

*The University of Notre Dame*  
*1982 Commencement*



*August 6*

OFFICIAL

*The University of Notre Dame*  
*1982 Commencement*



*August 6*

Events of the Day

## 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

- Canzona Per Sonare No. II*.....Gabrielli
- Two Ayres*.....Adson
- Two Pieces*.....Holborne

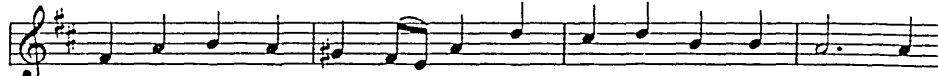
#### OPENING HYMN

#### Crown Him With Many Crowns

text: Matthew Bridges  
 Godfrey Thring  
 tune: George Job Elvey



- 1. Crown him with man y crowns, The Lamb up - on his throne; Hark!
- 2. Crown him the Son of God Be - fore all worlds be - gan: And
- 3. Crown him, the Lord of peace, Whose pow'r a scep - ter sways From
- 4. Crown him the Lord of life, Who tri - umphed o'er the grave, And



- 1. how the heav'n - ly an - them.drowns All mu - sic but its own: A -
- 2. you who tread where he has\_ trod Crown him the Son of man; Who
- 3. pole to pole, that wars may\_ cease Ab - sorbed in prayer and praise: His
- 4. rose vic - to - rious in the\_ strife For those he came to save: All



- 1. wake, my soul, and sing, He died to set us free; Now
- 2. ev - 'ry grief has known That wrings the hu - man breast, And
- 3. reign shall know no end, And round his pierc - ed feet Fair
- 4. hail, Re - deem - er, hail! For you have died for me; Your



- 1. hail him as your glo - rious king Through all e - ter - ni - ty.
- 2. takes and bears them for his own That all in him may rest.
- 3. flow'rs of par - a - dise ex - tend Their fra - grance ev - er sweet.
- 4. praise shall nev - er, nev - er fail Through - out e - ter - ni - ty.

#### GREETING + PENITENTIAL RITE

#### OPENING PRAYER

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# Liturgy of the Word

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**FIRST READING**

Dn. 7:9-10,13-14

*His raiment was as white as snow.*

**RESPONSORIAL PSALM**

Psalm 97

H. Hamilton Smith



The Lord is king, the most high o-ver all the earth.

**SECOND READING**

2 Pt. 1:16-19

*We heard this voice from out of heaven.*

**GOSPEL ACCLAMATION**

Richard Proulx



Al - le - lu - ia, al - le - lu - ia,



al - le - lu - ia, al - le - lu - ia, al - le - lu - ia. —

**GOSPEL**

Mark 9:2-10

*This is my Son, my beloved.*

**HOMILY**

**GENERAL INTERCESSIONS**

*Response: Lord, hear our prayer*

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# Liturgy of the Eucharist

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## PREPARATION RITE

*Pavane* ..... Byrd  
*Fantasia* ..... Boyce

## PRAYER OVER THE GIFTS

### Eucharistic Prayer

#### PREFACE + SANCTUS

R. Proulx

Ho - ly, 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 -  
til you come in glo - ry, un - til you come in glo - ry.

GREAT AMEN

R. Proulx

A - - - men, both now and for-  
ev-er. A - - - men. A - - - men. A - men.

Communion Rite

LORD'S PRAYER + DOXOLOGY

SIGN OF PEACE

AGNUS DEI

R. Proulx

1.2. Lamb of God, you take a - way the sins of the  
world: have\_ mer - cy on us. 3. Lamb of God, you take a - way the  
sins of the world: grant\_ us\_ peace, grant\_ us\_ peace.\_

COMMUNION PROCESSION Gift of Finest Wheat

O. Westendorf & R. Kreutz

You sat - is - fy the hun - gry heart With  
gift of fin - est wheat; Come, give to us, O  
sav - ing Lord, The bread of life to eat.

PRAYER AFTER COMMUNION



# Closing Rite

## BLESSING + DISMISSAL

### CLOSING HYMN

#### At the Name of Jesus

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

1 At the name of Je - sus Ev - 'ry knee shall bow,  
2 At his voice cre - a - tion Sprang at once to sight,  
3 Hum-bled for a sea - son, To re - ceive a name  
4 Bore it up tri - um - phant With its hu - man light,

Ev - 'ry tongue con - fess him King of glo - ry now,  
All the an - gel fac - es, All the hosts of light,  
From the lips of sin - ners Un - to whom he came,  
Through all ranks of crea - tures To the cen - tral height,

'Tis the Fa - ther's plea - sure We should call him Lord,  
Thrones and dom - i - na - tions, Stars up - on their way,  
Faith - ful - ly he bore it Spot-less to the last;  
To the throne of God - head. To the Fa - ther's breast:

Who from the be - gin - ning Was the might - y Word.  
All the heav'n - ly or - ders In their great ar - ray,  
Brought it back vic - to - rious When from death he passed:  
Filled it with the glo - ry Of that per - fect rest.

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 Bankelsangerlieder* ..... Anon.

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# *One Hundred Thirty Seventh Commencement 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  
Dame:  
And our hearts forever love thee, Notre  
Dame.*

### Recessional of the Platform Party

*\*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  $^{12}\text{C} + ^{20}\text{Ne}$ ,  $^{14}\text{N} + ^{14}\text{N}$  and  $^{14}\text{N} + ^{10}\text{B}$  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: Photo-periodic 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: Multi-national 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.

Graduate School

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, Burner, 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.

Graduate School

- 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>-φ18 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 Axisymmetric 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 De-  
 signed Welding Fixture Using Pantograph Mech-  
 anism. 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, Connect-  
 icut

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, Pennsyl-  
 vania



## 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 Binting, 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

## Academic Costume Code

### 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, Licentiate 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 Accountancy .....	Drab
Economics .....	Copper
Education .....	Light Blue
Engineering .....	Orange
Fine Arts, including Architecture .....	Brown
Law .....	Purple
Library Science .....	Lemon Yellow
Music .....	Pink
Philosophy .....	Dark Blue
Physical Education .....	Sage Green
Science .....	Golden Yellow
Theology .....	Scarlet
Humanities .....	Crimson

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

