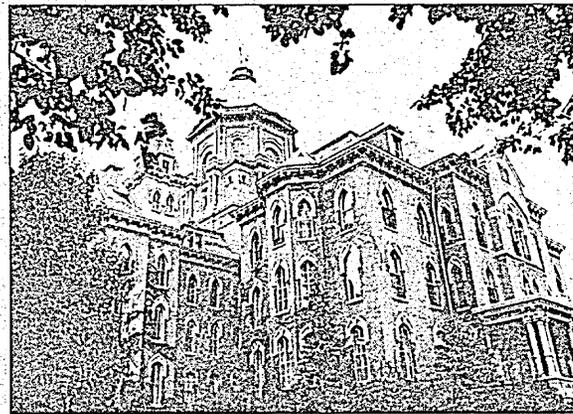


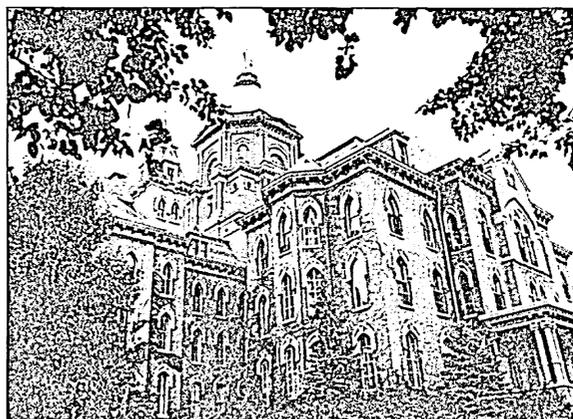
The
University of
Notre
Dame
1981



Commencement
August 7

OFFICIAL

The
University of
Notre
Dame
1981



Commencement
August 7

Events of the Day

Events of the Day

Friday, August 7, 1981

BACCALAUREATE MASS

8:35 a.m. Graduates 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

Presiding Celebrant and Homilist:
Rev. David T. Tyson, C.S.C.

Concelebrants:

Priests who will receive degrees at the August 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 assemble in Athletic and Convocation Center—Auxiliary Gym (located between Gates 1 and 2)

10:50 a.m. Academic Procession begins

11:00 a.m. Commencement Exercises — Conferral of Degrees — Athletic and Convocation Center, Concourse

Commencement Address:

Frederick J. Crosson, Ph.D.
John Cardinal O'Hara Professor of
Philosophy

(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 7, 1981

Presiding Celebrant
Rev. David T. Tyson, C.S.C.

Concelebrants
Priests who will receive degrees
at the August Commencement Exercises,
priest members of the faculty,
priest members of the Congregation of Holy Cross

MUSIC MINISTERS:

Organist
Mr. Paul Skevington

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

Opening Rites

PRE-SERVICE MUSIC

- Quintett in B Moll* Ewald
Canzona Bergamasca Scheidt
Contrapunctus I Bach

PROCESSIONAL

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

ENTRANCE HYMN

Praise the Lord, O Heavens

1,2: Foundling Hospital Collection
3: E. Osler

R. H. Prichard



1. Praise the Lord, O heav'ns, a - dore him; Praise him, an - gels in the height;
2. Praise the Lord, for he is glo - rious, Nev - er shall his prom - ise fail;
3. Wor - ship, hon - or, glo - ry, bless - ing, Lord, we of - fer un - to thee;



1. Sun and moon, re - joice be - fore him; Praise him, all ye stars of light.
2. God has made his saints vic - to - rious Sin and death shall not pre - vail.
3. Young and old, thy praise ex - press - ing, In glad hom - age bend the knee.



1. Praise the Lord, for he has spo - ken; Worlds his might - y voice o - beyed;
2. Praise the God of our sal - va - tion; Hosts on high, his power pro - claim;
3. All the saints in heav'n a - dore thee, We would bow be - fore thy throne;



1. Laws which nev - er shall be bro - ken, For their guid - ance he has made.
2. Heav'n and earth and all cre - a - tion, Praise and mag - ni - fy his name.
3. As thine an - gels serve be - fore thee, So on earth thy will be done.

GREETING + PENITENTIAL RITE

OPENING PRAYER



Liturgy of the Word

FIRST READING

Dt. 4:32-40

*The Lord God loved your ancestors
and chose their descendants after them.*

RESPONSORIAL PSALM

Psalm 89

J. R. Carroll



For ev - er I will sing the good - ness of the Lord.

GOSPEL ACCLAMATION

D. C. Isele



Al - le - lu - ia, Al - le - lu - ia, Al - le - lu - ia, Al - le - lu - ia.

GOSPEL

Matthew 16:24-28

*What can a person give in
exchange for his life?*

HOMILY

GENERAL INTERCESSIONS

Response: Lord, hear our prayer



Liturgy of the Eucharist

PREPARATION OF THE GIFTS

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



When we eat this bread and drink this cup,

R. Proulx



we pro-claim your death Lord Je-sus, un-til you come in glo-ry.

GREAT AMEN

A - - - -men, A - - - -men.
A - - - - -men A - - - - -men

Communion Rite

LORD'S PRAYER + SIGN OF PEACE

BREAKING OF THE BREAD + LAMB OF GOD

Cantor: *Lamb of God*

D. C. Isele

You take a - way the sins of the world, have mer - cy on us.

When the cantor and choir repeat Lamb of God . . . sins of the world, please sing:

Grant us peace.

COMMUNION

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.

POSTCOMMUNION PRAYER

Closing Rite

BLESSING + DISMISSAL

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.*

CLOSING HYMN

All Creatures of Our God and King

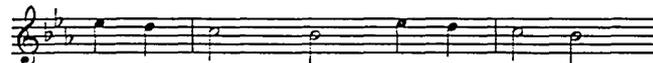
text: Francis of Assisi
Tr. Wm. H. Draper
tune: Geistliche Kirchengesänge



1. All crea - tures of our God and King,
2. O rush - ing wind and breez - es soft



Lift up your voice with us and sing:
O clouds that ride the winds a - loft:



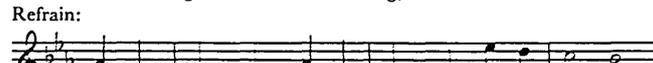
Al - le - lu - ia, Al - le - lu - ia!
Oh, praise Him! Al - le - lu - ia!



O burn - ing sun with gold - en beam
O ris - ing morn, in praise re - joice,

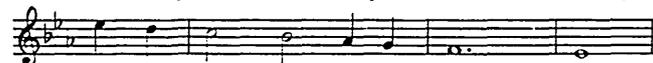


And sil - ver moon with soft - er gleam:
O lights of eve - ning, find a voice.



Refrain:

Oh, praise Him! Oh, praise Him! Al - le - lu - ia,



Al - le - lu - ia, Al - le - lu - ia!

- | | |
|--|--|
| 3. O flowing waters, pure and clear,
Make music for your Lord to hear.
Oh, . . . praise him! Alleluia!
O fire so masterful and bright,
Providing us with warmth and light,
Oh, praise him! Oh, praise him!
Alleluia, alleluia, alleluia, | 4. Let all things their Creator bless
And worship God in humbleness.
Oh, praise him! Alleluia!
Oh, praise the Father, praise the Son,
And praise the Spirit, Three in One,
Oh, praise him! Oh, praise him!
Alleluia, alleluia, alleluia! |
|--|--|

Copyright Information

G.I.A.: Psalm response, "Forever I will sing," from *Worship II* by J. R. Carroll;
Gospel acclamation from "The Notre Dame Mass" by D.C. Isele;
Sanctus from "The Community Mass" by R. Proulx;
Memorial acclamation and Great Amen from "A Festival Eucharist" by R. Proulx;
Agnus Dei from "The Holy Cross Mass" by D.C. Isele
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Eucharist Congress, Inc., Philadelphia, Pa., 1976

One Hundred Thirty Sixth 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 7, 1981

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.*

Presentation of Candidates for Degrees

by Chau T. M. Le, Ph.D.
Assistant Vice President for Advanced
Studies: Instruction

by Isabel Charles, Ph.D.
Dean of the College of Arts and Letters

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

by Roger A. Schmitz, Ph.D.
Dean of the College of
Engineering

by Edward R. Trubac, Ph.D.
Director of Institutional
Administration Program

The Conferral of Degrees

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

Commencement Address

Frederick J. Crosson, Ph.D.
John Cardinal O'Hara
Professor of Philosophy

Closing Remarks

Vice President for Advanced Studies

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

In the Graduate School

THE UNIVERSITY OF NOTRE DAME
CONFERS THE FOLLOWING DEGREES
IN COURSE:

THE DEGREE OF DOCTOR OF
PHILOSOPHY ON:

Michael Bjercknes Aune, Bucyrus, North Dakota
Major subject: Theology. Dissertation: Doctrines and Doxology: Toward a Creative Balance in American Lutheran Liturgical Theology and Practice, 1946-1976. Director: Dr. Edward Kilmartin, S.J.

Kenneth Frank Bartizal, Jr., North Riverside, Illinois
Major subject: Microbiology. Dissertation: The Gnotobiotic Gerbil as an Animal Model for Cholesterol and Bile Acid Metabolism. Director: Dr. Bernard S. Wostmann.

Kathryn Larsen Burgio, Northfield, Vermont
Major subject: Psychology. Dissertation: The Effects of Self-Focused Attention and Performance Expectancies on Social Interaction. Director: Dr. Thomas V. Merluzzi.

Carol Beth Finkel, Cherry Hill, New Jersey
Major subject: Psychology. Dissertation: Cognitive Processing of Affectively-Toned Adjectives in Depression. Director: Dr. Thomas V. Merluzzi.

Ghassan Mahmoud Fawzi Hamad, Riyad, Saudi Arabia
Major subject: Mechanical Engineering. Dissertation: Sound Generated in a Cascade of Airfoils by Three-Dimensional Disturbances Convected in a Subsonic Flow. Director: Dr. Hafiz Atassi.

Fun-Gau Ho, Taiwan, Republic of China
Major subject: Chemical Engineering. Dissertation: Diffusive Mass Transport in Porous Medium. Director: Dr. William C. Strieder.

Michaeleen Buczek Kelly, Grand Rapids, Michigan
Major subject: Philosophy. Dissertation: Moral Responsibility and Punishment. Director: Dr. James P. Sterba.

Phillip Gregory Mattingly, Louisville, Kentucky
Major subject: Chemistry. Dissertation: The Synthesis of 2-Azetidinones from O-Substituted Hydromates: A Synthesis of 3-Aminonocardinic Acid. Director: Dr. Marvin J. Miller

Michael James McGinniss, Wheaton, Maryland
Major subject: Theology. Dissertation: The Appropriation of New Theology by the Laity: A Pastoral-Theological Case Study of a Renewal Program in St. Victor Parish. Director: Dr. William Storey.

Michael F. McLean, Notre Dame, Indiana
Major subject: Philosophy. Dissertation: An Exposition and Defense of St. Thomas Aquinas' Account of the Rational Justification of Religious Belief. Director: Dr. Gary Gutting.

Graduate School

William Schaffner Miller, Claymont, Delaware
Major subject: Government and International Studies. Dissertation: An Evaluation of the Legal Philosophies of Lon Fuller and Jerome Hall as Responses to Legal Positivism. Director: Dr. Gerhart Niemeyer.

Douglas Allen Norris, Jr., Bay Village, Ohio
Major subject: Mathematics. Dissertation: Isometries Homotopic to the Identity on Manifolds of Negative Curvature. Director: Dr. Alan Howard.

Kathleen B. O'Gorman, Scranton, Pennsylvania
Major subject: English. Dissertation: Phenomenology of Perception in the Early Poetry of Charles Tomlinson. Director: Dr. John E. Matthias.

Arun Keshav Pande, Yavatmal, India
Major subject: Electrical Engineering. Dissertation: New Approach to Speech Digitization Combining Time Domain Harmonic Scaling and Adaptive Residual Coding. Director: Dr. James L. Melsa.

Kevin Michael Pernicano, Broomall, Pennsylvania
Major subject: Psychology. Dissertation: Relationship of Sex and Complexity to Vocational Maturity Measures and Vocational Choice. Director: Dr. Willis E. Bartlett.

Pamela Lynn Plouhar, South Bend, Indiana
Major subject: Chemistry. Dissertation: Modulation by Phospholipids of Dolichol Pyrophosphate N-acetylglucosamine Synthesis in Rat Lung Membranes. Director: Dr. Roger K. Bretthauer.

Stephen Rozak, Philadelphia, Pennsylvania
Major subject: Physics. Dissertation: Recoil Distance Lifetime Measurements of the Nuclei ^{146}Sm and ^{147}Eu , Using (HI, xn γ) Reactions. Co-Directors: Dr. John W. Mihelich and Dr. Emerson G. Funk.

Georgia Theofan, Brooklyn, New York
Major subject: Biology. Dissertation: The *In Vitro* Synthesis of Final Maturational Steroids by Ovaries of Brook Trout (*Salvelinus fontinalis*) and Yellow Perch (*Perca flavescens*). Director: Dr. Frederick W. Goetz.

Michael Warren Williams, Washington, D.C.
Major subject: Sociology and Anthropology. Dissertation: The Relationship between Nkrumahism and Twentieth Century Leftist Thought in the African World. Director: Dr. Joseph W. Scott.

THE DEGREE OF MASTER
OF MUSIC ON:

Jeanne E. Gnecco, Michigan City, Indiana

THE DEGREE OF MASTER OF ARTS ON:

- John Edward Ambrose, Mississauga, Ontario,
Canada
Major subject: Theology (Liturgy).
- Harry Lawrence Anderson, Duluth, Minnesota
Major subject: Theology.
- Mary Jo Baldus, R.S.M., Cedar Rapids, Iowa
Major subject: Theology (Liturgy).
- Arlene Bennett, R.S.M., Detroit, Michigan
Major subject: Theology (Liturgy).
- Eleanor M. Bernstein, C.S.J., New Orleans,
Louisiana
Major subject: Theology (Liturgy).
- Nicholas George Brogno, Hazleton, Pennsylvania
Major subject: Theology.
- Michael Anthony Brown, Laurel, Montana
Major subject: Philosophy. Thesis: Contra
the Metaphors of Semantical Contact and
Rational Compulsion. Director: Dr. William
David Solomon.
- William Kent Burtner, O.P., Santa Fe, New
Mexico
Major subject: Theology (Liturgy).
- Jean C. Campbell, O.S.H., New York, New York
Major subject: Theology (Liturgy).
- Mark J. Cavanaugh, C.F.C., Rochester, New
York
Major subject: Sociology and Anthropology.
- Mark Timothy Chock, Glenview, Illinois
Major subject: Counseling Psychology.
- Domenic Leo Cieri, Jr., Baltimore, Maryland
Major subject: Theology (Liturgy).

- Charles Michael Comiskey, Connellsville,
Pennsylvania
Major subject: Economics.
- Richard Francis Cousins, C.S.C., Alexandria,
Virginia
Major subject: Theology.
- Paul Francis Covino, Shrewsbury, Massachusetts
Major subject: Theology (Liturgy). Thesis:
The Question of Infant Baptism in the Ameri-
can Catholic Church: 1965-1980. Director:
Dr. Mark Searle.
- John Patrick Cruitt, Jersey City, New Jersey
Major subject: English.
- Diane V. DesBois, Gardner, Massachusetts
Major subject: Theology (Liturgy).
- Sister Christine DeVinne, O.S.U., Cleveland,
Ohio
Major subject: English.
- Michael Anthony Diaz, Amarillo, Texas
Major subject: English.
- Mary K. Dutko, S.S.J., Chicopee, Massachusetts
Major subject: Theology (Liturgy).
- Alicia Anne Finn, Lynbrook, New York
Major subject: Psychology. Thesis: Learned
Helplessness: An Extension. Director: Dr.
Carroll W. Tageson.
- Sheila May Finnerty, Ottawa, Ontario, Canada
Major subject: Theology (Liturgy).
- James Lloyd Gates, Jr., Apopka, Florida
Major subject: Government and International
Studies.

Graduate School

- Rev. Robert Harrison Glass, C.S.B., Albuquerque,
New Mexico
Major subject: History.
- Sister Donna Graham, Cincinnati, Ohio
Major subject: Theology.
- Jaculyn Collins Hanrahan, Stamford, Connecticut
Major subject: Theology (Liturgy).
- Kenneth James Hedrick, New Orleans, Louisiana
Major subject: Theology (Liturgy). Thesis:
The Ordination Prayers of the *Apostolic Tradition*
and of the Early Roman Sacramentaries:
A Comparative Study. Director: Dr. Mark
Searle.
- Scott Alan Hickey, South Bend, Indiana
Major subject: Counseling Psychology.
- Michael Anthony Huck, Methuen, Massachusetts
Major subject: English.
- Robert Martin Hutmacher, O.F.M., Chicago,
Illinois
Major subject: Theology (Liturgy).
- Sister Mary Therese Johnson, O.P., Chicago,
Illinois
Major subject: Theology (Liturgy).
- Charles P. Jumonville, Lafayette, Louisiana
Major subject: Theology.
- Mary M. Kelley, S.S.J., Wilmington, Delaware
Major subject: History.
- Jeffrey Michael Kemper, Cincinnati, Ohio
Major subject: Theology (Liturgy).
- Thomas Peter King, C.S.C., Notre Dame,
Indiana
Major subject: History.
- Veronica Koperski, Detroit, Michigan
Major subject: Theology.
- Theodore Alfred Kowar, Jr., Newington,
Connecticut
Major subject: Theology (Liturgy).
- John Andrew Kroncke, Berrien Springs, Michigan
Major subject: Counseling Psychology.
- Scott Wesley Kunka, Monessen, Pennsylvania
Major subject: Government and International
Studies.
- Frank A. LaGrotta, Ellwood City, Pennsylvania
Major subject: Communication Arts.
- Maureen P. Lambe, Weymouth,
Massachusetts
Major subject: Communication Arts.
- Edmund Oliver Lawler, Phoenix, Arizona
Major subject: Government and International
Studies.
- Barbara Christine Lonnquist, S.S.J., Bethlehem,
Pennsylvania
Major subject: English.
- Mary A. Lynch, S.S.J., High Point, North
Carolina
Major subject: Theology (Liturgy).
- Mary Ann Marguerite Maradik, Cudahy,
Wisconsin
Major subject: Theology (Liturgy).
- Agnes Marini, Pittsford, New York
Major subject: Counseling Psychology.
- Timothy Charles McFadden, Medford, New
Jersey
Major subject: Counseling Psychology.
- Timothy Michael McKeogh, Chagrin Falls, Ohio
Major subject: Communication Arts.
- Delouise Jane Menges, Cincinnati, Ohio
Major subject: English.
- Marie A. Miller, South Bend, Indiana
Major subject: English.
- Ronald Ralph Milligan, Dearborn, Michigan
Major subject: Theology (Liturgy).
- Margaret Ann Mitchell, Cincinnati, Ohio
Major subject: English.

- Carlos Enrique Moreno M, Colombia, South America
Major subject: Economics.
- Robert Matthew Mundy, Tamaqua, Pennsylvania
Major subject: Government and International Studies.
- Martha Anne Munsell, Waterford, Connecticut
Major subject: English.
- Helen Elizabeth Naylor, Seaford, Delaware
Major subject: Counseling Psychology.
- Rev. Raymond Joseph Novak, Oak Park, Illinois
Major subject: English.
- John F. O'Connor, Chapel Hill, North Carolina
Major subject: Theology (Liturgy).
- Marianne O'Malley, S.S.J., Washington, D.C.
Major subject: English.
- Susan Ann O'Rourke, Somerset, Massachusetts
Major subject: English.
- James Raymond Osendorf, Camarillo, California
Major subject: Theology (Liturgy).
- S. Maria Goretti Pino, S.S.J., Philadelphia, Pennsylvania
Major subject: Theology (Liturgy).
- Fidelis E. Portuondo, O.S.B., Saint Leo, Florida
Major subject: Theology (Liturgy).
- Sister Patricia Rinn, Chicago, Illinois
Major subject: Theology (Liturgy).
- Jacquelyn Jean Rivas, McLean, Virginia
Major subject: Economics.
- Timothy John Roemer, Mishawaka, Indiana
Major subject: Government and International Studies.
- Constance Mary Rousseau, Westport, Massachusetts
Major subject: History.
- Ricardo Arturo Samaniego, El Paso, Texas
Major subject: Economics.
- Thomas Allen Saporito, Warren, Pennsylvania
Major subject: History.
- John Benten Scarano, Mountaintop, Pennsylvania
Major subject: Theology.
- Karen Anne Schwarz, Burlingame, California
Major subject: Counseling Psychology.
- Sister Sheila Shea, Sylvania, Ohio
Major subject: Communication Arts.
- Kathy Melinda Shellogg, Poland, Ohio
Major subject: Counseling Psychology.
- Thomas Gerald Simons, Grand Rapids, Michigan
Major subject: Theology (Liturgy).
- Karen Sue Smith, Phoenix, Arizona
Major subject: Theology (Liturgy).
- Rev. David Alexander Stachurski, Rensselaer, New York
Major subject: Theology (Liturgy).
- Laura Ann Stanko, Oxford, Connecticut
Major subject: Theology.
- Sister Patricia J. Thomas, O.P., Columbus, Ohio
Major subject: English.
- Paul Joseph Tracey, Janesville, Wisconsin
Major subject: Theology.
- John Michael Ulrich, Atlanta, Georgia
Major subject: Theology.
- Cynthia Elizabeth Urda, Stamford, Connecticut
Major subject: Government and International Studies.
- Alice Marie Vargas, Kansas City, Missouri
Major subject: Psychology. Thesis: The Effects of Physical Attractiveness and Counseling Skills on Therapy. Director: Dr. John G. Borkowski.
- John Earl Wagner, Tinley Park, Illinois
Major subject: English.
- Tim Joseph Watts, Chanute, Kansas
Major subject: History.
- Renée Louise Wauters, Wheeling, Illinois
Major subject: Communication Arts.
- Judith Ann Zielinski, O.S.F., Sylvania, Ohio
Major subject: Communication Arts.

THE DEGREE OF MASTER
OF SCIENCE ON:

Peter Francis Heid, Erie, Pennsylvania

Major subject: Chemistry. Thesis: A Study of the Chemoselectivities and Relative Reactivities in the Cycloaddition Reactions of Allenes with N-Phenylmaleimide and Tetraphenylcyclopentadienone. Director: Dr. Daniel J. Pasto.

Francis Joseph Timmers, Kaukauna, Wisconsin

Major subject: Chemistry. Thesis: The Reactions of Biscyclopentadienyl Niobium and Tantalum Trihydrides with Manganese Carbonyl Compounds. Director: Dr. Jay A. Labinger.

Albert Paul Tomchanev, Glenwood, Illinois

Major subject: Biology. Thesis: The Purification and Characterization of a Thermal Hysteresis Protein from the Larva of *Tenebrio molitor*. Director: Dr. John G. Duman.

THE DEGREE OF MASTER OF SCIENCE
IN AEROSPACE ENGINEERING ON:

Francis Michael Payne, Montclair, New Jersey

Thesis: An Experimental Investigation of the Influence of Vertical Wind Shear on the Aerodynamic Characteristics of an Airfoil. Director: Dr. Robert C. Nelson.

THE DEGREE OF MASTER OF SCIENCE
IN CHEMICAL ENGINEERING ON:

Luis Alberto Amestica, San Vicente De Tagua Tagua, Chile

Mayank Raman Patel, Bombay, India

David Lee Ramsey, Rantoul, Illinois

Luis Frias Razon, Manila, Philippines

THE DEGREE OF MASTER OF SCIENCE
IN CIVIL ENGINEERING ON:

Jin-Gio Chang, Kaohsiung, Taiwan, R.O.C.

Thesis: Minor Axis Behavior of Partially Restrained Nonsway Imperfect Steel Columns. Director: Dr. Zia Razzaq.

THE DEGREE OF MASTER OF SCIENCE
IN ELECTRICAL ENGINEERING ON:

Shekhar Yeshwant Borkar, Andheri, Bombay, India

Thesis: Microcomputer Control of the Raman Spectrometer. Director: Dr. Eugene W. Henry.

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

Mary Anne Pleasants Lowndes, Middleton, Wisconsin

Thesis: The Use of a Glucose-Fed Sequencing Batch Reactor as a Research Tool. Director: Dr. Robert L. Irvine.

Lawrence Eugene Padgett, Loogootee, Indiana

Thesis: Factors Affecting the Concentration of Heavy Metals in Municipal Sludge Ash Leachate. Director: Dr. Thomas L. Theis.

Carl Joseph Wierdak, Chicago, Illinois

Thesis: CASBRA—A Computer Program for Sequencing Batch Reactor Wastewater Treatment Facilities Analysis. Director: Dr. Robert L. Irvine.

THE DEGREE OF MASTER OF SCIENCE
IN MECHANICAL ENGINEERING ON:

James Cahir, Mahwah, New Jersey

Thesis: Vaporization of Liquid Fuel Spheres with and without Diffusional Combustion under Free Convective and Radiative Heating. Director: Dr. A. Murty Kanury.

THE DEGREE OF MASTER OF SCIENCE
IN METALLURGICAL ENGINEERING
AND MATERIALS SCIENCE ON:

James Lee Hoffman, Granger, Indiana

THE DEGREE OF MASTER OF SCIENCE
IN ADMINISTRATION ON:

Martha Ann Abshire, Lafayette, Louisiana
Michael Richard Apa, Ithaca, New York
Sister Catherine Marie Austin, Bayonne, New Jersey
Gaither Emmanuel Bailey, South Bend, Indiana
Richard Bishop, Lynn, Massachusetts
Sister Martinelle Bonnell, Clinton, Iowa
Walter Duane Bowman, South Bend, Indiana
Robert Norris Cathcart, Portland, Michigan
James J. Close, Chicago, Illinois
Sister Lisbeth Cruz, O.S.B., Bristow, Virginia
Mary Colleen Drews, Knox, Indiana
Brother William Francisco Drury, C.S.C., Portland, Oregon
Sister M. Sylvia Egan, Tulsa, Oklahoma
Sister Eleanor Marie Ellis, Buffalo, New York
Kenneth Robert Emery, Elmira, New York
Sister Juanita Marie Gonzales, Mount St. Joseph, Ohio
Dorothy M. Harkin, Philadelphia, Pennsylvania
Ann Patrice Helmen, South Bend, Indiana
Sister Margaret Horney, O.S.F., Oldenburg, Indiana
Elizabeth M. Horton, Hebron, Connecticut
Lois E. Jackson, Birmingham, Michigan

Sister Susan Knutson, O.S.F., Little Falls, Minnesota
Sister Marianna Kosior, O.S.F., Springfield, Illinois
Sister Joan Krajewski, O.P., Adrian, Michigan
Sister Dorothy Marie Langlois, C.S.C., South Bend, Indiana
Sister Therese E. LeGros, Littleton, New Hampshire
Rosalie L. Martin, El Paso, Texas
G. James Miller, Cumberland, Maryland
Sister M. Bonaventure Moschenross, Colorado Springs, Colorado
Sister Eileen Bridget Murphy, S.S.J., Holyoke, Massachusetts
Carol Idilia Nelson-Douglas, South Bend, Indiana
Curtis J. Nielsen, Brainerd, Minnesota
Sister Marilyn Oliver, O.S.F., Mishawaka, Indiana
Sister Josephine Paolinelli, S.P., Chicago, Illinois
Sister Regina Pellegrini, Washington, D.C.
Howard H. Peterson, Tulsa, Oklahoma
Rev. Dane Joseph Radecki, O. Praem., Green Bay, Wisconsin
Blaine B. Rader, Battle Creek, Michigan
Vera Roberts, Frobisher Bay, Northwest Territories, Canada
Danny Ray Setliff, Danville, Virginia
Charlene P. Smydra, Notre Dame, Indiana
Sister M. Raphael Stewart, Yoakum, Texas
Sister Danielle Sullivan, S.P., Quincy, Massachusetts
Ellen L. Syburg, Evanston, Illinois
Stuart James Thomas, Elkhart, Indiana
Sister Beatrice Tom, Honolulu, Hawaii
Sister Anne Patricia Toner, S.S.J., Winston-Salem, North Carolina
Roy Carleton Tufts, Jr., South Bend, Indiana
Brother Richard Charles Villa, S.M., Fort Worth, Texas
Sister Patricia Anne Weldon, O.S.F., Clinton, Iowa
Sister Helen Jane Winterson, R.S.M., Omaha, Nebraska

The Law School

THE DEGREE OF JURIS DOCTOR ON:
James Carl Polk, Los Angeles, California

The College of Arts And Letters

THE DEGREE OF BACHELOR OF
ARTS ON:

Thomas P. Bland, South Bend, Indiana
Thomas Alexander Byszewski, South Bend,
Indiana
Brian Joseph Corrigan, Westlake, Ohio
Rocco Joseph deGrasse, Park Ridge, Illinois
Debbie Ann Donnelly, Red Bank, New Jersey
Christopher John Groll, Freehold, New Jersey
Robert Allen Hanes, Charlotte, North Carolina
Richard William Lamping, Pittsburgh,
Pennsylvania
Paul Barry Mullaney, Highland, Indiana
Ronald Newrones, Jr., Cleveland, Ohio
Thomas Gerard Reitz, Wantagh, New York
Brian Joseph Reynolds, Chicago, Illinois
Mark E. Rust, Greensburg, Indiana
James Theodore Szumski, South Bend, Indiana
John David Thurston, Fairfield, Connecticut
Arthur Stephen Tobin, Quincy, Massachusetts
Andrew James Zwerneman, South Bend, Indiana

The College of Science

THE DEGREE OF BACHELOR OF
SCIENCE ON:

Joel Anthony Annable, South Bend, Indiana
Timothy Michael Shannon, Youngstown, Ohio
Leo Brian Skrypkun, Evergreen Park, Illinois
Michael Joseph Tuohy, Bloomington, Minnesota
M. Robin Yaeckel, Webster, New York

The College of Engineering

THE DEGREE OF BACHELOR
OF ARCHITECTURE ON:

Mark Joseph Kitchen, South Charleston, Ohio
Joseph Charles LaVigne, Rochester, New York
Donald Laurence Leone, Jr., Riverside, Illinois
Michael Anthony MacDonald, Medfield,
Massachusetts
S. Allan Morris, Grand Prairie, Texas
Edward Guy Ouellette, Lexington, Kentucky
Brendan Bartholomew Taylor, Cumberland,
Maryland

THE DEGREE OF BACHELOR OF SCIENCE
IN CIVIL ENGINEERING ON:

William Gerard Cunniff, Quincy, Massachusetts

The College of Business Administration

THE DEGREE OF BACHELOR OF
BUSINESS ADMINISTRATION ON:

James Henry Castellini, Cincinnati, Ohio

Michael James Courey, Sioux City, Iowa

Brian John Delaney, White Bear Lake,
Minnesota

Kevin Scott Humphreys, Green Bay, Wisconsin

John Patrick Komora, South Bend, Indiana

Richard A. Latta, *With High Honors*, Wauwa-
tosa, Wisconsin

Karen Rene Noakes, Marlow Heights, Maryland

Gregory Simon Ramah, St. Petersburg, Florida

Jeffrey Brian Stieglitz, *With 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, 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 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

