

8-3-1990

145th University of Notre Dame Commencement and Mass Program

University of Notre Dame

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The University of

Notre Dame du Lac

1990 Commencement

August 3



OFFICIAL

The University of

Notre Dame du Lac

1990 Commencement

August 3



Events of the Day

Friday, August 3, 1990.

BACCALAUREATE MASS

8:30 a.m. Graduates and faculty assemble in the courtyard between Flanner and Grace halls, for the Academic Procession to Stepan Center.

8:40 a.m. Academic Procession departs for Stepan Center.

9:00 a.m. Baccalaureate Mass ——— Stepan Center.

Principal Celebrant and Homilist:

Rev. Robert A. Krieg, C.S.C.
Associate Professor of Theology

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

10:25 a.m. Graduates and faculty assemble in the Auxiliary Gym of the Joyce 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 Joyce Athletic and Convocation Center ——— Concourse.

Presiding Officer:

Timothy O'Meara, Ph.D.
Provost of the University

Commencement Address:

Patricia A. O'Hara, J.D.
Vice President for Student Affairs

(Guests are requested to be seated on the Concourse of the Joyce Athletic and Convocation Center by 10:50 a.m.)

Baccalaureate Mass

Stepan Center
University of Notre Dame
Notre Dame, Indiana
at 9 a.m. (Eastern Standard Time)
Friday, August 3, 1990

Principal Celebrant and Homilist
Rev. Robert A. Krieg, C.S.C.

Organist
Robert Minotti

Psalmist
Denise Boychuk

Cantor
Timothy Stempniewski

Guitar and Harp
Steven Warner

The Symphony Brass Quintet
Craig Heitger, trumpet
Steve Reed, trumpet
Peggy Brilli, French horn
Joe Hickner, trombone
Rick Watts, tuba

BACCALAUREATE MASS

PRELUDES

ACADEMIC PROCESSION

Trumpet Voluntary Stanley

ENTRANCE HYMN

I Sing the Mighty Power of God

tune: Ellacombe



1. I sing the might- y pow'r of God That
 2. I sing the good- ness of the Lord That
 3. There's not a plant or flower be- low But



made the moun- tains rise, That spread the flow- ing
 filled the earth with food; That formed cre - a- tion
 makes your glo- ries known; And clouds a - rise, and



seas a- broad, And built the loft- y skies. I
 with a word, And then pro- nounced it good. Lord,
 tem- pests blow, By or - der from your throne; While



sing the wis- dom that or - dained The sun to rule the day; The
 how your won- ders are dis - played, Where- e'er I turn my eye; If
 all that bor- rows life from you Is ev- er in your care, And



moon shines full at God's com- mand And all the stars o- bey.
 I sur - vey the ground I tread, Or gaze up- on the sky!
 ev- 'ry - where that I may be, O God, be pre- sent there.

OPENING PRAYER

Liturgy of the Word

READING I

Proverbs 8:22-31
Wisdom was born before the earth was made.

RESPONSORIAL PSALM

Psalm 69:5, 8-10, 14

Peloquin



READING II

Romans 5:1-5
*To God through Christ in the love
which is poured out through the Spirit.*

GOSPEL ACCLAMATION

Trapp



GOSPEL

John 16:12-15
*Whatever the Father has is mine.
The Spirit will receive what I give and tell you about it.*

GOSPEL ACCLAMATION

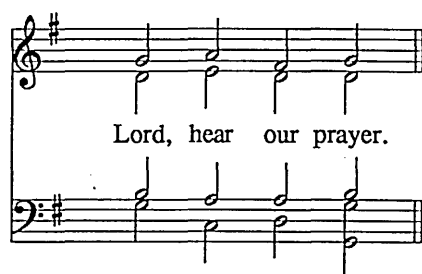
Trapp



HOMILY

Rev. Robert A. Krieg, C.S.C.

GENERAL INTERCESSIONS



Liturgy of the Eucharist

PREPARATION OF THE GIFTS

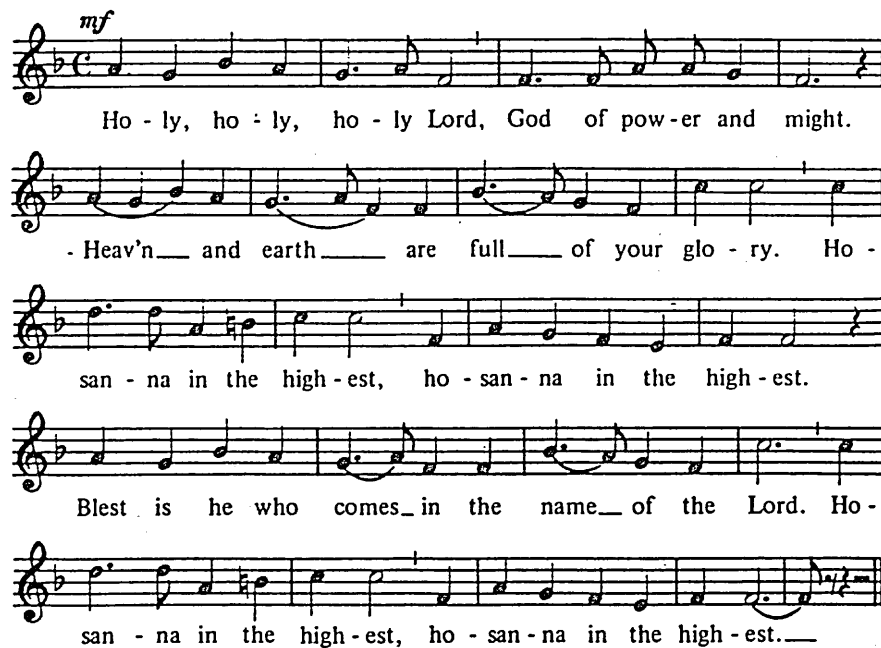
Pavane William Byrd
Fantasia William Boyce

Eucharistic Prayer

*It is customary for men,
although not for women
wearing academic garb, to
have their caps removed during
the Eucharistic Prayer.
The caps may be replaced
at the end of Communion.*

SANCTUS

mf



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.

Proulx

MEMORIAL ACCLAMATION

Christ has died,
Christ is ris - en, Christ will come a - gain.

The musical notation is in G major (one sharp) and common time (C). It consists of two staves. The first staff has a forte (f) dynamic marking and an accent (>) over the final note. The second staff also has an accent (>) over the first note. The lyrics are written below the notes.

AMEN

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

The musical notation is in G major (one sharp) and common time (C). It consists of two staves. The first staff has a forte (f) dynamic marking and an accent (>) over the final note. The second staff has an accent (>) over the first note. The lyrics are written below the notes.

Communion Rite

LORD'S PRAYER + DOXOLOGY

SIGN OF PEACE

LAMB OF GOD

Trapp

Cantor: Lamb of God

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

The musical notation is in G major (one sharp) and 4/4 time. It consists of a single staff. The lyrics are written below the notes.

When the cantor repeats: Lamb of God please sing:

You take a- way the sins of the world: grant _ us peace.

The musical notation is in G major (one sharp) and 4/4 time. It consists of a single staff. The lyrics are written below the notes.

COMMUNION PROCESSION

Take and Eat

Joncas

Take and eat, take and eat, this is my bo - dy giv - en up for you;
Take and drink, take and drink, this is my blood, giv - en up for you.

The musical notation is in G major (one sharp) and 4/4 time. It consists of two staves. The lyrics are written below the notes.

PRAYER AFTER COMMUNION

Closing Rite

BLESSING + DISMISSAL

HYMN

Lord, Whose Love in Humble Service

tune: *In Babilone*

1. Lord, whose love in hum - ble ser - vice Bore the
 2. Still your chil - dren wan - der home - less; Still the
 3. Called from wor - ship in - to ser - vice Forth in

weight of hu - man need, Who did on the
 hun - gry cry for bread; Still the cap - tives
 your great name we go, To the child, the

Cross for - sak - en, Show us mer - cy's per - fect deed;
 long for free - dom; Still in grief we mourn our dead.
 youth, the a - ged, Love in liv - ing deeds to show;

We, your ser - vants, bring the wor - ship Not of
 As, O Lord, your deep com - pas - sion Healed the
 Hope and health, good - will and com - fort, Coun - cil,

voice a - lone, but heart: Con - se - crat - ing
 sick and freed the soul, Use the love your
 aid, and peace we give That your chil - dren,

to your pur - pose Ev - 'ry gift which you im - part.
 Spir - it kin - dles Still to save and make us whole.
 Lord, in free - dom, May your mer - cy know and live.

RECESSIONAL

Psalm XIX Marcello
Sonata from "Die Bankelsangerlieder" Anonymous

Acknowledgements

Psalm 69 by Alexander Peloquin, the *Community Mass* by Richard Proulx, and *Take and Eat* by Michael Joncas © GIA Publications, Inc., Chicago, IL. All rights reserved, reprinted under license #1180.

The Acclamation and Lamb of God from Morningstar Mass by Lynn Trapp. Used by permission of Morningstar Music, Inc., Saint Louis, MO. All rights reserved

One Hundred Forty-Fifth

Commencement Exercises

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

Joyce Athletic and Convocation Center
(Concourse)
University of Notre Dame
Notre Dame, Indiana
At 11 a.m. (Eastern Standard Time)
Friday, August 3, 1990

Order of Exercises

Processional

by Daniel H. Winicur, Ph.D.
Dean of Administration and
University Registrar

America, the Beautiful - Ensemble and Audience

*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 Doctor of Philosophy degree
by Chau T. M. Le, Ph.D.
Associate Dean of the Graduate School

The Master of Laws degree
by Roger F. Jacobs, J.D.
Associate Dean of the Law School

The Juris Doctor degree
by Roger F. Jacobs, J.D.
Associate Dean of the Law School

The Master degree
by Chau T. M. Le, Ph.D.
Associate Dean of the Graduate School

The Master of Business Administration degree
by John G. Keane, Ph.D.
Dean of the College of Business Administration

The Master of Science in Administration degree
by John G. Keane, Ph.D.
Dean of the College of Business Administration

The Bachelor degree in the College of Arts
and Letters
by Michael J. Loux, Ph.D.
Dean of the College of Arts and Letters

The Bachelor degree in the College of Science
by Jeremiah P. Freeman, Ph.D.
Associate Dean of the College of Science

The Bachelor degree in the College of Engineering
by Jerry J. Marley, Ph.D.
Associate Dean of the College of Engineering

The Bachelor degree in the College of Business
Administration
by John G. Keane, Ph.D.
Dean of the College of Business
Administration

Commencement Address*

Patricia A. O'Hara, J.D..
Vice President for Student Affairs

Closing Remarks

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.*

The Graduate School

THE DEGREE OF DOCTOR OF PHILOSOPHY ON:

Jeffrey Brian Barner, Goshen, Indiana

Major subject: Physics. Dissertation: Tunneling in Artificial Al_2O_3 Barriers and Single-Electron Tunneling in Metal/Barrier Multilayer Systems. Director: Dr. Steven Ruggiero

Maitrayee Bhattacharyya-Pakrasi, St. Louis, Missouri

Major subject: Biological Sciences. Dissertation: Molecular Analysis of Two Sporulation Genes in the Yeast *Saccharomyces cerevisiae*. Director: Dr. Mary J. Clancy

Kitti Carriker, West Lafayette, Indiana

Major subject: English. Dissertation: Literary Automata: Lacanian and Figurative Approaches to the Self-Created Miniature. Director: Dr. Leonard Orr

Beth Maclay Doriani, Monroeville, Pennsylvania

Major subject: English. Dissertation: Emily Dickinson: Daughter of Prophecy. Director: Dr. Charlene S. Avallone

John Cameron Gordon, Kilmarnock, Scotland

Major subject: Chemistry. Dissertation: The Chemistry of Complexes Containing Nickel-Group 6 and Cobalt-Group 6 Metal Bonds. Director: Dr. Michael J. Chetcuti

Steven Wilson Horst, Baltimore, Maryland

Major subject: Philosophy. Dissertation: Symbols, Computation and Intentionality: A Critique of the Computational Theory of Mind. Director: Dr. Kenneth M. Sayre

Allan Murray Hunchuk, Regina, Saskatchewan, Canada

Major subject: Sociology. Dissertation: To Be Able to Say: The Unveiling of the Life-World through the Sociology of Music. Director: Dr. Fabio B. Dasilva

Henry Bernard Kreuzman III, Cincinnati, Ohio

Major subject: Philosophy. Dissertation: Theories of Rationality in Epistemology and Philosophy of Science. Director: Dr. Richard Foley

Therese Larochelle, P.M., Nashua, New Hampshire

Major subject: English. Dissertation: *Clarissa*, *Lelia*, and *Middlemarch*: A Study in Secularized Hagiographies. Director: Dr. James H. Walton

Mark Louis Pernecky, Evanston, Illinois

Major subject: Economics. Dissertation: Efficiency Wages, Unions, and Productivity Norms. Director: Dr. Teresa Ghilarducci

Stephen D. Preston, Philadelphia, Pennsylvania

Major subject: Civil Engineering. Dissertation: An Evaluation of Methods for the Estimation of Tributary Mass Loads. Co-Directors: Dr. Victor J. Bierman and Dr. Stephen E. Silliman

Susan Lynn Prieto, Grand Rapids, Michigan

Major subject: Psychology. Dissertation: Cognitive Schemata in Childhood Depression: An Application of the Information-processing Paradigm. Director: Dr. William Tageson

Daniel Charles Rebek, Wauwatosa, Wisconsin

Major subject: Psychology. Dissertation: The Effort-Rest Frequency Ratio as a Formal Property in Agent's Efforts to Achieve Self-Determined Control of Physical Exercise. Director: Dr. George S. Howard

Kenneth George Rice, Daytona Beach, Florida

Major subject: Psychology. Dissertation: Late Adolescent Attachment, Separation-Individuation, and Adjustment to College: A Time-sequential Study. Director: Dr. Daniel K. Lapsley

Thomas Howard Schattauer, Storm Lake, Iowa

Major subject: Theology. Dissertation: Announcement, Confession, and Lord's Supper in the Pastoral-Liturgical Work of Wilhelm Lohe: A Study of Worship and Church Life in the Lutheran Parish at Neuendettelsau, Bavaria 1837-1872. Director: Dr. Mark Searle

Yutao Shen, Tsingdao, People's Republic of China

Major subject: Civil Engineering. Dissertation: The Development of Physiological State Control Model for Anaerobic Sequencing Batch Reactors and Its Realization on a Knowledge-based Expert System. Director: Dr. Lloyd H. Ketchum, Jr.

Susan Marie Steinbrueck, Chicago, Illinois

Major subject: Psychology. Dissertation: Mother-Child Interactions of Depressed Children. Director: Dr. David A. Cole

Hung-Fa Sun, Panchio City, Republic of China

Major subject: Electrical Engineering. Dissertation: Two Problems in Finite Dimensional Dynamical System: Qualitative Analysis and Synthesis of a Class Neural Networks and Linear Systems Subject to Parameter Variations. Director: Dr. Anthony N. Michel

Robert Szoke, Monor, Hungary
Major subject: Mathematics.
Dissertation: Monge-Ampere Models.
Director: Dr. Pit-Mann Wong

Rajagopalan Venkatadri, Madras, India
Major subject: Civil Engineering. Dissertation:
Studies on the Extracellular Enzyme System of the
White Rot Fungus *Phanerochaete Chrysosporium*.
Director: Dr. Robert L. Irvine

Xiaofang Wang, Changchun, People's Republic of China
Major subject: Aerospace and Mechanical Engineering. Dissertation: Wrinkling in Sheet Metal Forming.
Director: Dr. Lawrence H. N. Lee

Lei Xu, Beijing, People's Republic of China
Major subject: Biological Sciences. Dissertation:
Hormonal Control of Hemolymph Lipoprotein Ice
Nucleators and Antifreeze Proteins in Freeze Resistant
Insects. Director: Dr. John G. Duman

THE DEGREE OF MASTER OF ARTS ON:

Anthony B. Aarons, Kingston, Jamaica
Major subject: Theology

William Joseph Amberg, Rochester, Minnesota
Major subject: Government and International Studies

Leslie Anne Anderson, Watseka, Illinois
Major subject: History

Sergei Basarab, Kiev, U.S.S.R.
Major subject: Peace Studies

James Wm. Bessert, Bay City, Michigan
Major subject: Theology

Jo Anne Gassmann Bonello, Ames, Iowa
Major subject: Theology

Rev. Mark-Thomas Booth, O.F.M. Conv., Baltimore,
Maryland
Major subject: Theology

Denise Mary Boychuk, Brookfield, Illinois
Major subject: Theology

Neil Matthew Boyd, Camp Hill, Pennsylvania
Major subject: Psychology. Thesis: Post-Treatment
Shock Stimulation (Feedback): Skin Resistance,
Movement, and Fear as Determinants of Subsequent
Movement and Escape Responding. Director:
Dr. D. Chris Anderson

Bengt Leonard Brown, Springfield, Ohio
Major subject: Peace Studies

Polly Kathleen Carl, Elkhart, Indiana
Major subject: Peace Studies

Frank Michael Alvarez del Castillo, Munster, Indiana
Major subject: Peace Studies

Leonard Thomas Clark, Portage, Indiana
Major subject: Communication Arts

Fr. William Cosgrave, Wexford, Ireland
Major subject: Theology

German Creamer, Quito, Ecuador
Major subject: Economics

Pedro Luiz Dalcero, Petropolis, Brazil
Major subject: Peace Studies

Stephen Vincent DeLeers, Milwaukee, Wisconsin
Major subject: Theology

Anne Blake DenDooven, Naples, Florida
Major subject: Psychology

Kathleen Hynes Dewey, Santa Barbara, California
Major subject: Communication Arts

Mary Carol Doherty, Towson, Maryland
Major subject: Psychology

Daniel Keith Douglas, Tulsa, Oklahoma
Major subject: Theology

Delores Dufner, O.S.B., St. Joseph, Minnesota
Major subject: Theology

Maria Teresa Estrada, St. Louis, Missouri
Major subject: Psychology. Thesis: Educational
Aspirations of Mexican-American Children: The
Importance of Possible Selves. Co-Directors:
Dr. John G. Borkowski and Dr. Jeanne D. Day

Katalin Fabian, Budapest, Hungary
Major subject: Peace Studies

Kathleen Eve Farrell, Portland, Oregon
Major subject: English

Catherine Ann Faulk, Mississauga, Ontario, Canada
Major subject: Theology

Steven Raymond Fava, Summit, New Jersey
Major subject: English

Robert E. France, Alpharetta, Georgia
Major subject: History

Richard Rene Gaillardetz, Austin, Texas
Major subject: Theology

William Otis Gregg, Abingdon, Virginia
Major subject: Theology

Cecilia Margaret Hall-Brennan, Portland, Oregon
Major subject: Theology

Daniell Carl Hamby, Gainesville, Georgia
Major subject: Theology

- Lene G. Hansen**, Milwaukee, Wisconsin
Major subject: Psychology
- Marika Hedin**, Uppsala, Sweden
Major subject: History
- Andrea Liliana Castaneda Hidalgo**, Tampico, Mexico
Major subject: Peace Studies. Thesis: The Mass Media as a Vehicle for Peace: An Exploratory Analysis of the Influence of the Media on War and Peace Issues. Director: Dr. Robert C. Johansen
- Paul Higbee**, Spearfish, South Dakota
Major subject: Communication Arts
- Rebecca Bontrager Horst**, Goshen, Indiana
Major subject: English
- Nancy J. Houlihan**, Chicago, Illinois
Major subject: Communication Arts
- Mary Ambrose Huszak, C.S.J.**, Hamilton, Ontario, Canada
Major subject: Theology
- Brother Paul R. Ickes, C.F.C.**, Chicago, Illinois
Major subject: History
- Mari Ishibashi**, Fukuoka, Japan
Major subject: Peace Studies
- Paula Faye Jordan**, Albany, Oregon
Major subject: Economics
- Jo Ann Fritzmayr Kalb**, Louisville, Kentucky
Major subject: Theology
- Sister Elizabeth E. Kane, O.S.F.**, Baltimore, Maryland
Major subject: Theology
- Rev. Jeffrey Kemper**, Dayton, Ohio
Major subject: Theology
- Musa Khalidi**, East Jerusalem, Palestine
Major subject: Peace Studies
- Sr. Patricia Ann Knight, O.S.U.**, Bronx, New York
Major subject: Theology
- Kristina M. Krimm**, Columbus, Ohio
Major subject: Theology
- Daniel Paul Kroger, O.F.M.**, Cincinnati, Ohio
Major subject: Theology
- Lisa Mary Kuhns**, Fort Walton Beach, Florida
Major subject: Peace Studies
- Heidi Lamb**, Boston, Massachusetts
Major subject: Government and International Studies
- Roy Lanham**, Charleston, Illinois
Major subject: Theology
- Sharon Elizabeth Lanham**, Charleston, Illinois
Major subject: Theology
- Brother Thomas G. Lisack**, Stevens Point, Wisconsin
Major subject: English
- Laura Diane Loeffler**, Stevensville, Michigan
Major subject: Psychology
- Cristina Logan-Truman**, Gainesville, Florida
Major subject: Theology
- Elizabeth Anne Lohmuller**, Bluffton, Indiana
Major subject: Communication Arts
- David A. Lysik**, Santa Maria, California
Major subject: Theology
- Pamela Anne Manz**, Pensacola, Florida
Major subject: Theology
- Michele Marie Martin**, Pensacola, Florida
Major subject: Theology
- Robert Thomas Mastro**, Potomac, Maryland
Major subject: Communication Arts
- Edward C. Mazzu**, Beaumont, Texas
Major subject: Theology
- Ethel-Louise McDonough, R.S.M.**, Hollywood, Florida
Major subject: History
- Jon J. McMahon, O.M.I.**, New Orleans, Louisiana
Major subject: Communication Arts
- Melissa McNelly**, Uvalde, Texas
Major subject: Psychology
- Patricia Marie McSweeney**, Westerville, Ohio
Major subject: Psychology
- Joy Anne Meeker**, Minneapolis, Minnesota
Major subject: Peace Studies
- Vincent Jude Miller**, Pittsburgh, Pennsylvania
Major subject: Theology
- Kurt A. Mills**, Greenfield, Massachusetts
Major subject: Peace Studies
- Sister Mary Andrea Mitchell, R.S.M.**, Philadelphia, Pennsylvania
Major subject: Theology
- Willa Murphy**, Provo, Utah
Major subject: Theology
- Scott Harmon Matthew Pell, C.S.C.**, Portland, Oregon
Major subject: Theology. Thesis: Where Do We Go from Here? The Churches Respond to BEM: Convergencies and Divergencies on the Eucharist. Director: Edward J. Kilmartin, S.J.
- David James Philippart**, Buffalo, New York
Major subject: Theology

Ronald Patrick Raab, C.S.C., Notre Dame, Indiana
Major subject: Theology

Peter Albert Ritzer, Sun Prairie, Wisconsin
Major subject: Theology

Vera E. Rocks, I.H.M., Immaculata, Pennsylvania
Major subject: Theology

Dana Leokadija Rogers, South Bend, Indiana
Major subject: Psychology

Sr. Marie Jose Romano, Honolulu, Hawaii
Major subject: Theology

Judy Keim Ross, Goshen, Indiana
Major subject: Communication Arts

Kathleen C. Royer, Elkhart, Indiana
Major subject: English

Thomas Schuster, Augsburg, Federal Republic of Germany
Major subject: Peace Studies

Donald Joseph Schwarzhoff, Galesville, Wisconsin
Major subject: Theology

Steven Reynolds Michael Shippee, South Bend, Indiana
Major subject: Theology

Linda Kay Short, Kettering, Ohio
Major subject: Peace Studies

Brian David Simboli, Cheyney, Pennsylvania
Major subject: Philosophy

Grant Scott Sperry-White, Souix City, Iowa
Major subject: Theology

Timothy Dean Stempniewski, Detroit, Michigan
Major subject: Theology

Jill Karol Sternberg, Milwaukee, Wisconsin
Major subject: Peace Studies

Kaja Szwykowska, Warsaw, Poland
Major subject: Peace Studies

Kay M. Tallmadge, Wauwatosa, Wisconsin
Major subject: Theology

Heather Caswell Taylor, Loudon, New Hampshire
Major subject: Psychology

S.P. Udayakumar, Nagercoil, India
Major subject: Peace Studies. Thesis: Intervention in Sri Lanka: History and Prospects. Director: Dr. Gilbert D. Loescher

Jennifer Ann Webber, Roseburg, Oregon
Major subject: History

Samarakoongedara Francis Wijerante, Alagollawa, Sri Lanka
Major subject: Theology

Reverend Thomas S. Willis, Jacksonville, Florida
Major subject: Theology

Jacquelyne Mary Witter, LaCrosse, Wisconsin
Major subject: Theology

Paul Joseph Wojda, Ramsey, New Jersey
Major subject: Theology

Junhong Hannah Wu, Shenyang, People's Republic of China
Major subject: Peace Studies

Alejandro Ferriero Yazigi, Santiago, Chile
Major subject: Peace Studies

Yuri V. Zaichuck, Kiev, U.S.S.R.
Major subject: Peace Studies

Joanne C. Zema, Parma Heights, Ohio
Major subject: Theology

THE DEGREE OF MASTER OF SCIENCE ON:

Holia N. Hatoum, Kherbet Kanafar, Lebanon
Major subject: Chemistry. Thesis: Substituent Effects in the Generation of a-Thiocarbomoyl Substituted Cations. Director: Dr. Xavier Creary

Yijian Jin, Hangzhou, People's Republic of China
Major subject: Chemistry. Thesis: Electronic Population Inversion by Shaping Light Pulse: An Optimal Control Approach. Director: Dr. David J. Tannor

David R. Jourdan, Stillwater, Minnesota
Major subject: Biological Science. Thesis: Migration and Commitment of a Stem Cell Line in a Hydrozoan Planula, *Pennaria tiarella*. Director: Dr. Vicki J. Martin

Christopher Charles Puin, Cleveland Heights, Ohio
Major subject: Mathematics

David Bennett Pulling, Troy, Michigan
Major subject: Physics

Zhi-an Shao, Hefei, Anhui, People's Republic of China
Major subject: Physics

Yu Shen, Nanjing, People's Republic of China
Major subject: Mathematics

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

Carl Fenglong Zhang, Wuhan, People's Republic of China
Thesis: Sound Radiated From a Thin Airfoil at
Supersonic Speed. Director: Dr. Hafiz M. Atasi

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

Mark A. Mader, DeSoto, Texas
Thesis: Formulation of a Non-Linear Reinforced
Concrete Finite Element Code with Applications to
the Analysis of Concrete Structures in Service.
Director: Dr. Leonard Morse-Fortier

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

Arindam Banerji, Calcutta, India
Thesis: A New Programming Model for Distributed
Applications. Director: Dr. David L. Cohn

Timothy M. Bryden, Mahwah, New Jersey
Thesis: C Language Support for Object-oriented Pro-
gramming in ARCADE. Director: Dr. David L. Cohn

David Gu, Shanghai, People's Republic of China
Thesis: Via-Minimization Expert for Topological
Switchbox Routing Problem. Co-Directors:
Dr. Chong Ho Lee and Dr. Eugene W. Henry

Srinivas Sivaprakasam, New Delhi, India
Thesis: Finite Element Simulation of Quantum
Devices. Director: Dr. Craig S. Lent

Edward Rife Smith, Frankton, Indiana
Thesis: The Design of an ARCADE-based Distributed
File System. Director: Dr. David L. Cohn

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

Ajoy K. Basu, Trivandrum, India
Thesis: Synthesis, Characterization and Electrical
Properties of Titanium and Tantalum-based
Perovskite-Type Ceramics. Director: Dr. A. R. Pelton

V. Sundararaman, Ahmedabad, India
Thesis: A Single-Impact Study of the Rebound of
Erodent Particles. Director: Dr. T. H. Kosel

**THE DEGREE OF MASTER OF SCIENCE IN
MECHANICAL ENGINEERING:**

Luis Gonzalo Canales, San Salvador, El Salvador
Thesis: Effect of Twist Dimension on a Generalized
Double Pointing System. Director:
Dr. Michael M. Stanisic

John Chiqiong Xu, Shanghai, People's Republic of China
Thesis: Analysis of Flow Over Fixed and Rotatable
Cylinder-Splitter Plate Body. Co-Directors:
Dr. Mohamed Gad-el-Hak and Dr. Mihir Sen

The College of Business Administration In the Graduate Division

THE DEGREE MASTER OF BUSINESS ADMINISTRATION ON:

Gerald Scott Brandon, Raleigh, North Carolina
Scott William Dowling, Baltimore, Maryland
Gary W. Parsons, East Syracuse, New York
Michael Shepardon, Satellite Beach, Florida

THE DEGREE OF MASTER OF SCIENCE IN ADMINISTRATION ON:

Bilkisu Adama Ajanah, Rockville, Maryland
Jamie A Battin, *With Honors*, Dushore, Pennsylvania
Josette M. Bender, Elkhart, Indiana
Walter Andrew Blake, South Bend, Indiana
Michael Louis Bossory, Romulus, Michigan
William Earl Brackett, Niles, Michigan
William E. Darr, Warsaw, Indiana
Marguerite Ihnat DeRose, *With High Honors*,
Schererville, Indiana
Felice Antionette Dudley-Collins, South Bend, Indiana
Mary Joe Elias, South Bend, Indiana
Thomas George Gorman, *With Honors*,
Evergreen Park, Illinois
Ross F. Havens, *With Honors*, South Bend, Indiana
Marlene Lottie Hedges, Highland, Indiana
Sister Ann Regina Hughes, *With Honors*, Peoria,
Illinois
Thampi Kayala, C.S.C., Bangalore, India
Susan Rose Koski, *With High Honors*, Granger, Indiana
Gail Jean Kolpin Kuiper, Hebron, Indiana
Johan H. Kuitse, *With High Honors*, South Bend,
Indiana
Rebecca Jane Lincoln, South Bend, Indiana
Marijo Cathryn Martinec, South Bend, Indiana
Sue Nelson Ann Messaglia, South Bend, Indiana
Patricia J. Mominee, *With Honors*, Mishawaka,
Indiana
Lauren Jean Carr Mullet, Porter, Indiana
David J. Naples, CSC, *With Honors*, Akron, Ohio
Jacqueline Nash-Lee, Detroit, Michigan
Thomas Francis Nehring, *With High Honors*,
Oak Park, Illinois

Lynn Thoma Olszewski, *With Honors*, Schererville,
Indiana
Iris Lucille Outlaw, *With Honors*, South Bend,
Indiana
Barbara A. Pacionek, South Bend, Indiana
Dianne Patnaude, *With Honors*, South Bend, Indiana
Pamela A. Paulk, Mishawaka, Indiana
Robert A. Pruitt, Niles, Michigan
Jane Hoopes Robinson, South Bend, Indiana
Barbara Anne Scanlon, South Bend, Indiana
Lenice Schmidt, *With Honors*, South Bend, Indiana
Sr. Barbara Lynn Schmitz, OSB, *With Highest Honors*,
Ferdinand, Indiana
Jeffrey L. Secrist, Rochester, Indiana
Sr. Marie Therese Sedgwick, *With Honors*, Chicago,
Illinois
Sr. Mary Josef Shingler, P.H.J.C., *With High Honors*,
Donaldson, Indiana
Denise Darcel Steen, South Bend, Indiana
Peggy Frances Stovall, Bonham, Texas
Roni Rae Tomlinson, Hebron, Indiana
Celia J. Turcotte, *With High Honors*, Pembroke, Canada
Larry S. Ulery, St. Joseph, Michigan
Rhonda L. Wieschhaus, *With Honors*, South Bend,
Indiana

The Law School

THE DEGREE OF MASTER OF LAWS ON:

Antonio Felix de Araujo Cintra, Sao Paulo, Brazil
Pamela J. Baker, *Magna Cum Laude*, St. Paul,
Minnesota
Miguel De Pombo Espeche, Bogota, Colombia
Marie-France de Pover, *Magna Cum Laude*, Liege,
Belgium
Marisa Hontoria Gaya, London, England,
United Kingdom
Stephane Ronsin, Paris, France
Yasuhiro Tasaka, Yokohama, Japan
Y. van Dongen, Rotterdam, Netherlands
Cristina Marelim Vianna, Sao Paulo, Brazil
Chung-Chu Wu (Nelson Wu), Taipei,
Republic of China,

THE DEGREE OF JURIS DOCTOR ON:

Carlos Anthony Razo, Pomona, California

The College of Arts and Letters

THE DEGREE OF BACHELOR OF ARTS ON:

Braxston L. Banks, Hayward, California
Michael Emile Baruch, Hinsdale, Illinois
Timothy Joseph Beerman, Cincinnati, Ohio
Michael A. Bohn, Lafayette, Louisiana
Michael Anthony Brady, Memphis, Tennessee
Thomas John Crehan, Palos Verdes, California
Peter Gerard Dumon, Owosso, Michigan
Ted Williams Erbrecht, Upper St. Clair, Pennsylvania
Brett Jerry Erxleben, Rockford, Illinois
John A. Foley Jr., Chicago, Illinois
John Louis Haley, South Bend, Indiana
Christine Marie Heslin, *With Honors*, Latham, New York
Sean Patrick Hilgendorf, South Bend, Indiana
Michael Slater McCue, Macon, Georgia
Kelly William McKay, Fort Lewis, Washington
Lawrence Leo Meehan, Lowellville, Ohio
Brian Joseph Meenaghan, Ashland, Oregon
Paul D. Millea, Pittsburgh, Pennsylvania
Stacy Ann Nyikos, *With High Honors*, Tulsa, Oklahoma
Patrick John O'Rourke, Amherst, New Hampshire
Patricia M. Randazzo, South Bend, Indiana
Jeanette Mae Ryan, Alexandria, Virginia
Alan Charles Silvidi, Stow, Ohio
Michael James Sullivan, Mishawaka, Indiana
Quinn T. Thurin, South Bend, Indiana
Lisa Sharon Tidwell, Gary, Indiana
Jeffrey Dean Tilton, Fargo, North Dakota

The College of Science

THE DEGREE OF BACHELOR OF SCIENCE ON:

Casimir Kyle Crist, West Palm Beach, Florida
Patricia Laurie Villanueva, Mishawaka, Indiana

The College of Engineering

THE DEGREE OF BACHELOR OF ARCHITECTURE ON:

Paul Joseph Kelly, Omaha, Nebraska
William Gary McCraw, Arlington, Texas
Steven New, South Bend, Indiana

THE DEGREE OF BACHELOR OF SCIENCE IN AEROSPACE ENGINEERING ON

Edward Michael Dieser, Aurora, Illinois
Michael Edward Kozlik, Rockville Center, New York
Kevin Patrick Madden, South Bend, Indiana

THE DEGREE OF BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING ON :

Craig Creamean, Streator, Illinois

THE DEGREE OF BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING ON:

John Francis Krotzer, *With Honors*, Vestal, New York

The College of Business Administration

THE DEGREE OF BACHELOR OF BUSINESS ADMINISTRATION ON:

Timothy Jay Bach, Farmington Hills, Michigan
Brenden Larry Beck, *With Honors*, Bakersfield, California
Jocelyn Siuyin Chan, Silver Spring, Maryland
Michael John Crounse, Endicott, New York
Timothy Joseph Ehrman, East Amherst, New York
John Robert Gale, Basking Ridge, New Jersey
Matthew Hadsell, Niles, Michigan
Matthew John Highbarger, South Bend, Indiana
Francine Kelly, East Chicago, Illinois
Steve Robert McLaughlin, Absecon, New Jersey
Dennis Joseph Murphy, Canton, Massachusetts
Patrick Michael Porter, Windham, Maine
Kevin Francis Regan, Freeport, New York
Stanley Adam Smagala, Burbank, Illinois
Ross P. Sullivan, North Dartmouth, Massachusetts

ACADEMIC ATTIRE

Ceremonial garments worn at academic functions take their meaning from the original centers of learning of the Western world in the Church of the Middle Ages. Caps, hoods, and gowns of the early students and monks have been held through the centuries to be traditionally symbolic of the scholarly devotion so basic to education and to the deliberate and orderly evolution of knowledge.

The introduction of classical studies, the gradual rise of the great universities across Europe, and the ever-increasing awareness of the decisive role of education in the entire development of civilization influenced leaders among academicians in their desire for a singular identity. In the attempt to create this differentiation, educators fell upon the medieval system of classic heraldry, whereby the coat of arms, assorted ornamental trappings, and patterns of colorful design had been adopted to denote the distinctive character of designated chivalric orders. The function of "pedagogical heraldry" became, then, simply identification. As such, measures were taken to signify through distinctive markings on the academician's attire the institution that had granted the degree, the field of learning in which the degree had been earned, and the level of the degree - bachelor, master, or doctorate.

Of the three pieces of academic attire, the cap, the gown, and the hood, it is the hood that offers the most abundant and most readily discernible information about its owner. The inner lining of the hood identifies the institution at which the individual earned the degree. Some schools have adopted two-color patterns and introduced chevrons and bars in various designs to set themselves apart from other institutions. The velvet trim bordering the hood indicates the major field of learning, or faculty, in which the degree has been earned. The list at the conclusion of this section will explain this relationship. A final feature of the hood concerns its length and width and distinguishes further between holders of bachelor's, master's, and doctor's degrees. The length of the hood for

the bachelor's degree is three feet, closed at the bottom, and the velvet border is two inches. At Notre Dame, individuals receiving a bachelor's degree do not wear a hood. A master's degree holder has a hood three and one half feet in length with a three inch wide border, and is slit at the bottom. Those individuals with a doctorate degree wear a hood four feet in length, open at the bottom, with a five inch border.

The gown is usually black in color but some American universities, including Notre Dame, have adopted distinctive colors for their robes. Notre Dame doctorate degree robes are blue, reflecting one of its official colors.

The cut of the gown aids in differentiating between the three levels of degrees. The bachelor's gown is relatively simple and falls in straight lines from an elaborate yoke. It may be recognized most readily by the long, pointed sleeves. The master's gown is somewhat fuller and bears no adornment. The sleeves are oblong in shape and open at the wrist, with the rear part of the oblong square cut while the front edge has a cutaway arc. The doctor's gown is more elaborate with velvet panels down the front and around the neck of the garment. The sleeves are bell-shaped at the end and have three bars of the same material as the front panels at the upper portion of the arm. It is cut rather full and may be ornamental in color. Notre Dame's doctoral gown has royal blue velvet front panels with the University's shield embroidered in gold. The royal blue sleeve chevrons are outlined in gold.

The mortarboard or Oxford-type cap has been adopted throughout most universities in the United States, although Notre Dame's doctoral cap is a royal blue tam. Colored tassels are usually worn by holders of the bachelor's and master's degrees. These denote the field of learning. The list on the next page indicates the tassel colors. Gold tassels are reserved for those with doctorate degrees and governing officers of educational institutions.

FACULTY COLORS

AGRICULTURE----- Maize
 ARTS, LETTERS, HUMANITIES----- White
 COMMERCE, ACCOUNTANCY, BUSINESS --- Drab
 DENTISTRY ----- Lilac
 ECONOMICS ----- Copper
 EDUCATION ----- Light Blue
 ENGINEERING----- Orange
 FINE ARTS, INCLUDING
 ARCHITECTURE----- Brown
 FORESTRY----- Russet
 JOURNALISM----- Crimson
 LAW ----- Purple
 LIBRARY SCIENCE ----- Lemon
 MEDICINE ----- Green
 MUSIC ----- Pink

NURSING ----- Apricot
 OPTOMETRY ----- Sea Foam Green
 ORATORY (SPEECH)----- Silver Gray
 PHARMACY ----- Olive Green
 PHILOSOPHY----- Dark Blue
 PHYSICAL EDUCATION ----- Sage Green
 PODIATRY-CHIROPODY----- Nile Green
 PUBLIC ADMINISTRATION, INCLUDING
 FOREIGN SERVICE ----- Peacock Blue
 PUBLIC HEALTH ----- Salmon Pink
 SCIENCE ----- Golden Yellow
 SOCIAL SCIENCE ----- Cream
 SOCIAL WORK----- Citron
 THEOLOGY ----- Scarlet
 VETERINARY SCIENCE ----- Gray

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

