

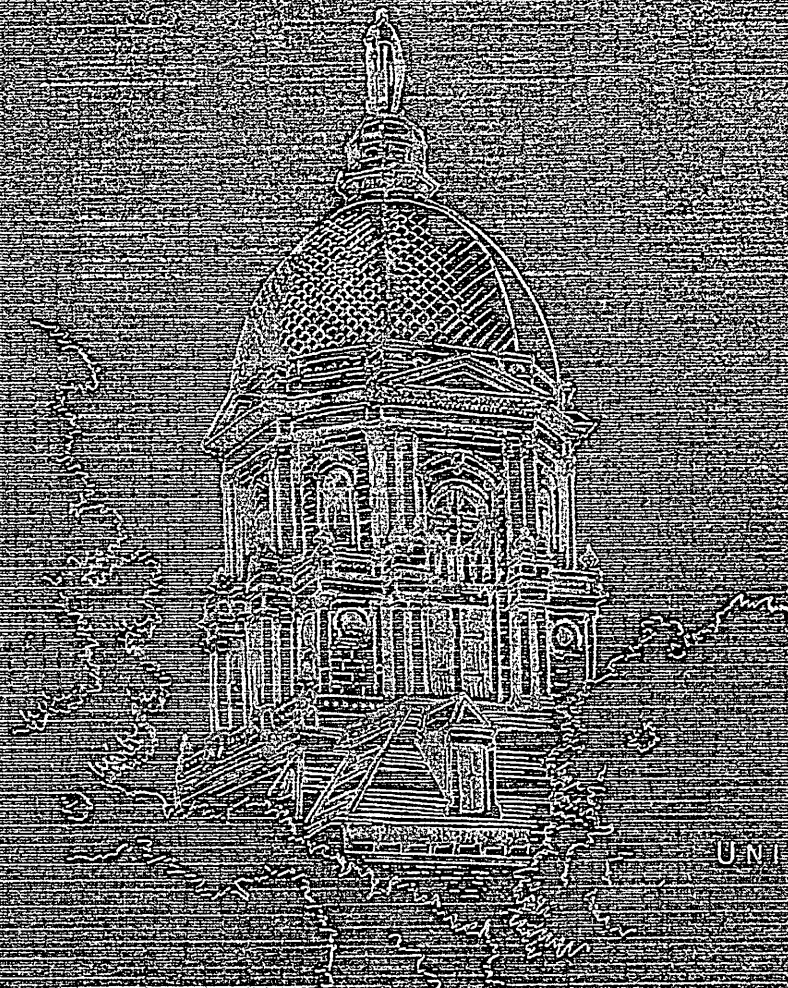
153<sup>rd</sup>

COMMENCEMENT

EXERCISES

FRIDAY,

AUGUST 7, 1998



JOYCE CENTER

UNIVERSITY OF NOTRE DAME

NOTRE DAME, INDIANA



OFFICIAL

153<sup>rd</sup>

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COMMENCEMENT

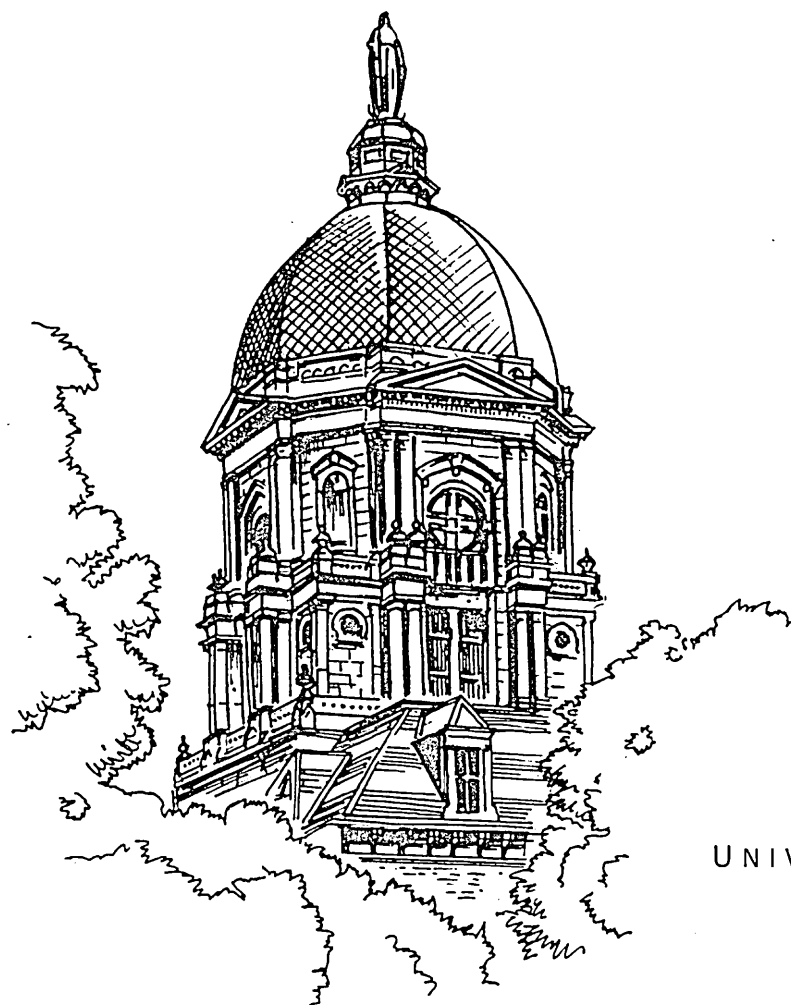
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EXERCISES

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FRIDAY,

AUGUST 7, 1998



JOYCE CENTER

UNIVERSITY OF NOTRE DAME

NOTRE DAME, INDIANA



# Events of the Day

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Friday, August 7, 1998

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## BACCALAUREATE MASS

**8:30 a.m.**

Degree Candidates and Faculty assemble for Academic Procession to the Basilica of the Sacred Heart: Courtyard between Hayes-Healy Center and LaFortune Student Center.

**8:40 a.m.**

Procession Begins. (Please note: If the weather is inclement, the procession will be canceled. Proceed directly to the Basilica.)

**9:00 a.m.**

Concelebrated Baccalaureate Mass: the Basilica of the Sacred Heart

### *Principal Celebrant and Homilist*

Rev. Austin I. Collins, C.S.C.

Chair and Associate Professor

Department of Art, Art History and Design

### *Concelebrants*

Priests who will be receiving degrees, priest members of the faculty, and priest members of the Congregation of the Holy Cross

## COMMENCEMENT EXERCISES

### CONFERRAL OF DEGREES

**10:25 a.m.**

Degree Candidates and Faculty assemble in the North Dome of the Joyce Center.

**10:50 a.m.**

Academic Procession begins.

**11:00 a.m.**

Conferring of Degrees Ceremony in the Joyce Center Concourse

### *Presiding Officer*

Francis J. Castellino, Ph.D.

Dean of the College of Science

### *Commencement Address*

John F. Affleck-Graves, Ph.D.

Chair and Professor of Finance and Business

Economics

Department of Finance and Business Economics

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

Reception immediately following the ceremony for graduates and guests: Joyce Center - South Dome

153<sup>rd</sup>

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BACCALAUREATE

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MASS

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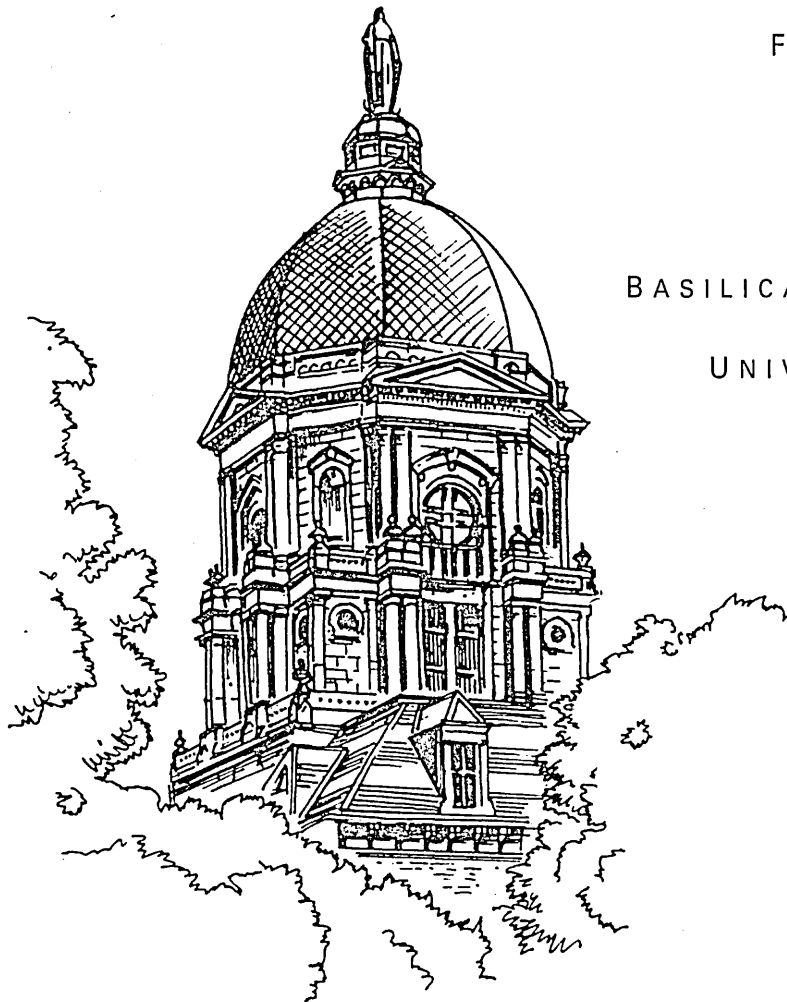
FRIDAY, AUGUST 7, 1998

9 A.M. EST

BASILICA OF THE SACRED HEART

UNIVERSITY OF NOTRE DAME

NOTRE DAME, INDIANA



*Principal Celebrant and Homilist*  
Rev. Austin I. Collins, C.S.C.

*Organist*  
Dr. Gail L. Walton

*Cantor*  
Mr. Kelly B. Kramer

*Psalmist*  
Dr. Johan M.J. VanParys

*The Quintessence Brass*



# BACCALAUREATE MASS

## Opening Rites

### ACADEMIC PROCESSION

Trumpet Voluntary .....Stanley

### OPENING HYMN

Joyful, Joyful We Adore Thee

*Tune: Hymn to Joy*



1. Joy - ful, joy - ful, we a - dore you, God of glo - ry, Lord of love;
2. All your works with joy sur-round you, Earth and heav'n re - flect your rays,
3. Al - ways giv - ing and for - giv - ing, Ev - er bless - ing, ev - er blest,
4. Mor - tals join the might - y cho - rus, Which the morn - ing stars be - gan;



Hearts un - fold like flowers be - fore you, Open - ing to the sun a - bove.  
Stars and an - gels sing a - round you, Cen - ter of un - bro - ken praise;  
Well - spring of the joy of liv - ing, O - cean depth of hap - py rest!  
God's own love is reign - ing o'er us; Join - ing peo - ple hand in hand.



Melt the clouds of sin and sad - ness; Drive the dark of doubt a - way;  
Field and for - est, vale and moun - tain, Flow - ery mead - ow, flash - ing sea,  
Lov - ing Fa - ther, Christ our broth - er, Let your light up - on us shine;  
Ev - er sing - ing, march we on - ward, Vic - tors in the midst of strife;



Giv - er of im - mor - tal glad - ness, Fill us with the light of day!  
Chant - ing bird and flow - ing foun - tain, Prais - ing you e - ter - nal - ly!  
Teach us how to love each oth - er, Lift us to the joy di - vine.  
Joy - ful mu - sic leads us sun - ward In the tri - umph song of life.

### PENITENTIAL RITE

### OPENING PRAYER

# LITURGY OF THE WORD

## READING I

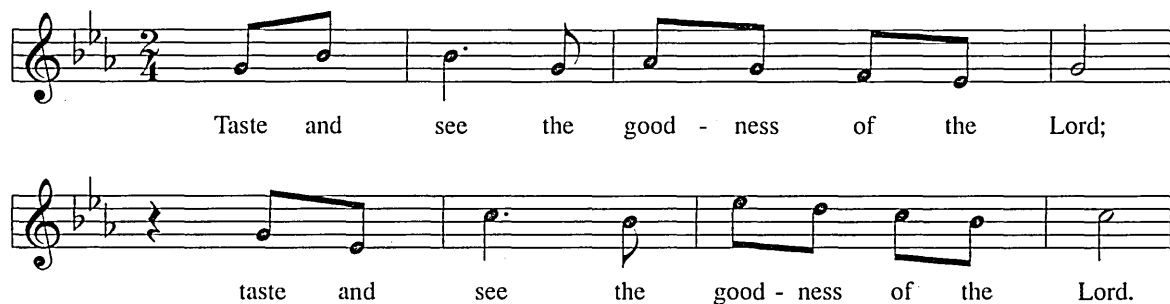
Ephesians 3: 14-19

*Please be seated.*

## RESPONSORIAL PSALM

Psalm 34: 2-3, 4-5, 6-7, 8-9

*Willcock, S.J.*



## GOSPEL ACCLAMATION



## GOSPEL

Matthew 16: 24-28

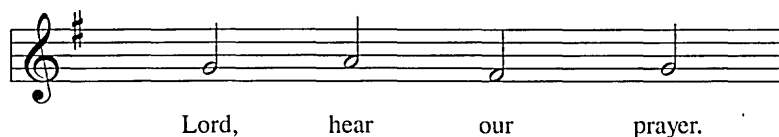
*For those wearing academic garb,  
it is customary for men,  
but not for women,  
to have their caps removed  
during the Gospel and Homily.*

## HOMILY

Rev. Austin I. Collins, C.S.C.

*Please be seated.*

## GENERAL INTERCESSIONS



# LITURGY OF THE EUCHARIST

## PREPARATION OF THE GIFTS

*Please be seated.*

Ave Verum Corpus ..... W. A. Mozart

# Eucharistic Prayer

## INTRODUCTORY DIALOGUE + PREFACE

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

## SANCTUS

*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

*Proulx*



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



## GREAT AMEN

*Proulx*



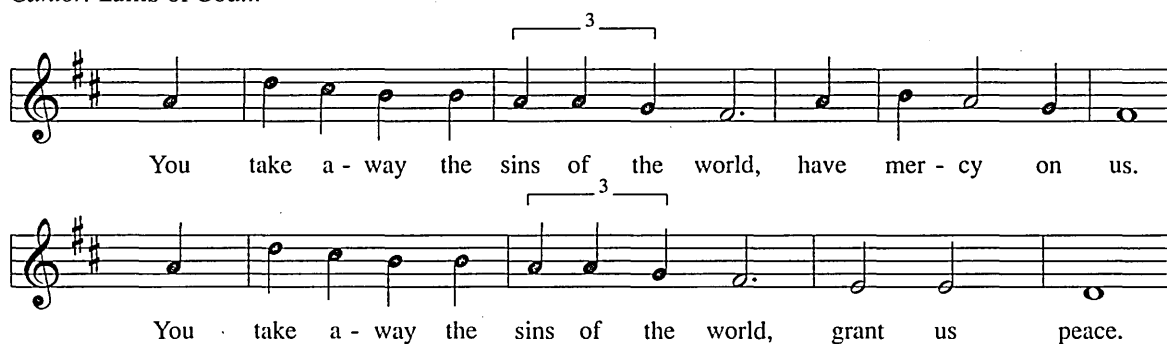
## Communion Rite

### LORD'S PRAYER + SIGN OF PEACE

### BREAKING OF THE BREAD + AGNUS DEI

*Isele*

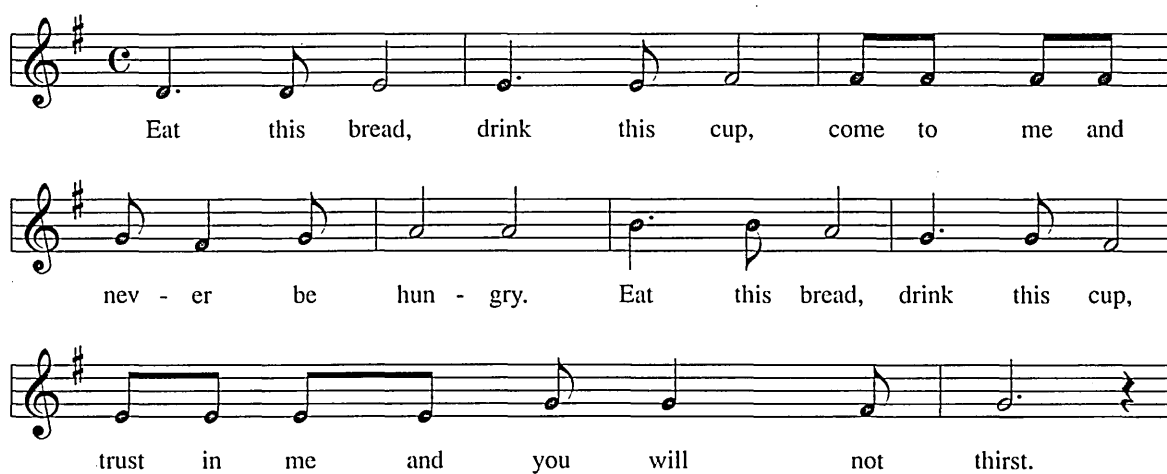
*Cantor: Lamb of God...*



### RECEPTION OF COMMUNION

Eat This Bread

*Berthier*



### PRAYER AFTER COMMUNION



# Closing Rites

## ALMA MATER

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

Love Divine, All Loves Excelling

Tune: Hyfrydol

1. Love, di - vine, all loves ex - cel - ling, Joy of  
2. Come, al - might - y to de - liv - er, Let us  
3. Fin - ish then your new cre - a - tion, Pure and

heav'n to earth come down! Fix in us your  
all your life re - ceive; Sud - den - ly re -  
spot - less, gra - cious Lord, Let us see your

hum - ble dwell - ing, All your faith - ful mer - cies crown.  
turn and nev - er, Nev - er more your tem - ples leave.  
great sal - va - tion Per - fect - ly in you re - stored.

Je - sus, source of all com - pas - sion, Love un -  
Lord, we would be al - ways bless - ing, Serve you  
Changed from glo - ry in - to glo - ry, Till in

bound - ed, love all pure; Vis - it us with  
as your hosts a - bove, Pray, and praise you  
heav'n we take our place, Till we sing be -

your sal - va - tion, Let your love in us en - dure.  
with - out ceas - ing, Glo - ry in your pre - cious love.  
fore the al - might - y Lost in won - der, love and praise.

### Acknowledgments

*Sanctus, Memorial Acclamation, Great Amen* (from the Community Mass) by Richard Proulx, *Lamb of God* by David Isele, *Eat This Bread* by Jacques Berthier; printed with permission of GIA Publications, Inc. 7404 S. Mason Ave., Chicago, IL, under license no. 1180. All rights reserved. Used with permission.

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The setting of *Psalm 34* by Christopher Willcock, S.J. © The Liturgical Press, Collegeville, MN. All rights reserved.

153<sup>rd</sup>

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COMMENCEMENT

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EXERCISES

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FRIDAY, AUGUST 7, 1998

11 A.M. EST

JOYCE CENTER — CONCOURSE

UNIVERSITY OF NOTRE DAME

NOTRE DAME, INDIANA

THE GRADUATE SCHOOL

THE LAW SCHOOL

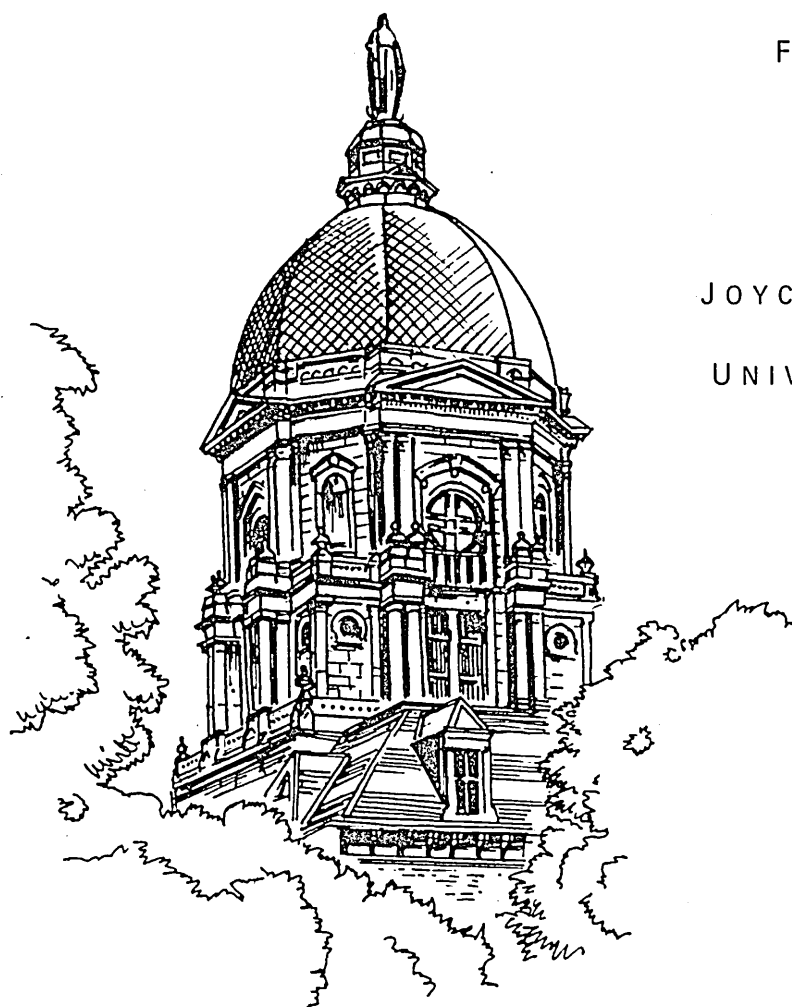
THE COLLEGE OF ARTS AND LETTERS

THE COLLEGE OF SCIENCE

THE COLLEGE OF ENGINEERING

THE GRADUATE AND  
UNDERGRADUATE DIVISIONS OF THE  
COLLEGE OF BUSINESS ADMINISTRATION

THE SCHOOL OF ARCHITECTURE



# Order of Exercises

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## **Processional**

by Harold L. Pace, Ph.D.  
University Registrar

## **America the Beautiful**

Ensemble and Audience  
-Bates-Ward

*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 Francis J. Castellino, Ph.D.  
Dean of the College of Science

## **Presentation of Candidates for Degrees**

The *Philosophiae Doctor* degree

by James H. Powell, Ph.D.  
Associate Dean of the Graduate School

The *Legum Magister* and *Juris Doctor* degrees

by David T. Link, J.D.  
Dean of the Law School

The Master degree

by James H. Powell, Ph.D.  
Associate Dean of the Graduate School

The Master of Science in Administration degree

by Edward R. Trubac, Ph.D.  
Associate Dean of the College of Business  
Administration

The Bachelor degree in the College of Arts and  
Letters

by Dian Murray, Ph.D.  
Associate Dean of the College of Arts and Letters

The Bachelor degree in the College of Science

by Steven A. Buechler, Ph.D.  
Associate Dean of the College of Science

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

The Bachelor degree in the College of Business  
Administration  
by Edward R. Trubac, Ph.D.  
Associate Dean of the College of Business  
Administration

**Commencement Address\***

by John F. Affleck-Graves, Ph.D.  
Chair and Professor of Finance and Business  
Economics  
Department of Finance and Business Economics

**Closing of the Convocation**

by Francis J. Castellino, Ph.D.  
Dean of the College of Science

**Notre Dame, Our Mother\* – (Alma Mater)**

Ensemble and Audience  
—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 and Graduates**

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\*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.

# Doctoral Degrees

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## THE DEGREE OF *PHILOSOPHIAE DOCTOR* ON:

**Marian F. Anton**, Strehia, Romania

Major Subject: Mathematics

Dissertation: On a Conjecture of Quillen

Director: Dr. William G. Dwyer

**Yuri V. Balashov**, Moscow, Russia

Major Subject: History and Philosophy of Science

Dissertation: Laws of Nature and the Universe:

Philosophical Implications of Modern Cosmology

Co-Directors: Dr. James T. Cushing and

Rev. Ernan McMullin

**Darrin W. Belousek**, Chatsworth, Illinois

Major Subject: History and Philosophy of Science

Dissertation: Ontological Commitments and

Theory Appraisal in the Interpretation of

Quantum Mechanics

Director: Dr. James T. Cushing

**Suzanne Bergeron**, Dearborn, Michigan

Major Subject: Economics

Dissertation: Fragments of Development: Three

Essays on Development, Structural Adjustment,

and Economic Knowledge

Director: Dr. David F. Ruccio

**Lucia Virginia Bortoli**, Notre Dame, Indiana

Major Subject: English

Dissertation: May Sinclair's Modernist

Experience: A Political Revision of Female

Subjectivity and Autobiographical Writing

Director: Dr. Barbara J. Green

**Dave L. Brunσμα**, Notre Dame, Indiana

Major Subject: Sociology

Dissertation: The Determinants of Parent Contact

with High Schools

Director: Dr. Maureen T. Hallinan

**Anne Irene Caldwell**, Tucson, Arizona

Major Subject: Government and International  
Studies

Dissertation: Towards an Ethics of Sexual

Difference: Reflections on Luce Irigaray

Director: Dr. Fred R. Dallmayr

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**Michael G. Clinton**, Pennsauken, New Jersey  
Major Subject: History  
Dissertation: The French Peace Movement,  
1821 - 1919  
Director: Dr. Thomas A. Kselman

**Willy Walter Cortez**, Lima, Peru  
Major Subject: Economics  
Dissertation: The Political Economy of Industrial  
Stagnation: Peru's Manufactures, 1970 - 1992  
Director: Dr. Amitava K. Dutt

**Sarah Anne Dakin**, Poughkeepsie, New York  
Major Subject: Psychology  
Dissertation: Can One Can Make a Difference?  
Exploring the Differential Effects of Norm  
Salience and the Self-Monitoring Trait on the  
Norm Focus Theory's Application to  
Recycling Behavior  
Director: Dr. Raymond R. Reno

**Jaleh Michelle Dashti-Gibson**, Houston, Texas  
Major Subject: Government and International  
Studies  
Dissertation: Enhancing Enforcement:  
A Framework for Monitoring Multilateral  
Economic Sanctions  
Director: Dr. George A. Lopez

**John J. Davenport**, Lancaster, Pennsylvania  
Major Subject: Philosophy  
Dissertation: Self and Will: An Existential Theory  
of Motivation and Frankfurt's Theme of  
Identification  
Director: Dr. Karl Ameriks

**Diana DiBerardino**, Steubenville, Ohio  
Major Subject: Physics  
Dissertation: Lifetime Measurements in  
Neutral Alkalies  
Director: Dr. Carol E. Tanner

**Wojciech Dorabiala**, Drezclenco, Poland  
Major Subject: Mathematics  
Dissertation: The Stratified Whitehead Group of a  
Negatively Curved Orbifold  
Director: Dr. Francis X. Connolly

**Lisa Ann Fabin**, Kenmore, New York  
Major Subject: Psychology  
Dissertation: Adult Attachment in Romantic  
Relationships: Predictors of Change Over Time  
Director: Dr. Ann P. Ruvolo

**Theresa Helen Farnan**, Hershey, Pennsylvania  
Major Subject: Medieval Studies  
Dissertation: Virtue and Kingship in Thomas  
Aquinas's *De Regno*  
Director: Dr. Mark D. Jordan

**Darlene Kaye Flaming**, Tulsa, Oklahoma  
Major Subject: Theology  
Dissertation: The Appeal to the Apostles:  
The Use of the Apostolic Church in the Writings  
of John Calvin  
Director: Dr. Randall C. Zachman

**Allison Susan Fuss**, Memphis, Tennessee  
Major Subject: History  
Dissertation: Riding Buffaloes and Broncos:  
Rodeo as a Twentieth Century Northern Plains  
Indian Family, Tribal and Inter-Tribal Tradition,  
1890 - 1996  
Director: Dr. Walter Nugent

**Molly Murphy Garwood**, Whitefish Bay, Wisconsin  
Major Subject: Psychology  
Dissertation: Parental Sensitivity, Parenting  
Beliefs, and Child Temperament: Modeling Effects  
on Mother- and Father- Infant Attachment  
Director: Dr. Julia M. Braungart-Rieker

**Heather Lyn Grob**, Silver Spring, Maryland  
Major Subject: Economics  
Dissertation: Self-Regulation and Safety Programs  
in Construction  
Director: Dr. Teresa Ghilarducci

**Ann Klunzinger Heilman**, East Lansing, Michigan  
Major Subject: Physics  
Dissertation: Investigation of Photoinduced  
Effects in Ca-Doped and Fast Neutron Irradiated  
 $\text{YBa}_2\text{Cu}_3\text{O}_{6+\delta}$  Thin Films  
Director: Dr. Howard A. Blackstead

**Mark Allan Heilman**, Belleair, Florida  
Major Subject: Biological Sciences  
Dissertation: Effects of Submersed, Vascular  
Plants on Methane Cycling and Release from the  
Littoral Zone of Lakes  
Director: Dr. Richard G. Carlton

**Yamin Huang**, Fujian, People's Republic of China  
Major Subject: Mathematics  
Dissertation: On Two Parabolic Systems:  
Convergence and Blowup  
Co-Directors: Dr. A. Alexandrou Himonas and  
Dr. Bei Hu

**Gerard Marin Jacobitz**, Collegeville, Minnesota  
Major Subject: Theology  
Dissertation: Robert Sokolowski's Theology of  
Disclosure: A Constructive Appraisal  
Director: Rev. David B. Burrell, C.S.C.

**Stefan Kappe**, Windhagen, Germany

Major Subject: Biological Sciences  
 Dissertation: Isolation and Characterization of  
 Genes Encoding Chimeric Erythrocyte Binding  
 Proteins from *Plasmodium Yoelii Yoelii* and  
*Plasmodium Berghiei*  
 Director: Dr. John H. Adams

**Charles Dennison Kenney**, South Bend, Indiana

Major Subject: Government and International  
 Studies  
 Dissertation: Institutionalized Instability?  
 Questions for Democracy from Peru, 1980 - 1992  
 Director: Dr. Guillermo O'Donnell

**Andrew Evan Laursen**, Geneva, New York

Major Subject: Biological Sciences  
 Dissertation: Effects of Atrazine on Stream  
 Nitrogen Cycling Processes: Implications for  
 Agriculturally Impacted Streams in the  
 Midwestern United States  
 Director: Dr. Richard G. Carlton

**Ning Li**, Chongqing, People's Republic of China

Major Subject: Biological Sciences  
 Dissertation: Structure and Function of Antifreeze  
 Protein from Overwintering Beetle Larvae  
*Dendroides Canadensis*  
 Director: Dr. John G. Duman

**Tzu-fen Lin**, Pingtung, Taiwan

Major Subject: Physics  
 Dissertation: A Measurement of Three Cabbibo-  
 Suppressed Decays of the  $\Lambda_c^+$  Baryon  
 Director: Dr. Neal M. Cason

**Subrahmanyam Palur Mallampalli**, Madras, India

Major Subject: Physics  
 Dissertation: Fourth-Order Self-Energy  
 Contribution to the Two Loop Lamb Shift  
 Director: Dr. Jonathan R. Sapirstein

**Kevin Marshall Mecker**, South Bend, Indiana

Major Subject: Philosophy  
 Dissertation: Knowledge and Norms: A Defense of  
 Epistemic Justification  
 Director: Dr. Philip L. Quinn

**Ricardo Romero Méndez**, San Luis Potosí, Mexico

Major Subject: Mechanical Engineering  
 Dissertation: Study of External Heat Transfer  
 Mechanisms in Single-Row Fin and Tube Heat  
 Exchangers  
 Director: Dr. Mihir Sen

**Penny J. Heysek Miceli**, Medina, Ohio

Major Subject: Psychology  
 Dissertation: Intrapersonal and Environmental  
 Influences on Infant Information Processing:  
 The Role of Temperament and Parenting  
 Director: Dr. Thomas L. Whitman

**Nader Naderi**, Tehran, Iran

Major Subject: Sociology  
 Dissertation: The Absolutist State: The Case of  
 the Early Abbasid Caliphate  
 Director: Dr. Fabio B. Dasilva

**Steven M. Nolt**, South Bend, Indiana

Major Subject: History  
 Dissertation: German Faith, American Faithful:  
 Religion and Ethnicity in the Early American  
 Republic  
 Director: Dr. George M. Marsden

**Lachlan G. Peeke**, Wassergass, Pennsylvania

Major Subject: Psychology  
 Dissertation: Are Gender Differences in Young  
 Adolescents' Depressive Symptoms Explained by  
 Parent Beliefs About Their Children's  
 Academic Competence and Social Acceptance?  
 Director: Dr. David A. Cole

**Gabriele Poole**, Monte Compatri, Italy

Major Subject: English  
 Dissertation: Byron's Heroes and the  
 Byronic Hero  
 Director: Dr. Greg P. Kucich

**Brian Patrick Riley**, Los Angeles, California

Major Subject: English  
 Dissertation: Cognitive Violence in the Novel:  
 A Theory of the Grotesque  
 Co-Directors: Dr. Erskine Peters and  
 Dr. James H. Walton

**DeAnn Cary Romero**, San Diego, California

Major Subject: Psychology  
 Dissertation: Possible Selves and Parenting  
 Salience: Differences in Openness to Assisted  
 Reproduction and Adoption When Confronted  
 with Infertility  
 Director: Dr. Thomas V. Merluzzi

**Barbara Schmich Searle**, South Bend, Indiana

Major Subject: Psychology  
 Dissertation: The Client's Perspective: Adult  
 Attachment Style, Gender and the Self-Reported  
 Experience of Anxiety, Anger and Depression  
 Director: Dr. Naomi M. Meara



**Randall Brian Smith**, Notre Dame, Indiana  
Major Subject: Medieval Studies  
Dissertation: How the Old Law Shows Forth the Precepts of the Natural Law: A Commentary on Certain Questions Concerning the Law in the *Summa of Theology* of Thomas Aquinas  
Director: Dr. Ralph M. McInerney

**Deborah Lynn Spencer**, Roanoke, Virginia  
Major Subject: Economics  
Dissertation: History and Discourse in Law and Economics: 1920 - 1985  
Director: Dr. Charles K. Wilber

**Doran L. Stienike**, Omaha, Nebraska  
Major Subject: Physics  
Dissertation: An Analysis of the  $\pi^- \eta'$  System Produced in the Reaction  $\pi^- p \rightarrow \pi^- \eta' p$  at 18 GeV/c  
Director: Dr. John M. LoSecco

**Pamela Kay Thorpe**, Wichita, Kansas  
Major Subject: Psychology  
Dissertation: A Hierarchical Linear Modeling Approach Towards the Dynamic Assessment of Mathematical Conceptual Learning  
Director: Dr. Jeanne D. Day

**Johan M. J. Van Parys**, Minneapolis, Minnesota  
Major Subject: Theology  
Dissertation: A Place for Baptism: New Trends in Baptismal Architecture Since the Second Vatican Council  
Director: Rev. James F. White

**Mathew Abraham Verghis**, Trivandrum, India  
Major Subject: Economics  
Dissertation: Changing Constraints on Indian Industry  
Director: Dr. Amitava K. Dutt

**Dmitriy A. Vinarov**, Moscow, Russia  
Major Subject: Biochemistry  
Dissertation: Reaction Mechanism and Role of Metal Ions in Yeast Enolase Catalysis  
Director: Dr. Thomas L. Nowak

**Paul Dominic Worland**, Tiffin, Ohio  
Major Subject: Psychology  
Dissertation: Proctor Feedback in a Modified PSI Course Format: The Effects of Praise, Encouragement, and Group Information  
Director: Dr. Charles R. Crowell

**Chang-Guo Zhan**, Wuhan, People's Republic of China  
Major Subject: Chemistry  
Dissertation: Fully Polarizable Continuum Model for Solvation  
Co-Directors: Dr. Daniel M. Chipman and Dr. Robert H. Schuler

**Deyi Zhang**, Zoucheng, People's Republic of China  
Major Subject: Chemistry  
Dissertation: Total Syntheses of Carbocyclic Uracil Polyoxin C, Its Analogs and Conjugates  
Director: Dr. Marvin J. Miller

## Law School

### THE DEGREE OF *LEGUM MAGISTER* ON:

**John Rualo Castriciones**, Manila, Philippines  
**Katsumi Hashizume**, Kawanishi City, Japan  
**Ronald Khabbaz**, *Cum Laude*, Beirut, Lebanon  
**Francisco Alberto Lima Mena**, San Salvador, El Salvador  
**Patrick Nicolass Ploeger**, *Magna Cum Laude*, Castricum, Netherlands  
**Federico Rios Patrón**, Mexico City, Mexico  
**Niclas Schmiedmaier**, Vienna, Austria  
**Uraiwan Sintharapantorn**, Bangkok, Thailand

### THE DEGREE OF *JURIS DOCTOR* ON:

**Robert M. Freedman**, Spokane, Washington  
**Effi A. Vandevoorde**, Sint Amands, Belgium

# Master Degrees

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*In the Graduate School*

---

## THE DEGREE OF MASTER OF FINE ARTS ON:

**Mark Behr**, Johannesburg, South Africa  
Major Subject: English  
Thesis: Art and the Boy  
Director: Prof. Valerie Sayers

## THE DEGREE OF MASTER OF ARTS ON:

**Tara Aziz**, Erbil, Iraq  
Major Subject: Peace Studies

**Helena Hofbauer Balmori**, Mexico City, Mexico  
Major Subject: Peace Studies

**Phillip Ray Boclter**, Minneapolis, Minnesota  
Major Subject: Theology

**William Patrick Bolan**, Flushing, New York  
Major Subject: Theology

**Jennifer Elizabeth Burke**, Dixon, Illinois  
Major Subject: Psychology  
Thesis: Risk and Resilience in the Children of  
Adolescent Mothers  
Director: Dr. John G. Borkowski

**Mary Ellen Moreau Capdevielle**, Woodridge, Illinois  
Major Subject: Theology

**Ruth Ellen Cunnings**, Memphis, Michigan  
Major Subject: Theology

**Mioara Deac**, Cluj-Napoca, Romania  
Major Subject: Peace Studies

**Michael Deemer**, Ontario, Ohio  
Major Subject: Peace Studies

**Karen Elizabeth Dickman-Kane**, Cincinnati, Ohio  
Major Subject: Theology

**Marianne Engelmann**, Newark, Ohio  
Major Subject: Theology

**Elizabeth Barry Erbaugh**, Minneapolis, Minnesota  
Major Subject: Peace Studies

**Jerry Steven Fabiano**, Denver, Colorado  
Major Subject: Theology

**Troy Ernest Feay**, Brookings, South Dakota  
Major Subject: Theology

**Mary Beth Feeser**, Jacksonville, Florida  
Major Subject: Theology

**Sharie Marietta Fogarty**, Newburgh, New York  
Major Subject: Art History  
Thesis: *Blurred Definitions: An In Depth Analysis of Gerhard Richter's Woman Descending the Staircase*  
Director: Dr. Robert Haywood

**Dalia M. Haj-Omar**, Abu-Dhabi,  
United Arab Emirates  
Major Subject: Peace Studies

**Jonathan P. Hall**, Naperville, Illinois  
Major Subject: Theology

**Linda S. Harrington**, Sioux City, Iowa  
Major Subject: Theology

**Colin James Holden**, Richmond, Indiana  
Major Subject: History and Philosophy of Science  
Thesis: *Letting the Native Speak: Professional Authority and Writing in Nineteenth and Early Twentieth Century American Anthropology*  
Co-Directors: Dr. Christopher S. Hamlin,  
Dr. Phillip R. Sloan, and Dr. James C. Turner

**Edward W. Hunt**, Boise, Idaho  
Major Subject: Peace Studies

**Haim Itzhaki**, Hadera, Israel  
Major Subject: Peace Studies  
Thesis: *The Just War Theory Revisited: Cooperation with the Enemy as a Different Form of Nonviolent Resistance*  
Director: Dr. Fred R. Dallmayr

**Yi Jian**, Jiangxi, People's Republic of China  
Major Subject: Peace Studies

**Katarina Ruth Ingrid Keller**, Duved, Sweden  
Major Subject: Economics

**Kelly Baker Kramer**, Memphis, Tennessee  
Major Subject: Theology

**April Catherine Elizabeth Langley**, New York,  
New York  
Major Subject: English

**Mary Suzanne Lauinger**, Tulsa, Oklahoma  
Major Subject: Spanish Literature

**Elena-Maria M. Mangione-Lora**, South Bend,  
Indiana  
Major Subject: Spanish Literature  
Thesis: *Representations of Haitians in Dominican Poetry: Their Role in the Construction of Dominican National Identity*  
Co-Directors: Prof. Dominic R. Thomas and  
Dr. Kristine L. Ibsen

**Eric Farrel Mason**, Collinwood, Tennessee  
Major Subject: Theology

**Tilla Sewe McAntony**, Nairobi, Kenya  
Major Subject: Peace Studies

**Yulia Melnichuk**, Kharkov, Ukraine  
Major Subject: Peace Studies

**Anne Monaghan**, Fermanagh, United Kingdom  
Major Subject: Peace Studies

**Ekaterina Moryakova**, Tashkent, Uzbekistan  
Major Subject: Peace Studies

**Glenna Oberladstaetter**, Innsbruck, Austria  
Major Subject: Peace Studies

**Mary Anne Orszag**, Lansing, Michigan  
Major Subject: Art History  
Thesis: *Ave Regina Caelorum: Musician Angels and Marian Themes in Northern Renaissance Painting*  
Director: Dr. Charles M. Rosenberg

**Shushanik Papanyan**, Yerevan, Armenia  
Major Subject: Peace Studies

**Jerry Park**, Warminster, Pennsylvania  
Major Subject: Sociology  
Thesis: *Religious Influences on the Volunteering Behavior of Churchgoing Protestants*  
Director: Dr. Kevin J. Christiano

**Christine Renee Petersen**, Elkhart, Indiana  
Major Subject: Sociology  
Thesis: *Social Reactions Toward Persons Seeking Treatment for a Mental Illness*  
Director: Dr. Richard A. Williams

**Julie Katherine Potter**, Prairie Farm, Wisconsin  
Major Subject: Psychology  
Thesis: *Number Accessibility and Verb Agreement: Examining Subject-Verb Agreement from the Constraint-Based Approach*  
Director: Dr. Kathleen Eberhard

**James Grant Ravenscroft**, The Pas, Manitoba, Canada  
Major Subject: Theology

**David Reyes**, Santa Barbara, California  
Major Subject: Peace Studies

**Craig Alan Satterlee**, Roseville, Michigan  
Major Subject: Theology

**Jeffrey Allen Schiffman**, Medina, Ohio  
Major Subject: Theology

**Joseph Michael Sharbel**, Kansas City, Missouri  
Major Subject: Theology

**Ithai Stern**, Jerusalem, Israel  
Major Subject: Peace Studies

**Eric Stephen Stromberg**, Fort Dodge, Iowa  
Major Subject: Sociology  
Thesis: Class and Economic Prospects: An Analysis of Class Voting and Working Class Defections 1984 - 1996  
Director: Dr. David S. Hachen, Jr.

**Jason Eugene Subler**, Berne, Indiana  
Major Subject: Peace Studies

**Therese Ann Terndrup**, Columbus, Ohio  
Major Subject: Theology

**Krisztina Zita Tihanyi**, Zalaegerszeg, Hungary  
Major Subject: Peace Studies

## THE DEGREE OF MASTER OF SCIENCE ON:

**Cathy A. Andorfer**, Great River, New York  
Major Subject: Biological Sciences  
Thesis: Seasonal Variation in the Expression of Antifreeze Proteins in *Dendroides Canadensis* Beetle Larvae and Isolation of Novel Antifreeze Proteins  
Director: Dr. John G. Duman

**Guanghong Chen**, Luoshan County, People's Republic of China  
Major Subject: Biological Sciences  
Thesis: 2,4,6-Trinitrotoluene Degradation Resulting from Stringent Selective Study  
Director: Dr. Charles F. Kulpa, Jr.

**István Daruka**, Karcag, Hungary  
Major Subject: Physics

**Tracey A. Gibson**, Courtland, Alabama  
Major Subject: Chemistry  
Thesis: Synthesis of Modified Nucleosides En Route to Potential Chemotherapeutic Agents  
Director: Dr. Marvin J. Miller

**Kerry Anne Hilfiker**, Manchester, New Hampshire  
Major Subject: Chemistry  
Thesis: Towards a Practical Synthesis of Epothilone A and Analogues: Enantioselective Synthesis of the C1-C6 Unit  
Director: Dr. Richard E. Taylor

**Hanjuan Jin**, Lanzhou, People's Republic of China  
Major Subject: Physics

**Maksim Aleksandrovich Makcev**, Moscow, Russia  
Major Subject: Physics

**Christine Marie Manubay**, Newark, Delaware  
Major Subject: Biological Sciences  
Thesis: Nonmuscle Myosin II-GFP Fusion Proteins as In Vivo Probes for Myosin Assembly in Mammalian Tissue Culture Cells  
Director: Dr. Douglas J. Fishkind

**Kristen Michelle Schaal**, Oakfield, New York  
Major Subject: Chemistry  
Thesis: The Electron Transfer Catalyzed Bergman Cyclization of Cyclic Aromatic Eneidyne  
Director: Dr. Olaf G. Wiest

## THE DEGREE OF MASTER OF SCIENCE IN APPLIED MATHEMATICS ON:

**Andrea Dawn Bieberich**, Clinton, Oklahoma  
Thesis: Quasiperiodic Solutions of Nonlinear Evolution Equations: Algebraic-Geometric Approach  
Director: Dr. Mark S. Alber

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

**Erik Jon Roggeman**, Elmhurst, Illinois  
Thesis: Spectroscopy and Solubility Measurements of Metal Chelate Complexes in Supercritical Carbon Dioxide Solutions  
Director: Dr. Joan F. Brennecke

**Lori Alison Spear**, New Orleans, Louisiana  
Thesis: Mathematical Modeling of Ecosystems  
Director: Dr. Roger A. Schmitz

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

**Dominic Charles Bartek**, Wahoo, Nebraska  
Thesis: Design and Evaluation of an  
At-the-Sense-Amplifier-Processor Datapath  
Director: Dr. Jay B. Brockman

**Richard Kendall**, Mishawaka, Indiana  
Thesis: The Modify-On-Access File System  
Director: Dr. Vincent W. Freeh

**Brian Christopher McCandless**, Omaha, Nebraska  
Thesis: The Role of Abstraction in High  
Performance Numerical Linear Algebra  
Director: Dr. Andrew Lumsdaine

**Kartik Nanda**, New Delhi, India  
Thesis: Analysis and Optimization of PIM  
Memory Organizations  
Director: Dr. Jay B. Brockman

**John Joseph Tran**, Sunnyvale, California  
Thesis: Efficient Simulation of Multiphase Flow in  
Three-Dimensional Fracture Networks  
Director: Dr. Andrew Lumsdaine

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

**Adrish Banerjee**, Calcutta, India

**THE DEGREE OF MASTER OF SCIENCE IN  
GEOLOGICAL SCIENCES ON:**

**Cathleen Elizabeth McGinnis**, Kaukauna,  
Wisconsin

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

**Toshihisa Doi**, Osaka, Japan  
Thesis: Utilization of Ultra-sonic Proximity Sensor  
and Speed Control for an Autonomous Wheelchair  
System  
Director: Dr. Steven B. Skaar

*In the College of  
Business Administration*

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

**Kimberly Rajski Beistle**, Niles, Michigan  
**Scott Anthony Franz**, Goshen, Indiana  
**Stephen Eric Freeman**, *Magna Cum Laude*,  
Alexandria, Indiana  
**Patricia Jones**, South Bend, Indiana  
**Sr. Joanne M. Kaminski**, Enfield, Connecticut  
**Deborah Joan Kruyer**, *Cum Laude*, Edwardsburg,  
Michigan  
**Dorena M. Brown-Lee**, South Bend, Indiana  
**Thomas Allen Molnar**, Mishawaka, Indiana  
**Bernard John Muster**, *Magna Cum Laude*,  
Punta Gorda, Florida  
**Sister Christine Marie Nizialek**, CSSF,  
*Magna Cum Laude*, Buffalo, New York  
**Steven Val Padilla**, Denver, Colorado  
**Sarah Craig Peterck**, *Magna Cum Laude*, Niles,  
Michigan  
**Anthony Zachary Rweza**, Kampala, Uganda  
**Sr. Margaret Sato**, *Magna Cum Laude*, Boston,  
Massachusetts  
**Joseph Steven Therber**, *Magna Cum Laude*,  
Indianapolis, Indiana  
**Tara Michelle Van Curen**, *Cum Laude*, Goshen,  
Indiana  
**Mary Alfonsa VanOverberghe**, Livonia, Michigan  
**Jing Wang**, *Cum Laude*, Benbu,  
People's Republic of China

# College of Arts and Letters

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## THE DEGREE OF BACHELOR OF FINE ARTS ON:

Jennifer Hillary Sullivan, Plano, Texas

## THE DEGREE OF BACHELOR OF ARTS ON:

Robert Barron III, El Paso, Texas

Patrick Martin Barry, Framingham, Massachusetts

Greg Daniel Borkowski, South Bend, Indiana

Christopher Frank Capoccia, *Magna Cum Laude*,  
West Islip, New York

Angela Matilde Capodivacca, South Bend, Indiana

Daniel Shiels Eagen, Cincinnati, Ohio

Jeffrey David Fersch, Pickerington, Ohio

Robert Edwin Finch, Arlington Heights, Illinois

Crystal Carol Hahaj, Niles, Michigan

Nathan Alan Harlan, Canton, Ohio

Robert Jerome Herman, *Cum Laude*, Bartlesville,  
Oklahoma

Michelle Susan Holden, *Cum Laude*, Williamsville,  
New York

Mary Kathleen Howard, Palos Park, Illinois

Dong Jun Jee, Alpharetta, Georgia

Berit Junker, *Magna Cum Laude*, Nauendorf,  
Germany

Timothy Allan Kistner, Houston, Texas

Nicole LaVern Lewis, Montclair, New Jersey

Lucas Henrik Livingston, *Cum Laude*, South Bend,  
Indiana

Thomas Burke Lopez, Mishawaka, Indiana

Rachel Ann Macmanus, Fredericksburg, Virginia

Patrick Thomas Murowsky, Wellington, Ohio

Katrina Marie Nielsen, Reno, Nevada

Brendan Christopher Oscan, Morristown,  
New Jersey

Lucas George Petitgout, Georgetown, Delaware

Richard Charles Raphael, Fairfax, Virginia

Danny Robledo, San Antonio, Texas

Emily Anne Sebastian, Wauwatosa, Wisconsin

Bradford Jason Stanis, Coral Springs, Florida

Kelly Christine Steele, Las Vegas, Nevada

Mary Lynn Stephens, *Cum Laude*, Mission Hills,  
Kansas

Jason Carl Sunday, Elkhart, Indiana

Joshua Michael Uebelhor, Huntingburg, Indiana

Erin O'Hara Walsh, Burr Ridge, Illinois

Jennifer Anne Williamson, Colorado Springs,  
Colorado

## College of Science

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### THE DEGREE OF BACHELOR OF SCIENCE ON:

Carrie Meghan Mosher, Clifton Park, New York

## College of Engineering

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### THE DEGREE OF BACHELOR OF SCIENCE IN COMPUTER ENGINEERING ON:

Kashawna Lynne Foster, Akron, Ohio

### THE DEGREE OF BACHELOR OF SCIENCE IN ENGINEERING AND ENVIRONMENTAL SCIENCE ON:

Jason Nathaniel Schramm, Owatonna, Minnesota

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

Neil Wesley Murray, Hopewell, New Jersey  
Robert Alvin Phelps III, Granbury, Texas  
Julio Oscar Zeller, Miami, Florida

## College of Business Administration

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

Christopher Louis Duncan, La Salle, Illinois  
Kristopher Sean Frey, Nashville, Tennessee  
Noah Benjamin Hogan, Rochester, Indiana  
Kenneth Alan Klukowski, Granger, Indiana  
Jeffrey Keith Murray, Notre Dame, Indiana  
Yee Lian Ng, Singapore, Singapore  
Christopher Douglas Peppel, Columbus, Ohio  
Rosa Maria Valencia, Elgin, Illinois  
Mark Patrick Williams, Duxbury, Massachusetts  
Daniel Treacy Zwart, St. Louis, Missouri

## School of Architecture

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### THE DEGREE OF BACHELOR OF ARCHITECTURE ON:

Edouard Ardouin Beauvais, New York, New York



# Awards and Prizes

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## *National Awards*

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### **Belgian American Educational Foundation Honorary Fellow**

Johan M. J. Van Parys, Minneapolis, Minnesota

### **Fulbright/Conacyt Grant for Graduate Study and Research Abroad**

Ricardo Romero Méndez, San Luis Potosí, Mexico

### **Graduate Student Award for Papers Presented at the Pacific Division of American Philosophical Association**

Kevin Marshall Meeker, South Bend, Indiana

### **Larom Summer Institute in Western American Studies**

Allison Susan Fuss, Memphis, Tennessee

### **Andrew W. Mellon Graduate Fellowship in Humantic Studies**

Theresa Helen Farnan, Hershey Pennsylvania

### **National Aeronautics and Space Administration Earth Science Fellowship**

Mark Allan Heilman, Belleair, Florida

### **National Science Foundation Graduate Research Traineeship**

Mark Allan Heilman, Belleair, Florida  
Andrew Evan Laursen, Geneva, New York

### **Organization of American States Fellowship**

Willy Walter Cortez, Lima, Peru

### **United States Institute of Peace Dissertation Fellowship**

Jaleh Michelle Dashti-Gibson, Houston, Texas

*In the Graduate School*

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**Bayer Pre-Doctoral Fellowship**

Andrew Evan Laursen, Geneva, New York

**Clare Booth Luce Fellowship**

Cathleen Elizabeth McGinnis, Kaukauna,  
Wisconsin

**David and Lucille Packard Fellowship**

Tracey A. Gibson, Courtland, Alabama

**PEW Fellowship**

Eric Farrel Mason, Collinwood, Tennessee

**Arthur J. Schmitt Fellowship**

Richard Kendall, Mishawaka, Indiana

**University Presidential Fellowship**

Yuri V. Balashov, Moscow, Russia  
Steven M. Nolt, South Bend, Indiana  
Craig Alan Satterlee, Roseville, Michigan

*In the College of  
Arts and Letters*

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**The Reverend Joseph H. Cavanaugh, C.S.C. Award**

*To the senior who has evidenced high qualities of  
personal character and academic excellence in  
theological studies*

Christopher Frank Capoccia, West Islip,  
New York



# Academic Attire

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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 academican'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 discernable 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.

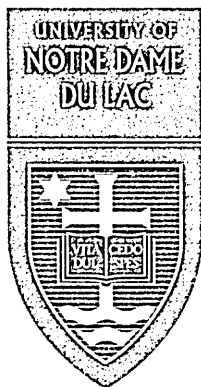
The cut of the gown aids in differentiating between the three levels of degrees. The bachelor's gown is relatively simple and falls in straight lines from an elaborate yoke. It may be recognized most readily by the long, pointed sleeves. The master's gown is somewhat fuller and bears no adornment. The 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 bellshaped 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.

# Processional Banners (Gonfalons)

The gonfalon, a banner that hangs from a crosspiece or frame, originated in the medieval republics of Italy as an ensign of state or office. Gonfalons have been adopted in many universities around the world as college or institutional insignias, and many use them to identify and lead colleges and schools within the university in academic procession. The nine gonfalons represent the University and the eight colleges and schools of Notre Dame.

The lower half of the gonfalon consists of a shield with a clear blue field and a cross of gold. This is part of the armorial seal designed by Pierre de Chaignon la Rose of Harvard in 1931. The heraldic colors (gold and blue) are symbolic of the Mother of God, to whom, Father Sorin first dedicated Notre Dame. At the shield's base are two wavy lines (indicating the *a Lacu*, "of the Lake," in the University's official title), and above them to the left is a star, another emblem of the Virgin, Star of the Sea. The cross represents the Congregation of Holy Cross, which founded Notre Dame; an institution of learning is denoted by the open book. The phrase "*Vita, Dulcedo, Spes*," taken from the ancient prayer to the Virgin, the *Salve Regina*, celebrates her as "life, sweetness, and hope."



Gonfalons designed by Paul Wieber of Notre Dame Publications and Graphic Services, commissioned by Watra Church Goods, Chicago, and manufactured by Slabbinck of Brugge, Belgium.

## Faculty Colors

AGRICULTURE .....	Maize
ARCHITECTURE .....	Blue Violet
ARTS, LETTERS, HUMANITIES .....	White
COMMERCE, ACCOUNTANCY, BUSINESS .....	Drab
DENTISTRY .....	Lilac
ECONOMICS .....	Copper
EDUCATION .....	Light Blue
ENGINEERING .....	Orange
FINE ARTS .....	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

# Symbol of Office

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## THE UNIVERSITY MACE

The academic scepter, or mace, was one of the earliest distinctive signs of medieval university officials. The mace was originally a wooden staff carried by royal messengers. The early wooden staff on the university beadle, a subaltern official, evolved in the 14th century into an elaborate silver mace. It was carried by the beadle during processions and graduation ceremonies, and was displayed as a symbol to command order during classes. In the 15th century it became symbolic of academic dignity. An essential part of the mace was the staff or cylindrical rod (*tibia*), originally a tube of silver filled with wood or some other base materials. The staff, divided into several sections, was held together by a ring-shaped excrescence (*nodus*). The staff was crowned with a bell-shaped head (*caput*); at the base was a finial (*membrum terminale*).

The Notre Dame mace was designed and executed by Rev. Anthony Lauck, C.S.C., professor emeritus of art, art history and design. The bronze *caput* repeats the University seal found on the Presidential Medal, but brings the star outside the shield where its separate rendering emphasizes the patronage of the Virgin Mary. Its shaft is in walnut and the star and the finial, bear the University colors gold and blue.

