

Spring 5-25-1991

1991 Rose-Hulman Institute of Technology : One-Hundred and Thirteenth Commencement

Rose-Hulman

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Rose-Hulman, "1991 Rose-Hulman Institute of Technology : One-Hundred and Thirteenth Commencement" (1991). *Commencement Programs*. Book 8.

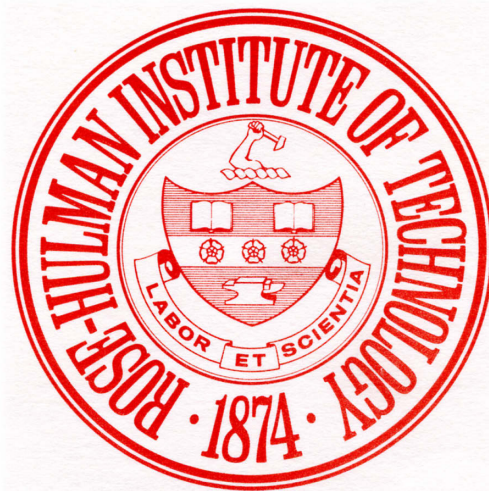
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**One Hundred and Thirteenth
Commencement**

of

**Rose-Hulman Institute of
Technology**



May 25, 1991

Commencement Program

Prelude.....	<i>Brass Quartet No. 1 (I&III)</i> by Maurice C. Whitney
Academic Procession	Jess R. Lucas, B.S., M.S., Ph.D. <i>Marshal</i>
Processional.....	<i>Prince of Denmark March</i> and <i>Trumpet Tune</i> by Henry Purcell
National Anthem	Michael A. Brier, Michael L. Fagg, John A. Huss, Terry D. Nebergall and P. Doug Tougaw
Invocation	Shane A. Cox Secretary, Student Government Association
Greeting from the Alumni.....	Thomas T. Dinkel, '72 President, Alumni Association
Response from the Senior Class.....	George J. Shumay President, Senior Class
Introduction of Commencement Speaker.....	Adam M. Griner Vice President, Student Government Association
Commencement Address	Samuel F. Hulbert, President, Rose-Hulman Institute of Technology
Interlude	<i>Canzona per Sonare No. 4</i> by Giovanni Gabrieli
Awarding of Heminway Medal	James R. Eifert, 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	Robert Steinhauser, B.S., M.S. <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>
Shelton Hannig (Doctor of Engineering) Introduced by Cecil T. Lobo, B.E., M.S., Ph.D.	
C. Oscar Schmidt, Jr. (Doctor of Engineering) Introduced by J. Darrell Gibson, B.S., M.S., Ph.D.	
Recognition of alumni who graduated fifty or more years ago	C. Chadd Taylor <i>President, Student Government Association</i>
Presentation of Fifty Year Commemorative Degrees.....	Samuel F. Hulbert
Conferring of Degrees.....	Samuel F. Hulbert
Dean's Outstanding Teacher Award	James R. Eifert
Board of Manager's Outstanding Scholar Award	B. Guille Cox, Jr. <i>Vice Chairman, Board of Managers</i>
President's Outstanding Service Award.....	Samuel F. Hulbert
School Song.....	Michael A. Brier, Michael L. Fagg, John A. Huss, Terry D. Nebergall and P. Doug Tougaw
Benediction.....	Edward J. Huonder, <i>President, Blue Key</i>
Recessional.....	<i>Nun Danket</i> by Bach/Fox
Postlude	<i>Grand Chorus in G Minor</i> by Alexander Guilmant

Organ Music by Alfred R. Schmidt, B.S., M.S. *Professor of Mathematics*
Brass Choir by Rose Students: Howard S. Fischer, Gregory A. Hevron, Royce A. Wilkinson,
Antonio M. Zamora, Debra Goecker, Director
(Allen Digital Organ through courtesy of Samuel Music of Effingham, Illinois)

Honorary Degrees

Doctor of Engineering

SHELTON M. HANNIG
Retired President and Founder of
Shelton Hannig, Inc.,
Construction Consultants, Inc. and Marsh, Inc.
Terre Haute, Indiana

Shelton Hannig is well-known for his involvement in the construction of many important Wabash Valley buildings and the renovation of several noted historical structures in Terre Haute.

In 1960, the University of Illinois graduate founded Shelton Hannig, Inc., which was the first company of its kind locally to offer a full range of services provided by a staff of construction professionals, engineers and architects. He created Marsh, Inc., eight years later and in 1975 formed Construction Consultants, Inc.

Hannig has contributed to the design or construction of the Vigo County Public Library and the IBM and Valley Bank buildings in downtown Terre Haute. In addition, he was involved in the construction of numerous area manufacturing, corporate and educational facilities as well as several local churches.

An Indiana registered architect, his talents were vital to the restoration of many local landmarks including the Paul Dresser Home, the Vigo County Historical Society building, Allen Chapel and the Markle House.

Hannig has also been actively involved in the growth of Rose-Hulman through his work for the past 12 years as a member of the Rose-Hulman Board of Managers. His interest in the development of our students is illustrated by his sponsorship of an annual award and scholarship that are presented to an outstanding senior civil engineering student and to a Wabash Valley student interested in pursuing an engineering career.

C. OSCAR SCHMIDT, JR.
President and Chairman of the Board
Cincinnati Butchers' Supply Co.
Cincinnati, Ohio

C. Oscar Schmidt, Jr. is a successful engineer and business executive who heads a company that is the leading manufacturer of machinery for the meat processing industry. A graduate of the University of Cincinnati and Harvard University with degrees in business and engineering, Schmidt holds 45 patents for his product developments.

Under his leadership, the parent company, Cincinnati Butchers' Supply, has grown to include six subsidiary meat and food equipment manufacturing companies in the United States and Mexico.

The company, which was founded in 1886 by Schmidt's grandfather, is known for its innovation and as a contributor to a host of institutions and charities. In 1953, Schmidt endowed the Oscar C. Schmidt Memorial Lecture at Rose-Hulman in honor of his father. His support makes it possible for a prominent business and industrial leader to visit Rose-Hulman annually to provide students, faculty and staff with insight into the free enterprise system.

Schmidt has provided leadership to the entire food processing industry by serving as a director of the American Association of Industrial Management, the Meat Machinery Manufacturing Institute and the Meat Industry and Supply Equipment Association.

Fifty-Year Commemorative Degrees

For more than a century, 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 all alumni by presenting commemorative degrees to those men who have been alumni for 50 years or more. The diplomas they receive today honor their dedication of time and talent to their careers, society and Rose-Hulman.

Ben G. Elliott 1910, ME	Madison, Wisconsin
Floyd W. Benson 1923, ME	Green Valley, Arizona
Russell W. Staggs 1927, EE	Naples, Florida
George J. Mason 1928, CE.....	Bloomfield
Carl E. Ehrenhardt 1930, EE	Terre Haute
Charles A. Lotze 1930, EE	Indianapolis
Harry J. Loving 1931, CH.....	Fostoria, Ohio
Kenneth Mason 1931, CH.....	Queensbury, New York
Frederick J. Bogardus 1932, ME.....	Pensacola, Florida
Myron J. Clark 1932, ME	Indianapolis
George T. Hauer 1932, ME.....	Munster
John V. Niemi 1932, EE	Clinton
Chester C. Stock 1932, CH.....	Pepper Pike, Ohio
John E. Tonetti 1932, ME	Rosedale
Robert A. Wilson 1932, CE`	Albuquerque, New Mexico
Paul R. Dierdorf 1933, CH.....	Indianapolis
Donald H. Greenfield 1933, CE.....	Los Angeles, California
Dunlap J. McNair 1933, CH.....	Muncie
William Paton 1933, ME	Terre Haute
Col. Edwin J. Withers 1933, EE	Rockville, Maryland
Herbert A. McAninch 1934, ME	Auburn
A. J. Newsom 1934, ARCH.....	Indianapolis
John A. Ritter 1934, ME	Evansville
George F. Stark 1934, ME	Kansas City, Missouri
John A. Wilson 1934, ME	Merrillville
Albert L. Bard 1935, CE	Kansas City, Missouri
Claude C. Dierdorf 1935, ME.....	Speedway
Arthur W. Hess 1935, CE	Columbus, Ohio
Russell R. Kerr 1935, ARCH	Indianapolis
Jack F. Roberts 1936, EE	Zionsville
Donald E. McCullough 1937, EE.....	Riley
Charles F. Rich 1937, CH.....	Indianapolis
Carl R. Wischmeyer 1937, EE	Fair Haven, New Jersey
Richard E. Dennis 1938, ME	Terre Haute
Robert W. Dispennett 1938, CH.....	Chillicothe, Ohio
Robert N. Ladson 1939, CH.....	Tucson, Arizona
Roy E. Warren 1939, EE.....	Indianapolis
Richard A. Mullins 1940, CH.....	Princeton
Clarence A. Wilkinson 1940, EE	Terre Haute
Maj Gen John G. Appel 1941, CH	Churchville, Maryland
Paul E. France 1941, CH.....	Medford, Massachusetts
James A. Lohr 1941, ME.....	Martinsville
Ross S. Pyle 1941, ME.....	Indianapolis
William R. Ringo 1941, ME	Dayton, Ohio

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>	R	Technical Translators Program—Russian
***	<i>Summa Cum Laude</i>	A	U.S. Army Commission
††	Two Degrees	AF	U.S. Air Force Commission
		C	Consulting Engineering Program
		M	Management Studies Certificate
			Master Thesis indicated in <i>Italics</i>

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 black 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 black tassel.

Rose-Hulman Institute of Technology

Candidates for Degrees

Bachelor of Science

February 21, 1991

CHEMISTRY

Jeffrey David Bruce Benton, Arkansas

CIVIL ENGINEERING

Kevin Lee KnoepfelParis, Illinois

COMPUTER SCIENCE

G** Thomas Leon BogleDayton, Minnesota

COMPUTER SCIENCE AND MATHEMATICS

G*** Robert Gregory BurgerLaPorte

ELECTRICAL ENGINEERING

William Proncy Acker IVAnniston, Alabama
** Mark Jeffrey BealsKokomo
C Brian Douglas CoateKokomo
** Allen Lee HallLincoln, Nebraska
* Alan William HardenburgWharton, New Jersey
* Joel Edward HarrisYorktown, Virginia
John Martin MeisterCheyenne, Wyoming
* Geoffrey Ryan PaynePlymouth
Ricky Joseph WatsonMadison

MATHEMATICS

** Phillip W. BanetNew Albany

May 25, 1991

APPLIED OPTICS

G*** David Martin BerfangerIndianapolis
††* Steven Michael BlairCrown Point
* Lawrence Howard BoxlerFranklin
Donald Ray BrewerReeds Spring, Missouri
Eric Brian BubeGeorgetown
* Alexander Matthew CrespiDarien, Illinois
Andrew Harrison FaggBoonville
Benjamin John HickmanIndianapolis
Brent Aaron LyonsKokomo
Paul Francis MeyersBrookston
Bartley David MillikanTangier
Martin Noel Moss, Jr.Littlerock, California
* Robert John MuenzenbergerSussex, Wisconsin
Jay Alan OverbeckLiberty
Brant James PotterDanville
Eric Anthony RothHobart
Matthew Irvine SavageTerre Haute

** Matthew Holmes Smith	Huntington
David Robert Strickland	Somerville
James David Walls	Terre Haute

CHEMICAL ENGINEERING

A* Clark Elbert Barthel	Elgin, Illinois
* Todd Ammon Brown	Wausau, Wisconsin
A Luke David Dickerson	Greenfield
* Howard Stevens Fischer	Fort Wayne
G Scott Michael Goedde	Haubstadt
Adam MacArthur Griner	New Castle
Jon Eric Guenin	La Fontaine
Daniel Brian Hall	Park Hills, Kentucky
Bryan Keith Haney	Marion
A Benjamin Lloyd Hastings	Boonville
Gregory Allen Hevron	Holland
G** Paul Jefferson Hinton	Seymour
Daniel Joseph Keown	Brownsburg
John Costain Knight III	Kalamazoo, Michigan
** Christopher Allen Lueking	Sullivan
Robert Joseph Mark, Jr.	Indianapolis
Darrell Eugene Marsh	Pittsboro
William Edwin Mills	Buckskin
Lonnie Franklin Moon	Fort Smith, Arkansas
Neal Eugene Rumsey	Orland
R Anthony Joseph Sachse	Anderson
** Mark Jerry Schuld	Bernardsville, New Jersey
A Reece Allen Scott	Rosedale
James Duane Sutton	Winamac
* Matthew Wayne VanHoosier	Chandler
G Steven Alan Vinson	Michigan City
Michael Louis Wetherell	Pana, Illinois
Steven Charles Wilhelmy	North Saint Paul, Minnesota
** Joseph Eugene Yenger	Stratford, Iowa

CHEMICAL ENGINEERING AND CHEMISTRY

A* Keith Evan Miller	Louisville, Kentucky
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CHEMISTRY

A* Charles Sherman Elmore	Thibodaux, Louisiana
Kent Lee McCorkle	Windfall
** Royce Allen Wilkinson	New Castle

CIVIL ENGINEERING

A Rodney Duane Adams	Lafayette
Joseph Alan Burkhart	Petersburg
Thomas Arthur Carrow	Laurel
David Charles Cleveland	Indianapolis
Timothy Paul Conarroe	Centerville
C Michael Thomas Crist	Granger
C* Nicholas Todd Gill	McArthur, Ohio
C Jerald Edgar Harris	Miamisburg, Ohio
Paul Richard Kimmerle	Jacksonville, North Carolina
** David Finley Maxwell	Granite City, Illinois
A James William Neal	Terre Haute
Steven Michael Niemann	Belleville, Illinois
Derek Russell Sharp	Townsend, Massachusetts

C	Richard J. Wilhelm	Oldenburg
	Luther Earl Wilkinson III	Terre Haute
	Jason Wendel Yeager	Tennyson

COMPUTER ENGINEERING

††*	Steven Michael Blair	Crown Point
	Anthony Charles Campiti	Plymouth
	Lyle David Carlson	Rochester Hills, Michigan
	Michael Wayne Moser	Onancock, Virginia
***	Eric William Paul	Mount Vernon
***	Mark Lee Skarpness	Milnor, North Dakota

COMPUTER SCIENCE

	Greg Alan Aimone	Riverdale, Illinois
	Michael Allan Brier	Liberty
	Steven Dewayne Brown	Fairmount
	Jerrod Troy Carter	Fort Wayne
A*	David Michael Fabritius	Olympia, Washington
G*	Cary Neil Gerber	Bluffton
	Thomas O'Neil McCormick	McConnelsville, Ohio
	Robert Christopher Pappas	Louisville, Kentucky
	Brian Robert Ruff	Walkerton
	Joseph Lindsey Sharpe III	Danville, Kentucky
*	Charles Richard Stroud	Orleans
**	Antonio Martin Zamora	Winter Haven, Florida

ELECTRICAL ENGINEERING

*	Paul Arturo Acevedo	Chesterton
	Michael Arthur Bergenthal	Greer, South Carolina
*	David Wayne Boroughs	Springdale, Arkansas
A	Kurt Frederick Breischaft	Kalamazoo, Michigan
*	Todd Elliott Butler	Evansville
	Francis Edward Camden	Franklin
	Carl Frederick Cole	Wisconsin Rapids, Wisconsin
	Daniel Jay Crisman	Rushville
	Philippe Marc deFaye	Seattle, Washington
	David Michael Devore	Coon Rapids, Minnesota
AF	Robert Allen DeYong	Peachtree City, Georgia
*	Kirk Ronald Eisert	Lanesville
**	Carl Douglas George	Wichita, Kansas
*	Kevin Arthur Grabowski	Garden City, Michigan
**	Garth Dean Grimm	West Bend, Iowa
*	Bryan Lynn Hahn	Goshen
**	Dan Eric Hasenwinkel	East Moline, Illinois
G	William Stuart Heinz	New Albany
G*	Thomas Herbert Henke	Rochester, Minnesota
	Robert Carter Hochstetler	Terre Haute
G*	Craig Michael Hoffart	Port Washington, Wisconsin
	Robert Steven Hoskins	Middeltown, Ohio
R	Scott Lewis House	Humble, Texas
*	Edward James Huonder	Montrose, Colorado
	John Andrew Huss	Cincinnati, Ohio
**	Daniel Brian Jambor	Saukville, Wisconsin
	John Gregory Jones	Elyria, Ohio
	Kevin John Koesters	Celina, Ohio
AF*	Brian Alan Lakstins	Indianapolis
A	Todd William Latterell	St. Cloud, Minnesota

	Claudio Martinez Marimon	Colorado Springs, Colorado
*	Joseph Ernest Matthews IV	Indianapolis
AF	Brian Joseph Miller	Wapakoneta, Ohio
	Christopher John Miller	Evansville
	Howard Edward Moore	Middletown
A*	Jeffrey Scott Morgan	Columbus, Ohio
AF	Matthew James Myers	Fairborn, Ohio
*	Terry Daniel Nebergall	Midland, Michigan
	Kent Alan Neier	Coatesville
	Anthony Carson New	Middletown
G**	Vincent Frederick Oswalt	Mitchell
	Jeffrey Scott Pahl	Arcadia, Wisconsin
	Kevin Scott Patterson	New Albany
	Douglas John Rosenberger	Brookville
***	John Edward Schmall	St. Paul, Minnesota
G**	Ronald S. Scott, Jr.	Dyer
R*	John William Stephens	Winslow
	Ahmed Syed	Karachi, Pakistan
*	Christian Chadd Taylor	Shoals
	Kevin James Token	St. Charles, Missouri
	Charles Robert Tommey	Parkersburg, West Virginia
R***	Paul Douglas Tougaw	St. Francisville, Illinois
	Steven Joseph VanZale	Medina, Ohio
	Lynn Vornheder	Aurora
*	James Morris Winkley II	Indianapolis
	Jeffrey Michael Woods	Coggon, Iowa
	Kevin Wayne Wyatt	Indianapolis

MATHEMATICS

**	Jeffrey Scott Dierckman	Sunman
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MECHANICAL ENGINEERING

	Clinton Jay Adams	Amenia, North Dakota
	Jason Dean Ahrens	Huntingburg
	Kurtis John Anliker	Chalmers
	Christopher David Arnold	Greencastle
	Robert Stanley Aronen	Virginia, Minnesota
	Marc Edward Bastian	Elwood
	William Mark Bates	Brooklyn, Ohio
	James Carl Blasdel	Georgetown
	Paul Joseph Boenitz	Noblesville
	Cevin Sean Bryant	Lorain, Ohio
*	Jeffrey Hammer Burns	New Castle
	Mark Stephen Christman	Charlestown
	Alejandro Francisco Correa	Huntingburg
*	Ralph LeRoy Coryea III	Spencer
	Shane Allen Cox	Farmland
*	John R. Cunningham IV	McDonald, Ohio
	Steven Win Dinsmore	Covington
	James Lawrence Elkin	Louisville, Kentucky
*	Michael Luiz Fagg	Madison, Ohio
**	Brett William Fathauer	Oakwood, Illinois
	Brian Charles Frazier	Elwood
	Michael Douglas Garau	Rushville
	Robert Eugene Getts	Fort Wayne
*	Neil Freeman Glaze	Carmel
	James Frederick Goodridge II	Evansville

	Gregory Matthew Hall	Morse Bluff, Nebraska
	Scott Allen Hiller	Crawfordsville
*	Jeffrey David Hulbert	Terre Haute
	Richard Todd Humphries	St. John
	Steven Lynn Jackson	Lawrenceburg
*	Robbe Max Johnson	Centerpoint
	Chris Ryan Kabrick	Oakland City
**	Matthew Jude Kintzele	Michigan City
	Eric Ronald Kissell	Alexandria, Ohio
	Michael Keith Kittle	Brazil
**	Kevin Lee Kluemper	Ferdinand
A*	Carl Walter Koehlinger	Willshire, Ohio
	Steven Harold Kottman	Cincinnati, Ohio
	John Michael Lacheta	Chicago Heights, Illinois
A	David Peter Leif	Greendale, Wisconsin
	Robert LeRoy Lind	Minnetonka, Minnesota
***	David Patrick Lockard	Akron, Ohio
	Todd Kevin Logan	Cincinnati, Ohio
	Duane Edward Long	Elnora
	Kevin Thomas Love	Cincinnati, Ohio
	Royce Frederick Low	Westport
G*	William Robert Lund	Miami, Florida
	Samuel Hingwing Mark	Indianapolis
	Ross David Maue	Buffalo, Minnesota
	William Leo McQuen	Gary
A	Trent David Meyers	Brazil
*	John Charles Minor	Cincinnati, Ohio
***	Trevor Michael Moeller	Batesville
**	John David Moore	Fountain City
***	Marc Richard Morris	Upper Sandusky, Ohio
	Jeffrey Charles Mullins	Hartford City
*	Christopher John Nordmeyer	Terre Haute
	Britt James Petty	Terre Haute
	Joel Richard Plaas	Lee's Summit, Missouri
	Daniel Joseph Pund	Ferdinand
	Douglas James Ream	Clay City
A*	Jeremy Andrew Rife	Dunkirk
AF*	David Judson Ridders	Ripon, Wisconsin
***	Paul David Rudolph	Logansport
**	David R. Sawyers, Jr.	Brownstown
**	Charles Edward Schaub	Marshall
	Robert Andrew Shea	Indianapolis
	Scott McIntyre Simmonds	Greensburg
	Craig Steven Stucky	White Bear Lake, Minnesota
M***	Steven Mitchell Taylor	Chesterton
	Eric Joseph Tucker	Floyds Knobs
	Jeffrey Carl Wagner	Washington
AF	Brian S. Walling	Milwaukee, Wisconsin
*	Brett Thomas Weinzapfel	Evansville
	Neil John Wessler	Greensburg
	Rodney Joe West	Liberty
	David Allen White	Eldorado, Ohio
	Norbert Gregory Yates	Farmersburg

MECHANICAL ENGINEERING AND MATHEMATICS

**	Calvin Cheuk Ming Lui	Hong Kong
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PHYSICS

- R*** Jeffrey John AdamsKennebunk, Maine
- Wayne Joseph BornioSlidell, Louisiana
- R* Thomas Russel GironMason, Michigan
- * Donald Robert GreiveldingerPort Washington, Wisconsin
- A Matthew Hamish LentznerLivermore, California
- Alberto Brandt Lopez IIIndianapolis
- G Lance Stephen RegerAnderson
- R Scott William SprehnBangor, Wisconsin
- * Arthur Jerome Usher IVChicago, Illinois

Master of Science

May 25, 1991

APPLIED OPTICS

- Sami D. Al-AruriIndianapolis
 *"Studies of Wavelength-Dependent Loss Effects
 in Optical Fiber Components and Sensors"*
 Thesis Advisor: Professor Robert M. Bunch
- Glen BrownEvansville
 "Holographic Interferometric Study of the Human Cardiac System"
 Thesis Advisor: Professor Arthur B. Western
- Michael R.L. CoonCopperas Cove, Texas
 "Y-bar Diagram for Axial Gradients and Design of the Nonlens"
 Thesis Advisor: Professor Richard P. Ditteon
- Hung-yu HsiehTawain, R.O. China
 "A Lens for Microlithography"
 Thesis Advisor: Professor Jerome F. Wagner
- Erik Ivar OldekopHeidenheim, F.R. Germany
 "Time-Integrating Self-Pumped Phase-Conjugator"
 Thesis Advisor: Professor Azad Siahmakoun
- Guanglu YangShanghai, P.R. China
 "Phase-Congjugate Shear-Interferometer"
 Thesis Advisor: Professor Azad Siahmakoun

CIVIL ENGINEERING

- Khalil Ibrahim Hussein DughaisAl-Jamil, Kuwait
 *"Construction Engineering and Management
 of a Construction Project"*

ELECTRICAL ENGINEERING

- Robyn E. BauerBedford
 "Artificial Neural Networks Applied to Signal Classification"
 Thesis Advisor: Professor Ruth I. Waite
- Serge ElloAbidjon, Ivory Coast
 "Development of A Digital Speech Processing Tool Box"
 Thesis Advisor: Professor Keith E. Hoover
- Deng FangShanghai, P.R. China
 "Evaluation of Neural Networks in Character Recognition"
 Thesis Advisor: Professor Keith E. Hoover
- Ruo-Ju GuoShanghai, P.R. China
 *"An Improved Method for Adaptive Filtering and Real-Time
 Implementation of Noise Cancellation Using the TMS32010"*
 Thesis Advisor: Professor Keith E. Hoover
- Jingping WangBeijing, P.R. China
 "Simulation of Power System Transient Stability"
 Thesis Advisor: Professor Clifford H. Grigg

MECHANICAL ENGINEERING

- Larry J. BrackneyColumbus
 "Simulation and Control of a Double-Inverted Pendulum System"
 Thesis Advisor: Professor David J. Purdy

- Aye NaingGyogon, Burma
*"The Development of Improved Methods for Determining
Natural Frequencies of Non-Uniform Beams"*
Thesis Advisor: Professor J. Darrell Gibson
- Myles M. NakamuraHonolulu, Hawaii
*"Evaluation of a Non-Destructive Technique:
Testing Steel Blocks for Sub-Surface Defects Using
Heat Transfer and the Finite Element Method"*
Thesis Advisor: Professor Daryl Logan
- Manfred NewrlyMichelstadt, West Germany
"Modelling of Vascular Graft Hemodynamics"
Thesis Advisor: Professor Lee Waite
- Adam Scott RemalyElkhart
"Wind Tunnel Wall Effects"
Thesis Advisor: Professor A.T. Roper
- Axel Justus RoennekeFreiburg, West Germany
*"Trajectory Control for a Low-Lift Maneuverable Reentry Vehicle
Using State Feedback"*
Thesis Advisor: Professor Phillip J. Cornwell
- Peter Leo SchmidtLouisville, Kentucky
*"Design and Evaluation of Modifications for
Ram Air Turbine Wind Tunnel Noise Reduction"*
Thesis Advisor: Professor J. Darrell Gibson
- Steven Anthony WhitakerAnderson
*"The Development of a High Frequency Exciter
for the Evaluation of the Levinson Beam Theory"*
Thesis Advisor: Professor J. Darrell Gibson
- Da YaoWuhan, P.R. China
*"Measurement of Lactate Using an Enzyme Coupled
Catheter Tip Electrode"*
Thesis Advisor: Professor Lee Waite

Bachelor of Science

Summer Completion

APPLIED OPTICS

Christopher David ColwellFort Wayne

CHEMICAL ENGINEERING

Steven Jay SustenLilburn, Georgia

CIVIL ENGINEERING

Glen Edward MorrowBloomington

ELECTRICAL ENGINEERING

Biao LouieHong Kong

Russell Glen SermersheimJasper

Wilfred Shun Chi WongHong Kong

MECHANICAL ENGINEERING

Eric Arlen ArmstrongMooresville

Carlos CarrilloMonterrey, Mexico

Roshan GriggTerre Haute

Michael Christopher JonesLoogootee

John Benjamin MazeWest Harrison

Mark Allen ReedFulton

PHYSICS

A Christopher John BarronGoshen, New York

John Elliot ThompsonLexington, Kentucky

November Completion

CHEMICAL ENGINEERING

Ronald Brian TimmFillmore

CIVIL ENGINEERING

A David Michael GriffieNiles, Michigan

COMPUTER SCIENCE

Ronald Matthew AdamsIndianapolis

Michael Jon AllardElk Grove Village, Illinois

ELECTRICAL ENGINEERING

Michael Edward EckertHuntingburg

Kenneth Gabriel GodwinMundelein, Illinois

Alan Andrew MancheKnightstown

A Matthew Jay MurphyTroy, Ohio

MATHEMATICS

††AF James Craig WestmorelandEl Paso, Texas

MECHANICAL ENGINEERING

Richard David GambleMiami Springs, Illinois
Christopher King GotwaldWashington
Christopher John LankerCanton, Michigan
Timothy Frederick MarlingIndianapolis
Robert Edwin ScharfMillstadt, Illinois
George James ShumayNorth Olmsted, Ohio
James Arthur Thorp III Uniontown, Ohio
††AF James Craig WestmorelandEl Paso, Texas
Robert Lee WilliamsTerre Haute

ROSE-HULMAN INSTITUTE OF TECHNOLOGY

BOARD OF MANAGERS

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B. Guille Cox, Jr., Vice Chairman	Terre Haute
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Thomas W. Binford	Indianapolis
Walter S. Blackburn	Indianapolis
Harold D. Brown, Jr.	Duncanville, Texas
Wendell E. Carroll (Emeritus)	Stamford, Connecticut
Carl E. Ehrenhardt (Emeritus)	Terre Haute
Vern W. Fellows	Terre Haute
Howard P. Freers	Bloomfield Hills, Michigan
Frederick W. Garry	La Mesa, California
Anton H. George	Indianapolis
Mari H. George	Terre Haute
Waldo E. George	Plainfield
Gregory L. Gibson	Terre Haute
Shelton M. Hannig	Terre Haute
Samuel W. Hart	Columbus
Samuel F. Hulbert	Terre Haute
Mrs. Anton Hulman, Jr.	Terre Haute
Ernest G. Hurst (Emeritus)	Hillsboro, Illinois
Howard H. Irvin (Emeritus)	Chicago, Illinois
R. T. Kelley (Emeritus)	Santa Barbara, California
Andre B. Lacy	Indianapolis
William T. Maddock (Emeritus)	Findlay, Ohio
Niles L. Noblitt	Mountain Lakes, New Jersey
J. Thomas Norman	Akron, Ohio
Michael W. Percopo	New York, New York
Jack Ragle	Terre Haute
Thomas L. Reese	Indianapolis
James E. Rogers, Jr.	Plainfield
Robert L. Royer	Louisville, Kentucky
William D. Schindel	Terre Haute
Robert Shattuck (Emeritus)	Vienna, West Virginia
Abe Silverstein (Emeritus)	Cape Coral, Florida
Donald E. Smith	Terre Haute
P. Carter Smith	Marietta, Georgia
Delbert C. Staley	New York, New York
Michael D. Thomas	Grosse Pointe Farms, Michigan
Robert L. Voges	Ormond Beach, Florida
Alexander J. Vogl (Emeritus)	Palatine, Illinois
Clyde F. Willian	Winnetka, Illinois
David C. Mitchell (Alumni Representative)	Madeira, Ohio
Harmon L. Shaw (Alumni Representative)	Crosby, Texas