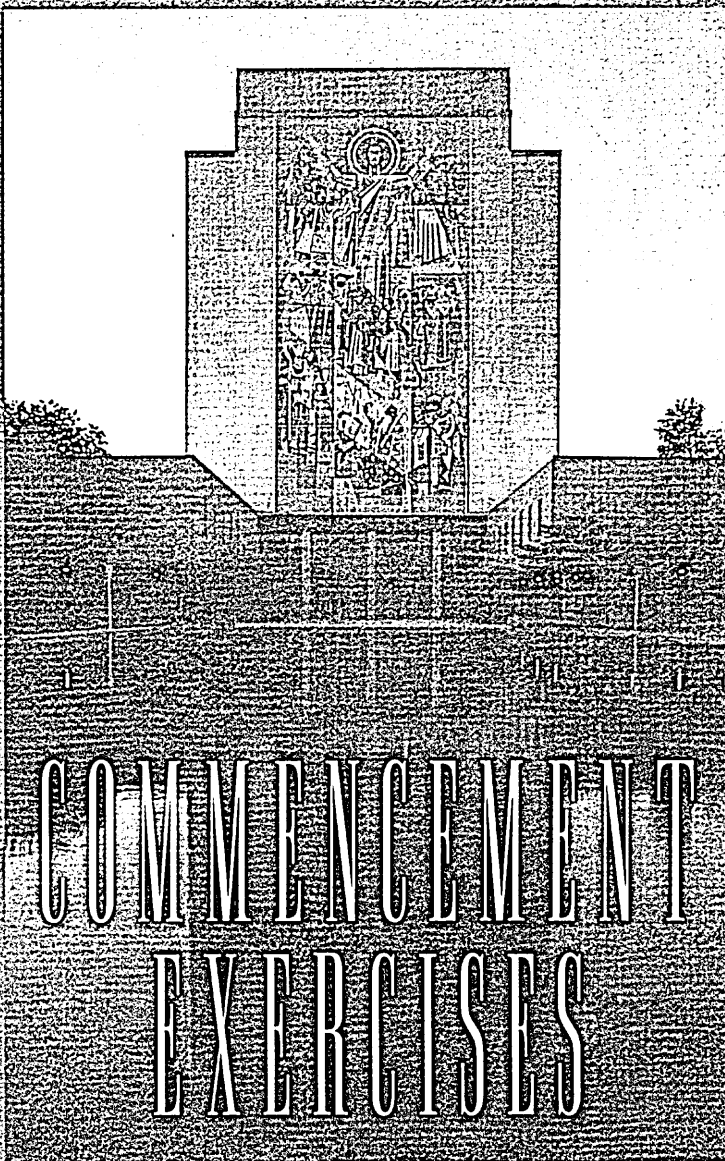


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# COMMENCEMENT EXERCISES

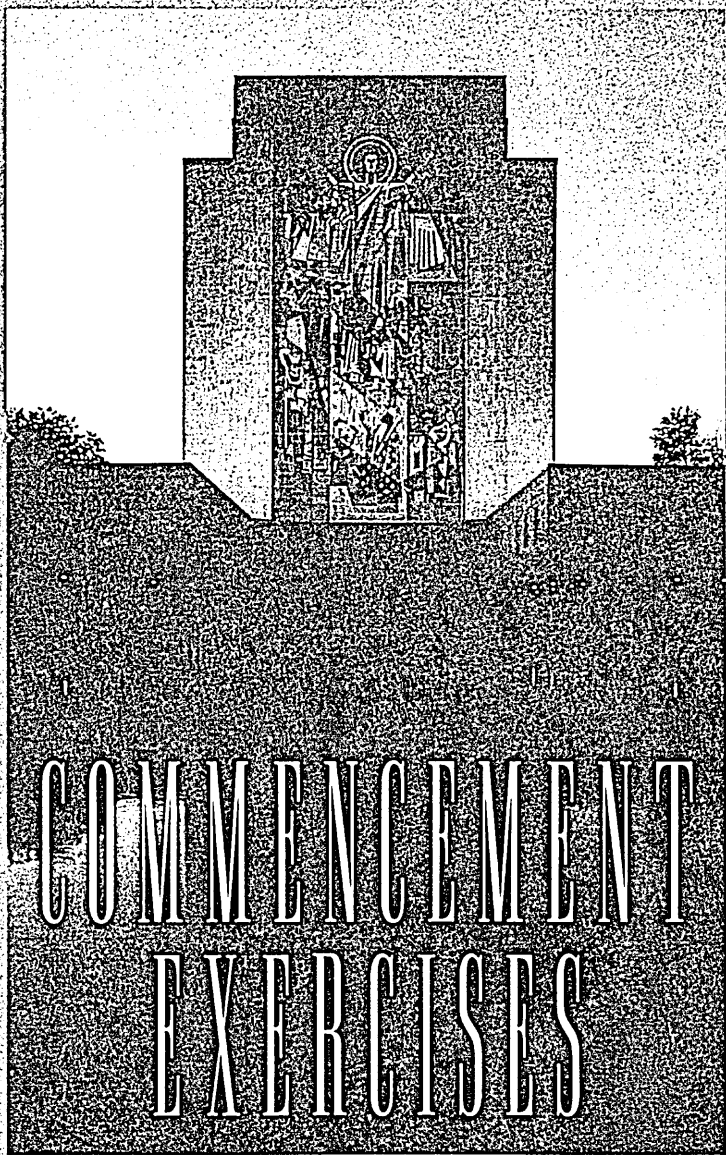
FRIDAY,  
AUGUST 1, 1997

JOYCE CENTER  
UNIVERSITY OF NOTRE DAME  
NOTRE DAME, INDIANA

OFFICIAL



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FRIDAY,  
AUGUST 1, 1997

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JOYCE CENTER  
UNIVERSITY OF NOTRE DAME  
NOTRE DAME, INDIANA

# Events of the Day

*Friday, August 1, 1997*

## 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. David J. Scheidler, C.S.C.  
Associate Rector  
Basilica of the Sacred Heart

### *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

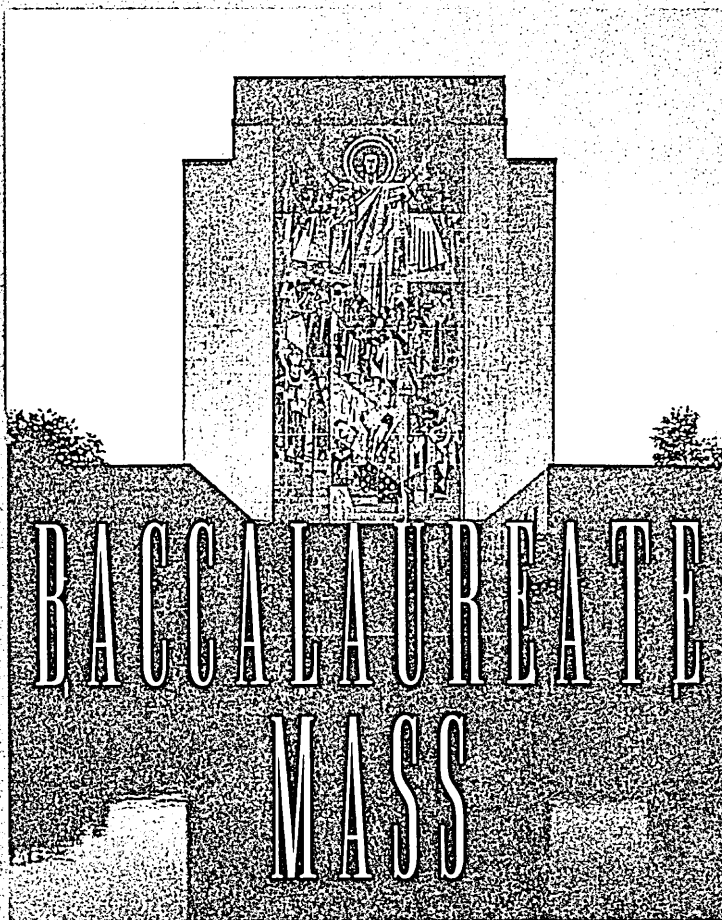
### *Commencement Address*

Roger A. Schmitz, Ph.D.  
Keating-Crawford Professor of  
Chemical Engineering  
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 – South Dome

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FRIDAY, AUGUST 1, 1997

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. David J. Scheidler, C.S.C.

*Organist*  
Dr. Gail L. Walton

*The Quintessence Brass*

# 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*



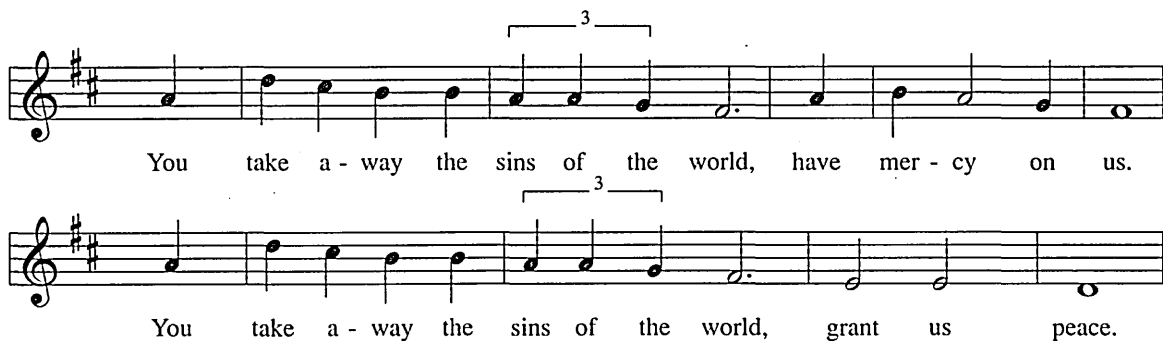
## Communion Rite

### LORD'S PRAYER + SIGN OF PEACE

### BREAKING OF THE BREAD + AGNUS DEI

*Isele*

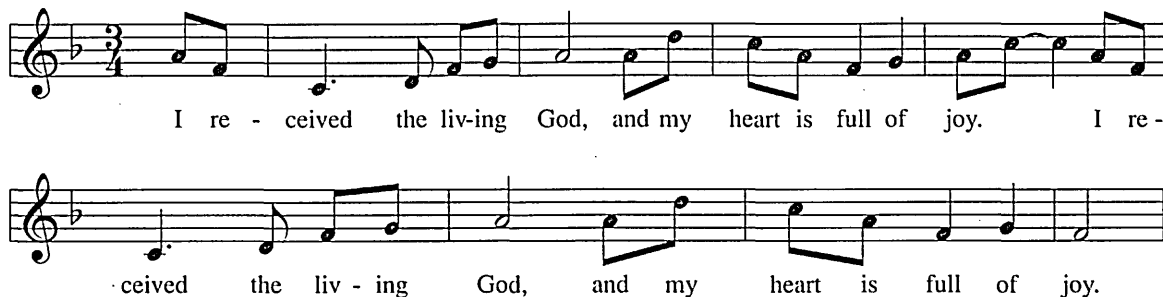
*Cantor:* Lamb of God...



### RECEPTION OF COMMUNION

I Received the Living God

*Arr. by Richard Proulx*



### 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.

#### Acknowledgments

Psalm 81 by Michael Guimont, *Sanctus, Memorial Acclamation, Great Amen* (from the Community Mass) by Richard Proulx, *Lamb of God* by David Isele, printed with permission of GIA Publications, Inc. 7404 S. Mason Ave., Chicago, IL, under license no. 1180. All rights reserved. Used with permission.

*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.

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# COMMENCEMENT EXERCISES



FRIDAY, AUGUST 1, 1997

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

## 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 Walter F. Pratt, J.D.

Associate 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 Francis J. Castellino, Ph.D.

Dean of the College of Science

The Bachelor degree in the College of Engineering

by Anthony N. Michel, Ph.D.

Dean of the College of Engineering

The Bachelor degree in the College of Business

Administration

by Edward R. Trubac, Ph.D.

Associate Dean of the College of Business  
Administration

The Bachelor degree in the School of Architecture

by Thomas Gordon Smith, M.Arch.

Chair of the School of Architecture

## Commencement Address\*

by Roger A. Schmitz, Ph.D.

Keating-Crawford Professor of Chemical Engineering

## 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:

**Margo Axsom**, Santa Rosa, California

Major Subject: English

Dissertation: Border Crossings: The Emergence of  
Feminist Science Fiction as a Genre

Director: Dr. William J. Krier

**John Robert Bellettini**, Spring Valley, Illinois

Major Subject: Chemistry

Dissertation: Synthesis and Reactivity of  
*N*-Sulfonyloxy  $\beta$ -Lactams

Director: Dr. Marvin J. Miller

**Erika Elizabeth Bolig**, East Lansing, Michigan

Major Subject: Psychology

Dissertation: The Influence of Instructional Method,  
Social Self-Concept, and Affective Perspective  
Taking on Children's Social-Cognitive Zones of  
Proximal Development

Director: Dr. Jeanne D. Day

**Teresa Brito-Robinson**, Caracas, Venezuela

Major Subject: Biochemistry

Dissertation: Carbohydrate Structures of  
Recombinant and Human Plasma-Derived  
Fibrinolytic and Coagulation Proteins

Director: Dr. Francis J. Castellino

**James T. Carroll**, New Rochelle, New York

Major Subject: History

Dissertation: Americanization or Indoctrination:  
Catholic Indian Boarding Schools, 1874-1926

Director: Dr. Walter Nugent

**James Charles Cavendish**, Columbus, Ohio

Major Subject: Sociology

Dissertation: African-American Religion and the  
Mobilization of Community Activism:  
Congregations as Recruiting Agents

Director: Dr. Mark A. Chaves

**Julie A. Costello**, South Bend, Indiana

Major Subject: English

Dissertation: Romanticism and Maternity:  
Mothers "On Trial" in the Late Eighteenth and  
Early Nineteenth Centuries

Director: Dr. Greg P. Kucich

**Benny Fay Davis**, Memphis, Tennessee

Major Subject: Physics

Dissertation: Investigation of the Isoscalar Giant  
Dipole Resonance in  $^{208}\text{Pb}$

Director: Dr. Umesh Garg

**Edward Anthony Delgado-Romero**, Atlanta, Georgia

Major Subject: Psychology

Dissertation: Volition, Genetics and Alcohol:  
At the Crossroads

Co-Directors: Dr. Cindy Bergeman and  
Dr. George S. Howard

**David Dixon**, Whittier, California

Major Subject: Government and International  
Studies

Dissertation: Options for the Poor in Peñalolen:  
Elites, Popular Culture and Religious Congregations  
in Democratic Chile

Director: Dr. Scott P. Mainwaring

**Christian Yves Dupont**, Rockville, Maryland

Major Subject: Theology

Dissertation: Receptions of Phenomenology in  
French Philosophy and Religious Thought,  
1889-1939

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

**Leslie Maria Fergerstrom**, Gaithersburg, Maryland

Major Subject: Economics

Dissertation: Economic Environmental Linkages in a  
Small Developing Country: The Case of Bolivia

Director: Dr. Amitava K. Dutt

**Dawn Michele Hart-O'Rourke**, Freeburg, Missouri

Major Subject: Psychology

Dissertation: Who Complains About What to Whom:  
A Functional Perspective

Director: Dr. Raymond R. Reno

**Tony Hazbun**, South Bend, Indiana

Major Subject: Biological Sciences

Dissertation: Protein-Protein and Protein-DNA  
Interactions Involved in Gene Regulation

Director: Dr. Michael C. Mossing

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**Philip Bruce Heard**, Oklahoma City, Oklahoma  
Major Subject: Biological Sciences  
Dissertation: The Epidemiology of California and  
Bunyamwera Serogroup Viruses in Indiana  
Director: Dr. Paul R. Grimstad

**Amy Kristiana Heesacker**, Ellensburg, Washington  
Major Subject: Psychology  
Dissertation: Peer and Family Social Support in  
Young Children: An Examination of the Stress-  
Maladjustment Relationship  
Director: Dr. Cindy Bergeman

**John Joseph Hlavaty**, Cicero, Illinois  
Major Subject: Biochemistry  
Dissertation: The Location and Function of the  
Cations in Phosphoenolpyruvate Carboxykinase  
Director: Dr. Thomas L. Nowak

**Thomas G. Horvath**, South Bend, Indiana  
Major Subject: Biological Sciences  
Dissertation: Dispersal and Ecological Impact of  
Zebra Mussels, *Dreissena Polymorpha* (Pallas), in  
Coupled Lake-Stream Systems  
Director: Dr. Gary A. Lamberti

**Martin Patrick Hughes**, Spokane, Washington  
Major Subject: Chemistry  
Dissertation: Saccharide Transport and Anion  
Recognition Using Organoboron Receptors  
Director: Dr. Bradley D. Smith

**Carlos Alberto Ibarra Niño**, Mexico City, Mexico  
Major Subject: Economics  
Dissertation: Three Essays on the 1994-95 Mexican  
Currency Crisis  
Director: Dr. Jaime Ros

**Esohe Idusogie**, Lagos, Nigeria  
Major Subject: Biochemistry  
Dissertation: The Cloning and Characterization of  
the Murine Factor VII Gene and cDNA  
Director: Dr. Francis J. Castellino

**Michael Joachim**, Münster, Germany  
Major Subject: Mathematics  
Dissertation: The Twisted Atiyah Orientation and  
Manifolds Whose Universal Cover is Spin  
Director: Dr. Stephan A. Stolz

**Anthony Keaty**, Brighton, Massachusetts  
Major Subject: Theology  
Dissertation: The Holy Spirit as Love: A Study in the  
Pneumatology of Thomas Aquinas  
Director: Dr. Catherine Mowry LaCugna

**Xinjian Lei**, Shaanxi, People's Republic of China  
Major Subject: Chemistry  
Dissertation: Cluster Ligand Chemistry: Syntheses  
and Structural Characterization of Large Cluster  
Arrays Derived from a Tricobalt Cluster Acid,  
(CO)<sub>9</sub>Co<sub>3</sub>(μ<sub>3</sub>-CCO<sub>2</sub>H)  
Director: Dr. Thomas P. Fehlner

**Vincent J. Miller**, Pittsburgh, Pennsylvania  
Major Subject: Theology  
Dissertation: Tradition and Experience in Edward  
Schillebeeckx's Theology of Revelation  
Director: Rev. Thomas O'Meara, O.P.

**Eric Plumer**, Oxford, United Kingdom  
Major Subject: Theology  
Dissertation: Towards a Christian Discourse:  
Augustine's *Commentary on Galatians* and Late  
Antique Literary Traditions (with translation and  
notes)  
Director: Dr. John C. Cavadini

**Dorothy Ann Overstreet Pratt**, Granger, Indiana  
Major Subject: History  
Dissertation: A Study in Cultural Persistence: The  
Amish in La Grange County, Indiana, 1841-1945  
Director: Dr. Walter Nugent

**Christina Rieger**, Kansas City, Kansas  
Major Subject: English  
Dissertation: Consuming Visions: Gender,  
Aesthetics, and Consumer Culture for Ruskin and  
the Pre-Raphaelites  
Co-Directors: Dr. Chris R. Vanden Bossche and  
Dr. Kathy A. Psomiades

**Vinaya Sequeira**, Bombay, India  
Major Subject: Chemical Engineering  
Dissertation: Study of the Interaction Between  
Near-Surface and Bulk Microstructure in Liquid  
Crystals  
Director: Dr. Davide A. Hill

**Sergey Alexandrovich Suslov**, Ulyanovsk, Russia  
Major Subject: Aerospace Engineering  
Dissertation: Nonlinear Analysis of  
Non-Boussinesq Convection  
Director: Dr. Samuel Paolucci

**John Szegner**, Ronkonkoma, New York  
Major Subject: Chemical Engineering  
Dissertation: Effects of Non-Uniform Catalyst  
Distribution on Inorganic Membrane Reactor  
Performance: Experiments and Model  
Director: Dr. Arvind Varma

**Sydney Anthony Taegar**, Belize City, Belize  
 Major Subject: Physics  
 Dissertation: A Study of the  $\eta\eta$  System Produced in  
 the Reaction  $\pi^-p \rightarrow \eta\eta n$  at 18 GeV/c  
 Director: Dr. Neal M. Cason

**Arthur K. Umble**, Elkhart, Indiana  
 Major Subject: Civil Engineering  
 Dissertation: An Interdisciplinary Approach to  
 Topics in Biological Wastewater Treatment  
 Director: Dr. Lloyd H. Ketchum, Jr.

**John D. Witvliet**, Durham, North Carolina  
 Major Subject: Theology  
 Dissertation: The Doctrine of the Trinity and the  
 Theology and Practice of Christian Worship in the  
 Reformed Tradition  
 Co-Directors: Rev. John Allyn Melloh, S.M. and  
 Rev. James F. White

**Ruiyun Wu**, Taiyuan, People's Republic of China  
 Major Subject: Chemical Engineering  
 Dissertation: Enhancing Performance of  
 Three-Phase Packed-Bed Catalytic Reactors by  
 Pulsing-Flow Regime: Modeling and  
 Experimental Study  
 Co-Directors: Dr. Mark J. McCready and  
 Dr. Arvind Varma

## The Law School

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

**Rodrigo Armada Osorio**, Tijuana, Mexico  
**Tarseam Bhullar**, *Magna Cum Laude*, Vancouver,  
 British Columbia, Canada  
**Eugenio Tionko Dela Cruz**, Manila, Philippines  
**Bruno Serge Fatier**, Saint-Raphaël, France  
**Wolfram Irmer**, *Cum Laude*, Berlin, Germany  
**Pablo Jorquiera**, Santiago, Chile  
**Mark Patrick Miller**, *Cum Laude*, Cambridge,  
 United Kingdom  
**Melanie Noel Miller**, Cambridge, United Kingdom  
**Lillian Gabriela Rock**, Tegucigalpa, Honduras  
**Phillip Michael Sparkes**, *Cum Laude*, East Greenbush,  
 New York  
**Javier Alejandro Valencia**, Mesquite, Texas

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

**Troup Brian Coronado**, Washington, D.C.

## The Graduate School

### THE DEGREE OF MASTER OF ARTS ON:

**Uyanga Amarsaikhan**, Ulaanbaatar, Mongolia  
 Major Subject: Peace Studies

**Frances Carroll Amer**, Canfield, Ohio  
 Major Subject: Theology

**Obinna Peter Anyadike**, Owerri, Nigeria  
 Major Subject: Peace Studies

**Mya Sandi Aung**, Yangon, Burma  
 Major Subject: Peace Studies

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

**Frank P. Baresel**, Granger, Indiana  
 Major Subject: Theology

**Gabriela Behar**, Bucharest, Romania  
 Major Subject: Psychology

**Toni L. Bisconti**, Lowellville, Ohio  
 Major Subject: Psychology  
 Thesis: Perceived Social Control as a Mediator of  
 the Social Support-Successful Aging Relationship  
 Director: Dr. Cindy Bergeman

**Viviana Bompadre**, South Bend, Indiana  
 Major Subject: Sociology  
 Thesis: Dramatic Communication: An Example from  
 the Latin American Soap Operas  
 Director: Dr. Fabio B. Dasilva

**Kenneth Scott Bowie**, Bellaire, Texas  
 Major Subject: Theology

**Betsy Teresa Brody**, Richardson, Texas  
 Major Subject: Government and International  
 Studies

**Mikhail Alexeyevich Bunchuk**, Moscow, Russia  
 Major Subject: Economics

**Thomas Patrick Callaghan**, Forked River,  
 New Jersey  
 Major Subject: Psychology

**Cynthia Witt Carson**, Atlanta, Georgia  
Major Subject: Theology

**Lucia Cebotaru**, Chisinau, Moldova  
Major Subject: Peace Studies

**J. D. Childs**, South Bend, Indiana  
Major Subject: Theology

**Yuri Andreevich Chumakov**, Cheboksary, Russia  
Major Subject: Sociology  
Thesis: Religious Commitment and Attitudes  
Toward Euthanasia  
Director: Dr. Kevin J. Christiano

**Patricia Mary Coldren**, Vancouver, British Columbia,  
Canada  
Major Subject: Theology

**Sandra D. Collins**, South Bend, Indiana  
Major Subject: Psychology  
Thesis: A Functional Approach To Social  
Stereotyping: Explaining "Why"  
Director: Dr. Raymond R. Reno

**Jonathan Kadane Crane**, Seattle, Washington  
Major Subject: Peace Studies

**Amy Christine Crawford**, Council Bluffs, Iowa  
Major Subject: English

**Ann Elizabeth Deck**, Buffalo, New York  
Major Subject: English

**Vivian Dutari**, Panama City, Panama  
Major Subject: Peace Studies

**Melissa D. Falb**, Mishawaka, Indiana  
Major Subject: Theology

**Matthew James Fitzpatrick**, Wayzata, Minnesota  
Major Subject: Theology

**Moivabah Sekou Fofana**, Monrovia, Liberia  
Major Subject: Peace Studies

**Aubra Jessine Foss**, Eugene, Oregon  
Major Subject: Peace Studies

**Lisa Selena Mircea Franz**, Los Angeles, California  
Major Subject: Peace Studies

**Sabina B. Gesell**, Cambridge, Massachusetts  
Major Subject: Psychology  
Thesis: Premarital Relationships and Happiness:  
Prospective Mediating Variables  
Director: Dr. Ann P. Ruvalo

**Antonia Lisa Guerra**, San Antonio, Texas  
Major Subject: Psychology  
Thesis: Career Development in College Students:  
Individual and Family Factors in Decision Making  
Director: Dr. Julia M. Braungart-Rieker

**Rosella Guerrero, Jr.**, Sacramento, California  
Major Subject: Psychology

**Edward Paul Hahnenberg**, Lake Leelanau, Michigan  
Major Subject: Theology

**Greg Philip Hannsngen**, Blacksburg, Virginia  
Major Subject: Economics

**Leo Fredrick Hofmann**, Vegreville, Alberta, Canada  
Major Subject: Theology

**Joyce Elaine Kane**, Grand Rapids, Michigan  
Major Subject: Theology

**Violeta Kavaliauskaite**, Kaunas, Lithuania  
Major Subject: American Studies  
Thesis: "The Sacred Tree *Is Not Dead!*"  
Native American Political Resurgence in the Sixties  
Director: Dr. Claire H. Joly

**Michael Kowalski**, Amsterdam, Netherlands  
Major Subject: Peace Studies

**Kelly Ann Kuhn**, Moline, Iowa  
Major Subject: American Studies  
Thesis: Controversial Charity: Corporate  
Philanthropy, Enlightened Self-Interest, and the  
Homeless  
Director: Dr. Benedict F. Giamo

**Meleah Lynn Schreiner Ladd**, Chagrin Falls, Ohio  
Major Subject: Music  
Thesis: The Earliest Manifestations of Mutation  
Theory  
Director: Dr. Calvin M. Bower

**Yue Li**, Beijing, People's Republic of China  
Major Subject: Peace Studies

**Joan Maenner**, O.S.F., Midland, Maryland  
Major Subject: Theology

**Christopher Robert Magee**, Tavernier, Florida  
Major Subject: Theology

**Diane Joy Maodush-Pitzer**, Grand Rapids, Michigan  
Major Subject: Theology

**Jana Suzanne McDonald**, Lake Jackson, Texas  
Major Subject: Peace Studies

**Matthew Scott Mickle**, Houston, Texas  
Major Subject: Peace Studies

**Julie Moran**, Sydney, Australia  
Major Subject: Theology

**Yukiko Nakajima**, Nishinomiya City, Japan  
Major Subject: Peace Studies

**Jasmin Nordien**, Cape Town, South Africa  
Major Subject: Peace Studies

**Scott Raymond Opperman**, Temperance, Michigan  
Major Subject: Theology

**Shannon Kay Rentner**, Spokane, Washington  
Major Subject: American Studies  
Thesis: One Hundred Years of Women Registered  
Maine Guides: Re-Examining the Maine Woods  
Experience  
Director: Dr. Thomas J. Schlereth

**Mindy Rochelle Richie**, Houston, Texas  
Major Subject: Psychology

**Amy Lynn Scanlon**, Pittsburgh, Pennsylvania  
Major Subject: Peace Studies

**Ralph Hani Sleiman**, Beirut, Lebanon  
Major Subject: Peace Studies

**Jessica Kamila Szczepaniak-Gillece**, Linthicum,  
Maryland  
Major Subject: English

**Matthew Brennan Taylor**, Niskayuna, New York  
Major Subject: Psychology

**Sister Marysia Weber, R.S.M.**, Alma, Michigan  
Major Subject: Theology

**Nicholas Terrance Whalen**, Sharbot Lake, Ontario,  
Canada  
Major Subject: Theology

**Susan M. Wheatley**, Bend, Oregon  
Major Subject: Psychology  
Thesis: Children's Early Understanding of  
Figurative Language: When Do They Start To Get  
the Drift?  
Director: Dr. Andrea G. Backscheider

**Edward Joseph Winkler**, Schulenburg, Texas  
Major Subject: Theology

**Laura J. Ziliak**, Winona, Minnesota  
Major Subject: Theology

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

**Anjanette Jennifer Koritnik**, Livonia, Michigan  
Major Subject: Chemistry  
Thesis: Investigation of a Lewis Acid-Mediated  
Condensation in Novel Syntheses of  
1<sub>6</sub>-Methylcarbapenems and Cryptophycins  
Director: Dr. Marvin J. Miller

**Audrey Ai-Cheng Lim**, Petaling Jaya, Malaysia  
Major Subject: Biochemistry  
Thesis: Product Inhibition Studies and Equilibrium  
Isotope Exchange Kinetics on Phosphoenolpyruvate  
Carboxykinase  
Director: Dr. Thomas L. Nowak

**Carol Jean Monahan**, Rolling Meadows, Illinois  
Major Subject: Chemistry  
Thesis: Chemical Sensing Using Fluorescent Pyrene  
Derivatives  
Director: Dr. Bradley D. Smith

**Frank Channa Peiris**, Colombo, Sri Lanka  
Major Subject: Physics

**Jing Qiao**, Nanchong, People's Republic of China  
Major Subject: Chemistry  
Thesis: ESR Study of the Photochemistry of  
1,4,5,8-Naphthalenetetracarboxylic Acid  
Director: Dr. Richard W. Fessenden

**Christine Marie Taafe**, Hollidaysburg, Pennsylvania  
Major Subject: Biological Sciences  
Thesis: Biochemical Taxonomy of *Aedes*  
(*Stegomyia*) *Cretinus* and *Aedes* (*Stegomyia*)  
*Albopictus*  
Director: Dr. Karamjit S. Rai

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

**Matthew Boland**, Detroit, Michigan

Thesis: Evaluation of Alumino-Silicate and  
Barium Titanate Silicone Oil Suspensions as  
Electrorheological Fluids  
Director: Dr. Davide A. Hill

**Michael C. LaNeve**, Chester, West Virginia

Thesis: Metal Cluster of Clusters-Based Catalysts  
for the Hydrogenation of 2-Butenal  
Director: Dr. Eduardo E. Wolf

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

**Larry Dale Barchett, Jr.**, Vincennes, Indiana

Thesis: Issues in Porting Operating Systems  
Between Microkernels: A Case Study  
Director: Dr. David L. Cohn

**Yan Lin**, Beijing, People's Republic of China

Thesis: A Sparse Matrix Template Library  
Director: Dr. Andrew Lumsdaine

**Deyun Wu**, Jianxian, People's Republic of China

Thesis: Spectra and Pseudospectra of Toeplitz  
Matrices and Operators  
Director: Dr. Andrew Lumsdaine

**Xu Zhang**, Anshan, People's Republic of China

Thesis: High Performance Image Processing  
Director: Dr. Andrew Lumsdaine

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

**Xuedong Bi**, Luoyang, People's Republic of China

**Xiaojiang Guo**, Pingyao, People's Republic of China

**Xiao Li**, Beijing, People's Republic of China

**Weiwen Weng**, Shantou, People's Republic of China

**Hong Wu**, Beijing, People's Republic of China

**The College of Business  
Administration**

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**In the Graduate Division**

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

**Kathryn Jane Holl**, *Cum Laude*, Leipsic, Ohio

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

**Daniel R. Callahan**, *Magna Cum Laude*, Oak Brook,  
Illinois

**Susan Elaine Cipares**, *Cum Laude*, Edwardsburg,  
Michigan

**Barbara J. Johnson Farmer**, South Bend, Indiana

**Robert Richard Geier**, *Magna Cum Laude*, Medford,  
Oregon

**Susan Lydia Gillam**, *Magna Cum Laude*,  
Corner Brook, Newfoundland, Canada

**Verónica Adriana Guzmán**, South Bend, Indiana

**Ray D. Gyori-Helmuth**, *Summa Cum Laude*, Elkhart,  
Indiana

**Michael Hayes Kennedy**, La Grange, Illinois

**Maria Miceli Dotterweich**, *Cum Laude*, Jackson,  
Michigan

**Penny Sue Mosher**, Columbia City, Indiana

**Gita S. Patel**, South Bend, Indiana

**Ronnie Renee Smith**, Culver, Indiana

**S Mary Albertine Stachowski**, *Cum Laude*, Buffalo,  
New York

**Patricia C. Tabor**, Dyer, Indiana

**Michael William Tyrell**, *Magna Cum Laude*,  
Chamberlain, South Dakota

**Mary Ann Wilhelm, R.S.M.**, *Magna Cum Laude*,  
Daphne, Alabama

**Sister Cheryl Rose Winzenburg, O.S.B.**,  
*Magna Cum Laude*, Duluth, Minnesota

## The College of Arts and Letters

### THE DEGREE OF BACHELOR OF ARTS ON:

Paula Marie Amaral, *Cum Laude*, New London, Wisconsin  
Rachel Caidor, Miami, Florida  
John T. Cardarelli, Providence, Rhode Island  
Corie Frances Colacino, West Des Moines, Iowa  
Sarah Maria Corson, Bonners Ferry, Idaho  
Michael Roger Denvir, Hinsdale, Illinois  
Amy Rebecca Dunccliffe, *Cum Laude*, Georgetown, Kentucky  
Allison Kathryn Fish, Bedford, Indiana  
Andre Fitzgerald Jones, Atlanta, Georgia  
Rick Justen Kaczinski, Erie, Pennsylvania  
Ellen Winifred Leen, Dearborn Heights, Michigan  
Carrie Morgan LeFevre, Miami, Florida  
Cristiane J. Likely, El Paso, Texas  
Daniel Eugene Livingston, South Bend, Indiana  
Tristan Francis Mackprang, *Magna Cum Laude*, Huntington Beach, California  
Matthew Thomas Mammolenti, Mishawaka, Indiana  
Thomas Christian Matzzie, Pittsburgh, Pennsylvania  
Tzipora Tamara McCarthy, Brockton, Massachusetts  
Terrence Joseph McGlinn, Jr., Sinking Spring, Pennsylvania  
Patrick Mark Murphy, *Cum Laude*, Silver Spring, Maryland  
Steve Keebum Nam, Canton, Ohio  
Shawn Michael Nolen, South Bend, Indiana  
Gwendolyn Michelle Norgle, Elmhurst, Illinois  
Lawrence Patrick Parker, Albuquerque, New Mexico  
Roxanne Renee Rodriguez, Las Vegas, Nevada  
Paul Christian Rogers, Santa Rosa, California  
Adam John Teresi, Mayfield Heights, Ohio  
Rodrigo Antonio Villaronga, Santiago, Chile  
Brian Elliot Welch, Granger, Indiana  
Carlos Antonio Wright, Benton Harbor, Michigan  
Nazreen J.A. Zahri, Johore, Malaysia  
Mollie Katherine Zito, Spirit Lake, Iowa

## The College of Science

### THE DEGREE OF BACHELOR OF SCIENCE ON:

Remster Alexander Bingham IV, Spring Lake, Michigan  
Sean William Gallavan, Upper Marlboro, Maryland  
Mai Ngoc Ly, Decatur, Illinois  
Maxine Ann Maspero, San Antonio, Texas  
Victoria Ann Mullek, Robertsedale, Alabama  
Tamiko Lynne Sherlock, Gresham, Oregon

## The College of Business Administration

### In the Undergraduate Division

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

Jennifer R. Carlson, Niles, Michigan  
Nick Ming-Huang Chen, Taipei, Taiwan  
Erin Marie Green, South Bend, Indiana  
Jeffrey Francis Kloska, Elkhart, Indiana  
John Charles Nobilski, Hornell, New York  
Todd Jason Pagden, Voorhees, New Jersey  
Robert Koehl Starmann, Jr., Frankfort, Illinois  
Nicholas Mark Tancheff, Golden Valley, Minnesota

## The College of Architecture

### THE DEGREE OF BACHELOR OF ARCHITECTURE ON:

Alexander Christian Brockhagen, Phoenix, Arizona  
Broderick Benjel DuBose, Gary, Indiana  
Amina Nadeen Terry, St. Louis, Missouri

# AWARDS AND PRIZES

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## NATIONAL AWARDS

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### DOROTHY DANFORTH COMPTON FELLOW

David Dixon, Whittier, California

### FULBRIGHT GRANT FOR GRADUATE STUDY AND RESEARCH ABROAD

Vilma C. Balmaceda, Lima, Peru

### GRADUATE ASSISTANCE IN AREAS OF NATIONAL NEED PROGRAM

John Joseph Hlavaty, Cicero, Illinois  
Arthur K. Umble, Elkhart, Indiana

### INTERNATIONAL RESEARCH AND EXCHANGES BOARD FREEDOM SUPPORT ACT FELLOWSHIP

Mikhail Alexeyevich Bunchuk, Moscow, Russia

### NATIONAL ASSOCIATION OF STUDENT FINANCIAL AIDE GRANT (RUSSIAN/ EURASIA AWARD PROGRAM)

Lucia Cebotaru, Chisinau, Moldova  
Yuri Andreevich Chumakov, Cheboksary, Russia

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## IN THE GRADUATE SCHOOL

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### LATIN AMERICA 2000 FELLOWSHIP

Carlos Alberto Ibarra Niño, Mexico City, Mexico

### CLARE BOOTH LUCE FELLOWSHIP

Carol Jean Monahan, Rolling Meadows, Illinois

### ARTHUR J. SCHMITT FELLOWSHIP

Larry Dale Barchett, Jr., Vincennes, Indiana  
Martin Patrick Hughes, Spokane, Washington

### UNIVERSITY PRESIDENTIAL FELLOWSHIP

Dawn Michele Hart-O'Rourke, Freeburg, Missouri  
Eric Plumer, Oxford, United Kingdom

# ACADEMIC ATTIRE

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

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

Of the three pieces of academic attire, the cap, the gown and the hood, it is the hood that offers the most abundant and most readily 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*

## 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.

