

Spring 5-23-1992

1992 Rose-Hulman Institute of Technology : One-Hundred and Fourteenth Commencement

Rose-Hulman

Rose-Hulman Institute of Technology, weir1@rose-hulman.edu

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**One Hundred and Fourteenth
Commencement
of
Rose-Hulman Institute of
Technology**



May 23, 1992

Commencement Program

Prelude	<i>Toccata in C</i> by Johann Pachelbel
Academic Procession	Jess R. Lucas, B.S., M.S., Ph.D. <i>Marshal</i>
Processional	<i>Prince of Denmark March and Trumpet Tune</i> by Henry Purcell
National Anthem	C. Granvil Kyker Associate Professor of Physics
Invocation	Steven J. Lawrence President, Blue Key
Greeting from the Alumni	James H. Sherman, '55 President, Alumni Association
Response from the Senior Class	Thomas E. Rude President, Senior Class
Introduction of Commencement Speaker	Michael R. Keeney President, Student Government Association
Commencement Address	P. Carter Smith President, Mead Packaging
Interlude	<i>Dialog</i> by Russell Schulz-Widmar
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>
William A. Cook (Doctor of Engineering) Introduced by Arthur B. Western, B.S., M.S., Ph.D. Richard C. Elstner, (Doctor of Engineering) Introduced by Robert J. Houghtalen, B.S., M.S., Ph.D. David M. Reece (Doctor of Engineering) Introduced by Buck F. Brown, S.B., M.S., Ph.D. P. Carter Smith (Doctor of Engineering) Introduced by Robert Steinhauser, B.S., M.S.	
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	John V. Titsworth <i>Chairman, Board of Managers</i>
President's Outstanding Service Award	Samuel F. Hulbert
School Song	C. Granvil Kyker
Benediction	Gregory W. Hall <i>President, Tau Beta Pi</i>
Recessional	<i>Nun Danket</i> by Bach/Fox
Postlude	<i>Prelude from First Organ Sonata</i> by R. L. Becker

Organ Music by Alfred R. Schmidt, B.S., M.S. *Professor of Mathematics*

(Allen Digital Organ through courtesy of Samuel Music of Effingham, Illinois)

Honorary Degrees

Doctor of Engineering

WILLIAM A. COOK
President and Chief Executive Officer
Cook Group, Inc.
Bloomington, Indiana

Businessman and philanthropist, William A. Cook is one of the nation's most successful entrepreneurs. Through his leadership, the Cook Group has become one of the world's leading medical device manufacturers with facilities in the United States, Australia, Denmark and Canada. Other companies he created are involved in property and casualty insurance, real estate, investment, travel and aircraft service and leasing.

His community service includes the restoration of historic places, philanthropy to cancer and cardiovascular research, and promoting faculty-oriented healthful living and constructive youth programs.

Cook has been honored by state and local governments, civic organizations and educational institutions. He is a graduate of Northwestern University where he earned a bachelor's degree in biology.

RICHARD C. ELSTNER
President
Elstner Pacific, Ltd.
Honolulu, Hawaii

A 1947 civil engineering graduate of Rose-Hulman Institute of Technology, Richard C. Elstner has distinguished himself in the engineering profession through his research and work regarding structural concrete and the performance of glass in buildings.

A large part of his career involved the study of shear in reinforced and prestressed concrete flexural members, and in flat slabs and plates. Elstner helped formulate theories on shear failures and the creation of the American Concrete Institute (ACI) shear design procedures. Forty years ago, he helped develop courses that presented the fundamentals for three subjects which at that time were revolutionary ideas. The subjects were ultimate strength, prestressed concrete and quality control.

Elstner is an honorary member of the American Society of Civil Engineers. He has served on the ACI board of directors and received the ACI Wason Medal for Noteworthy Research.

DAVID M. REECE
Executive Director
Crane Division,
Naval Surface Warfare Center
Crane, Indiana

David M. Reece is the top civilian manager at one of the Navy's premier engineering centers. The Center employs over 4,000 persons including 1,100 engineers and scientists. He received a bachelor of science degree in electrical engineering in 1962 from Rose-Hulman Institute of Technology.

His engineering career with the Navy has primarily involved work in electronics design of circuit card and controls systems. He has special interest in electronics packaging and created the Navy's Standard Electronic Module Program. The module program resulted in commonality of hundreds of Naval systems and the savings of millions of dollars.

Reece has received numerous honors from the Navy including the Crane Engineer of the Year Award, a Naval award for environmental leadership and the Superior Civilian Service Award.

P. CARTER SMITH
President
Mead Packaging
Atlanta, Georgia

As president of Mead Packaging, P. Carter Smith heads a leading international supplier of paperboard packaging systems to the beverage, food and convenience products industries. Mead Packaging is a division of The Mead Corporation. The packaging company has five U.S. manufacturing locations and a presence in 75 countries.

Smith received the bachelor's degree in mechanical engineering from Rose-Hulman Institute of Technology in 1956. He is also a graduate of the Harvard University Business School's Advanced Management Program.

As president of Mead Packaging, Smith is also a director or president of Mead operations in seven foreign countries. His engineering career started with Mead Corporation in 1956. Smith was named to his current post in 1981.

He has also served in various leadership roles as a member of the Rose-Hulman Board of Managers, the governing body of the college.

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 the Class of 1942 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.

Robert L. Anderson, EE	Hammond
Frederick C. Bradshaw, EE	Elida, Ohio
John J. Brehany, ME	Laguna Hills, California
James R. Brown, CE	Scottsdale, Arizona
Martin J. Cavanaugh, CH	Greenwood
Ray K. Chalfant, CE	Atlanta, Georgia
Elmer D. Cooper, EE	Rolling Hills, California
Winston H. Cundiff, CH	Orinda, California
David M. Demaree, ME	Phoenix, Arizona
Thomas E. Douds, Jr., CH	
Marion B. Foley, CH	Decatur, Illinois
Harold B. Frist, ME	Indianapolis
Eugene E. Hess, ME	Bloomfield Hills, Michigan
William M. Hochstetler, CH	Monroe, Louisiana
Arthur Johnson, CE	Springville, California
Irvin H. Keeler, ME	Plainfield
Jack K. Kennedy, ME	Beverly, Massachusetts
George H. Kesler, CH	West Terre Haute
Robert S. King, ME	Green Valley, Arizona
William G. Leedy, CH	Wilmington, Delaware
Donald D. Logsdon, ME	Loudon, Tennessee
Hulit L. Madinger, CH	Dallas, Texas
Willys W. McCloud, EE	Chino, California
Gene F. McConnell, ME	Richmond, Virginia
Charles S. Meurer, CE	Santa Clarita, California
Earl F. Michaels, EE	Riverside, Illinois
Arthur D. Owens, ME	Terre Haute
Robert D. Parr, X	Elmhurst, Illinois
Clifford E. Roberts, EE	Lake Forest, Illinois
Robert W. Rockwood, CE	Bakersfield, California
Benjamin K. Sollars, ME	Indianapolis
John H. Taylor, ME	Orchard Park, New York
John H. Vanderveer, ME	Syosset, New York
Arthur M. Wood, EE	Kokomo
Dwaine L. Woolsey, EE	Indianapolis
William E. Worley, ME	Mishawaka

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 27, 1992

CIVIL ENGINEERING

* Kent Alan DelphLinton

ELECTRICAL ENGINEERING

* Raymond Todd AndersonLibertyville, Illinois

Stephen Lawrence JohnstonHarbor Beach, Michigan

** Erik Michael LindstromAppleton, Wisconsin

MECHANICAL ENGINEERING

Grady Michael BisseyCalhoun, Illinois

Craig Kelvin CarderClay City

Kevin Ward CoryeaSpencer

Charles Elliott DeweyColumbus

Gregory Allen StarkeyNew Goshen

James Arthur Thorp IIIUniontown, Ohio

Thomas Christopher WestIrving, Texas

* Edward J. Witt, Jr.Jasonville

John Swindell Wright IIIOwensboro, Kentucky

May 23, 1992

APPLIED OPTICS

Steve Glenn AllisonGriffith

** Jeffrey Brian CrossParker City

Brian Douglas HaanMetairie, Louisiana

** Matthew Jason KlotzTerre Haute

James Edward Lyst, Jr.Anderson

* William Stephen MeyersOsgood

††*** Matthew Eli MorinSpencer

A Marc Anthony SpinuzziDenton, Texas

* Terrence Wayne ToweRogers, Arkansas

††* Eric Ray WandelGrandview

M Bryan Scot WareColumbus, Georgia

CHEMICAL ENGINEERING

* Steven Frederick AndresEvansville

Brian Scott BabillisMt. Vernon

** Eric Jean CunninghamNew Albany

Dustin Scott DuBoisAkron

C Stephen Patrick GardnerTerre Haute

Mark Joseph GlaserHaubstadt

Thomas Charles GorsichHighland

Douglas Robert GuinnBeavercreek, Ohio

** Jeffrey Allen HansenOssian

A* Jason Richard KarlenLouisville, Kentucky

* John David KellamNew Castle

* David Joseph KoehlFort Wayne

**	Daniel Anthony Krieg.....	Terre Haute
G**	Steven Jason Lawrence	Springfield, Illinois
G*	Ralph Edward Leiman II	New Richmond, Ohio
	Brian Charles Miller	Ottoville, Ohio
*	Christian Aaron Mobley	Converse
**	Dorian Basil Pacheco	East Chicago
G	Shane Allen Pickett	Fort Wayne
**	Phillip Duane Poor	New Castle
A	Gregory James Poska	Carlisle, Pennsylvania
	Jerrod Curtis Potee	Terre Haute
*	Ravi C. Puttaiah	Bangalore, India
	Christopher Glenn Reed	Bremen
	Clark Daniel Rodeffer	Dallas City, Illinois
	Jeffrey Acel Seeman	Perry, Iowa
G**	Warren Eugene Shrader, Jr.	LaPorte
	Joseph Chad Snodgrass	Advance
	Howard Wayne Snyder	Terre Haute
	Andrew Keith Stirn.....	Cedar Grove
	Ronald Brian Timm	Fillmore
***	Eric John Trueblood	Terre Haute

CHEMISTRY

	James Scott Auton.....	Evansville
	Thomas Doss Baker	Orchard Hill, Georgia
	David Brian Weed	Three Rivers, Michigan

CHEMISTRY AND MATHEMATICS

**	Gregory Dean Ford.....	Yorktown
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CIVIL ENGINEERING

	Shelby David Biggs	Casey, Illinois
	Mark Warren Boenke	Darien, Connecticut
	Mark Albert Durno.....	Warren, Ohio
	Christopher Lee Hammond	Indianapolis
	Scott Charles Huff	Osgood
C*	Kenneth James Koziol.....	Schaumburg, Illinois
*	Robert Dale Ladson, Jr.	Warsaw
C**	David Lahey	Indianapolis
C	Peter Alan Landsgaard.....	Rosamond, California
	Troy Jason McClamroch.....	West Harrison
C**	Scott Gerard Minnich	Portland
C AF	Daniel Joseph Rich.....	Hamilton, Ohio
	Andrew Pierce Sarell.....	Fort Wayne
C	John David Sherrard	South Bend
C**	Timothy Will Spurling	Evansville
C	John David Whitworth	Terre Haute

COMPUTER ENGINEERING

	Raymond Daniel Alejandro	Bothell, Washington
*	Douglas Joshua Behnke	Amissville, Virginia
	Jon Halsey Bohlke II	Hastings, Nebraska
R	Mark William Brehob.....	Hanover Park, Illinois
	Matthew Charles Carnahan.....	Decatur, Illinois
	Elihu Daniel Feustel	Terre Haute
	John E. Miller	Terre Haute
R	Deyan Nocolov Nenov	Terre Haute
A	Thomas Eugene Rude.....	Liberty

AF Brett Jason Snyder.....Cozad, Nebraska
 Martin Albert Stembel.....Hebron
 Kevin Scot Zaylskie.....Fargo, North Dakota

COMPUTER SCIENCE

Ronald Matthew Adams.....Indianapolis
 Michael John Allard.....Elk Grove, Illinois
 Robert Duane Coner.....Franklin
 Randy Lloyd Deibel.....Freeport, Ohio
 * Kent Wayne Flint.....Greencastle
 * Bradley Donald Freriks.....Indianapolis
 * Scott Edward Kwilinski.....Middlebury
 Kurt Roy Lindemann.....O'Fallon, Illinois
 * Steven Wayne Loper.....Springfield, Illinois
 Kurt Frederick Louis.....Cincinnati, Ohio
 AF* Daniel Eric Magsig.....Wauwatosa, Wisconsin
 R John Robert Mayo.....Sallisaw, Oklahoma
 ** Patrick Edward Moseley.....El Paso, Texas
 A Steven Lewis Reid.....Terre Haute
 * John Stephen Snider.....Noblesville

COMPUTER SCIENCE AND MATHEMATICS

** Matthew Cassidy Drew.....Terre Haute

ELECTRICAL ENGINEERING

Clint Walter Brock.....Brownstown
 Michael Dennis Brown.....Lyons
 *** David Michael Browning.....Indianapolis
 ** Timothy John Chavie.....Faribault, Minnesota
 James Lee Claypool.....Lexington, Kentucky
 Thomas N. Combs II.....Terre Haute
 AF Troy Otis Coopridge.....Clay City
 A Eugene Thomas Coughran.....Jeffersonville
 Mark Anthony Didat.....Floyds Knobs
 AF Erik Arthur Drake.....Sheridan, Wyoming
 AF William Noble Eccles.....Columbia, South Carolina
 Garyne Trace Evans.....North Bend, Ohio
 * Kenneth C. Furge.....Columbia City
 David Franklin Gadberry.....Jasonville
 * Joseph William Galles.....Kokomo
 R* Todd Alan Greener.....Jasper
 AF* Troy Powell Hall.....Columbus
 Bryan Christopher Hankins.....Floyds Knobs
 * Corey Dean House.....Humble, Texas
 Brian John Ingalls.....Beaver Creek, Ohio
 R Matthew Jurel Jones.....Shoals
 ** Douglas Edward Keiter.....Albany, Ohio
 Gregory Allan Kemp.....Griffith
 ** Brian M. Knox.....Cincinnati, Ohio
 Mark Bradshaw Kraeling.....Russellville, Kentucky
 * Craig Arnold Lambert.....Belleville, Michigan
 Bryan Richard LaPlant.....Green Bay, Wisconsin
 AF Michael Jon Lehr.....Mariah Hill
 Todd Allen Mehringer.....Jasper
 James Hojun Miyoshi.....Hanapepe, Kauai, Hawaii
 AF Charles David Ormsby.....Terre Haute
 Luis Francisco Guzman Ortiz.....Morelia, Michoacan, Mexico

A	Matthew Dwight Owens	Viriden, Illinois
*	David Chancellor Petruska	Englewood, Ohio
	Andrij Iwan Petryna	Hammond
R A	Brent Edward Potter	Indianapolis
	Brian Kalani Rychener	Naalehu, Hawaii
AF**	James Conwell Savage	Rochester, New York
**	Brett Frederick Schneider	Indianapolis
CM	Barry Kent Simpson	Kokomo
*	Justin Derek Smith	New Albany
	Frederick Michael Spinner	Elk Grove Village, Illinois
††*	Michael James Spock	Jeffersonville
	Lance William Stallcop	Brazil
	Lucas Sebastian Stockbauer	Canajoharie, New York
AF	Anthony Lyn Thomas	Newburgh
	Steven Daniel Traylor	Ottwell
	David Andrew Troike	North Judson
	Hoang M. Truong	Kaneohe, Hawaii
AF*	Erik Lyle Wallace	Martinsville, Illinois
††*	Eric Ray Wandel	Grandview
	Aaron Joseph Wendelin	Waterloo, Iowa
	Brian Michael Whipp	Englewood, Ohio
**	Christopher Lane Wolfe	Peru
***	Piu Bill Wong	Tsimshatsui, Kowloon, Hong Kong
***	Ngan Yeung	Tsim Sha Tsui, Hong Kong

MATHEMATICS

††AF**	Heinrich Albert DuBose-Schmitt, Jr.	West Columbia, South Carolina
	Michael William Mazur	Crawfordsville
††***	Matthew Eli Morin	Spencer
††***	John Thomas O'Bryan (Posthumous)	Cold Spring, Kentucky
	Kevin Wayne O'Bryant	St. Peters, Missouri
††AF*	David Lee Vititoe	Mt. Zion, Illinois

MATHEMATICS AND ECONOMICS

*	Brian Joseph Sullivan	Valparaiso
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MECHANICAL ENGINEERING

A**	Jeffrey George Amrhein	Salem, Ohio
	Kirk Jay Bailey	Argos
	Brian Eugene Barrett	Hamilton, Ohio
	James Bradley Bechtel	Noblesville
	Eric Nicholas Berzsenyi	Terre Haute
A	Danny Douglas Boxeth	Coon Rapids, Minnesota
	Richard Andrew Briars	Kouts
	Roger Eric Byrum	Twelve Mile
AF	Andrew Edward Causey	Cary, North Carolina
	Marc Herve Champagne	West Warwick, Rhode Island
A*	Shannon Roger Clark	Paris, Illinois
**	Jeffrey James Clarkson	Anderson
*	Dale Allen Conroy	Sellersburg
R	Damon Ashly Crouch	Louisville, Kentucky
	Darin L. Darr	Shipshewana
	Richard Troy Dewar	Bloomington
	Kevin Ray Dierking	New Albany
**	Christopher Gaines Dixon	Frankfort
	Gregory Weston Dixon	Albuquerque, New Mexico
**	Thomas Eugene Dorsch	Allentown, Pennsylvania

	Randall Kevin East	Flora
*	Hershel Edward Fancher	New Albany
	Thomas Edwin Finkbiner	Plymouth
	William Arthur Flodder	Oldenburg
	Keith Wayne Galey	St. Croix
	Richard David Gamble	Miami Springs, Florida
	Shannon Troy Gatke	North Vernon
AF*	Kevin W. Gilbert	Coon Rapids, Minnesota
	Christopher King Gotwald	Washington
	David James Gowans	Greenville, Michigan
	Matthew M. Graf	Fairfield, Ohio
	Mark Christopher Guerrettaz	Danville
**	Gregory Walter Hall	Greeley, Colorado
*	Ryan Lee Hawk	Missoula, Montana
	Daniel Eugene Hector	Ellettsville
	Paul Anthony Hedinger	Jasper
	John Frederick Henning, Jr.	Troy, Michigan
*	Mark Joseph Hiatt	Sheridan
*	Anthony Elston Hicks	Alexandria, Louisiana
	Peter Wayne Hinz	Jamestown
*	Brian Andrew Horning	Amelia, Ohio
*	David Eric Hudson	Farmersburg
A	Jonathan Kent Karlen	Louisville, Kentucky
	Christopher Arnold Kaus	Browns Valley, Minnesota
	Michael Roy Keeney	Danville
	Eric Julius Koetter	Floyds Knobs
**	David John Kyle	Granger
	Craig Ronald Laker	Shelbyville
	Christopher John Lanker	Rochester Hills, Michigan
	Keun Woo Lee	Indianapolis
	John Michael Lesniak	Merrillville
	James Meeker Ludlow III	Detroit, Michigan
	Russell James Luzetski	Pe Ell, Washington
	Brian Scott Marcum	New Castle
*	Mark Todd McCue	Colorado Springs, Colorado
**	Brian Anthony McGlynn	Kettering, Ohio
*	Randy Michael McIntyre	Boswell
**	Patrick Burke McManus	Fort Wayne
**	Eric Ronald Meyer	Batesville
	William Clinton Morris	Mattoon, Illinois
*	Frank Edward Mullis	Solsberry
**	Alan Ace Newman	Cincinnati, Ohio
*	James Earle Ockers	Mountain Home, Arkansas
	Gregory John Orschell	Brookville
**	Lee Michael Parke	Allegany, New York
	Christopher Andrew Phillips	Terre Haute
	John Antonio Piga	Noblesville
*	Brian Lee Ream	Clay City
	Erik Alan Saur	Terre Haute
	Brian David Schwager	Pewaukee, Wisconsin
	Ronald James Schwipps	Milan
	Anthony Martin Schy	New Albany
	William Kestel Sears	Lexington, Kentucky
	Jeffery Paul Skiver	Indianapolis
**	David William Smith	Texarkana, Texas
	William Robert Stacey	New Palestine
*	Jasen Wade Stoll	Montgomery

Bruce John SwansonMiddleville, Michigan
 Vernon Jay TarrhBrazil
 Mark Shawn ThroopIndianapolis
 Robert Paul VirostkoClinton
 George Andrew Wenig.....New Bloomington, Ohio
 AF David John WillEvansville
 * Jason Ray Williford.....Sterling, Kansas
 * Jeffrey Edward WindauStaunton, Illinois

PHYSICS

Gary Lee Burdette.....Evansville
 ††AF** Heinrich Albert DuBose-Schmitt, Jr.West Columbia, South Carolina
 ** Darren Douglas GeblerElizabethtown, Kentucky
 ††*** John Thomas O'Bryan (Posthumous)Cold Spring, Kentucky
 ††* Michael James Spock.....Jeffersonville
 ††AF* David Lee VititoeMt. Zion, Illinois
 Erik Charles ZeekMolalla, Oregon

PHYSICS AND MATHEMATICS

** Michael Warren Liemohn.....Auburn, Washington
 ** Ned Robert ZimmerCharlottesville, Virginia

Master of Science

May 23, 1992

APPLIED OPTICS

- Paul Richard DeStefanoCrown Point
 *"Design Review and System Performance of an
 Infrared Phase-Measuring Interferometer"*
 Thesis Advisor: Professor Arthur B. Western
- Charles EadsIndianapolis
 *"Bismuth Silicon Oxide As a Holographic
 Storage Medium"*
 Thesis Advisor: Professor Arthur B. Western
- Randy Lee EcklarLa Mesa, California
 *"Surface Characterization of Aluminized Parabolic
 Reflectors Using Light Scattering Techniques"*
 Thesis Advisor: Professor Robert M. Bunch
- Thomas HarrerWaldenbuch, Germany
 "A Hybrid-Photorefractive Character-Recognition System"
 Thesis Advisor: Professor Azad Siahmakoun
- Song PengShanghai, P.R. China
 "A Fiber Optic ESPI System Using Diode Laser"
 Thesis Advisor: Professor Brij M. Khorana
- Zhong XieDalian, P. R. China
 "Design of Lenses Dominated by Third-Order Aberrations"
 Thesis Advisor: Professor Jerome F. Wagner

CHEMICAL ENGINEERING

- Brian Lee CooperShoals
 *"A Design Methodology for Optimizing a Backpulse Strategy
 in Cross-Flow Microfiltration"*
 Thesis Advisor: Professor Ronald S. Artigue
- Houphouet Hyacinthe YarabeIvory Coast
 *"Tensile Properties of Low, Linear Low and
 High Density Polyethylene Blends"*
 Thesis Advisor: Professor Jerry A. Caskey

ELECTRICAL ENGINEERING

- Juergen BlattnerStuttgart, Germany
 "Implementation of a Neural Network in VLSI Technology"
 Thesis Advisor: Professor Ruth I. Waite
- James Michael BrownBloomington
 "Digital Model of a Generic Infrared Tracker"
 Thesis Advisor: Professor Frederick C. Brockhurst
- Jens EngelKirchheim, Germany
 *"Digital Data Detection and Synchronization
 in the Spectral Domain Using FFT"*
 Thesis Advisor: Professor Jovan E. Lebaric
- Aditya KhatukaCalcutta, India
 *"Design of an Improved Operating System Based on
 MINIX for 80386-based Computers"*
 Thesis Advisor: Professor Bruce A. Black

- Ramanujam KrishnanTamil Nadu, India
*"Modeling of the Motion and Remote Control System
Specifications for a Continuous Mining Machine"*
Thesis Advisor: Professor Frank E. Acker
- Gordon N. Miller.....Owensburg
Non-Thesis Option:
*Project Title: Design of Standard Multibus II
I/O Modules for the Navy*
Advisor: Professor Keith E. Hoover
- Chinna Babu Prudvi.....Hyderabad, India
"Programmable Logic Array Testing"
Thesis Advisor: Professor Jeffrey E. Froyd
- Jing WangZhejiang Province, P. R. China
"Text-to-Speech Conversion Using Artificial Neural Systems"
Thesis Advisor: Professor Keith E. Hoover
- Xiaohua Yang.....Beijing, P.R. China
*"Digital Image Processing Techniques
for the Enhancement of Mammograms"*
Thesis Advisor: Professor Barry J. Farbrother
- Hui Zhao.....Beijing, P. R. China
"Failure Diagnosis of Dynamic Systems"
Thesis Advisor: Professor Keith E. Hoover

MECHANICAL ENGINEERING

- Willard Scott JohnsonBedford
*"The Effects of Structural Modification for the
Design of Special Warfare Rocket Launchers"*
Thesis Advisor: Professor C. Mallory North
- Adarsh SogalBangalore, India
*"Mechanical Properties of a Composite Bone Cement:
Polymethylmethacrylate and Hydroxyapatite"*
Thesis Advisor: Professor Samuel F. Hulbert
- Dewitt W. WillisBedford
"Design and Evaluation of Carding-Lined Noise Suppressors"
Thesis Advisor: Professor J. Darrell Gibson

Bachelor of Science

Summer Completion

CHEMICAL ENGINEERING

Craig Scott LinderothLouisville, Kentucky
 Douglas Lynn Peterson.....Lynn

CHEMISTRY

Jeffrey James JaworekChicago, Illinois

CIVIL ENGINEERING

Jason Scott Parks.....LaGrange, Texas

COMPUTER ENGINEERING

Timothy Brian EzraWinamac

COMPUTER SCIENCE

Amit BhatianiNew Delhi, India

ELECTRICAL ENGINEERING

G Michael Jeffrey Blair.....Tulsa, Oklahoma
 Scott David PeckinpughIndianapolis

MECHANICAL ENGINEERING

James Robert BowmanIndianapolis
 Clint W. LasherEvanston
 Jason Andrew SsutuVictorville, California

November Completion

CHEMICAL ENGINEERING

Mark Frayne FrinkNewport

COMPUTER ENGINEERING

Chad Eugene McQuillenShiloh, Ohio

COMPUTER SCIENCE

Gregory Jon ParkhurstWauwatosa, Wisconsin

ELECTRICAL ENGINEERING

Mark Stephen KazmierOgden Dunes
 Todd Christopher Midkiff.....Hammond
 Carlos Roberto MontoyaLa Ceiba, Honduras
 David Robert St. JohnSalem

MECHANICAL ENGINEERING

Benjamin Alan BierleinFarmersburg
 Joseph B. Ellis.....Dana
 James Langley Gibson.....Terre Haute
 David Scot HesslerCambridge City
 Jay Bruce SamuelsonLebanon
 Douglas Gene SecristMentone

ROSE-HULMAN INSTITUTE OF TECHNOLOGY

BOARD OF MANAGERS

John V. Titsworth, Chairman	Stuart, Florida
B. Guille Cox, Jr., Vice Chairman	Terre Haute
Clyde F. Willian, Secretary	Winnetka, Illinois
John N. Royse, Treasurer	Terre Haute
Donald J. Almquist	Kokomo
Thomas W. Binford (Emeritus).....	Indianapolis
Walter S. Blackburn	Indianapolis
Robert E. Bright	Austin, Texas
Harold D. Brown, Jr.	Duncanville, Texas
Wendell E. Carroll (Emeritus)	Santa Rosa, California
Carl E. Ehrenhardt (Emeritus)	Terre Haute
Vern W. Fellows	Terre Haute
William R. Fenoglio.....	Avon, Connecticut
Howard P. Freers	Bloomfield Hills, Michigan
Frederick W. Garry	La Mesa, California
Tony Hulman George	Indianapolis
Mari Hulman George	Terre Haute
Waldo E. George	Indianapolis
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
James E. Rogers, Jr.	Indianapolis
Robert L. Royer	Louisville, Kentucky
William D. Schindel	Terre Haute
Robert Shattuck (Emeritus)	Vienna, West Virginia
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
David C. Mitchell (Alumni Representative)	Cincinnati, Ohio
Harmon L. Shaw (Alumni Representative)	Crosby, Texas