ringo .....	Brazil, Indiana
Cf**	Kara Lynn Ritchison .....	Pendleton, Indiana
AF***	Hannah Katherine Rumpf .....	Novi, Michigan
	Airen Rae Schuetter .....	Holland, Indiana
f	Erich Daniel Schuler .....	Fargo, North Dakota
AF*	Jennifer Jill Schwartz .....	Merrill, Wisconsin
	Thomas David Shaw .....	Columbus, Indiana
**	Katherine Meghan Shilling .....	Cockeysville, Maryland
M**	Jeremy Christopher Showalter .....	Goshen, Indiana
	Jeffrey Thomas Siefert .....	Terre Haute, Indiana
	David Spelman Sitz .....	Dolton, Illinois
	Singalex Ban Song .....	Fort Worth, Texas
	Shawn Patrick Stafford .....	West Terre Haute, Indiana
***	Daniel William Stinemates .....	Waupaca, Wisconsin
	Scott Kenneth Stranko .....	Winchester, Indiana
	Keoni John Sundseth .....	Kailua-Kona, Hawaii
	David Joseph Svesko .....	Erie, Pennsylvania
	Erin Michelle Swango .....	Vevay, Indiana
	Bradley Norman TeCronney .....	Clymer, New York
	Nicholas Gene Terwiske .....	Huntingburg, Indiana
*	Michael Lee Thompson .....	Rosemont, Minnesota
AF**	Matthew Rand Toppin .....	Naples, Florida
	Daniel Joseph Vialard .....	Argos, Indiana
**	Kara Lynn Walker .....	Troy, Michigan
	Mark Howard Ware .....	Indianapolis, Indiana
	Joseph Warren Waters .....	Valparaiso, Indiana
*	Darren Joseph Weber .....	Guilford, Indiana
	Anthony Jason Welch .....	Union, Kentucky
	Sarah Elizabeth Wruck .....	East Troy, Wisconsin
	James David Wyeth .....	Clayton, Indiana
**	Jason Lynn Zielke .....	Antwerp, Ohio

Two Degrees: MECHANICAL ENGINEERING and ELECTRICAL ENGINEERING  
Walter Stanley Walczak .....

Park Ridge, Illinois

PHYSICS AND APPLIED OPTICS

PHYSICS

\*\* Buckner Miller Creel V ..... Pittsburgh, Pennsylvania  
\*\* Andrew George Fischer ..... Waseca, Minnesota

Double Major in PHYSICS and MATHEMATICS

\* Nicholas Joseph Graf ..... Indianapolis, Indiana  
\*\* Evan Taclibon Graves ..... Terre Haute, Indiana

APPLIED OPTICS

S\*\* Brian Edward Monacelli ..... Sheridan, New York  
AF Curtis Ashley Stutz ..... Kearney, Nebraska



## Master of Science

### BIOMEDICAL ENGINEERING

- f Alan Eskuri ..... Kettle River, Minnesota  
*"The Design of a Minimally Invasive Vascular Suturing Device"*  
Thesis Advisor: Professor Lee R. Waite
- Christopher Graham Spear (posthumously) ..... Shelbyville, Indiana  
*"A Comparison of the Wear Properties of Artificially Aged  
Ultra-High-Molecular-Weight Polyethylene Sterilized By Gamma Radiation  
and Gas Plasma as Used in Orthopaedic Implants"*  
Thesis Advisor: Professor Samuel-F. Hulbert

### ELECTRICAL ENGINEERING

- a Erik Bresch ..... Magdeburg, Germany  
*"Application of Digital Signal Processing in Class-D Audio Amplifiers"*  
Thesis Advisor: Professor Wayne T. Padgett
- Theodore Gould ..... Aurora, Colorado  
*"Scheduling of Processes for a Simultaneous Multi-Threading Processor"*  
Thesis Advisor: Professor Frederick C. Berry
- a Harold Hoffman ..... Halle, Germany  
*"Compact and Low-Cost Verilog HDL Implementation of a Frame Relay to ATM  
Interface Employing AAL5 and the Interworking Function, Targeting Altera's  
Flex 10KE Embedded Programmable Logic Family"*  
Thesis Advisor: Professor Frederick C. Berry
- Madhulika Khare ..... Lucknow, India  
*"Controls and Diagnostics of Diesel Engines in Real-Time"*  
Thesis Advisor: Professor Frederick C. Berry
- a Yu Kang Ku ..... Bangkok, Thailand  
*"Real-Time DSP Implementation of a Delay-Sum Beamformer"*  
Thesis Advisor: Professor Wayne T. Padgett
- f Hansong Liu ..... Shenyang, Liaoning, China  
*"Computer Relay Design with TI TMS320C3 DSK"*  
Thesis Advisor: Professor Clifford H. Grigg
- n Hongwei Liu ..... Benxi, Liaoning, China  
*"The Phase II Prototype Design of an Improved Telecommunication  
Device for the Deaf-Blind"*  
Thesis Advisor: Professor Barry J. Farbrother

- a Sudarshan Mehta ..... New Delhi, India  
*"Matlab Simulation of an Adaptive DS-CDMA Receiver for Rejecting  
 AWGN Noise, Narrowband Interference, and Multiuser Interference"*  
 Thesis Advisor: Professor Bruce A. Black
- a Özgür Osman Özkaya ..... Ankara, Turkey  
*"An Investigation of Skin Vibrations Introduced by a  
 Pulse-Width-Modulated Signal"*  
 Thesis Advisor: Professor Frank E. Acker
- a Swati Saxena ..... Maharashtra, India  
*"Transforms and Edge Detection Techniques to Detect Defects on Surfaces"*  
 Thesis Advisor: Professor Keith E. Hoover
- Geeta Shingne ..... Pune, Maharashtra, India  
*"Estimation of the Mass Flow of the Recirculating Exhaust  
 Gas in a Diesel Engine"*  
 Thesis Advisor: Professor Keith E. Hoover
- William Tierney ..... Bloomington, Indiana  
*"Enhancement of Visual Electromagnetics (VEM):  
 Flux Lines and Conductive Material Solutions"*  
 Thesis Advisor: Professor David R. Voltmer
- n Hongyu Wang ..... Beijing, China  
*"A Translation and Rotation Independent Fingerprint  
 Identification Approach"*  
 Thesis Advisor: Professor Edward R. Doering
- Fangfang Xia ..... Beijing, China  
*"Two-Microphone Array for Hearing Aids with Beamformer"*  
 Thesis Advisor: Professor Keith E. Hoover
- Dong Zhao ..... Beijing, China  
*"Position Finding for Automated Lawn Mowing"*  
 Thesis Advisor: Professor Keith E. Hoover
- f Hui Zhao ..... Xinchang, Zhejiang, China  
*"Three-Input Fuzzy Controller for a Cart and Inverted Pendulum System"*  
 Thesis Advisor: Professor Frank E. Acker

#### ENGINEERING MANAGEMENT

- Omar S. Akhras ..... Bloomington, Indiana  
*"Software Process Improvements at Crane NSWC"*  
 Integrated Project Advisors: Professor Thomas W. Mason and Professor Robert Bunch

- Sami D. Alaruri ..... Lorning, New York  
*"Multi-spectral Camera System for Aerial Photography  
and Imagery Marketing"*  
Integrated Project Advisors: Professor Thomas W. Mason and Professor Robert Bunch
- f Donald Bex ..... Williams, Indiana  
*"Software Process Improvements at Crane NSWC"*  
Integrated Project Advisors: Professor Thomas W. Mason and Professor Robert Bunch
- Jeff Bivins ..... Springville, Indiana  
*"Speech Configuration Tool"*  
Integrated Project Advisors: Professor Terry Schumacher and Professor Robert Bunch
- Elijah Brown ..... Bloomington, Indiana  
*"Software Process Improvements at Crane NSWC"*  
Integrated Project Advisors: Professor Thomas W. Mason and Professor Robert Bunch
- Brian Case ..... Bloomington, Indiana  
*"Better Braking by Design"*  
Integrated Project Advisors: Professor Terry Schumacher and Professor Robert Bunch
- Chris Calvert ..... Bloomfield, Indiana  
*"Speech Configuration Tool"*  
Integrated Project Advisors: Professor Terry Schumacher and Professor Robert Bunch
- n Mark Canner ..... Greenwood, Indiana  
*"Multi-spectral Camera System for Aerial Photography  
and Imagery Marketing"*  
Integrated Project Advisors: Professor Thomas W. Mason and Professor Robert Bunch
- Rodney Dick ..... Terre Haute, Indiana  
*"CDRT, Inc."*  
Integrated Project Advisors: Professor Robert Bunch and Professor Terry Schumacher
- n Brian Dougherty ..... Bloomington, Indiana  
*"Chronology Electronics - A New Product for the  
Adjustment of Mechanical Clocks"*  
Integrated Project Advisors: Professor Thomas W. Mason and Professor Robert Bunch
- Rosanne Forgione ..... Indianapolis, Indiana  
*"Multi-spectral Camera System for Aerial Photography  
and Imagery Marketing"*  
Integrated Project Advisors: Professor Thomas W. Mason and Professor Robert Bunch
- f Tobias Frank ..... Tett nang, Germany  
*"Developing Rose-Hulman's Center for an Innovation Economy"*  
Integrated Project Advisors: Professor Thomas W. Mason and Professor Robert Bunch

- Steve Grusak ..... Fishers, Indiana  
*"Spatial Edge: Cost Effective Spatial Data"*  
Integrated Project Advisors: Professor Robert Bunch and Professor Terry Schumacher
- Robert Mark ..... Speedway, Indiana  
*"Automotive Glass Treatment"*  
Integrated Project Advisors: Professor Terry Schumacher and Professor Robert Bunch
- Leonard Overton ..... Brownsburg, Indiana  
*"Spatial Edge: Cost Effective Spatial Data"*  
Integrated Project Advisors: Professor Robert Bunch and Professor Terry Schumacher
- Alan Peacock ..... Indianapolis, Indiana  
*"Spatial Edge: Cost Effective Spatial Data"*  
Integrated Project Advisors: Professor Robert Bunch and Professor Terry Schumacher
- David Poole ..... Bloomington, Indiana  
*"Better Braking by Design"*  
Integrated Project Advisors: Professor Terry Schumacher and Professor Robert Bunch
- Bradley Powell ..... Greenwood, Indiana  
*"Speech Configuration Tool"*  
Integrated Project Advisors: Professor Terry Schumacher and Professor Robert Bunch
- Paul Rawlins ..... Greenwood, Indiana  
*"Automotive Glass Treatment"*  
Integrated Project Advisors: Professor Terry Schumacher and Professor Robert Bunch
- Paul Rupprecht ..... Terre Haute, Indiana  
*"CDRT, Inc."*  
Integrated Project Advisors: Professor Robert Bunch and Professor Terry Schumacher
- John Smith ..... Indianapolis, Indiana  
*"Automotive Glass Treatment"*  
Integrated Project Advisors: Professor Robert Bunch and Professor Terry Schumacher
- Jeffrey Torbenson ..... Bloomington, Indiana  
*"Speech Configuration Tool"*  
Integrated Project Advisors: Professor Robert Bunch and Professor Terry Schumacher
- Keven Tynes ..... Seattle, Washington  
*"Mobile Systems, LLC"*  
Integrated Project Advisors: Professor Thomas W. Mason and Professor Robert Bunch
- n Edward Yetter ..... Bloomington, Indiana  
*"Chronology Electronics - A New Product for the  
Adjustment of Mechanical Clocks"*  
Integrated Project Advisors: Professor Thomas W. Mason and Professor Robert Bunch

## ENVIRONMENTAL ENGINEERING

- n Ricardo Borrromeo ..... Bel-Air Village, Makati City, Philippines  
*"The Use of Pea Gravel Versus Synthetic Tower Packing in Vertical  
Flow Wetlands for the Secondary Treatment of Domestic Wastewater"*  
Thesis Advisor: Professor Martin J. Thomas
- n Zachary Hany ..... Springfield, Illinois  
*"The Use of Pea Gravel Versus Synthetic Tower Packing in Vertical  
Flow Wetlands for the Secondary Treatment of Domestic Wastewater"*  
Thesis Advisor: Professor Martin J. Thomas

## MECHANICAL ENGINEERING

- n Klaas Batereau ..... Westerstede, Germany  
*"Numerical Analysis of Hypersonic, Laminar Flat Plate  
Flow in Equilibrium Air"*  
Thesis Advisor: Professor Robert E. Dillon
- Christopher Doyle ..... Columbus, Indiana  
*"Diesel Engine Dynamic Systems Modeling: Extension of the Cummins  
Modular Engine Simulation Toolset to Support Diesel Engines"*  
Project Advisor: Professor C. Mallory North
- Charles Elgin ..... Bloomfield, Indiana  
*"Failure Analysis, Redesign, and Evaluation of a U.S. Navy  
Helicopter M240 Gun Flex Mount Assembly"*  
Thesis Advisor: Professor J. Darrell Gibson
- Brian Fentress ..... Marlborough, Connecticut  
*"Gas Turbine Ground Testing"*  
Thesis Advisor: Professor Robert E. Dillon
- n Stefanie Gutschmidt ..... Lehnin, Germany  
*"Vibration-based Structural Damage Detection to Plate-like Structures"*  
Thesis Advisor: Professor Phillip J. Cornwell
- a Michael Charles Moser ..... Indianapolis, Indiana  
*"Air Evolution and Solution in Liquids - An Investigation  
and Experimental Approach"*  
Thesis Advisor: Professor Leland K. Shirely
- Ranni Zhou ..... Qingdao, China  
*"Techniques for the Evaluation and Improvement of Laboratory Room Acoustics"*  
Thesis Advisor: Professor J. Darrell Gibson

- n Baoxing Zhu ..... Beijing, China  
*“Roller Bearing Guide Rail Product Design Optimization Using a Finite  
Element Analysis with Experimental Verification”*  
Thesis Advisor: Professor J. Darrell Gibson

PHYSICS AND APPLIED OPTICS

APPLIED OPTICS

- a Jingbo Cai ..... Kunming, China  
*“A Fiber Optic Sensor for Measuring the Vibration Frequency  
of a Reflective Surface”*  
Thesis Advisor: Professor Robert Bunch
- a Henning Groenzin ..... Bremen, Germany  
*“Resonant Fluorescence Quenching of CS<sub>2</sub> and Asphaltene Molecular  
Size and Structure Analysis by Fluorescence Anisotropy”*  
Thesis Advisor: Professor Sudipa M. Kirtley
- f Paul Jeatran ..... Indianapolis, Indiana  
*“Design and Assembly of Pulsed Ruby Laser ESPI with Contrast  
Fringe Enhancement Using Digital Image Processing”*  
Thesis Advisor: Professor Arthur B. Western

## Summer Completions

### CHEMICAL ENGINEERING

Melissa Ann Howell ..... Evansville, Indiana

Double Major in CHEMICAL ENGINEERING and CHEMISTRY  
Jared Arnold Tatum ..... Frankfort, Indiana

### CHEMISTRY

John Curtis Miller ..... Mexico, Indiana

### CIVIL ENGINEERING

Bryan Wayne Egli ..... West Terre Haute, Indiana

Samuel Wayne Johnson ..... Terre Haute, Indiana

### COMPUTER SCIENCE

Richard Antonio Davi ..... Seaside, California

Gregory Andrew Grunschel ..... Lombard, Illinois

### ELECTRICAL AND COMPUTER ENGINEERING

#### ELECTRICAL ENGINEERING

Christopher Michael Guffey ..... New Castle, Indiana

#### COMPUTER ENGINEERING

Adam Hugh Schondelmayer ..... East Liverpool, Ohio

Double Major in COMPUTER ENGINEERING and MATHEMATICS

Monideep Mukherjee ..... Terre Haute, Indiana

### MECHANICAL ENGINEERING

Chase Ryan Anderson ..... Noblesville, Indiana

Nathan Kyle Eagan ..... Valparaiso, Indiana

Brandon Robert Marcum ..... Henryville, Indiana

Stephen Michael McCoy ..... Lebanon, Indiana

Phillip Jason Munzer ..... Mooresville, Indiana

## November Completions

### CIVIL ENGINEERING

Richard David Arnold ..... Akron, Ohio

### COMPUTER SCIENCE

Two Degrees: Double Major in COMPUTER SCIENCE and MATHEMATICS  
and in CHEMISTRY

Curtis Edward Huttenhower ..... Johnstown, Pennsylvania

### ECONOMICS

Scott Ryan Condon ..... Muncie, Indiana

### ELECTRICAL AND COMPUTER ENGINEERING

#### ELECTRICAL ENGINEERING

Michael Andrew Krueger ..... Portage, Indiana

Jason Allen Rogers ..... Akron, Indiana

#### MATHEMATICS

Cristina Elaine Mahler ..... Brownsburg, Indiana

### MECHANICAL ENGINEERING

Brian David Byrd ..... Oxford, Indiana

Matthew Thomas Ervin ..... Indianapolis, Indiana

Derek Michael Hileman ..... Huntington Beach, California

Daniel Paul Julicher ..... Marietta, Georgia

Brian Lee Kincaid ..... Columbia City, Indiana

Michael James Ritter ..... Columbia, South Carolina

Scott Allen Snelling ..... Minneapolis, Minnesota

Ippei Tanaka ..... Laguna Hills, California



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