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# COMMENCEMENT EXERCISES

FRIDAY,  
AUGUST 2, 1996

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JOYCE CENTER  
UNIVERSITY OF NOTRE DAME  
NOTRE DAME, INDIANA

OFFICIAL



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# COMMENCEMENT EXERCISES



FRIDAY  
AUGUST 2, 1996

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JOYCE CENTER — CONCOURSE  
UNIVERSITY OF NOTRE DAME  
NOTRE DAME, INDIANA

*Celebrating its 100th anniversary, the Grotto of Our Lady of Lourdes on the Notre Dame campus.*

# Events of the Day

*Friday, August 2, 1996*

## **BACCALAUREATE MASS**

- 8:30 a.m. Degree Candidates and Faculty assemble for Academic Procession to the Basilica of the Sacred Heart: the second floor corridor of the Main Building
- 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. Thomas E. Blantz, C.S.C.  
Professor, Department of History  
University of Notre Dame

### *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 Auxiliary Gym 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*

Nathan O. Hatch, Ph.D.  
Provost of the University

### *Commencement Address*

Phillip R. Sloan, Ph.D.  
Professor, Program of Liberal Studies  
University of Notre Dame

(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 - North Dome

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# BACCALAUREATE MASS



FRIDAY, AUGUST 2, 1996

9 A.M. EST

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BASILICA OF THE SACRED HEART  
UNIVERSITY OF NOTRE DAME  
NOTRE DAME, INDIANA

*Principal Celebrant and Homilist*  
Rev. Thomas Blantz, C.S.C.

*Organist*  
Andrew McShane

*Cantor*  
Timothy Schorn '95 Ph.D.

*Psalmist*  
Boreta Singleton '96 M.A.

*The Quintessence Brass*

# BACCALAUREATE MASS

## Opening Rites

### ACADEMIC PROCESSION

Trumpet Voluntary ..... Stanley

### OPENING HYMN

All People That on Earth Do Dwell

tune: Old 100th

1. All peo - ple that on earth do dwell, Sing  
 2. Know that the Lord is God in - deed; With -  
 3. O en - ter then his gates with praise; Ap -  
 4. For why? the Lord our God is good: His  
 5. To Fa - ther, Son, and Ho - ly Ghost, The

to the Lord with cheer - ful voice; Him  
 out our aid he did us make; We  
 proach with joy his courts un - to; Praise,  
 mer - cy is for ev - er sure; His  
 God whom heaven and earth a - dore, From

serve with mirth, his praise forth tell, Come  
 are his folk, he does us feed, And  
 laud, and bless his Name al - ways, For  
 truth at all times firm - ly stood, And  
 us and from the an - gel host Be

we be - fore him, and re - joice.  
 for his sheep he does us take.  
 it is seem - ly so to do.  
 shall from age to age en - dure.  
 praise and glo - ry ev - er - more.



## PENITENTIAL RITE

## OPENING PRAYER

# LITURGY OF THE WORD

## READING I

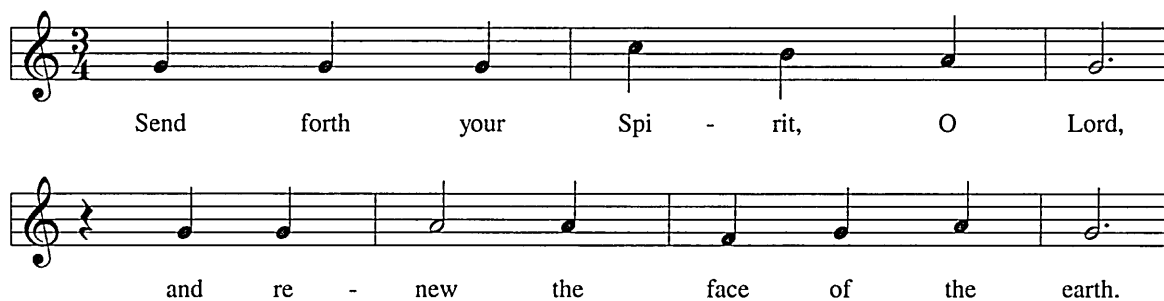
Acts 2, 1-11

*Please be seated.*

## RESPONSORIAL PSALM

Psalm 104

*Bower*



## READING II

I Corinthians 12, 3-7 .12-13

## GOSPEL ACCLAMATION



## GOSPEL

John 20, 19-23

*It is customary for men,  
although not for women  
wearing academic garb,  
to have their caps removed  
during the Gospel and Homily.*

## HOMILY

Rev. Thomas Blantz, C.S.C.

*Please be seated.*

## GENERAL INTERCESSIONS



# LITURGY OF THE EUCHARIST

## PREPARATION OF THE GIFTS

*Please be seated.*

Pavane ..... William Byrd  
Fantasia ..... William Boyce

## Eucharistic Prayer

### INTRODUCTORY DIALOGUE + PREFACE

*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

*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



## GREAT AMEN

Proulx

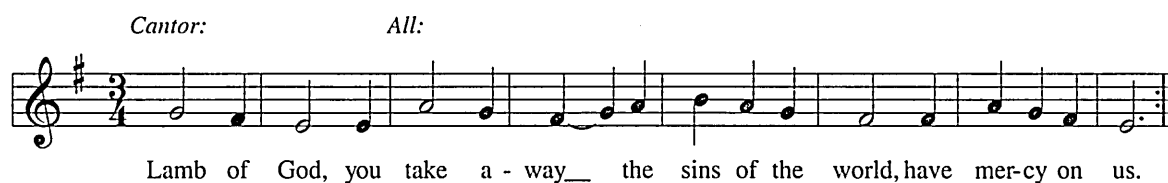


## Communion Rite

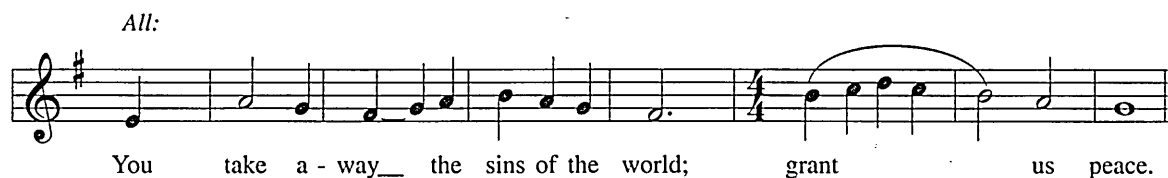
### LORD'S PRAYER + SIGN OF PEACE

### BREAKING OF THE BREAD + AGNUS DEI

Bower



*Cantor:* Lamb of God...



### RECEPTION OF COMMUNION

Psalm 34

Willcock, S.J.



### 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

Alleluia! Sing To Jesus

tune: Hyfrydol

1. Al - le - lu - ia! Sing to Je - sus! His the  
2. Al - le - lu - ia! Bread of An - gels, Here on  
3. Al - le - lu - ia! King e - ter - nal, You the

scep - ter, his the throne; Al - le - lu - ia!  
earth our food, our stay! Al - le - lu - ia!  
Lord of lords we own; Al - le - lu - ia!

his the tri - umph, His the vic - to - ry a - lone;  
here the sin - ful Flee to you from day to day;  
born of Ma - ry, Earth your foot - stool, heav'n your throne:

Hark! the songs of peace - ful Zi - on Thun - der  
In - ter - ces - sor, friend of sin - ners, Earth's re -  
You, with - in the veil, have en - tered, Robed in

like a might - y flood; Je - sus out of  
deem - er, plead for me, Where the songs of  
flesh, our great high priest; Here on earth both

ev - 'ry na - tion Has re - deemed us by his blood.  
all the sin - less Sweep a - cross the crys - tal sea.  
priest and vic - tim In the eu - cha - ris - tic feast.

### Acknowledgements

*Sanctus, Memorial Acclamation, Great Amen* (from the Community Mass) by Richard Proulx printed with permission of GIA Publications, Inc. 7404 S. Mason Ave., Chicago, IL, under license no. 1180. All rights reserved. *Psalm 104* and *Lamb of God* by Calvin Bower. Used with permission.

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# COMMENCEMENT EXERCISES



FRIDAY, AUGUST 2, 1996

11 A.M. EST

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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

# ORDER OF EXERCISES

## Processional

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

## America, the Beautiful

*Bates-Ward*

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 Nathan O. Hatch, Ph.D.  
Provost of the University

## Presentation of Candidates for Degrees

The Doctor of Philosophy degree

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

The *Legum Magister* and the *Juris Doctor* degrees

by Patricia C. Leonard, J.D.  
Assistant 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 Harold W. Attridge, Ph.D.  
Dean of the College of Arts and Letters

The Bachelor degree in the College of Science

by Francis J. Castellino, Ph.D.  
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 Phillip R. Sloan, Ph.D.  
Professor, Program of Liberal Studies

## Closing of the Convocation

The Provost of the University

## Notre Dame, Our Mother\* - (Alma Mater)

*O'Donnell-Casasanta*  
Ensemble and Audience

*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

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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.

# The Graduate School

## THE DEGREE OF DOCTOR OF PHILOSOPHY ON:

**Robert Thomas Archambeau**, Chicago, Illinois

Major Subject: English

Dissertation: Wordsworth After Empire: Three  
Postcolonial Appropriations

Director: Prof. John E. Matthias

**David Matthew Biewer**, Findlay, Ohio

Major Subject: Mathematics

Dissertation: Blowup Rate of the Solution of a  
General Parabolic Equation with a Nonlinear  
Boundary Condition

Director: Dr. Bei Hu

**Victor Francisco Calvo-Perez**, Santiago, Chile

Major Subject: Chemistry

Dissertation: Assembly of Molecular Clusters of  
Clusters: Structure Versus Electronic Transitions

Director: Dr. Thomas P. Fehlner

**James S. Campbell**, Des Moines, Iowa

Major Subject: English

Dissertation: Other Wars: Ethics and Violence in  
Twentieth Century British and Irish War Poetry

Co-Directors: Dr. Gerald L. Bruns and  
Dr. Seamus Deane

**Linda Margaret Chalk**, Midland, Michigan

Major Subject: Psychology

Dissertation: The Effectiveness of a Possible Selves  
Intervention in Reducing College Women's  
Occupational Feared Selves

Director: Dr. Naomi M. Meara

**Seungjin Choi**, Seoul, Republic of Korea

Major Subject: Electrical Engineering

Dissertation: Adaptive Blind Sources Separation  
Based on Unsupervised Learning

Director: Dr. Ruey-Wen Liu

**Shirley Jane Dyke**, Palos Heights, Illinois

Major Subject: Civil Engineering

Dissertation: Acceleration Feedback Control  
Strategies for Active and Semi-Active Control  
Systems: Modeling, Algorithm Development, and  
Experimental Verification

Director: Dr. Billie F. Spencer, Jr.

**Teresa A. Elick**, Fort Wayne, Indiana

Major Subject: Biological Sciences

Dissertation: Molecular Analysis of the *Piggybac*  
Transposable Element

Director: Dr. Malcolm J. Fraser, Jr.

**Muriel Cottard**, D'Auroure, France

Major Subject: Chemistry

Dissertation: Studies Directed Toward the Synthesis  
of Compounds Having Important Biological

Activity: Anticancer Agents, Iejimalides A and B  
and an Antibiotic, Madumycin I

Director: Dr. Paul M. Helquist

**Shingo Ishii**, Tokyo, Japan

Major Subject: Chemistry

Dissertation: Scope and Mechanistic Studies of  
Intramolecular C-H Insertion Reactions of  
(Cyclopentadienyl) Dicarbonyliron Carbene  
Complexes

Director: Dr. Paul M. Helquist

**Todd Eric Johnson**, Bradford, Pennsylvania

Major Subject: Theology

Dissertation: In Spirit and Truth: Pneumatology,  
Modernism and Their Relation to Symbols and  
Sacraments in the Writings of Evelyn Underhill

Director: Dr. Lawrence S. Cunningham

**Karen Leigh Jones**, Renton, Washington

Major Subject: Psychology

Dissertation: Discrimination of Two Aspects of  
Cognitive Social Intelligence from Academic  
Intelligence

Director: Dr. Jeanne D. Day

**Padmini Kamath**, Mumbai, India

Major Subject: Mathematics

Dissertation: Unstable Normal Maps on an Open  
Manifold Without Boundary

Director: Dr. E. Bruce Williams

**Byunghan Kim**, Seoul, Republic of Korea

Major Subject: Mathematics

Dissertation: Simple First Order Theories

Director: Dr. Anand Pillay

**Meeyoung Kim**, Seoul, Republic of Korea

Major Subject: Mathematics

Dissertation: A Barth-Lefschetz Type Theorem for  
Branched Coverings of Homogeneous Spaces

Director: Dr. Andrew J. Sommese

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**Wesley Kirkpatrick**, Portsmouth, Virginia

Major Subject: Philosophy

Dissertation: What to Make of Miss Fanny:  
Philosophical Reflections on Jane Austen's  
Mansfield Park

Director: Dr. Philip L. Quinn

**Kris William Kukla**, Freeport, Illinois

Major Subject: Physics

Dissertation: Measurements of Relativistic and  
Quantum Electrodynamical Effects in Heliumlike  
Argon Using Position-Sensitive Ultraviolet  
Spectroscopy

Director: Dr. A. Eugene Livingston

**Michael Lattanzi**, Washington, D.C.

Major Subject: Government

Dissertation: Imagination, Language and Being: The  
Question of Political Critique

Director: Dr. Fred R. Dallmayr

**Maureen Kay Harley Mulligan**, Dowagiac, Michigan

Major Subject: History

Dissertation: Common Cares: Women and the  
Family Farm in the Midwest, 1870-1930

Director: Dr. Walter Nugent

**Sanjeevan Naguleswaran**, Colombo, Sri Lanka

Major Subject: Physics

Dissertation: Gamma Ray Spectroscopy in the Mass  
110 Region

Director: Dr. Umesh Garg

**Nelson Luiz Passos**, São Paulo, Brazil

Major Subject: Computer Science and Engineering

Dissertation: Improving Parallelism on Multi-  
Dimensional Applications: The Multi-Dimensional  
Retiming Framework

Director: Dr. Edwin Hsing-Mean Sha

**Marie-France Paugam**, Annevy, France

Major Subject: Chemistry

Dissertation: Transport of Saccharides and  
Catecholamines Mediated by Boronic Acid Carriers

Director: Dr. Bradley D. Smith

**Terence John Pell**, Vienna, Virginia

Major Subject: Philosophy

Dissertation: Liberalism, Community, and  
Interpretation: Ronald Dworkin's Neo-Hegelian  
Theory of Law and Politics

Director: Dr. William D. Solomon

**Janice M. Poorman**, Granger, Indiana

Major Subject: Theology

Dissertation: The Critics of Karl Rahner's Theology  
of the Universal Offer of Salvific Grace Through  
Jesus Christ

Director: Rev. Thomas O'Meara, O.P.

**Maan Qazzaz**, Oak Lawn, Illinois

Major Subject: Physics

Dissertation: Electron Paramagnetic Resonance in  
Magnetic Semiconductor Epitaxial Layers and  
Superlattices

Director: Dr. Jacek K. Furdyna

**Judy Damasiewicz Randolph**, Valparaiso, Indiana

Major Subject: Psychology

Thesis: Timing of Conjugal Loss in Late Life and  
Successful Outcome: A Life-Span Perspective

Director: Dr. Cindy Bergeman

**John Lester Ruth**, Nacogdoches, Texas

Major Subject: Theology

Dissertation: "A Little Heaven Below": Quarterly  
Meetings as Seasons of Grace in Early American  
Methodism

Director: Rev. James F. White

**Donelle Rae Ruwe**, Meridian, Idaho

Major Subject: English

Dissertation: Reconstructing Romanticism: Women  
Poets, the Creative Imagination, and Literary  
History

Director: Dr. Greg P. Kucich

**Parthasarathy Seshadri**, Madras, India

Major Subject: Materials Science & Engineering

Thesis: Metastable and Stable  $\text{RMnO}_3$  Thin Films  
and  $\text{RMnO}_3/\text{EBCO}$  Heterostructures ( $\text{R}=\text{Er}$  or  $\text{Dy}$ ;  
 $\text{EBCO} = \text{Er}_1\text{Ba}_2\text{Cu}_3\text{O}_{7-\delta}$ )

Director: Dr. Krishna Choudhary

**Steven William Short**, Midlothian, Illinois

Major Subject: Physics

Dissertation: Optical Investigations of the Quantum  
Confined Stark Effect in II-VI Semiconductor  
Heterostructures

Director: Dr. Jacek K. Furdyna

**Bradley Dale Smith**, Siloam Springs, Arkansas

Major Subject: Economics

Dissertation: The Effects of the Market for  
Corporate Control at the Firm Level: A Case Study  
Approach

Director: Dr. Martin H. Wolfson

**Robert Joseph Szczerba**, Rochester, New York  
Major Subject: Computer Science and Engineering  
Dissertation: New Cell Decomposition Techniques  
for Planning Optimal Paths  
Co-Directors: Dr. Danny Z. Chen and  
Dr. John J. Uhran, Jr.

**Jeffrey T. VanderWilt**, Madison, Wisconsin  
Major Subject: Theology  
Dissertation: The Eucharist as Sacrament of  
Ecclesial *Koinonia* with Reference to the  
Contribution of Jean-Marie Tillard to Ecumenical  
Consensus on the Eucharist  
Co-Directors: Rev. Richard P. McBrien and  
Rev. John Allyn Melloh, S.M.

**Suhas Prabhakar Vaze**, Pune, India  
Major Subject: Mechanical Engineering  
Dissertation: Response and Buckling of Elastic-  
Plastic Square Tubes Under Cyclic Bending  
Director: Dr. Edmundo Corona

**Pamela Rae Westmark**, Dubuque, Iowa  
Major Subject: Biochemistry  
Dissertation: 1. Selective Facilitated Transport of  
Biological Compounds Through a Phospholipid  
Bilayer using Boronic Acid Complexation  
2. Influence of Eluent Anions in Boronate Affinity  
Chromatography 3. Photoregulation of Enzyme  
Activity: Synthesis and Study of Photochromic,  
Transition-State-Analogue Inhibitors  
Director: Dr. Bradley D. Smith

**Yutong Zhang**, Taiyuan, People's Republic of China  
Major Subject: Biological Sciences  
Dissertation: Vascular Capacitance and its  
Regulation in Rainbow Trout (*Oncorhynchus*  
*Mykiss*)  
Director: Dr. Kenneth R. Olson

## The Law School

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

**Cristóbal de Aldecoa**, Buenos Aires, Argentina  
**Anneloes Groen**, *Cum Laude*, Rotterdam, Netherlands  
**Jean-Marc Groperrin**, *Magna Cum Laude*,  
Clermont-Ferrand, France  
**Victor M. Moreno Rodriguez**, Torreon Coahuila,  
Mexico  
**Jose Alfredo Reygadas Del Valle**, Mexico City, Mexico  
**Liang-Ching Tsai (Grace)**, Taipei, Taiwan  
**Alfred Zehner**, Mariapfarr, Austria

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

**John Joseph Flynn**, West Warwick, Rhode Island  
**Christine Marie Tucker**, Charleroi, Pennsylvania

## The Graduate School

### THE DEGREE OF MASTER OF FINE ARTS ON:

**Robert Thomas Archambeau**, Chicago, Illinois  
Major Subject: English  
Thesis: Victory Over the Sun  
Director: Prof. John E. Matthias

### THE DEGREE OF MASTER OF MEDIEVAL STUDIES ON:

**Michael Machias Waddell**, Owatonna, Minnesota

### THE DEGREE OF MASTER OF MUSIC ON:

**Janet N. Brooks**, Nashville, Tennessee

### THE DEGREE OF MASTER OF ARTS ON:

**Vilma C. Balmaceda**, Lima, Peru  
Major Subject: International Peace Studies

**Patricia Ann Noonan Bogdan**, Fairfax, Virginia  
Major Subject: Theology

**Judith Head Bullock**, Louisville, Kentucky  
Major Subject: Theology

**Paulette M. Chapman**, Des Moines, Iowa  
Major Subject: Theology

**Hilary Ann Condon**, De Witt, Iowa  
Major Subject: Psychology

**Catia Cecilia Confortini**, Rezzato, Italy  
Major Subject: International Peace Studies

**Hal Robert Culbertson**, Delavan, Illinois  
Major Subject: International Peace Studies

**Mary Grace B. Dairo**, Butuan City, Philippines  
Major Subject: International Peace Studies

**Larissa Deriglazova**, Tomsk, Russia  
Major Subject: International Peace Studies  
Thesis: Soldiers' Mothers: A Case Study of a Social Movement in the Context of Russian Political Change  
Director: Dr. Mark A. Chaves

**Margaret Ann Desmond**, Bloomfield Hills, Michigan  
Major Subject: International Peace Studies

**Radoslav S. Dimitrov**, Sofia, Bulgaria  
Major Subject: International Peace Studies

**Beatrijs Elsen**, Brugge, Belgium  
Major Subject: International Peace Studies

**Theresa M. Fifer**, Toledo, Ohio  
Major Subject: Theology

**David Paul Furlonger, C.S.S.R.**, London, Canada  
Major Subject: Theology

**Christine A. Green**, Highland, Indiana  
Major Subject: Art History  
Thesis: The Natural Gas Boom in the Midwest: A Study of Architectural History and Patronage  
Director: Dr. Kathleen A. Pyne

**Matthew Ryan Guynn**, Indianapolis, Indiana  
Major Subject: International Peace Studies

**Heba Hage**, Beirut, Lebanon  
Major Subject: International Peace Studies

**Anselm Hagedorn**, Hemmingen, Germany  
Major Subject: Theology

**Bracy Vauncille Hill II**, Mishawaka, Indiana  
Major Subject: Theology

**Mark Todd Johnson**, Madison, Wisconsin  
Major Subject: Theology

**Erin Joyce**, Mansfield, Ohio  
Major Subject: Government

**Timothy Christopher Keating**, Phoenix, Arizona  
Major Subject: Theology

**Anupam Khanuja**, New Delhi, India  
Major Subject: International Peace Studies

**Donald Jay Koyle**, London, Canada  
Major Subject: Theology

**Emmanuel Kwasi Kuada**, Accra, Ghana  
Major Subject: International Peace Studies

**Stefanie Jo Lieland**, Lawrenceburg, Indiana  
Major Subject: Psychology

**Carol Ann Lind**, Smithfield, Utah  
Major Subject: Art History  
Thesis: The Carracci Academy: A Painter's Education in Sixteenth-Century Bologna: Antecedents and Innovations  
Director: Dr. Robert R. Coleman

**Pedro Lopez Jimenez**, Ventura, California  
Major Subject: Theology

**Patricia Anne Lynn**, Philadelphia, Pennsylvania  
Major Subject: International Peace Studies

**Tatyana Alexeevna Makogon**, Nikolaev, Ukraine  
Major Subject: Psychology

**Thomas Daniel Manning**, Lake Oswego, Oregon  
Major Subject: Theology

**Eerik Marmei**, Tartu, Estonia  
Major Subject: International Peace Studies

**Charles Donald Martel**, St. Louis, Missouri  
Major Subject: Theology

**Joseph F. Nuzzi**, Upper Saddle River, New Jersey  
Major Subject: Theology

**Amy Sue Humphrey O'Brien**, South Bend, Indiana  
Major Subject: Communication Arts



**Toshiko Oino**, Yokohama, Japan  
Major Subject: International Peace Studies  
Thesis: Problems and Opportunities in UN  
Peacekeeping: Lessons from Akashi's Way of  
Conflict Management  
Director: Dr. Robert C. Johansen

**Le Pan**, Nanjing, People's Republic of China  
Major Subject: International Peace Studies

**Matthew Pennington**, Scotts Valley, California  
Major Subject: Theology

**Mónica Peñuela Jaramillo**, Bogotá, Colombia  
Major Subject: International Peace Studies

**Marie-Eileen Burke Picard**, Aurora, Ohio  
Major Subject: Theology

**Oana Plescan-Popa**, Cluj-Napoca, Romania  
Major Subject: International Peace Studies

**Rose Imelda Ramos**, San Antonio, Texas  
Major Subject: English

**Vadim Grigorievitch Roussin**, Moscow, Russia  
Major Subject: International Peace Studies

**Glenn Rymysa**, South Bend, Indiana  
Major Subject: Theology

**Jessica L. Schiller**, Belmont, Michigan  
Major Subject: Psychology

**John Paul Sherk**, Middlebury, Indiana  
Major Subject: Theology

**Robert J. Simon**, Clarks Summit, Pennsylvania  
Major Subject: Theology

**Boreta Ann Singleton, I.H.M.**, Philadelphia,  
Pennsylvania  
Major Subject: Theology

**Julianne Smith**, South Bend, Indiana  
Major Subject: English

**Carrie Anne Trollinger**, Ormond Beach, Florida  
Major Subject: Psychology

**Kimberly Anne Wallace**, Smithtown, New York  
Major Subject: Psychology  
Thesis: Hardiness in Later Life: A Preliminary  
Investigation  
Director: Dr. Cindy Bergeman

**Stephen John Zabrocki**, Wolf Point, Montana  
Major Subject: Theology

## **THE DEGREE OF MASTER OF SCIENCE ON:**

**Pieder Beeli**, South Bend, Indiana  
Major Subject: Physics

**Tami L. Elton**, Roseau, Minnesota  
Major Subject: Biological Sciences  
Thesis: Venereal Transmission of La Crosse Virus by  
*Aedes Albopictus*  
Director: Dr. George B. Craig, Jr.

**Betty Kreuger**, New Orleans, Louisiana  
Major Subject: Biological Sciences  
Thesis: Parameters of Infection by *Ascogregarina*  
SPP. (Apicomplexa: Lecudinidae) on Container-  
Breeding *Aedes* SPP. (Diptera: Culicidae)  
Director: Dr. George B. Craig, Jr.

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

**Bruce Andrew Hardy**, Durham, New Hampshire  
Thesis: Interaction of Acoustic, Entropic, and  
Vortical Waves with a Plane Shock  
Director: Dr. Hafiz M. Atassi

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

**Sandeep Gupta**, New Delhi, India  
Thesis: Parametric Sensitivity Analysis of Reverse-  
Flow Operation in Fixed-Bed Catalytic Reactors  
Director: Dr. Arvind Varma

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

**Beth Lee Mullenbach**, La Crosse, Wisconsin  
Thesis: Acoustic Imaging of Sediments  
Director: Dr. Laura J. Pyrak-Nolte

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

**Hong Yan**, Fuzhou, People's Republic of China  
Thesis: SCSInet: High Performance Communication  
Support for Distributed Computing Systems  
Director: Dr. David L. Cohn

**Kaixiang Zhong**, Beijing, People's Republic of China  
Thesis: Abstract Data Structures and Object-  
Oriented Design for High Performance Numerical  
Linear Algebra  
Director: Dr. Andrew Lumsdaine

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

**Jaime Moises Gutierrez Carvajal**, Panama City,  
Panama  
Major Subject: Civil Engineering  
Thesis: Sequencing Batch Reactors for Wastewater  
Treatment in the Republic of Panama  
Director: Dr. Lloyd H. Ketchum, Jr.

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

**James Albert O'Neill, Jr.**, Short Hills, New Jersey  
Major Subject: Civil Engineering  
Thesis: Development of an ICP-MS Analytical  
Technique for the Quantification of the Platinum  
Group Elements (PGES) and Gold in Geological  
Samples Using Cation Exchange Pretreatment  
Director: Dr. Clive R. Neal

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

**Richard Joseph Caspar**, South Windsor, Connecticut  
Thesis: Experimental and Numerical Study of Shear  
Localization as an Initiation Mechanism in  
Energetic Solids  
Co-Directors: Dr. James J. Mason and  
Dr. Joseph M. Powers

**Fen Li**, Zhejiang, People's Republic of China  
Thesis: Advanced Friction Model in Manufacturing  
Process Simulation  
Director: Dr. Steven Schmid

**Jeffrey Joseph Scherock**, Traverse City, Michigan  
Thesis: Modeling Unsteady Potential Flows in  
Coupled Cascades  
Director: Dr. Hafiz M. Atassi

**Jian Su**, Hohhot, People's Republic of China  
Thesis: Automatic Differentiation in Robust  
Optimization  
Director: Dr. John E. Renaud

## **The College of Business Administration**

### **In the Graduate Division**

#### **THE DEGREE OF MASTER OF BUSINESS ADMINISTRATION ON:**

Christopher Robert Kavanagh, Bolingbrook, Illinois

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

Gail Lynn Burton Blackburn, *Magna Cum Laude*,  
Hammond, Indiana

Julie Scott Bowers, South Bend, Indiana

Paula M. Brush, Alliance, Ohio

Myrtie Kimmins Coleman, South Bend, Indiana

Irene Dunn, S.S.J., *Summa Cum Laude*, Erdenheim,  
Pennsylvania

Céline Dupuis, S.S.A., *Cum Laude*, Lachine, Canada

Christine Ereiser, O.S.B., *Magna Cum Laude*, Tulsa,  
Oklahoma

Russell Edward Fish, *Cum Laude*, South Bend,  
Indiana

Lawrence D. Ford, O.F.M., *Cum Laude*, Olean,  
New York

Keith D. Fulks, *Cum Laude*, Mishawaka, Indiana

Mary Antoinette Vassallo Hoste, East Lansing,  
Michigan

Martha Ellen Kummerer, *Magna Cum Laude*,  
South Bend, Indiana

Peter Daniel Lanser, *Cum Laude*, South Bend, Indiana

Maureen Lynn McNamara, *Magna Cum Laude*,  
Peoria, Illinois

Catherine Lynné Powers, *Magna Cum Laude*, Elkhart,  
Indiana

Mary Faut Rodts, *Cum Laude*, Oak Park, Illinois

Ruoping Zhu, Shanghai, People's Republic of China

David E. Ziege, *Cum Laude*, Granger, Indiana

## **The College of Arts and Letters**

#### **THE DEGREE OF BACHELOR OF FINE ARTS ON:**

Benjamin Richardson Foos, Simpsonville, Kentucky

#### **THE DEGREE OF BACHELOR OF ARTS ON:**

Estevan Lorenzo Almanza, El Paso, Texas

Nicole Marie Amato, Portland, Maine

Katherine Anne Babka, Belleair, Florida

Joseph Bryan, Wilkes-Barre, Pennsylvania

John Ryan Burke, Rapid City, South Dakota

James Dunn Burns II, Portland, Oregon

Vincenzo Donaldo Carrasco, Indiantown, Florida

Kim Chavez, Jacksonville, Arkansas

Hugh H. Corkery, Sacramento, California

Michael John Doherty II, *Magna Cum Laude*,  
Washoe Valley, Canada

Jennifer Ann Earls, Azle, Texas

Ryan Patrick Hallford, Arlington, Texas

Sarah Elizabeth Jeffery, *Cum Laude*, Janesville,  
Wisconsin

Christopher Alan Lary, Delmar, Iowa

Theo Henry McCourtney, Katonah, New York

Jane Allison Phinney, Edwardsburg, Michigan

Anthony Edward Pillari, *Summa Cum Laude*,  
Bay Village, Ohio

Sarah Breckinridge Reishman, Charleston,  
West Virginia

Eamon Patrick Shea, Jacksonville, Florida

Darcy Kyung Yaley, Mariposa, California

## **The College of Science**

#### **THE DEGREE OF BACHELOR OF SCIENCE ON:**

Shelby Dwight Brown, Independence, Kansas

Kyle Hutchins Friedman, The Woodlands, Texas

Shane Taylor Igoe, Saint Francisville, Louisiana

Seth Turner Keene, *Magna Cum Laude*, Deadwood,  
South Dakota

Jamie Lynn Webb Kennedy, *Summa Cum Laude*,  
Fairfax, Virginia

Charles Kim Shin, Lima, Ohio

Amalia Villafan, Hammond, Indiana

## **The College of Engineering**

### **THE DEGREE OF BACHELOR OF SCIENCE ON:**

Mary Nahasbah Etsitty, Glendale, Arizona

### **THE DEGREE OF BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING ON:**

Jason Lee Schroeder, *Magna Cum Laude*, Findlay, Ohio

### **THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL ENGINEERING ON:**

Catherine Nell Price, Cresco, Pennsylvania

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

Michael Tecson, Hershey, Pennsylvania

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

Ryan Patrick Malayter, Valparaiso, Indiana

### **THE DEGREE OF BACHELOR OF SCIENCE IN ENGINEERING & ENVIRONMENTAL SCIENCE ON:**

Scott Dennis Horrigan, Buffalo, New York

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

Robert Plaxton Bolton, Greensboro, North Carolina  
Peter Francis Goyer, Shaker Heights, Ohio

## **The College of Business Administration**

### **In the Undergraduate Division**

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

Robert Anthony De La Riva, São Paulo, Brazil  
Glen James Hoffman, Warren, New Jersey  
Linda LaFaye Howell, Nesbit, Mississippi  
Gregory Sean Lane, Austin, Texas  
William Paul Lanza, Dumfries, Virginia  
William Michael Leisen, East Meadow, New York  
Michael Sean McCullough, Chaska, Minnesota  
James Frederick McEvoy, Jr., Henderson, Nevada  
Curtis Geoffrey Miller, Pittsburgh, Pennsylvania  
Jennifer Lynn Moore, Salt Lake City, Utah  
Jose Alberto Perez, Jr., San Antonio, Texas  
Edward Jet Salazar, Torrance, California  
Gregory Jason Sinnott, Albany, New York  
Christopher Carl Sloan, Rochester, New York  
Susan Joyce Tate, *Magna Cum Laude*, Pittsburgh,  
Pennsylvania  
James Tremante III, Wilton, Connecticut  
Zane Stephen Way, Boise, Idaho

# 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 academicians' 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. As 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  
 ARTS, LETTERS, HUMANITIES ..... White  
 COMMERCE, ACCOUNTANCY, BUSINESS ..... Drab  
 DENTISTRY ..... Lilac  
 ECONOMICS ..... Copper  
 EDUCATION ..... Light Blue  
 ENGINEERING ..... Orange  
 FINEARTS, 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*

