# The University of Notre Dame 1982 Commencement

August 6

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## Events of the Day

Friday, August 6, 1982

#### BACCALAUREATE MASS

- 8:40 a.m. Graduates and faculty assemble in Administration Building, Main Floor, for Academic Procession to Sacred Heart Church.
- 8:50 a.m. Academic Procession departs for Sacred Heart Church
- 9:00 a.m. Concelebrated Baccalaureate Mass— Sacred Heart Church

Principal Celebrant and Homilist: Rev. Thomas E. Blantz, C.S.C. Associate Professor of History University of Notre Dame

#### Concelebrants:

Priests who will receive degrees during the Commencement Exercises, priest members of the faculty and priest members of the Congregation of Holy Cross.

## COMMENCEMENT EXERCISES CONFERRAL OF DEGREES

- 10:30 a.m. Graduates and faculty assemble in the Auxiliary Gym of the Athletic and Convocation Center. Please enter Gate 1 or 2.
- 10:50 a.m. Academic Procession begins
- 11:00 a.m. Conferring of Degrees in the Athletic and Convocation Center Concourse.

Commencement Address:
Sonia G. Gernes, Ph.D.
Associate Professor of English
University of Notre Dame

(Guests are requested to please be seated on the Concourse in Athletic and Convocation Center no later than 10:50 a.m.)

## Baccalaureate Mass



Sacred Heart Church
University of Notre Dame
Notre Dame, Indiana
at 9 a.m. (Eastern Standard Time)
Friday, August 6, 1982

Presiding Celebrant
Rev. Thomas E. Blantz, C.S.C.

Lectors
Ms. Christine Gwiazdowski
Br. Thomas C. Severino, C.F.C.

Music Ministers:

Organ Ms. Deborah McComas

Cantor
Rev. Peter D. Rocca, C.S.C.

The Elkhart Symphony Brass Quintet
Mr. Craig Heitger, trumpet
Mr. Thomas Horein, trumpet
Mrs. Peggy Horein, French horn
Mr. John Bencsics, trombone
Mr. Sam Gnagey, tuba

## BACCALAUREATE MASS

## FEAST OF THE TRANSFIGURATION

## Opening Rites

#### PRE-SERVICE MUSIC Quintett in B Moll.......Ewald Canzona Bergamasca......Scheidt Contrapunctus I......Bach **PROCESSIONAL** text: Matthew Bridges **OPENING HYMN** Crown Him With Many Crowns Godfrey Thring tune: George Job Elvey 1. Crown him with man his throne; Hark! The Lamb up crowns. on 2. Crown him the Son of Be - fore all worlds be - gan: And God Whose pow'r From 3. Crown him, the Lord of peace, а scep . ter sways 4. Crown him the Lord of life, Who tri-umphed o'er the grave, And how the heav'n-ly an - them.drowns All mu - sic own: Α-Who you who tread where he has\_\_ trod Crown him the Son man; wars may\_cease Ab - sorbed in in the\_strife For those he His pole to pole, that prayer and praise: All save: vic - to - rious came 0 and He free; Now wake, my soul, sing, grief has known That wrings the hu - man breast, And ev -'nv reign shall know Fair no end. And round his pierc - ed feet hail! For have died Your hail, Re - deem - er, vou for me: hail him glo-rious king Through all ter - ni tv. your as е -2. takes and for his own That bears them all in him may rest. 3. flow'rs of ex - tend Their par - a dise fra-grance ev -4. praise shall - er, nev - er fail Through -out nev e - ter - ni

GREETING + PENITENTIAL RITE

OPENING PRAYER

## Liturgy of the Word

FIRST READING

Dn. 7:9-10,13-14

His raiment was as white as snow.

RESPONSORIAL PSALM

Psalm 97



SECOND READING

2 Pt. 1:16-19

We heard this voice from out of heaven.

#### GOSPEL ACCLAMATION



**GOSPEL** 

Mark 9:2-10 This is my Son, my beloved.

**HOMILY** 

#### GENERAL INTERCESSIONS

Response: Lord, hear our prayer

## Liturgy of the Eucharist

PREPARATION RITE
PavaneByrdFantasiaBoyce
PRAYER OVER THE GIFTS
Eucharistic Prayer
PREFACE + SANCTUS
R. Proulx
Ho - ly, ho - ly Lord, God of pow-er and might.
Heav'n and earth are full of your glo - ry. Ho -
san - na in the high - est, ho - san - na in the high - est.
Blest is he who comes_in the name_of the Lord. Ho-
san - na in the high - est, ho - san - na in the high - est.
MEMORIAL ACCLAMATION  R. Proulx
When we eat this bread and drink this cup, we pro - claim your death, Lord Je - sus, un -

you come in glo-ry,

til

un - til

glo - ry.

you come in

#### **GREAT AMEN**

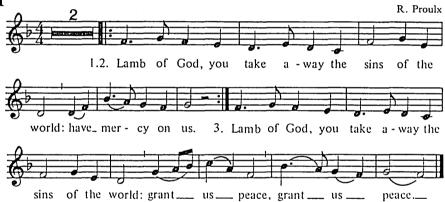


## Communion Rite

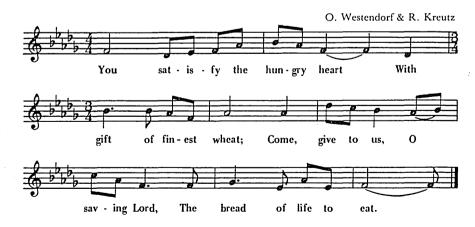
#### LORD'S PRAYER + DOXOLOGY

#### SIGN OF PEACE





#### COMMUNION PROCESSION Gift of Finest Wheat



#### PRAYER AFTER COMMUNION

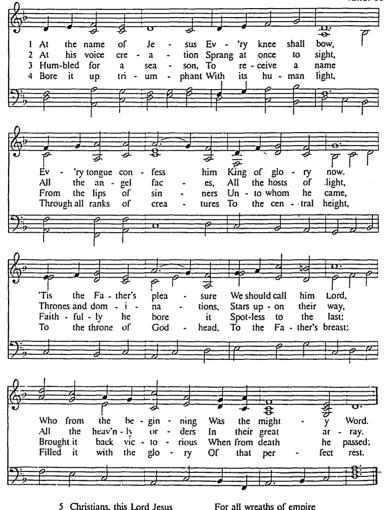
## Closing Rite

#### BLESSING + DISMISSAL

#### **CLOSING HYMN**

#### At the Name of Jesus

text: Carolyn M. Noel tune: R. Vaughn Williams



5 Christians, this Lord Jesus Shall return again In his Father's glory, With his angel train; For all wreaths of empire Meet upon his brow, And our hearts confess him King of glory now.

#### RECESSIONAL

Sonata from Die Bankelsangerlierder . . . . .

Anon

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# One T-fundred Thirty Seventh Gommencement Exercises



The Graduate School
The Law School
The College of Arts and Letters
The College of Science
The College of Engineering
The College of Business Administration

Athletic and Convocation Center
(Concourse)
University of Notre Dame
Notre Dame, Indiana
At 11 a.m. (Eastern Standard Time)
Friday, August 6, 1982

### Order of the Exercises

#### Processional

America, the Beautiful ---

O beautiful for spacious skies,
For amber waves of grain
For purple mountain majesties
Above the fruited plain.
America! America!
God shed his grace on thee,
And crown thy good with brotherhood
from sea to shining sea.

Convening of the Convocation

by Timothy O'Meara, Ph.D. Provost of The University

Presentation of Candidates for Degrees

The degree of Doctor of Philosophy by Robert E. Gordon, Ph.D. Vice President for Advanced Studies

The Master degree by Robert E. Gordon, Ph.D. Vice President for Advanced Studies

The degree of Bachelor of Arts by Robert E. Burns, Ph.D. Acting Dean of the College of Arts and Letters

The degree of Bachelor of Science by Daniel H. Winicur, Ph.D. Assistant Dean of the College of Science

The Bachelor degrees in the College of Engineering by Roger A. Schmitz, Ph.D. Dean of the College of Engineering

The degree of Bachelor of Business Administration by C. Joseph Sequin, Ph.D. Director of Institutional Administration Program

The Conferral of Degrees

The Provost of the University

Commencement Address

Sonia G. Gernes, Ph.D. Associate Professor of English

Closing Remarks

The Provost of the University

Notre Dame, Our Mother-

O'Donnell-Casasanta Notre Dame, Our Mother, tender, strong and true,

Proudly in the heavens gleams thy gold and blue

Glory's mantle cloaks thee, golden is thy fame

And our hearts forever praise thee, Notre

And our hearts forever love thee, Notre Dame.

Recessional of the Platform Party

<sup>\*</sup>It is customary for men, although not for women, wearing academic garb to have their caps removed during the Commencement Address and the singing of the Alma Mater.

### In the Graduate School

THE DEGREE OF DOCTOR OF PHILOSOPHY ON:

- Jeff Alan Ankrom, Lancaster, Ohio
  Major subject: Economics. Dissertation: Core
  Inflation, Inflationary Expectations and Bond
  Yield Determination. Director: Dr. Frank J.
  Bonello.
- Kurt Palmer Bottjer, Orinda, California Major subject: Biology. Dissertation: Studies on the Role of Sterol in Nematode Development. Director: Dr. Paul P. Weinstein.
- Jeffrey Mark Burns, Orange, California Major subject: History. Dissertation: American Catholics and the Family Crisis 1930-1962, The Ideological and Organizational Response. Director: Dr. Jay P. Dolan.
- Scott E. Chesebro, Anderson, Indiana
  Major subject: Sociology and Anthropology.
  Dissertation: The Mennonite Urban Commune:
  A Hermeneutic-Dialectical Understanding of Its
  Anabaptist Ideology and Practice. Director: Dr.
  Fabio B. Dasilva.
- Steven Charles Chiesa, Walnut Creek, California Major subject: Civil Engineering. Dissertation: Growth and Control of Filamentous Organisms in Activated Sludge Systems. Director: Dr. Robert L. Irvine.
- Paul Alan DeYoung, Muskegon, Michigan Major subject: Physics. Dissertation: Fusion Cross Section Measurements for the <sup>12</sup>C + <sup>20</sup>Ne, <sup>14</sup>N + <sup>14</sup>N and <sup>14</sup>N + <sup>10</sup>B Systems. Director: Dr. James J. Kolata.
- Enwere Dike, Umuaka, Orlu, Nigeria
  Major subject: Economics. Dissertation: Economic Growth, Capital Accumulation, and Technological Progress: Nigeria 1960-1978. A Study of the Pattern of Economic Transformation in a Post-Colonial Formation. Director: Dr. Roger Skurski.
- Kathleen Halischak, Steubenville, Ohio Major subject: English. Dissertation: Recent Voices in American Feminist Literature. Director: Dr. Joseph Duffy.
- Larry Allen Hauser, Kansas City, Kansas Major subject: Biology. Dissertation: Quantitative Phylogenetic and Phytogeographic Studies in the Thelypodieae (Brassicaceae). Director: Dr. Theodore J. Crovello.

- Kathleen Louise Horwath, Encino, California Major subject: Biology. Dissertation: Photoperiodic and Thermal Regulation of Insect Cold Hardiness Involvement of the Circadian System. Director: Dr. John G. Duman.
- Ronn Bill Kirkwood, South Bend, Indiana Major subject: Government and International Studies. Dissertation: Neighborhood Political Development: Correlates and Dynamics. Director: Dr. David C. Leege.
- Jonathan Lee Kvanvig, Raleigh, North Carolina Major subject: Philosophy. Dissertation: Subjectivity in Justification. Director: Dr. Richard Foley.
- John Edward MacCarthy, Sierra, Nevada Major subject: Physics. Dissertation: A Variational Approach to Statistical Mechanics with Applications to Molecular Monolayer Assemblies. Director: Dr. John Kozak.
- Gabriel Garcia Manrique, Manila, Philippines
  Major subject: Economics. Dissertation: Multinational Corporations, Advertising and Industrial
  Organization in Economic Development: A Case
  Study of the Philippines. Director: Dr. Richard
  Newfarmer.
- Peter J. Maurer, McLean, Virginia
  Major subject: Chemistry. Dissertation: The
  Total Synthesis of the Microbial Iron Chelators
  Aerobactin and Mycobactin S. Director: Dr.
  Marvin J. Miller.
- John Charles Nerone, Cincinnati, Ohio Major subject: History. Dissertation: The Press and Popular Culture in the Early Republic: Cincinnati, 1793-1848. Director: Dr. Nathan Hatch.
- Leo Raul Quintanar, Jr., Simi Valley, California Major subject: Psychology. Dissertation: The Interactive Computer as a Social Stimulus in Computer-Managed Instruction: A Theoretical and Empirical Analysis of the Social Psychological Processes Evoked During Human-Computer Interaction. Co-Directors: Dr. Charles R. Crowell and Dr. John B. Pryor.

Stephen Joseph Rohner, Shawnee Mission, Kansas Major subject: Psychology. Dissertation: Cognitive-Emotional Response to Music as a Function of Musical and Cognitive Complexity. Director: Dr. S. Patrick McCabe.

Cecil Hilliard Ross, Jackson, Mississippi Major subject: History. Dissertation: Dying Hard, Dying Fast: The Know-Nothing Experience in Mississippi. Director: Dr. Robert Kerby.

Helen Dauphine Tuggy, Santa Barbara, California Major subject: Psychology. Dissertation: A Comparison of Two Forms of Assertion Training and Their Impact on Anxiety and Impulsivity in Alcoholics. Director: Dr. Thomas V. Merluzzi.

Daniel Valdez, San Antonio, Texas Major subject: Sociology and Anthropology. Dissertation: Influence of Mexican-American Family Patterns on Educational-Occupational Placement, Director: Dr. David M. Klein.

Gregory Varhall, Shimer Manor, New Jersey Major subject: Government and International Studies. Dissertation: The Development of V.I. Lenin's Theory of the Dictatorship of the Proletariat. Director: Dr. George A. Brinkley.

David James Welsh, Jr., Pendleton, New York Major subject: Mathematics. Dissertation: Manifolds That Admit Parallel Vector Fields. Director: Dr. Tadashi Nagano.

## THE DEGREE OF MASTER OF MEDIEVAL STUDIES ON:

Michael W. Tkacz, Manitowoc, Wisconsin

#### THE DEGREE OF MASTER OF MUSIC ON:

Loretta Maria Manzara, London, Ontario, Canada

#### THE DEGREE OF MASTER OF ARTS ON:

Robin Lee Abboud, New Vernon, New Jersey
Major subject: Psychology. Thesis: Appropriate
Faculty Evaluation Via Student Ratings: Controlling Potential Contaminants. Director: Dr.
George S. Howard.

Barry A. Baker, Clinton, New York Major subject: Art.

J. Robert Baker, Alexandria, Louisiana Major subject: English.

Michael Xavier Ball, Missoula, Montana Major subject: Theology (Liturgy).

Marilyn Felice Barnett, Boston, Massachusetts Major subject: Theology (Liturgy).

Elaine Berkopec, Cleveland, Ohio Major subject: History.

David Edward Bollo, Cardiff, Ontario, Canada Major subject: Theology (Liturgy). Peter Corey Bower, Pleasant Ridge, Michigan Major subject: Theology (Liturgy).

Rev. Michael O. Brown, Tiffin, Ohio Major subject: Theology (Liturgy). Thesis: A Medieval Commentary on the Eucharistic Prayer: The *De Missarum Mysteriis* of Lothario Cardinal Da Segni, Pope Innocent III. Director: Dr. Ralph Keifer.

Patrick I. Carlin, Wantagh, New York Major subject: Theology (Liturgy).

Ann Marie Caron, Bronx, New York Major subject: Theology (Liturgy).

Sister Judith Laurie Coyle, Coldwater, Michigan Major subject: Theology (Liturgy).

Sister Judith Ann Criner, O.S.B., Pittsburgh, Pennsylvania

Major subject: Communication Arts.

Maureen Murphy Daly, Lockport, New York Major subject: Communication Arts.

Maryellen Darlington, Coatesville, Pennsylvania Major subject: English.

Elizabeth Mary Davis, Fox Harbour, Newfoundland, Canada

Major subject: Theology.

Sister Mark Marie Des Jarlais, Mingo Junction, Ohio Major subject: Theology (Liturgy).

Eleanor Marie Donaghue, S.S.J., Philadelphia, Pennsylvania

Major subject: English.

Patricia Ellen Donnelly, St. John's, Newfoundland, Canada

Major subject: English.

Philip Michael Dowd, New York, New York Major subject: Theology (Liturgy).

Margaret E. Doyle, C.N.D., Staten Island, New York Major subject: Communication Arts.

Debbie Anne Dudley, Findlay, Ohio Major subject: Economics.

Sister Emma Vasquez Exconde, R.C., Chicago, Illinois

Major subject: Theology (Liturgy).

Anthony Gerard Finan, St. Louis, Missouri Major subject: History.

Rita M. Fisher, Detroit, Michigan Major subject: Theology (Liturgy).

Paul Raymond Fitzgerald, F.S.C., Denver, Colorado Major subject: Theology (Liturgy).

Susan M. Fortier, R.S.M., Burlington, Vermont Major subject: Psychology.

Isabel Mary Fougere, Nova Scotia, Canada Major subject: Theology (Liturgy).

Suzanne J. Fournier, Warren, Rhode Island Major subject: English.

Sister Siena Freund, Springfield, Illinois Major subject: English.

Michaela Galles, O.S.F., Sioux City, Iowa Major subject: Theology.

Daniel Beckman Gartland, Marion, Indiana Major subject: Theology (Liturgy).

Peter Michael Ghiloni, Lexington, Massachusetts Major subject: Theology (Liturgy).

Christine Ann Gwiazdowski, Milwaukee, Wisconsin Major subject: Theology (Liturgy).

Theresa Louise Hagen, Indianapolis, Indiana Major subject: Communication Arts.

Everett Bernard Hemann, Dubuque, Iowa Major subject: Theology (Liturgy).

Peter Joseph Irving, Vancouver, B.C., Canada Major subject: Communication Arts.

Kathleen Michelle Johnson, Rockford, Illinois Major subject: Economics.

Lynn Ann Joyce, Orchard Park, New York Major subject: English.

Thomas Harold Kane, Dubuque, Iowa Major subject: Government and International Studies.

Stephanie Gail Kavouras, Lowell, Massachusetts Major subject: Psychology.

Kerry Jones MacArthur, Brainerd, Minnesota Major subject: English.

Lawrence J. Mandt, Plymouth, Indiana Major subject: Psychology. Thesis: The Effects of Structured Self-Disclosure on Group Development. Director: Dr. Thomas V. Merluzzi.

Sister Elizabeth Ann Marrie, St. John's, Newfoundland, Canada

Major subject: Theology.

Mark Bernard Mason, Kansas City, Kansas Major subject: Theology.

Rev. Robert James Matichek, Rensselaer, Indiana Major subject: Theology (Liturgy).

Marchita Bradford Mauck, Baton Rouge, Louisiana Major subject: Theology (Liturgy).

Sister Jane P. McAuliffe, DePere, Wisconsin Major subject: Theology.

Sister Kathleen Ann McDonald, Buffalo, New York Major subject: Theology (Liturgy).

Sister Maureen Meloche, C.S.J., London, Ontario, Canada

Major subject: Theology (Liturgy).

Basil Louis Merenda, Jr., Philadelphia, Pennsylvania Major subject: Economics.

James D. Muffley, F.S.C., Philadelphia, Pennsylvania Major subject: Theology (Liturgy).

Charles Paul Neises, Mishawaka, Indiana Major subject: Communication Arts.

Mary Carolyn Neist, Quincy, Illinois Major subject: Theology (Liturgy).

Daniel Charles Nelson, O.F.M., Buffalo, New York Major subject: Psychology.

Laura Elise Nelson, Maynardville, Tennessee Major subject: Theology.

Susan Marie Nichols, Statesville, North Carolina Major subject: English.

John Christopher Nuttall, West Sussex, U.K. Major subject: Theology (Liturgy).

Timothy J. O'Connor, Cleveland, Ohio Major subject: Theology (Liturgy).

Gul Rozi Pasarel, Istanbul, Turkey Major subject: Psychology.

Thomas M. Riley, Lockport, New York Major subject: English.

Thomas Christian Severino, New Rochelle, New York

Major subject: Theology (Liturgy).

Kathleen M. Shanahan, Williamsville, New York Major subject: Theology (Liturgy).

Michael Reginald Shires, Beltsville, Maryland Major subject: Psychology.

Thomas Edward Splain, S.J., Boulder Creek, California

Major subject: Theology (Liturgy).

Rev. Stephen Douglas Swenson, South Bend, Indiana

Major subject: Theology (Liturgy).

James Thomas Telthorst, St. Louis, Missouri Major subject: Theology (Liturgy).

Timothy Raymond Tracz, Amsterdam, New York Major subject: Theology.

Betty J. Vail, Nampa, Idaho Major subject: Psychology.

Robert Stephen Weyhing, Drayton Plains, Michigan Major subject: Psychology.

Robert Whiteside, Dublin, Ireland Major subject: Theology (Liturgy).

Joan A. Workmaster, Oswego, New York Major subject: Theology (Liturgy).

Merlin Ray Yoder, Mishawaka, Indiana Major subject: Theology (Liturgy).

Sister Janet Zander, O.S.B., Bismarck, North Dakota Major subject: Theology (Liturgy).

#### THE DEGREE OF MASTER OF SCIENCE ON:

Dawn Ellen (Brett) Coyle, South Bend, Indiana Major subject: Chemistry. Thesis: Collisional Energy Dependence on T-V and T-R Energy Transfer between Metastable Neon and Ground State H<sub>2</sub>O. Director: Dr. Daniel H. Winicur.

Ernesto Pedro Esteban, Lima, Peru Major subject: Physics.

Kwei-Fen Lee, Taiwan, Republic of China Major subject: Chemistry. Thesis: Transition Metal Complexes Coordinated to Polymer-Modified Surfaces. Director: Dr. Robert G. Hayes.

Mark Joseph Mamula, South Bend, Indiana Major subject: Microbiology.

Koleen Kelley Messenger, South Bend, Indiana Major subject: Biology. Thesis: Regeneration of Peripheral Nerves into the Central Nervous System. Director: Dr. Robert E. Kingsley.

Maureen Anne Monaghan Ronau, Cortland, New York

Major subject: Chemistry.

Robert Thomas Ronau, Toledo, Ohio Major subject: Chemistry. Thesis: Studies Directed Toward the Synthesis of Rhodotorulic Acid and Analog. Director: Dr. Marvin J. Miller.

## THE DEGREE OF MASTER OF SCIENCE IN AEROSPACE ENGINEERING ON:

Stephen Joseph Elsner, North Vernon, Indiana Thesis: A Critical Investigation of the Universal Strouhal Number for a Bluff Body in a Linear Shear Flow. Director: Dr. Albin A. Szewczyk.

Bernard Joseph Jansen, Jr., St. Paul, Minnesota Thesis: Experimental Studies of the Effect of the Laminar Separation Bubble on the Performance of a Naca 66<sub>3</sub>-\$\phi\$18 Airfoil at Low Reynolds Numbers. Director: Dr. Thomas J. Mueller. Robert Joseph Zehentner, Dubuque, Iowa
Thesis: An Experimental Investigation of the
Influence of Nose Bluntness on the Boundary
Layer and Side Force Characteristics of Spinning
Axi Symmetric Bodies. Director: Dr. Thomas J.
Mueller.

## THE DEGREE OF MASTER OF SCIENCE IN CHEMICAL ENGINEERING ON:

Victor Manuel Morales, Chihuahua, Mexico Thesis: Sintering Studies of Silver Catalysts Supported on Alpha Alumina. Director: Dr. Arvind Varma.

## THE DEGREE OF MASTER OF SCIENCE IN CIVIL ENGINEERING ON:

Yasser M. Abou-Aish, Cairo, Egypt
Thesis: Investigation of Spile Reinforced Tunnels
in Soft Grounds. Director: Dr. Sangchul Bang.

Adel Yhia Akl, Notre Dame, Indiana

Antoun Y. Calash, Notre Dame, Indiana Thesis: Partially Restrained Biaxially Crooked Nonsway Hollow Rectangular Steel Columns with Residual Stresses. Director: Dr. Zia Razzaq.

Catherine Christene Leser, Eau Claire, Wisconsin Thesis: Multi-Component Modeling of Groundwater Contamination by Coal Pile and Fly Ash Pond Leachate from a Coal-Fired Utility. Co-Directors: Dr. Thomas L. Theis and Dr. Aaron A. Jennings.

## THE DEGREE OF MASTER OF SCIENCE IN ELECTRICAL ENGINEERING ON:

Samir Alwan Al-Baiyat, Dharan, Saudi Arabia

Joe Paul Hill, Portage, Indiana

Thesis: Solution of Nonlinear Optimal Control Problems Using the Algebraic Tensor: An Example, Director: Dr. Michael K. Sain.

Michael Edward Larkin, Dix Hills, New York Thesis: The Coupling of Electromagnetic Waves at the Ice-Rail Interface. Director: Dr. Pratul K. Ajmera.

Nicholas Theodore Matich III, Paramus, New Jersey Thesis: The Growth of ZnSnP<sub>2</sub> by Molecular Beam Epitaxy. Director: Dr. Pratul K. Ajmera. Ram Deo Singh, Notre Dame, Indiana Thesis: Device Independent Computer Graphics Using Metafiles. Director: Dr. Eugene Henry.

THE DEGREE OF MASTER OF SCIENCE IN ENVIRONMENTAL HEALTH ENGINEERING ON:

Jayne O'Brien Kebe, Pittsburgh, Pennsylvania Thesis: Attachment and Growth Characteristics of *Thiobacillus ferrooxidans* in the Biological Treatment of Acid Mine Drainage. Director: Dr. Thomas L. Theis.

## THE DEGREE OF MASTER OF SCIENCE IN MECHANICAL ENGINEERING ON:

Kuo-Hsiao Liu, Notre Dame, Indiana Thesis: Interfacial Crack Branching of an Ice Bonded to a Substrate. Director: Dr. Nai-Chien Huang.

Pradip Sengupta, Calcutta, India
Thesis: Simulated Motion-Time Study of a Designed Welding Fixture Using Pantograph Mechanism. Director: Dr. James M. Daschbach.

## THE DEGREE OF MASTER OF SCIENCE IN ADMINISTRATION ON:

Florence Gorsky Banikiotes, South Bend, Indiana Sister Josephine A. Barnao, Remuera, Auckland, New Zealand

Suzanne Marie Bellenoit, North Arlington, New Jersey

Rev. Charles G. Bolser, Las Vegas, Nevada Randall William Bowman, New Orleans, Louisiana Sister Judy Brown, Greenwich, Connecticut Sandra Gail Bruce, Eau Claire, Michigan Karen Carifo Burleson, South Bend, Indiana Ronald P. Cairns, Metuchen, New Jersey Luis Mario Carrasco M., Panama, Republic de Panama

Bruce G. Curme, South Bend, Indiana Timothy M. Degnan, Kansas City, Missouri William M. DiBerardino, Elmira, New York Paul Francis Duffy, San Antonio, Texas Rev. Donald Stephen Essex, Washington, D.C. Grant Richard Ferris, O.S.F.S., Southgate, Michigan Patricia J. Galbraith, Newburgh, Indiana Brendan M. Glennon, Jersey City, New Jersey Rev. Val Gross, Fargo, North Dakota Sister Irene Hellman, Dubuque, Iowa Astrid E. Hotvedt, Dearborn Heights, Michigan Sister Donna Johnson, O.P., San Francisco, California

Edna Joyce Kirk, South Bend, Indiana John G. Koehler, Canton, Ohio Susan Mary Kotyk, Allen Park, Michigan Catherine Marie Kozak, South Bend, Indiana Jimmie David Lansford, Streator, Illinois Sister Mary Elizabeth Lennon, Fairfield, Connecticut

Sister John Cecelia Lent, Flourtown, Pennsylvania Dale Everett Mapes, Monclova, Ohio Michael James Mayercik, Hammond, Indiana Stephanie Ann Mayercik, Hammond, Indiana Dolly M. McDonald, South Bend, Indiana Dwight Julius McFadden, Jr., Goshen, Indiana Gloria Jean Miller, Lansing, Illinois Daniel Glenn Mohnke, South Bend, Indiana Sister Kathleen Mary Moross, Toledo, Ohio Margaret Anne Morrow, Dowagiac, Michigan Edward John Moskal, Piscataway, New Jersey Sister Rose Marie Przybylowicz, Green Springs, Ohio Rex John Rakow, South Bend, Indiana Sister Ann Margaret Savant, Houston, Texas Grace Sbrissa, C.S.J., LaGrange Park, Illinois Leslie O. Sherman, Concord, New Hampshire Rev. Theodore Francis Sirotko, Muskegon, Michigan Thomas R. Sobocinski, Hales Corners, Wisconsin John Joseph Steingraeber, Glenview, Illinois Sister Monica Marie Wickens, London, Ontario, Canada

Peter M. Winkler, Franklin, Pennsylvania Sister Linda Susan Yankoski, Pittsburgh, Pennsylvania

### The Law School

THE DEGREE OF JURIS DOCTOR ON: Constance Ann Ebert, Minneapolis, Minnesota

## The College of Arts and Letters

THE DEGREE OF BACHELOR OF ARTS ON:

Matthew Alexander Bedics, Bethlehem, Pennsylvania Susan M. Begley, Basking Ridge, New Jersey William Jeffrey Chandler, Kalamazoo, Michigan Kevin Francis Coyle, Dover, Delaware Michael Patrick Kelley, Litchfield, Illinois Cathleen Ann Magennis, Wethersfield, Connecticut Michael Joseph Marrone, Snyder, New York James David McConnell, Jr., Wall, New Jersey Kathleen Ann Meagher, Chatham, New Jersey Shaun Joseph Murray, South Bend, Indiana Patrick Michael O'Quinn, With High Honors, Baxley, Georgia

Rodolfo Luis Perez, North Hollywood, California Timothy John Prister, South Bend, Indiana Michael F. C. Thornton, Coral Gables, Florida

## The College of Science

THE DEGREE OF BACHELOR OF SCIENCE ON:

Jean Mary Gartland, Baldwin, New York Thomas James Kluegel, Phoenix, Arizona Prudencio Cuison Lucero, Sewickley, Pennsylvania Linda Ann Shanahan, Carmel, Indiana

## The College of Engineering

THE DEGREE OF BACHELOR OF ARCHITECTURE ON:

Thomas Vincent Carr, Washington, D.C. Robert Flores, El Paso, Texas Michael P. Goleski, Tulsa, Oklahoma Paul Rene Jeselnick, St. Mary's, Pennsylvania Michael Anthony Kierzkowski, Lancaster, Pennsylvania

David J. McLean, Bethel Park, Pennsylvania Brian Joseph McNichols, Milton, Wisconsin Matthew Gerald O'Brien, St. Paul, Minnesota

THE DEGREE OF BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING:

Rodolfo Luis Perez, North Hollywood, California

THE DEGREE OF BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING ON:

Sean Patrick Digan, Hyde Park, New York John Gerard Murphy, South Bend, Indiana Mark Puccinelli, Franklin Lakes, New Jersey Michael Paul Rhodes, Allentown, Pennsylvania

THE DEGREE OF BACHELOR OF SCIENCE IN ENGINEERING SCIENCE ON:

Paul Gerard Kosidowski, Wauwatosa, Wisconsin

THE DEGREE OF BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING ON:

Judith Anne Bintinger, Oak Brook, Illinois Daniel Patrick Costello, Wauwatosa, Wisconsin Patrick Lawrence Grozier, Bernardsville, New Jersey

# The College of Business Administration

THE DEGREE OF BACHELOR OF BUSINESS ADMINISTRATION ON:

John Francis Farnan, Jr., McMurray, Pennsylvania Elaine Dorothy Lack, Clarksburg, New Jersey Timothy Robert Wiley Lavender, Champaign, Illinois

Robert Louis Massaro, Waterbury, Connecticut Theodore Fred Schramm, San Diego, California David Peter Sheptock, Pittsford, New York Len J. Trevino, With High Honors, South Bend, Indiana

#### The Academic Costume Code

The history of academic dress reaches far back into the early days of the oldest universities. Academic dress finds its source chiefly in ecclesiastical wear, although mediaeval scholars tended to adopt a collegiate costume. A statute of 1321 required that all "Doctors, Licentiates and Bachelors" of the University of Coimbra (Portugal) wear gowns. Beginning with the second half of the 14th century, civilian collegiate costume was specified in various regulations of the universities. European institutions continue to show great diversity in their specifications of academic wear.

In American colleges and universities, the academic costume is prescribed by the American Council of Education, and its present form was adopted in 1932. The first suggestion for a uniform code was made in May, 1895, following an educational conference at Columbia University. In 1902, the Intercollegiate Bureau of Academic Costumes was created. It codified the 1895 rules and its legal firm serves as a clearinghouse and "repository" for official university and college colors, costumes and insignia.

The present academic dress consists of gown, hood and cap with the pattern and trimmings listed below. Exceptions have been granted to specific universities upon request.

GOWNS: Black cotton with long pointed sleeves for the Bachelor's Degree, long closed sleeves (with a slit for the arms) for the Master's Degree, and bell-shaped open sleeves for the Doctor's Degree. The Bachelor's and Master's gowns do not have trimmings. The Doctor's gown is faced down the front with black velvet and there are three bars of velvet across the sleeves.

HOODS: Black in all cases. For the Master's it is three and one-half feet long and closed at the end. The Doctor's hood is four feet long with panels at the sides. All hoods are lined with the official color or colors of the college or university which conferred the highest degree. The edging of the hood is velvet and three inches and five inches in width for the Master's and Doctor's degrees, respectively, while its color is distinctive of the subject field.

CAPS: Black cotton and stiffened into the so-called mortarboard style. Each cap has a long tassel fastened to the middle point of the top of the cap. The tassel color denotes the subject field. The Doctor's cap may have a tassel of gold thread. University administrators may also have a tassel of gold thread.

#### Subject Field Colors Used on Hoods and Caps

Arts and Letters	White
Business Administration and Account	
Economics	
Education	
Engineering	
Fine Arts, including Architecture.	
Law	
Library Science	
Music	
Philosophy	Dark Blue
Physical Education	Sage Green
Science	•
Theology	Scarlet
Humanities	Crimson

## Old Gold and Royal Blue in Hood Denotes a Notre Dame Degree

