

The University of

Notre Dame du Lac

1989 Commencement

August 4



OFFICIAL

The University of

Notre Dame du Lac

1989 Commencement

August 4



Events of the Day

Friday, August 4, 1989.

BACCALAUREATE MASS

- 8:30 a.m. Graduates and faculty assemble in the Administration Building, Main Floor, 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.

Presider and Homilist:

Rev. John A. Melloh, S.M.
Coordinator, John S. Marten Program
in Homiletics and Liturgics

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:

Roger A. Schmitz, Ph.D.
Vice President and Associate Provost

Commencement Address:

Dian H. Murray, Ph.D.
Associate Professor of History

(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 4, 1989

Presider and Homilist
Rev. John A. Melloh, S.M.

Lector
Rodica Stoiciu

Organist
Gail Walton

Cantor
Letty Valentine

Guitar and Harp
Steven Warner

The Symphony Brass Quintet
Craig Heitger, *trumpet*
Jeff Christiana, *trumpet*
Peggy Brilli, *French horn*
Joe Hickner, *trombone*
Sam Gnagey, *tuba*

BACCALAUREATE MASS

PRELUDES

ACADEMIC PROCESSION

Fanfare Purcell
Trumpet Voluntary Stanley
Canzona Personary # 2 Gabrieli

ENTRANCE HYMN

I Sing the Mighty Power of God



1. I sing the mighty pow'r of God That
2. I sing the goodness 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

Isaiah 61: 1-3

*The Lord God anointed me and sent me to bring
Good News to the poor.*

RESPONSORIAL PSALM

Psalm 96:1-3, 7-8, 10

Currie



GOSPEL ACCLAMATION

Trapp



GOSPEL

Matthew 13:54-58

They found Jesus altogether too much for them.

GOSPEL ACCLAMATION

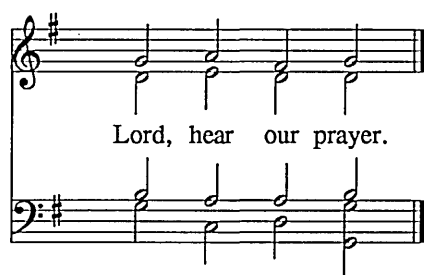
Trapp



HOMILY

Rev. John A. Melloh, S.M.

GENERAL INTERCESSIONS



Liturgy of the Eucharist

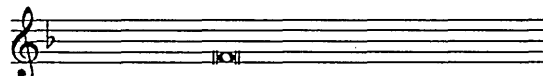
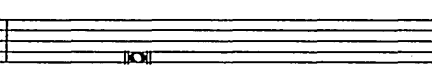
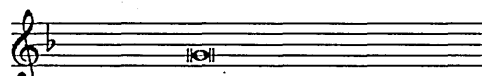
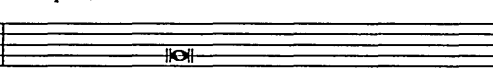
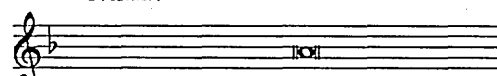
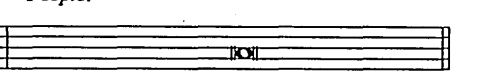
PREPARATION OF THE GIFTS

Pavane William Byrd
Fantasia William Boyce

Eucharistic Prayer

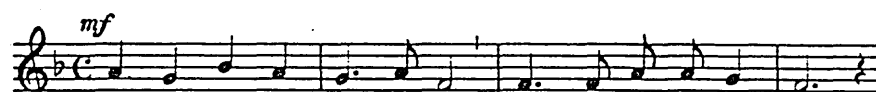
*It is customary for men,
although not for women
wearing academic garb, to
have their caps removed during
the Eucharistic Prayer.
The caps may be replaced
at the end of Communion.*

PREFACE DIALOGUE


<i>Presider:</i>	<i>People:</i>
	
The Lord be with you.	And also with you.
<i>Presider:</i>	<i>People:</i>
	
Lift up your hearts.	We lift them up to the Lord.
<i>Presider:</i>	<i>People:</i>
	
Let us give thanks to the Lord our God. It is right to give him thanks and praise.	

SANCTUS

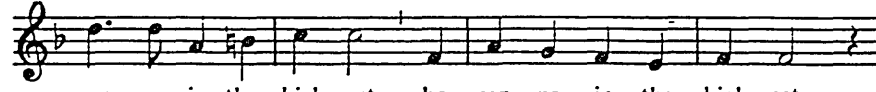
mf



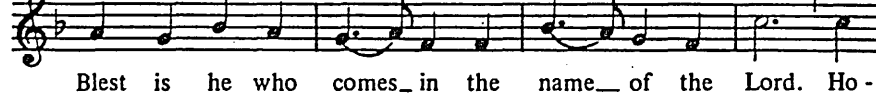
Ho - ly, ho - ly, ho - ly Lord, God of pow - er and might.



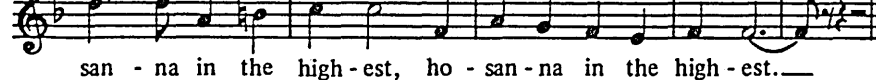
- Heav'n and earth are full of your glo - ry. Ho -



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.

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. The first line has a forte (f) dynamic marking. The second line has an accent (>) over the first note.

AMEN

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

The musical notation is in G major and common time. The first line has a forte (f) dynamic marking. The second line has an accent (>) over the first note.

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 and 4/4 time. It consists of a single line of music.

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 and 4/4 time. It consists of a single line of music.

COMMUNION PROCESSION

Taste and See

Moore

Taste and see, taste and see, the good-ness of the
Lord, _ O taste and see, taste and see, the
good-ness of the Lord, _ of the Lord.

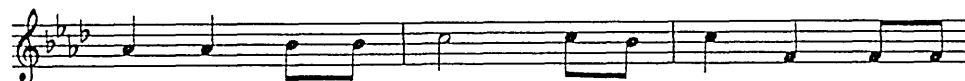
The musical notation is in G major and 4/4 time. It consists of three lines of music.

SONG OF THANKSGIVING

Those Who Love and Those Who Labor



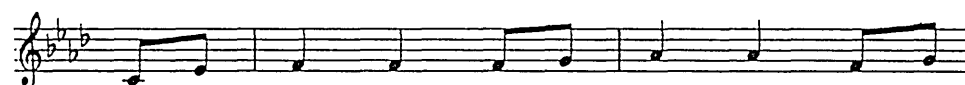
1. Those who love and those who la - bor Fol - low
 2. Where the man - y work to - geth - er, They with
 3. Let the seek - er nev - er fal - ter Till the



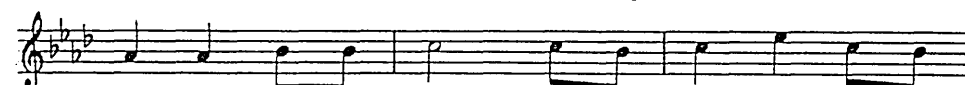
in the way of Christ; Thus the first dis - ci - ples
 Christ him - self a - bide, But the lone - ly work - ers
 truth is found a - far With the wis - dom of the



found him, Thus the gift of love suf - ficed.
 al - so Find him ev - er at their side.
 a - ges Un - der - neath a gi - ant star,



Je - sus says to those who seek him, I will
 Lo, the Prince of com - mon wel - fare Dwells with -
 With the rich - est and the poor - est, Of the



nev - er pass you by; Raise the stone and you shall
 in the mar - ket strife; Lo, the bread of heaven is
 sum of things pos - sessed, Like a child at first to



find me; Cleave the wood, and there am I.
 bro - ken In the sac - ra - ment of life.
 won - der, Like a king at last to rest.

PRAYER AFTER COMMUNION

Closing Rite

BLESSING + DISMISSAL

RECESSIONAL

Psalm XIX Marcello
 Sonata from "Die Bankelsangerlieder" Anonymous

Acknowledgements

"Psalm 96" by Randolph Currie, the "Community Mass" by Richard Proulx, and "Taste and See" by James E. Moore © GIA Publications, Inc., Chicago, Ill. All rights reserved, reprinted under license # 1180.

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

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One Hundred Forty Fourth

Commencement Exercises

The Graduate School
The Law School
The College of Arts and Letters
The College of Engineering
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 4, 1989

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 Roger A. Schmitz, Ph.D.
Vice President and Associate
Provost of the University

Presentation of Candidates for Degrees

The Doctor of Philosophy degree
by Chau T. M. Le, Ph.D.
Assistant Vice President for Advanced Studies

The Master degree
by Chau T. M. Le, Ph.D.
Assistant Vice President for Advanced Studies

The Bachelor degree in the College of Arts and
Letters
by Stacey Gutting, Ph.D.
Assistant Dean of the College of Arts and
Letters

The Bachelor degree in the College of Engineering
by Anthony N. Michel, Ph.D.
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*

Dian H. Murray, Ph.D.
Associate Professor of History

Closing Remarks

The Vice President and Associate
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:

Robert Dale Anderson, Corona, California

Major subject: Medieval Studies. Dissertation: Medieval Speculative Grammar.

Director: Dr. Ralph M. McInerny.

Lynne Csiszar Cary, Granger, Indiana

Major subject: Biological Sciences. Dissertation: Analysis of *Trichoplusia ni* Transposon IFP2 Insertions within the FP-locus of Nuclear Polyhedrosis Viruses.

Director: Dr. Malcolm J. Fraser, Jr.

Johan T. Cels, Leuven, Belgium

Major subject: Government and International Studies. Dissertation: The European Refugee Regime. Director: Dr. Gilbert Loescher.

Bartholomew Gennaro Corsaro, East Brunswick, New Jersey

Major subject: Biological Sciences. Dissertation: The Molecular Genetics of *Heliothis Zea* Nuclear Polyhedrosis Virus. Director:

Dr. Malcolm J. Fraser, Jr.

Michael Gregor Johannes Fink, Innsbruck, Austria

Major subject: Physics. Dissertation: Two Photon Ionization of Rare Gas Atoms: An Application of the Relativistic Time Dependent Dirac Fock Theory. Director: Dr. Walter R. Johnson.

WeiQi Gao, Tianjin, People's Republic of China

Major subject: Mathematics. Dissertation: The Unimodular Monge-Ampere Equation: The Two-Dimensional Case.

Director: Dr. Pit-Mann Wong.

Donald A. Hantula, Palm Beach Gardens, Florida

Major subject: Psychology. Dissertation: Investment and Resource Allocation Following Partial Returns: An Analysis of Persistence, Escalation, and Contrast Effects.

Director: Dr. Charles R. Crowell.

Edwin Ivan Hernandez, South Bend, Indiana

Major subject: Sociology. Dissertation: An Empirical Study of the Social Sources and Political Consequences of Religious Commitment in the Context of Modernity Among Seventh-Day Adventists in the United States.

Director: Dr. Michael R. Welch.

Ivo Herzog, Basking Ridge, New Jersey

Major subject: Mathematics. Dissertation: Some Model Theory of Modules.

Director: Dr. Anand Pillay.

Michael Raymond Keenan, Livonia, Michigan

Major subject: Chemical Engineering. Dissertation: Robustness of Nonlinear and Linear Feedback Control Systems.

Director: Dr. Jeffrey C. Kantor.

Mary Louise E. Kerwin, Philadelphia, Pennsylvania

Major Subject: Psychology. Dissertation: Static Versus Dynamic Assessments of Intelligence. Director: Dr. Jeanne D. Day

Kevin Dean Kolbeck, Nevada, Iowa

Major subject: Medieval Studies. Dissertation: The Prima Via and Modern Science.

Director: Dr. Ralph M. McInerny.

Krystina K. Leganza, Indianapolis, Indiana

Major Subject: Mathematics. Dissertation: Representations of Exceptional Lie Algebras Restricted to Sub-Algebras.

Director: Dr. Kok-Wee Phan.

Zuwei Liu, Nanjing, People's Republic of China

Major subject: Physics. Dissertation: Pair Correlation Effects in the Relativistic Many-body Calculation of Atomic Polarizabilities. Director: Dr. Walter R. Johnson.

Michael John McCully, Green Bay, Wisconsin

Major subject: Economics. Dissertation: A Structuralist Analysis of Food Self-sufficiency in Ghana. Director: Dr. Denis A. Goulet.

Arthur P. McManus, Chicago, Illinois

Major subject: Physics. Dissertation: Inclusive Charged Particle Production in pp Collisions at $\sqrt{s} = 1.8$ TeV. Director: Dr. Neal M. Cason.

Carol Ann Miderski, Barrington, Illinois

Major subject: Chemistry. Dissertation:
Kinetics of the Formation of H₃⁺ from H₅⁺
and Development of a Crossed Beam Apparatus
for Neutralized Ion Beam Spectroscopy.
Director: Dr. Gregory I. Gellene.

Robert C. O'Connor, South Bend, Indiana

Major subject: Philosophy. Dissertation:
Abductive Arguments to Theological Realism.
Director: Dr. Philip L. Quinn.

Thomas A. Petee, Toledo, Ohio

Major subject: Sociology. Dissertation:
Delineating Individual and Aggregate Level
Effects in Deviance: A Contextual Approach.
Director: Dr. Michael R. Welch.

Chaisingh Poo-Rakkiat, Bangkok, Thailand

Major subject: Physics. Dissertation:
Relativistic and Field Theoretic Effects
in the Nuclear Many Body Problem.
Director: Dr. Jonathan R. Sapirstein.

Vladimir Razenj, Lovran, Yugoslavia

Major subject: Mathematics. Dissertation: Low
Dimensional Groups over O-minimal Structures.
Director: Dr. Anand Pillay.

Mary Frances Sparrow, South Bend, Indiana

Major subject: Medieval Studies. Dissertation:
"Praeambula Fidei" in Thomas Aquinas.
Director: Dr. Ralph M. McNerny.

Richard Frederick Szimpl, S.V., Lima, Ohio

Major subject: History. Dissertation: Max Von
Brandt and German Imperialism in East Asia
in the Late Nineteenth Century.
Director: Dr. J. Robert Wegs.

Jianguo Tang, Shanghai, People's Republic of China

Major subject: Civil Engineering. Dissertation:
Stochastic Modeling of Fatigue Crack Growth.
Director: Dr. Billie F. Spencer, Jr.

George Paul Village, Pittsburgh, Pennsylvania

Major subject: Economics. Dissertation: The
Effect of Safe Harbor Leasing on Investment
and Capital Allocation.
Director: Dr. David M. Betson.

Carol A. Wambeke, Billings, Montana

Major subject: Economics. Dissertation:
Horizontal Equity and Taxation of the Family.
Director: Dr. David M. Betson.

THE DEGREE OF MASTER OF ARTS ON:

Jamal Hassan Abu-Attiyeh, Jenin-West Bank, Israel

Major subject: International Peace Studies.

Claudia Celine Aguilar, Bridgman, Michigan

Major subject: History.

Kathryn A. Barrett, Orlando, Florida

Thesis: The Tonal Language of Poulenc's "Gloria."
Director: Dr. Ethan T. Haimo

Paula J. Biedenharn, New Baden, Illinois

Major subject: Psychology. Thesis: Elderly
Community Residents' Attitudes Toward Nursing
Homes. Director: Dr. Janice B. Normoyle.

Sr. Ardath C. Blake, H.M., Cleveland, Ohio

Major subject: Theology.

Emiliano Pacana Bolongaita, Jr., Cagayan de Oro,
Philippines

Major subject: International Peace Studies.

James Thomas Bond, Columbus, Ohio

Major subject: Theology.

Constantina Bradley, Plymouth, Indiana

Major subject: History

Daniel T. Buckley, Camp Hill, Pennsylvania

Major subject: Psychology.

J. Ron Byler, Goshen, Indiana

Major subject: Communication Arts.

Raul Fernando Campusano Droguett, Santiago,
Chile

Major subject: International Peace Studies.

Catherine Ann Chapman, Houston, Texas

Major subject: Theology.

Mary Theresa Comeaux, Baytown, Texas

Major subject: Theology.

Mary Beth Coughlin, Broken Arrow, Oklahoma

Major subject: Theology.

J. Cobbie De Graft, Accra, Ghana

Major subject: International Peace Studies.

Cathy Della Mora, Toronto, Canada

Major subject: Psychology. Thesis: Impact of
Depression on Memory Performance of Older
Adults. Director: Dr. Sheridan P. McCabe.

Sister Mary Immaculate Doyle, Media, Pennsylvania

Major subject: Theology.

Robert A. Ercoline, Jr., Bluefield, West Virginia
Major subject: Theology.

Robert Floyd Gallant, Bloomfield, P.E.I., Canada
Major subject: Theology.

Maria Teresa Caridad Padilla Gallego, Manila, Philippines
Major subject: International Peace Studies.

Patrick T. Gillen, Iselin, New Jersey
Major subject: History

Daniel Bartholomew Girardot, Austin, Texas
Major subject: Theology.

Nicholas James Glisson, Evinston, Florida
Major subject: Theology.

Sr. Donna Marie Gould, S.B.S., Santa Fe, New Mexico
Major subject: English.

Sister Marie Malachy Griffin, O.P., San Angelo, Texas
Major subject: Theology.

Mark Louis Gunty, Hometown, Illinois
Major subject: International Peace Studies.

John R. Gustafson, La Porte, Indiana
Major subject: Art, Art History, and Design.
Thesis: The Work of Luciano Fabro.
Director: Dr. Craig E. Adcock.

Laurie Ann Catherine Hanmer, Ancaster, Ontario, Canada
Major subject: Theology.

Janis Haustein, SSND, Mankato, Minnesota
Major subject: Theology.

Rita Kathleen Hessley, Bowling Green, Kentucky
Major subject: Theology.

Raymond Alan Hetu, Woonsocket, Rhode Island and Providence Plantation
Major subject: Theology.

Susan K. Hixon, Carlsbad, California
Major subject: International Peace Studies.

Elizabeth A. Hudson, Indianapolis, Indiana
Major subject: Psychology.

Janine Marie Idziak, Dubuque, Iowa
Major subject: Theology.

Keiko Nagai Ito, Tokyo, Japan
Major subject: International Peace Studies.

Carla A. Jurgensmeyer, Rogers, Arkansas
Major subject: Psychology.

Michael Edward Lee, Miami, Florida
Major subject: Theology.

Felicia Ann Leon, Wellsburg, West Virginia
Major subject: International Peace Studies.

Victor Bradley Lewis, Germantown, Maryland
Major subject: Government and International Studies.

Jeanne Catherine Lowe, South Bend, Indiana
Major subject: Theology.

L. Gregory Maggetti, Huntingdon Valley, Pennsylvania
Major subject: Economics.

Susan Grace Martin, Highland, Indiana
Major subject: Communication Arts.

Toyoko Suzuki Matsushashi, Tokyo, Japan
Major subject: Economics.

Christine L. Matusik, Grafton, Ohio
Major subject: International Peace Studies.

Daniel R. McAfee, Grosse Ile, Michigan
Major subject: Theology.

Sally Henning McCuen, Roseville, Michigan
Major subject: Theology.

Terence Michael McFadden, South Bend, Indiana
Major subject: Communication Arts.

John Francis Murphy, Jr., Wantagh, New York
Major subject: History.

Melissa A. Murphy, Mishawaka, Indiana
Major subject: Government and International Studies. Thesis: On the Porch but not in the House: Money and Republican Congressional Candidates. Director: Dr. L. John Roos.

Phyllis S. Murphy, RSM, New York, New York
Major subject: History.

Russell Anderson Newbert, Buffalo, New York
Major subject: Theology.

Kipp Alan Normand, Detroit, Michigan
Major subject: American Studies. Thesis:
A Zion of Summer: Winona Lake as a Kind
of Religious Chautauqua.
Director: Dr. Barbara Allen.

Kevin M. O'Connor, Old Bridge, New Jersey
Major subject: Theology.

Margaret Quinn, OSF, Joliet, Illinois
Major subject: Theology.

Patricia Gail Rickey, Houston, Texas
Major subject: Psychology.

Theodore David Rothrock, Lafayette, Indiana
Major subject: Theology.

Nicholas John Schrantz, Madison, Wisconsin
Major subject: Psychology.

Kenneth Alan Schultz, Normal, Illinois
Major subject: English.

Rita Burns Senseman, Terre Haute, Indiana
Major subject: Theology.

Ruth Haines Shriver, South Bend, Indiana
Major subject: Theology.

Daniel Joseph Slattery, South Bend, Indiana
Major subject: International Peace Studies.

Alan Joseph Smigielski, Providence, Rhode Island
Major subject: History.

Rev. Michael A. Smith, Renfrew, Ontario, Canada
Major subject: Philosophy.

Elizabeth A. Smoyer, S.N.D., South Bend, Indiana
Major subject: Theology.

Megan Mary Tennent, Cincinnati, Ohio
Major subject: Psychology.

Ranjini Lungoomiah Thaver, Pretoria, South Africa
Major subject: Economics.

Thomas Tracy Tuttle, Bellingham, Massachusetts
Major subject: International Peace Studies.

Hilda Leticia Valentin, Gainesville, Florida
Major subject: Theology.

Stephen S. Witte, Hastings, Nebraska
Major subject: History.

Yanfang Yan, Shanghai, People's Republic of China
Major subject: International Peace Studies.

Liang Zhu, Nanjing, People's Republic of China
Major subject: International Peace Studies.

Zoughbi Elias Zoughbi, Bethlehem, Israel
Major subject: International Peace Studies.

THE DEGREE OF MASTER OF SCIENCE ON:

Mark William Borden, Toledo, Ohio
Major subject: Physics.

Guang Z. Chen, Urumgi, Peoples Republic of China
Major Subject: Mathematics

Ambar Kumar Chowdhury, London, England
Major subject: Mathematics.

Kathryn Elizabeth Enochs, Lexington, Kentucky
Major subject: Mathematics.

Laura Ann Van Wormer, Lambertville, Michigan
Major subject: Physics.

THE DEGREE OF MASTER OF SCIENCE IN AEROSPACE ENGINEERING ON:

Gregory Mason Cole, Grand Forks, North Dakota
Thesis: Experimental Measurements of the
Laminar Separation Bubble on an Eppler 387
Airfoil at Low Reynolds Numbers.
Director: Dr. Thomas J. Mueller.

Daniel F. Scharpf, Granger, Indiana
Thesis: An Experimental Study of Closely
Coupled Tandem Wing Configurations
at Low Reynolds Numbers.
Director: Dr. Thomas J. Mueller.

Scott Andrew Thompson, Fort Lauderdale, Florida
Thesis: Surface Pressure Distributions on a
Delta Wing undergoing Large Amplitude Pitching
Oscillations. Directors: Drs. Robert C. Nelson
and Stephen M. Batill.

THE DEGREE OF MASTER OF ARCHITECTURE ON:

Bradford Lee Angelini, Newport, Rhode Island
Theresa Luthman Angelini, Columbus, Ohio

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

Indresh Rampall, New Delhi, India

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

Willard Thomas Lawler, St. Mary's, Ohio

Thesis: Damage Tolerance of Aircraft Wheels.

Director: Dr. Billie F. Spencer, Jr.

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

Lance Charles Perez, Springfield, Virginia

Thesis: Error Performance of Bandwidth Efficient

Inner Codes. Director: Dr. Daniel J. Costello, Jr.

Ellen Louise Pryor, Brant Rock, Massachusetts

Thesis: Performance of Trellis Coded

Modulation on Non-uniform Channels.

Director: Dr. Daniel J. Costello, Jr.

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

Patrick Andrew Mullen, Vicenza, Italy

Thesis: Practical Issues in the Design and

Operation of Slow Sand Filters in Small

Communities. Director:

Dr. Lloyd H. Ketchum, Jr.

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

Hong-zheng Cui, Beijing, People's Republic of China

Paul Robert McHugh, Butte, Montana

Robert Conrad Seaman, Winfield, Illinois

Thesis: Kinematic Analysis of an Industrial

Manipulator. Director: Dr. Michael M. Stanisic.

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

Patricia J. Adams, South Bend, Indiana

Linda Harder Barlow, St. Joseph, Michigan

Carolyn Marie Bender, Crown Point, Indiana

Walter Andrew Blake, South Bend, Indiana

Douglas John Bognar, South Bend, Indiana

Sally A. Bola, Hammond, Indiana

David Lee Bradley, South Bend, Indiana

Jeffrey Craig Brittain, Sioux City, Iowa

Mary Noreen Broering, North Olmstead, Ohio

Ann C. Souigny Brown, Ft. Wayne, Indiana

John Kilner Carr, St. Joseph, Michigan

Sister Mary Michelle Chicoine, S.C., Wilmette,

Illinois

Linda Arnell Chmielewski, Sauk Rapids, Minnesota

Barbara Jean Crowley, Lancaster, Ohio

Carola Marie Cummings, South Bend, Indiana

Sister Clare Marie Dalton, Sacramento, California

David E. Dickinson, S.D.B., Edmonton, Alberta,

Canada

Patricia Kathleen Donovan, S.S.A., Victoria,

British Columbia, Canada

Phyllis Marie Emmons, South Bend, Indiana

Donna Kay Wombacher Faudree, South Bend, Indiana

Michael Alan Ferrill, South Bend, Indiana

William J. Flynn IV, Pottsville, Pennsylvania

Dale A. Getz, Niles, Michigan

Glenda Ann Goodrich-Graham, South Bend, Indiana

Darrell Rodney Gordon, Hillside, New Jersey

Madeline Carroll Halstead, Granger, Indiana

Linda Nicholas Hamilton, Mishawaka, Indiana

Ying Zhao Hao, Beijing, People's Republic of China

Shawn Patrick Heffern, Carmel, Indiana

Peggy Joan Johnson, St. Johns, Newfoundland, Canada

Martin Alan Lebbin, Kalamazoo, Michigan

Patti Ann Lee, St. Joseph, Michigan

Kyle Stewart Malone, Richmond, Indiana

Jean Marion Marthaler, Lakes of the Four Seasons,

Indiana

Marian Patrick Matthews, Tulsa, Oklahoma

Stanley W. Miller, Elkhart, Indiana

Sister Mary Anne Mowat, Hamilton, Ontario, Canada

Shuxiang Pan, Beijing, People's Republic of China

Mary E. Pruitt, Buchanan, Michigan

Thomas Bernard Rehder II, Sacramento, California

Guy Francis Roddy, Plattsburgh, New York

Margaret Clara Rudas, South Bend, Indiana

Patricia Ann Rupiper, Mishawaka, Indiana

James Jacob Schriock, Butte, Montana

Christine T. Sopczynski, South Bend, Indiana

Sister Joan Utecht, St. Paul, Minnesota

Sheran Elizabeth Payne Wallis, St. Joseph, Michigan

Sister Donna Marie Watto, Merion Station,

Pennsylvania

Herbert C. Yost, C.S.C., South Bend, Indiana

Daniel R. Zeitler, Kalamazoo, Michigan

In the Law School

THE DEGREE OF MASTER OF LAWS ON:

Wan Jane Chen, Taipei, Taiwan, R.O.C.
Hugo Johan DeWaal, *Magna Cum Laude*,
Port Elizabeth, South Africa
Emmanuele Denis, Brussels, Belgium
Margret Dirksen, Hamburg, West Germany
Francisco Javier Gutierrez-Caballero, Monterrey,
Nuevo Leon, Mexico
Mark V. Jordan, Spokane, Washington
Chien-Yi Lee, Taipei, Taiwan, R.O.C.
Ramon Mullerat, Barcelona, Spain
Susan Kay Oldenburg, Rockford, Illinois
Sanchai Polchai, Amphoe, Mondhaburi, Thailand

THE DEGREE OF JURIS DOCTOR ON:

Fara P. Evans, Pittsburgh, Pennsylvania

The College of Arts and Letters

THE DEGREE OF BACHELOR OF ARTS ON:

Mary Sarah Andreano, Joliet, Illinois
Grace Cecelia Brown, Prattsville, New York
Richard N. Coglianese, Westerville, Ohio
Terence Daniel Dalton, Lansing, Michigan
Debra A. Delahanty, *With High Honors*, Atlanta, Georgia
Brian Joseph Duffy, Southampton, Pennsylvania
Kathleen K. Duggan-Boudreau, South Bend, Indiana
Kathleen Marie Emond, Lakeville, Minnesota
Miguel Alejandro Esteva-Wurts, San Angel, Mexico
Thomas Francis Fay, Chelsea, Massachusetts
Christine Louise Finn, Rochester, New York
David Ryan Gallivan, Santa Ana, California
Christopher M. Garrity, Pittsburgh, Pennsylvania

Jeffrey Rufus Hanna, Lima, Ohio
Jeffrey T. Henderson, Columbus, Indiana
Christopher James Hodder, Katonah, New York
Matthew Gordon Hough, Mesa, Arizona
Joseph Jude Kelty, Youngstown, Ohio
John Paul Kennedy, Jr., Bedford, New York
Mildred Kimberly Kilgore, Gary, Indiana
Christopher M. Koster, McLean, Virginia
Andrew Thomas Kostielney, South Bend, Indiana
John Joseph Loughran, Windsor Locks, Connecticut
Stephen Patrick Lowery, San Jose, California
Leo Adolph McNellis, *With Honors*, Fort Wayne, Indiana
John Erin McOsker, San Pedro, California
Bao Nhu Nguyen, Mineola, New York
Ernest A. Olivarría, Salinas, California
Michael P. Pajor, South Bend, Indiana
Andrew Lee Slaggert, Saginaw, Michigan
Janette Marie Smith, David City, Nebraska
Kimberley Lynn Sollinger, *With Honors*, Cincinnati, Ohio
Mark Francis Telepak, Seven Hills, Ohio
Michael David Thurnherr, Bayonet Point, Florida
Paul Edward VanHoomissen, Danville, California
Christine Marie Wassell, Charlotte, North Carolina
Sharon Lee Young, Oakmont, Pennsylvania

The College of Engineering

THE DEGREE OF BACHELOR OF ARCHITECTURE ON:

Matthew Thomas Brehm, Palatine, Illinois
David Richard Hill, South Bend, Indiana
James Lee Wehner, Salix, Pennsylvania

THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL ENGINEERING ON:

James Joseph Lynn, Philadelphia, Pennsylvania

**THE DEGREE OF ELECTRICAL
ENGINEERING ON:**

Shawn Joseph Gaffney, Chicago, Illinois

**THE DEGREE OF METALLURGICAL
ENGINEERING ON:**

George Gary Calafactor, Aliquippa, Pennsylvania

The College of Business Administration

**THE DEGREE OF BACHELOR OF BUSINESS
ADMINISTRATION ON:**

Timothy Paul Cryan, Laurel Springs, New Jersey
William Richard Jackomis, Redondo Beach, California
Kirby Garrett Kinghorn, Indianapolis, Indiana
Timothy Michael Kirk, St. Paul, Minnesota
Gregory Paul Kujawa, West Seneca, New York
Sharon Denise Miller, Elkhart, Indiana
Thomas M. Monaghan, Grand Rapids, Michigan
George Ryan Purcell, Rye, New York
Sean Clement Ryan, Saratoga, California
Mark Alan Sculati, La Crosse, Wisconsin
Julia Marie Weisenberger, River Forest, Illinois

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 doctor's 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	NURSING-----	Apricot
ARTS, LETTERS, HUMANITIES -----	White	OPTOMETRY-----	Sea Foam Green
COMMERCE, ACCOUNTANCY, BUSINESS ----	Drab	ORATORY (SPEECH) -----	Silver Gray
DENTISTRY -----	Lilac	PHARMACY-----	Olive Green
ECONOMICS -----	Copper	PHILOSOPHY -----	Dark Blue
EDUCATION -----	Light Blue	PHYSICAL EDUCATION -----	Sage Green
ENGINEERING -----	Orange	PODIATRY-CHIROPODY -----	Nile Green
FINE ARTS, INCLUDING		PUBLIC ADMINISTRATION, INCLUDING	
ARCHITECTURE -----	Brown	FOREIGN SERVICE-----	Peacock Blue
FORESTRY -----	Russet	PUBLIC HEALTH -----	Salmon Pink
JOURNALISM -----	Crimson	SCIENCE -----	Golden Yellow
LAW -----	Purple	SOCIAL SCIENCE-----	Cream
LIBRARY SCIENCE -----	Lemon	SOCIAL WORK -----	Citron
MEDICINE -----	Green	THEOLOGY-----	Scarlet
MUSIC -----	Pink	VETERINARY SCIENCE -----	Gray

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

