

5-26-1990

1990 Rose-Hulman Institute of Technology : One-Hundred and Twelfth Commencement

Rose-Hulman

Rose-Hulman Institute of Technology

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**One Hundred and Twelfth
Commencement**

of

**Rose-Hulman Institute of
Technology**



May 26, 1990

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.....	Daniel L. English, Paul R. DeStefano, Dervis E. Scheib, Daniel G. Storch
Invocation.....	J. Corie Biggs President, Student Government Association
Greeting from the Alumni.....	Robert P. Failing, Jr., '52 President, Alumni Association
Response from the Senior Class.....	Robert Jacobs President, Senior Class
Introduction of Commencement Speaker.....	Brian K. Kochersperger Vice President, Student Government Association
Commencement Address.....	Renn Zaphiropoulos retired President and Chief Executive Officer, Versatec, Inc.
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>
<p style="margin-left: 40px;">Don V. Fordyce (Doctor of Engineering) Introduced by Barry Farbrother, B.Sc., Ph.D.</p> <p style="margin-left: 40px;">A. J. Foyt (Doctor of Engineering) Introduced by Thomas W. Mason, B.A., M.A., Ph.D.</p> <p style="margin-left: 40px;">Howard P. Freers (Doctor of Engineering) Introduced by James R. Eifert, B.S., M.S., Ph.D.</p> <p style="margin-left: 40px;">Dane A. Miller (Doctor of Engineering) Introduced by William G. Ovens, Jr., B.S.E., M.S., Ph.D.</p> <p style="margin-left: 40px;">James T. Morris (Doctor of Humane Letters) Introduced by Thad D. Smith, B.A., Ph.D.</p> <p style="margin-left: 40px;">Renn Zaphiropoulos (Doctor of Engineering) Introduced by Arthur B. Western, Jr., B.S., M.S., Ph.D.</p>	
Conferring of Degrees.....	Samuel F. Hulbert <i>President, Rose-Hulman Institute of Technology</i>
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	Daniel L. English, Paul R. DeStefano, Dervis E. Scheib, Daniel G. Storch
Benediction.....	D. Kyle Thompson <i>President, Blue Key</i>
Recessional	<i>Nun Danket</i> by Bach/Fox
Postlude	<i>Toccatà in C Major</i> by J. Pachelbel Organ Music by Alfred R. Schmidt, B.S., M.S. <i>Professor of Mathematics</i> 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

DON V. FORDYCE
Vice President, Space Systems Division
Fairchild Space Company
Rockville, Maryland

Since graduating from Rose-Hulman in 1956, Don Fordyce has directed the development of key components for the historic Hubble Space Telescope and is now involved in the creation of a satellite that will provide new information about the ocean's surface.

As vice president of Fairchild Space Company's Space Systems Division, Fordyce was instrumental in the development of systems that serve as the "brain" that command the Hubble Space telescope's five key instruments. Before joining Fairchild, Fordyce oversaw the creation of the telescope's primary and secondary mirrors as a project director at Perkin-Elmer Corp. The mirrors enable the telescope to see into outer space.

He is now working on a project that will enable scientists to map precisely for the first time the elevation of the ocean's surface. The project will provide scientists with more information about wind, waves and currents.

A. J. FOYT
Renowned Race Car Driver and Engine Developer
President, A.J. Foyt Enterprises
Houston, Texas

Known as one of the world's greatest race drivers, Foyt is being honored for the many engineering related contributions he has made to the development of automobile engines and the aerodynamic design of race cars during his 37-year racing career.

Foyt is the only driver in history to win the Indianapolis 500, the 24 Hours of LeMans and the Daytona 500. He is a seven-time Indy car champion and one of only two drivers to win the Indianapolis 500 four times. Foyt boasts a win in 18 Indy car seasons and is the all-time leader in Indy car victories, starts and seasons of competition.

He is also the founder and president of A.J. Foyt Enterprises, Houston, Texas.

HOWARD P. FREERS
Retired Chief Engineer for Engineering Technical Services
Fort Motor Company
Bloomfield Hills, Michigan

During his 33-year career at Ford Motor Co., Freers made important contributions to the technical development of Ford products. He was involved in the engineering of one of the most innovative car designs by an American manufacturer. Freers, a 1948 Rose-Hulman graduate, was a member of Ford's engineering team that initiated and completed the creation of the trend-setting Taurus and Sable model cars.

Freers held numerous chief engineer posts with Ford before retiring in 1988 as chief engineer for engineering technical services. He helped design Ford's anti-theft car protection devices and was also involved in the technical development of Ford's powertrain and electrical systems.

As a member of the Rose-Hulman Board of Managers for the past 23 years, Freers' leadership and expertise has been vital to the continued development of Rose-Hulman. The board of managers is the governing body of the college.

DANE MILLER
President and Chief Executive Officer
Biomet, Inc.
Warsaw, Indiana

Miller was one of four men who created Biomet, Inc., 12 years ago. He has guided the company's development to where it is one of the fastest growing medically related businesses in the nation. Biomet is a major manufacturer of artificial hips, knees and other orthopedic implant devices. It has international annual sales of \$136 million and employs 600 people.

Miller earned the Ph.D. in materials science engineering from the University of Cincinnati and served as director of biomedical engineering for divisions of Bristol Meyers and Cutter Laboratories, Inc. before creating Biomet.

Last year, Miller was named Entrepreneur of the Year by Inc. Magazine and Biomet was listed as one of the nation's 100 fastest growing public companies by Dun's Business Month.

RENN ZAPHIROPOULOS
Retired President and CEO, Versatec, Inc.,
and Corporate Vice President, Xerox Corp.
Cedar City, Utah

Zaphiropoulos is a nationally known entrepreneur and former corporate vice president of the Xerox Corp. Prior to creating Versatec, Inc., he was instrumental in the creation of the first electrostatic printers which made it possible to produce hard copy from data generated by computers. Versatec merged with Xerox in 1975.

His successful management philosophies have been featured in several best selling books such as *A Passion for Excellence* by Tom Peters and John Kotter's book, *Power and Influence*.

Zaphiropoulos has been a guest lecturer at the Harvard Business School and at Columbia and Stanford universities. He served as a consultant to several national corporations including GTE Sylvania, Bechtel, Apple Computer and Kaiser Electronics.

Doctor of Humane Letters

JAMES T. MORRIS
President, IWC Resources Corp.
and the Indianapolis Water Company
Indianapolis, Indiana

Morris is well-known for his civic and business leadership in Indianapolis after serving for 16 years as a member of the Lilly Endowment, Inc. staff, including the last five years as the endowment's president.

In 1989, he was elected president of IWC Resources Corp. and its principle subsidiary, the Indianapolis Water Co.

A native of Terre Haute, he serves on the board of directors of 12 Indianapolis community service, financial and sports-related organizations. Morris has a special interest in issues related to young people. He serves as a member of the board of Junior Achievement, Boy Scouts and is co-chairman of the Indianapolis Campaign for Healthy Babies, an effort to reduce the high infant mortality in the city.

Morris was elected to the executive board of the U.S. Olympic Committee in 1984 and is chairman and a trustee of the U.S. Olympic Foundation and the NCAA Foundation.

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/Master'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. 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

November 16, 1989

ELECTRICAL ENGINEERING

William C. Archibald Gillette, Wyoming
G* Garrett Davis Gehlhausen Evansville

MECHANICAL ENGINEERING

Gregory Michael Reece Bloomfield

February 22, 1990

CIVIL ENGINEERING

A* Craig Thomas Maske Mount Carmel, Illinois
* Frank Visingardi, Jr. Nanuet, New York

ELECTRICAL ENGINEERING

** James Corie Biggs Palestine, Illinois
James Mason Carroll Lafayette, Louisiana
Scott Wayne Faust Waukesha, Wisconsin
AF Brett Alan Poole Tell City
Garrison Scott Ashwell Tyrrell Edison, New Jersey

MECHANICAL ENGINEERING

A Timothy John Brewer Huntingburg

May 26, 1990

APPLIED OPTICS

††** John Louis Buetow Kokomo
Dana Andrew Gossert Carlisle, Pennsylvania
Clark Allan Pentico Mountain Home, Idaho
Dale Arthur Stevenson New Providence, Pennsylvania

CHEMICAL ENGINEERING

James Joseph Albert Mount Prospect, Illinois
* Brian Keith Anderson Princeton
Randall Mark Bischoff Winamac
Sean William Bower Greensburg
** Daniel Joseph Braker Evansville
* Randall Ray Bridgeman Kokomo
* Steven Boyd Childress Greenfield
C* Harold Alvin Cowan Indianapolis
A Raymond Luke Fischer Tell City
* Robert Kenneth Harmon Terre Haute
William Earl Hendricks Hollywood, Florida
John Douglas Hummel Greenwood
*** Robert Edward Jacobs Holly, Michigan
Stephen Glenn Junker West Terre Haute

- ** Charles Edward Larkin II Westerly, Rhode Island
- ** Timothy Steven Mateja Munster
- Samuel N. McCracken Terre Haute
- A Gregory Dale Michael Madisonville, Kentucky
- Timothy James Mulzer Tell City
- ** Gerald Duane Naliborski Terre Haute
- Roger Alan Norris Williamsport
- * Michael Joseph O'Donnell Anderson
- ** John Anthony Poparad Chesterton
- ** Fredrick Lyn Queary Paris, Illinois
- ** Paul Thomas Rakos Munster
- Bhasker Reddy Indianapolis
- * Stephen Clarke Shanks Michigan City
- Scott Alan Strayer LaGrange
- Kenneth Lee Swank Terre Haute
- Brent Allen Taylor Farmersburg
- Allan Joseph Thompson South Bend
- Lester Scott Yerger Elizabethtown, Pennsylvania

CHEMICAL ENGINEERING AND CHEMISTRY

- *** Mark Frederic Schulz Mequon, Wisconsin

CHEMISTRY

- Stephen James Glueckert Algoma, Wisconsin
- R John Howard Holtz Keedysville, Maryland
- Frederick George Jacobs Fort Wayne
- *** David Christopher Miller Clearwater, Florida
- ** David Andrew Stoeckel St. Louis, Missouri
- ** Paul Yoshio Takahashi Pittsfield, Illinois

CIVIL ENGINEERING

- Bruce Gates Carter Milroy
- C** Douglas Alan Collier Coatesville
- John David Crane Hume, Illinois
- Michael Leroy Eubank Brownsburg
- Rodger Neal Fortune Terre Haute
- Timothy John Geswein Floyds Knobs
- Eric James Glover LaGrange, Ohio
- C* Jason Paul Lueking Bloomfield
- C Brian Edward Moench Danville
- ** Steve Eric Pryor Visalia, California
- Chad L. Reitmeyer Vincennes
- Gary Lee Ruston Evansville
- Stephen Frederick Staats Paris, Illinois
- * Roy Allen Zimmerman Laconia

COMPUTER SCIENCE

- ** John Faison Allen, Jr. Marianna, Florida
- * Brett Eugene Bowman Muncie
- Douglas Darrell Denney Whiteland
- Walter Kenneth Engler Joliet, Illinois
- Jeffrey Carl Hanson Bedford, Texas
- * Steven H. Keller New Market
- Deron Elliott Meranda Cincinnati, Ohio
- Randy Joseph Nelson Evansville
- Ronald Julian Perrella Sarasota, Florida

Scott Wilson Plimpton Allison Park, Pennsylvania
 John Stevan Roman New Milford, Pennsylvania
 Keith Alan Struss Greenwood
 Jeremy John Winnick Cloverdale
 Robert Gregg Woolf Gulf Breeze, Florida

COMPUTER SCIENCE AND MATHEMATICS

** Troy Ryan Thomas Mount Morris, Illinois

ELECTRICAL ENGINEERING

G** John Emery Ball Zionsville
 *** Scott Lyman Barndt Missoula, Montana
 Russell Alan Barrus, Jr. Pittsburgh, Pennsylvania
 * Brian Ray Bartley Jasper
 †† Steven Richard Benoit Gillette, Wyoming
 Dennis Lee Black Brazil
 ††** John Louis Buetow Kokomo
 Matthew Wayne Donk Aurora
 James Darrin Edwards Michigan City
 James William Elliott Marengo
 AF* Christian Martin Evarts Kirkland, Washington
 Joel Edward Fern Terre Haute
 Brian Matthew Findley Terre Haute
 Edward Andrew Flake Indianapolis
 Daniel Robert Flynn Yorktown
 G** Eric Everett Forster Greenwood
 ††* Gregory Wayne Gass Paducah, Kentucky
 Jimm Herbert Grimm Richmond
 * Allen Lee Hackney, Jr. Terre Haute
 Jay Clifford Hall Griffith
 A Joseph Henry Harrell Cincinnati, Ohio
 *** David Ryan Haub Pekin
 Glen James Heydinger Evansville
 AF Eric John Jumper, Jr. Notre Dame
 Theodore Anthony Jung Tipton
 Troy David Kabrich Francesville
 Joseph Kanellopoulos Thessaloniki, Greece
 Michael Chul Kim Lexington, Kentucky
 Anthony Kevin Kochert Floyds Knobs
 * Richard Anthony Kocken Huntingburg
 James Christopher Koehl Fort Wayne
 Kenneth David Konczal Montgomery, Illinois
 * David William Kooyman Knoxville, Tennessee
 Raymond G. Kroll Menomonie, Wisconsin
 Anthony Corbett Smith Kull Newburgh
 Richard John Lesniak Merrillville
 Michael Phillip Linder Elwood
 A* Roger Paul Manke, Jr. Colorado Springs, Colorado
 ** Thomas Jerome Margraf Mishawaka
 ** Mark Edward Melton Odon
 Timothy Scott Miller Valparaiso
 Alan Mok Hong Kong
 Donald Luke Morehead Indianapolis
 Matthew Michael Morris Arcadia, Ohio
 A Michael Edward Nowatkowski Katy, Texas
 ** Jeffrey Ortho Pickett Shoals
 William Alexander Pollack Sherburne, New York

A	Timothy Daren Presby	Frederick, Maryland
A	Dennis Joseph Quimby	Auburn, Washington
**	James Lothar Rey	Merrillville
	Gregory John Richter	Lawrenceburg
**	Ryan Kevin Roth	South Bend
*	Brian Randall Runkle	Macy
*	Stephen N. Sanders	Fort Wayne
	Dervis Esrom Scheib, Jr.	York Haven, Pennsylvania
	Thomas Dale Short	Brazil
**	Gary Lynn Smith	English
A**	Robert Lewis Spence	Lincoln, Nebraska
	Gregory Peter Spock	Jeffersonville
R	Kevin Lee Steele	Danville
A R	Raleigh Benton Stelle IV	Indianapolis
AF*	Bradley Allen Stone	Princeton
	Paul T. Stone	San Antonio, Texas
R*	Richard Alan Thielmeyer	Cincinnati, Ohio
	Raymond Frank Urbanic	Mentor, Ohio
A	Dwight Thomas Weese	LaPine, Oregon
††*	Scott Allen Weigand	Newburgh
*	Douglas Aaron Weiser	Bradenton, Florida
*	Kenneth Albert Whitehead	Kokomo
	James Frederick Wuerch	Richmond

ELECTRICAL ENGINEERING AND COMPUTER SCIENCE

*	Ronald Raymond Dippold	Juneau, Alaska
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MATHEMATICS

*	Joel Emmanuel Atkins	Terre Haute
††*	Gregory Wayne Gass	Paducah, Kentucky
	Michael Dennis McGonagle	Sandwich, Massachusetts
R	David James Martin Rettberg	Carlisle, Pennsylvania
††***	Daniel George Storch	North Versailles, Pennsylvania
	John Randolph Warren	Charleston, West Virginia

MATHEMATICS AND COMPUTER SCIENCE

R*	Christopher Bryant Halioris	New Port Richey, Florida
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MECHANICAL ENGINEERING

**	Thomas McDaniel Adams	Savannah, Georgia
	George Angelov	Hobart
	Herman Frederick Baatz	Fort Wayne
C	Ken Bradley Barrett	Salem
	Michael Todd Bell	LaPorte
**	Dale Francis Bittner	St. Leon
	Donald Glenn Blair	West Terre Haute
	Douglas Jack Bowman	Bloomington, Illinois
AF	Lee Jerald Bridges	North Vernon
	Jeffrey Allen Caudill	Franklin
R***	Eric Cegielski	Kintnersville, Pennsylvania
	Kynan Lon Church	Cordova, Alaska
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*	Robert Charles Clear	Anderson
	Kevin Scott Cook	Warsaw
	Eric Stephen Cooper	Underwood
***	Jeffrey Paul Darnell	Columbia, Missouri

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 Allen Fredrick Dean Indianapolis
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 Phillip Andrew Eckert Sellersburg
 Brian Allen Engle Peru
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 AF Kevin Ray Fesler Bloomfield
 * Clinton Thomas Filipowicz Appleton, Wisconsin
 Carl John Gillman Brookville
 * Gregory Paul Heimann Decatur
 Stuart Douglas Henson Petersburg
 Joseph Anthony Hentz Ogden, Vermont
 Benjamin Andrew Hill, Jr. Clinton
 ** Michael Chad Hoffa Centerpoint
 * Carold James Johnson St. Paul, Minnesota
 * Jeffrey Dwight Johnson Lyons
 Jody David King Terre Haute
 A*** Mervin Christopher Kraycsi Terre Haute
 Gregory Deron Lengacher Odon
 Bruce T. Levy Indianapolis
 David Orson Lunceford Terre Haute
 ** Lorne Edward Meade Hopkinsville, Kentucky
 Brian Keith Meek Fillmore
 Spiro John Megremis Munster
 Dennis Wayne Moore, Jr. Lake Villa, Illinois
 A* Richard Albert Munoz El Paso, Texas
 * Frederick Scott Myers IV West Terre Haute
 Joel Jeffery Nicoson Centerpoint
 Trevor Norman Olsen Fairview Park, Ohio
 Gary Travis Olson Sullivan
 A Randall Dennis Pahl Oneida, Wisconsin
 Daniel Philip Palazzolo Cincinnati, Ohio
 Jeffrey William Perkins Bloomington
 Mark Wade Petersen Fowler
 Russell Gordon Peterson Clayton
 * Neil Benjamin Petroff Merrillville
 * Michael David Poisel Schererville
 * Rodney Scott Retzner Sunman
 A Steven Joseph Robertson Newburgh
 * Jeffrey Allen Sale Anderson
 Barry Thomas Schneider Westlake, Ohio
 ** John Howard Schultz Terre Haute
 A* Richard Thomas Schwaiger Fort Wayne
 John Robert Schwarzmann Scottsdale, Arizona
 Matthew William Spurgeon Winamac
 Brett Andrew Starr Plymouth
 Ronald Wayne Steinhart Lafayette
 G Jason William Stone Ozark, Arkansas
 * David Alan Stovall Brazil
 ** Eric Layton Stratten Terre Haute
 * David Kyle Thompson Boonville
 * Daniel Kent Vettters Avon
 G*** Dennis Andrew Wagner Vincennes
 * Scott Christian Webb Waggoner, Illinois
 Michael Patrick Webster Casey, Illinois
 ** Michael Scott Wherry Greenfield
 Gregory Thomas White South Bend

A	David Richard Williams	Colfax
**	David Glenn Wilson	Terre Haute
M*	Richard Dale Woodruff	Odon
	Robert Lee Zacher, Jr.	Randle, Washington

MECHANICAL ENGINEERING AND ECONOMICS

***	Andrew Bryan Conru	Michigan City
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PHYSICS

††	Steven Richard Benoit	Gillette, Wyoming
	Paul Richard DeStefano	Crown Point
R	Charles Leslie Eads	Indianapolis
	Edwin Eugene Lucas	Plainfield
	William O'Dell Reid	Marietta, Ohio
††***	Daniel George Storch	North Versailles, Pennsylvania
**	Gregory Brant Strylewicz	Vancouver, Washington
††*	Scott Allen Weigand	Newburgh

Master of Science

May 26, 1990

APPLIED OPTICS

	Mukund Acharya	Bombay, India
	<i>"Veiling Glare in the F4111 Image Intensifier"</i>	
	Thesis Advisor: Professor Robert M. Bunch	
	Roger S. Cannon	Vincennes
	<i>"Prototype Right Angle Fiber Optic Connector and Bend Loss of Optical Fibers"</i>	
	Thesis Advisor: Professor Robert M. Bunch	
	Yuh-Kuan Ding	Feng Shan, Taiwan
	<i>"Characterization of a Heat-Treated Photorefractive Crystal BaTiO₃"</i>	
	Thesis Advisor: Professor Azad Siahmakoun	
	Christopher L. Eichelberger	Terre Haute
	<i>"Measurement of Static Displacements Using Digital Speckle Pattern Interferometry and Image Processing"</i>	
	Thesis Advisor: Professor Brij M. Khorana	
	Brian W. Eliason	Modesto, California
	<i>"Optical Nondestructive Testing of Metallic Honeycomb Bonding"</i>	
	Thesis Advisor: Professor Arthur B. Western	
	Daniel Theodore English	Kempton, Illinois
	<i>"Noninvasive Study of Human Cardiac Cycle Using Holographic Interferometry"</i>	
	Thesis Advisor: Professor Arthur B. Western	
	Seungug Koh	Seoul, Korea
	<i>"Forward Light Scattering From Optical Fibers"</i>	
	Thesis Advisor: Professor Robert M. Bunch	

Markus R. Weiss Oberkochen, West Germany
*“Enhancement of Fringe Visibility
With Photorefractive Processor”*
Thesis Advisor: Professor Azad Siahmakoun

Danjin Wu Beijing, China
“Energy Losses in a Dielectric-Metal Slab Waveguide System”
Thesis Advisor: Professor Jerome F. Wagner

CIVIL ENGINEERING

Tariq Rashdi Lahore, Pakistan
*“Computer Aided Analysis and Design of Fully and
Partially Prestressed Concrete Beams”*
Thesis Advisor: Professor Cecil T. Lobo

ELECTRICAL ENGINEERING

Roger Bartley Jasper
*“CMOS Implementation of Continuous-Valued Neural Networks
Which Utilize the Back-Propagation-of-Error Learning Rule”*
Thesis Advisor: Professor Jeffrey E. Froyd

Lucinda Lee Dennis Enterprise, Oregon
“Modeling and Control of a Slitter Rewinder”
Thesis Advisor: Professor Jeffrey E. Froyd

James P. Osburn Terre Haute
“Amateur Radio Speak Spectrum Transmitter and Receiver”
Thesis Advisor: Professor Bruce A. Black

Kevin P. Rolley Greenville, Kentucky
“Simulation of a D.C. Machine for the Energy Conversion Lab”
Thesis Advisor: Professor Clifford H. Grigg

Ming Wu Nanjing, China
“A Computerized Petroleum Products Sales Management Control System”

Tetsuo Yamane Yokohama, Japan
*“Design and Specification of a Power Laboratory Data Acquisition
and Control System”*
Thesis Advisor: Professor Frederick C. Brockhurst

MECHANICAL ENGINEERING

Gai-Wai Yang Chung-Li, Taiwan
*“Two and Three-Dimensional Thermal Analysis of
Die-Casting Die Using Finite Element Methods”*
Thesis Advisor: Professor L. Wayne Sanders

Ingrid R. Kraiser Eberdingen, West Germany
*“Implementation of an Efficient Iterative Procedure for the
Inverse Kinematic Solution of Six-Axis Industrial Robots”*
Thesis Advisor: Professor Donald G. Morin

Summer Completion

APPLIED OPTICS

Jeffrey Michael Singer Anderson

CHEMICAL ENGINEERING

A Trevor Dean Arnold Brownsburg
Alan Paul Radomsky Mentor, Ohio

CHEMISTRY

Paul Hajdu Highland

CIVIL ENGINEERING

Brian Keith Kochersperger Portland
Mark Alexander Montgomery Liberty
Patrick Peter Speth Peru

COMPUTER SCIENCE

Leo Joseph Krajewski Lower Burrell, Pennsylvania

ELECTRICAL ENGINEERING

Joseph Michael Bone Evansville
Jeremy Lee Carlson Spencer
8-31-91 Steven Michael Engel Dyer
David Alan Frampton Cincinnati, Ohio
Jeffrey Daniel Maynen Arlington Heights, Illinois
Timothy Arthur Nahrwold Fort Wayne
A Shane Brandon Weiss Indianapolis

MATHEMATICS

Michael Ray Wilson Myrtle Creek, Oregon

MECHANICAL ENGINEERING

David Alexander Akaka Honolulu, Hawaii ✓
Thomas Andrew Craig Brazil
William Edgar Fleenor San Ramon, California -70
James Edward Fortman Larwill
Michael Edward Hopkins London, Ohio
A Steven Mitchell Ickes Elyria, Ohio
Brian Andrew Meister Aurora
William Scott Zion Fort Wayne

PHYSICS

R Paul Steven Fitton Woodstock, Georgia

November Completion

ELECTRICAL ENGINEERING

Mark J. Beals Kokomo
AF Davide Julian Ivaldi Hobart
Lowell Scott Salter Liberty
Christopher Gerard Schlimm Cincinnati, Ohio
David Scott Thomas Middletown, Ohio
Thomas George Wappes Churubusco

MECHANICAL ENGINEERING

Frederick Lee Baker Logansport
Brian Hale Jones Jeffersonville
Scott Blythe Kirkpatrick Glenmoore, Pennsylvania
Andrew Jay Richards Marion
Jason Evermont Taylor Port Richey, Florida
Gary Lawrence VanderLind Comstock Park, Michigan
Jeffrey Scott Woolwine Kingman

ROSE-HULMAN INSTITUTE OF TECHNOLOGY

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Ernest G. Hurst (Emeritus)	Hillsboro, Illinois
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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
E.Crone Knoy (Alumni Representative)	Indianapolis
David C. Mitchell (Alumni Representative)	Madeira, Ohio

