

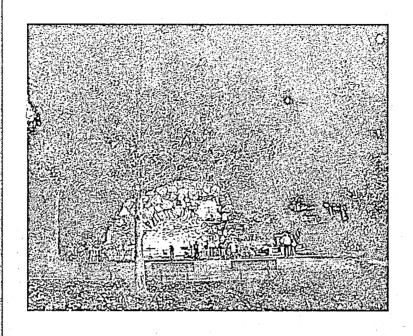
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FRIDAY, AUGUST 2, 1996

JOYCE CENTER UNIVERSITY OF NOTRE DAME NOTRE DAME, INDIANA



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FRIDAY AUGUST 2, 1996

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

## **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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FRIDAY, AUGUST 2, 1996 9 A.M. EST

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

## Baccabaureate Mass

## Opening Rites

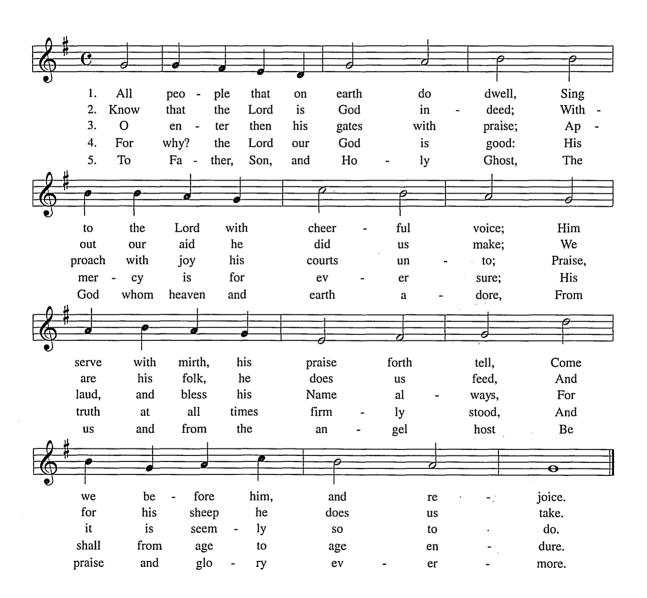
#### ACADEMIC PROCESSION

Trumpet Voluntary.......Stanley

#### **OPENING HYMN**

All People That on Earth Do Dwell

tune: Old 100th



#### PENITENTIAL RITE

#### **OPENING PRAYER**

## Lardrey or the Word

**READING I** 

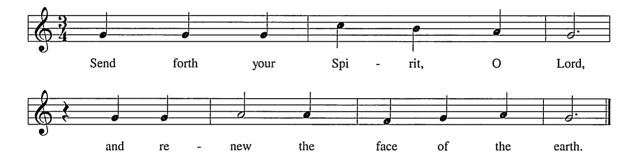
Acts 2, 1-11

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**



## LITURAY OF THE EUCHARIST

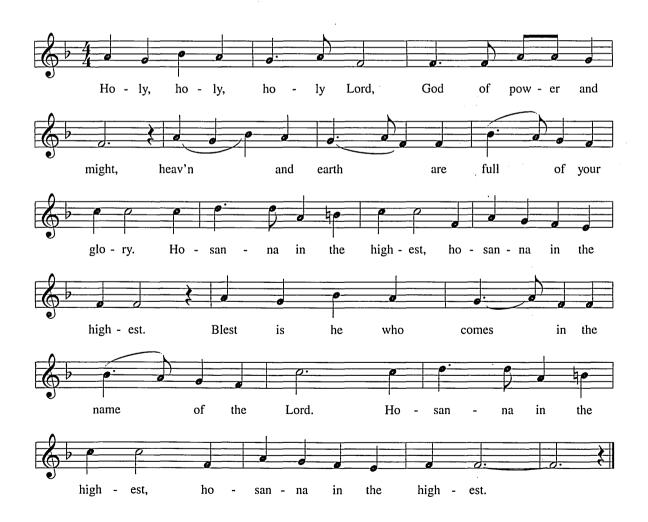
PRI	EPARATION OF THE GIFTS	Please be seated.
	Pavane	William Byrd
	Fantasia	William Boyce

## 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





**GREAT AMEN** 

Proulx



## Communion Rite

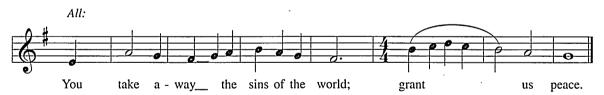
#### LORD'S PRAYER + SIGN OF PEACE

#### BREAKING OF THE BREAD + AGNUS DEI

Bower



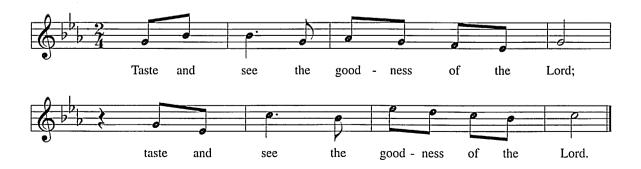
Cantor: Lamb of God ...



#### RECEPTION OF COMMUNION

Psalm 34

Willcock, S.J.



#### PRAYER AFTER COMMUNION

## Closing Rites

#### **ALMA MATER**

Notre Dame, Our Mother

O'Donnell/Casasanta

tune: Hyfrydol

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



#### Acknowledgements

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Notre Dame, Our Mother, words by Rev. Charles L. O'Donnell, C.S.C., music by Joseph J. Casasanta. ©1960, Edwin H. Morris and Co., a division of M.P.L. Communications, Inc. International copyright secured. All rights reserved. Used with permission.

# 



FRIDAY, AUGUST 2, 1996 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

#### 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;
Notre Dame.

#### Recessional of the Platform Party

<sup>\*</sup>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 Electrodynamic 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 RMnO<sub>3</sub> Thin Films and RMnO<sub>3</sub>/ EBCO Heterostructures (R=Er or Dy;

 $EBCO = Er_1Ba_2Cu_3O_{7.8}$ 

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. Vander Wilt, 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 Grosperrin, 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

#### THE DEGREE OF JURIS DOCTOR ON:

Alfred Zehner, Mariapfarr, Austria

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 Rymsza, 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

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, Ohiō

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

#### A CADEMIC 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 everincreasing 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 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	NURSING Apricot OPTOMETRY Sea Foam Green
COMMERCE, ACCOUNTANCY, BUSINESS Drab	ORATORY (SPEECH) Silver Gray
DENTISTRYLilac	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
ARCHITECTUREBrown	FOREIGN SERVICE Peacock Blue
FORESTRYRusset	PUBLIC HEALTH Salmon Pink
JOURNALISM Crimson	SCIENCE Golden Yellow
LAWPurple	SOCIAL SCIENCE
LIBRARY SCIENCE Lemon	SOCIAL WORK Citron
MEDICINE Green	THEOLOGY Scarlet
MUSIC Pink	VETERINARY SCIENCEGray

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

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