

*The University of*

*Notre Dame du Lac*

*1990 Commencement*

*August 3*



OFFICIAL

*The University of*

*Notre Dame du Lac*

*1990 Commencement*

*August 3*



# Events of the Day

Friday, August 3, 1990.

## BACCALAUREATE MASS

8:30 a.m. Graduates and faculty assemble in the courtyard between Flanner and Grace halls, for the Academic Procession to Stepan Center.

8:40 a.m. Academic Procession departs for Stepan Center.

9:00 a.m. Baccalaureate Mass ——— Stepan Center.

### *Principal Celebrant and Homilist:*

Rev. Robert A. Krieg, C.S.C.  
Associate Professor of Theology

### *Concelebrants:*

Priests who will receive degrees during the Commencement Exercises, priest members of the faculty, and priest members of the Congregation of Holy Cross.

## COMMENCEMENT EXERCISES CONFERRAL OF DEGREES

10:25 a.m. Graduates and faculty assemble in the Auxiliary Gym of the Joyce Athletic and Convocation Center. Please enter Gate 1 or 2.

10:50 a.m. Academic Procession begins.

11:00 a.m. Conferring of Degrees in the Joyce Athletic and Convocation Center ——— Concourse.

### *Presiding Officer:*

Timothy O'Meara, Ph.D.  
Provost of the University

### Commencement Address:

Patricia A. O'Hara, J.D.  
Vice President for Student Affairs

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

# Baccalaureate Mass

Stepan Center  
University of Notre Dame  
Notre Dame, Indiana  
at 9 a.m. (Eastern Standard Time)  
Friday, August 3, 1990

*Principal Celebrant and Homilist*  
Rev. Robert A. Krieg, C.S.C.

*Organist*  
Robert Minotti

*Psalmist*  
Denise Boychuk

*Cantor*  
Timothy Stempniewski

*Guitar and Harp*  
Steven Warner

*The Symphony Brass Quintet*  
Craig Heitger, *trumpet*  
Steve Reed, *trumpet*  
Peggy Brillli, *French horn*  
Joe Hickner, *trombone*  
Rick Watts, *tuba*

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# BACCALAUREATE MASS

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## PRELUDES

## ACADEMIC PROCESSION

*Trumpet Voluntary* ..... Stanley

## ENTRANCE HYMN

### I Sing the Mighty Power of God

*tune: Ellacombe*



1. I sing the mighty pow'r of God That  
2. I sing the goodness of the Lord That  
3. There's not a plant or flower be- low But



made the moun- tains rise, That spread the flow- ing  
filled the earth with food; That formed cre - a- tion  
makes your glo- ries known; And clouds a - rise, and



seas a- broad, And built the loft- y skies. I  
with a word, And then pro- nounced it good. Lord,  
tem- pests blow, By or - der from your throne; While



sing the wis- dom that or - dained The sun to rule the day; The  
how your won- ders are dis - played, Where- e'er I turn my eye; If  
all that bor- rows life from you Is ev- er in your care, And



moon shines full at God's com- mand And all the stars o- bey.  
I sur - vey the ground I tread, Or gaze up- on the sky!  
ev- 'ry - where that I may be, O God, be pre- sent there.

## OPENING PRAYER

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# Liturgy of the Word

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## READING I

Proverbs 8:22-31

*Wisdom was born before the earth was made.*

## RESPONSORIAL PSALM

Psalm 69:5, 8-10, 14

*Peloquin*



## READING II

Romans 5:1-5

*To God through Christ in the love  
which is poured out through the Spirit.*

## GOSPEL ACCLAMATION

*Trapp*



## GOSPEL

John 16:12-15

*Whatever the Father has is mine.  
The Spirit will receive what I give and tell you about it.*

## GOSPEL ACCLAMATION

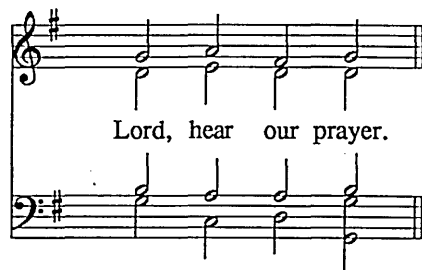
*Trapp*



## HOMILY

Rev. Robert A. Krieg, C.S.C.

## GENERAL INTERCESSIONS



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# Liturgy of the Eucharist

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## PREPARATION OF THE GIFTS

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

## Eucharistic Prayer

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

### SANCTUS

*mf*

Ho - ly, ho - ly, ho - ly Lord, God of pow - er and might.  
- Heav'n and earth are full of your glo - ry. Ho -  
san - na in the high - est, ho - san - na in the high - est.  
Blest is he who comes in the name of the Lord. Ho -  
san - na in the high - est, ho - san - na in the high - est.

*Proulx*

MEMORIAL ACCLAMATION

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

AMEN

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

# Communion Rite

LORD'S PRAYER + DOXOLOGY

SIGN OF PEACE

LAMB OF GOD

Trapp

Cantor: Lamb of God . . . .

You take a-way the sins of the world: have mer- cy on us.

When the cantor repeats: Lamb of God . . . . please sing:

You take a-way the sins of the world: grant \_ us peace.

COMMUNION PROCESSION

Take and Eat

Joncas

Take and eat, take and eat, this is my bo - dy giv - en up for you;

Take and drink, take and drink, this is my blood, giv - en up for you.



PRAYER AFTER COMMUNION

# Closing Rite

BLESSING + DISMISSAL

HYMN

Lord, Whose Love in Humble Service

tune: *In Babilone*

1. Lord, whose love in hum - ble ser - vice Bore the  
 2. Still your chil - dren wan - der home - less; Still the  
 3. Called from wor - ship in - to ser - vice Forth in  
 weight of hu - man need, Who did on the  
 hun - gry cry for bread; Still the cap - tives  
 your great name we go, To the child, the  
 Cross for - sak - en, Show us mer - cy's per - fect deed;  
 long for free - dom; Still in grief we mourn our dead.  
 youth, the a - ged, Love in liv - ing deeds to show;  
 We, your ser - vants, bring the wor - ship Not of  
 As, O Lord, your deep com - pas - sion Healed the  
 Hope and health, good - will and com - fort, Coun - cil,  
 voice a - lone, but heart: Con - se - crat - ing  
 sick and freed the soul, Use the love your  
 aid, and peace we give That your chil - dren,  
 to your pur - pose Ev - 'ry gift which you im - part.  
 Spir - it kin - dles Still to save and make us whole.  
 Lord, in free - dom, May your mer - cy know and live.

RECESSIONAL

Psalm XIX ..... Marcello  
 Sonata from "Die Bankelsangerlieder" ..... Anonymous

Acknowledgements

Psalm 69 by Alexander Peloquin, the Community Mass by Richard Proulx, and Take and Eat by Michael Joncas © GIA Publications, Inc., Chicago, IL. All rights reserved, reprinted under license #1180.

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

*One Hundred Forty-Fifth*

*Commencement Exercises*

The Graduate School  
The Law School  
The College of Arts and Letters  
The College of Science  
The College of Engineering  
Graduate and Undergraduate Divisions of  
The College of Business Administration

Joyce Athletic and Convocation Center  
(Concourse)  
University of Notre Dame  
Notre Dame, Indiana  
At 11 a.m. (Eastern Standard Time)  
Friday, August 3, 1990

# Order of Exercises

## Processional

by Daniel H. Winicur, Ph.D.  
Dean of Administration and  
University Registrar

## America, the Beautiful - Ensemble and Audience

*O beautiful for spacious skies,  
For amber waves of grain  
For purple mountain majesties  
Above the fruited plain.  
America! America!  
God shed His grace on thee,  
And crown thy good with brotherhood  
from sea to shining sea.*

## Convening of the Convocation

by Timothy O'Meara, Ph.D.  
Provost of the University

## Presentation of Candidates for Degrees

The Doctor of Philosophy degree  
by Chau T. M. Le, Ph.D.  
Associate Dean of the Graduate School

The Master of Laws degree  
by Roger F. Jacobs, J.D.  
Associate Dean of the Law School

The Juris Doctor degree  
by Roger F. Jacobs, J.D.  
Associate Dean of the Law School

The Master degree  
by Chau T. M. Le, Ph.D.  
Associate Dean of the Graduate School

The Master of Business Administration degree  
by John G. Keane, Ph.D.  
Dean of the College of Business Administration

The Master of Science in Administration degree  
by John G. Keane, Ph.D.  
Dean of the College of Business Administration

The Bachelor degree in the College of Arts  
and Letters  
by Michael J. Loux, Ph.D.  
Dean of the College of Arts and Letters

The Bachelor degree in the College of Science  
by Jeremiah P. Freeman, Ph.D.  
Associate Dean of the College of Science

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

The Bachelor degree in the College of Business  
Administration  
by John G. Keane, Ph.D.  
Dean of the College of Business  
Administration

## Commencement Address\*

Patricia A. O'Hara, J.D..  
Vice President for Student Affairs

## Closing Remarks

Provost of the University

## Notre Dame, Our Mother\*

*O'Donnell-Casasanta*

*Notre Dame, Our Mother, tender,  
strong and true  
Proudly in the heavens gleams thy  
gold and blue.  
Glory's mantle cloaks thee, golden is  
thy fame  
And our hearts forever praise thee,  
Notre Dame:  
And our hearts forever love thee,  
Notre Dame.*

## Recessional of the Platform Party

*\*It is customary for men, although not for women wearing  
academic garb, to have their caps removed during the  
Commencement Address and the singing of the Alma Mater.*

# The Graduate School

## THE DEGREE OF DOCTOR OF PHILOSOPHY ON:

**Jeffrey Brian Barner**, Goshen, Indiana

Major subject: Physics. Dissertation: Tunneling in Artificial  $\text{Al}_2\text{O}_3$  Barriers and Single-Electron Tunneling in Metal/Barrier Multilayer Systems. Director: Dr. Steven Ruggiero

**Maitrayee Bhattacharyya-Pakrasi**, St. Louis, Missouri

Major subject: Biological Sciences. Dissertation: Molecular Analysis of Two Sporulation Genes in the Yeast *Saccharomyces cerevisiae*. Director: Dr. Mary J. Clancy

**Kitti Carriker**, West Lafayette, Indiana

Major subject: English. Dissertation: Literary Automata: Lacanian and Figurative Approaches to the Self-Created Miniature. Director: Dr. Leonard Orr

**Beth Maclay Doriani**, Monroeville, Pennsylvania

Major subject: English. Dissertation: Emily Dickinson: Daughter of Prophecy. Director: Dr. Charlene S. Avallone

**John Cameron Gordon**, Kilmarnock, Scotland

Major subject: Chemistry. Dissertation: The Chemistry of Complexes Containing Nickel-Group 6 and Cobalt-Group 6 Metal Bonds. Director: Dr. Michael J. Chetcuti

**Steven Wilson Horst**, Baltimore, Maryland

Major subject: Philosophy. Dissertation: Symbols, Computation and Intentionality: A Critique of the Computational Theory of Mind. Director: Dr. Kenneth M. Sayre

**Allan Murray Hunchuk**, Regina, Saskatchewan, Canada

Major subject: Sociology. Dissertation: To Be Able to Say: The Unveiling of the Life-World through the Sociology of Music. Director: Dr. Fabio B. Dasilva

**Henry Bernard Kreuzman III**, Cincinnati, Ohio

Major subject: Philosophy. Dissertation: Theories of Rationality in Epistemology and Philosophy of Science. Director: Dr. Richard Foley

**Therese Larochelle, P.M.**, Nashua, New Hampshire

Major subject: English. Dissertation: *Clarissa*, *Lelia*, and *Middlemarch*: A Study in Secularized Hagiographies. Director: Dr. James H. Walton

**Mark Louis Pernecky**, Evanston, Illinois

Major subject: Economics. Dissertation: Efficiency Wages, Unions, and Productivity Norms. Director: Dr. Teresa Ghilarducci

**Stephen D. Preston**, Philadelphia, Pennsylvania

Major subject: Civil Engineering. Dissertation: An Evaluation of Methods for the Estimation of Tributary Mass Loads. Co-Directors: Dr. Victor J. Bierman and Dr. Stephen E. Silliman

**Susan Lynn Prieto**, Grand Rapids, Michigan

Major subject: Psychology. Dissertation: Cognitive Schemata in Childhood Depression: An Application of the Information-processing Paradigm. Director: Dr. William Tageson

**Daniel Charles Rebek**, Wauwatosa, Wisconsin

Major subject: Psychology. Dissertation: The Effort-Rest Frequency Ratio as a Formal Property in Agent's Efforts to Achieve Self-Determined Control of Physical Exercise. Director: Dr. George S. Howard

**Kenneth George Rice**, Daytona Beach, Florida

Major subject: Psychology. Dissertation: Late Adolescent Attachment, Separation-Individuation, and Adjustment to College: A Time-sequential Study. Director: Dr. Daniel K. Lapsley

**Thomas Howard Schattauer**, Storm Lake, Iowa

Major subject: Theology. Dissertation: Announcement, Confession, and Lord's Supper in the Pastoral-Liturgical Work of Wilhelm Lohe: A Study of Worship and Church Life in the Lutheran Parish at Neuendettelsau, Bavaria 1837-1872. Director: Dr. Mark Searle

**Yutao Shen**, Tsingdao, People's Republic of China

Major subject: Civil Engineering. Dissertation: The Development of Physiological State Control Model for Anaerobic Sequencing Batch Reactors and Its Realization on a Knowledge-based Expert System. Director: Dr. Lloyd H. Ketchum, Jr.

**Susan Marie Steinbrueck**, Chicago, Illinois

Major subject: Psychology. Dissertation: Mother-Child Interactions of Depressed Children. Director: Dr. David A. Cole

**Hung-Fa Sun**, Panchio City, Republic of China

Major subject: Electrical Engineering. Dissertation: Two subjects in Finite Dimensional Dynamical System: Qualitative Analysis and Synthesis of a Class Neural Networks and Linear Systems Subject to Parameter Variations. Director: Dr. Anthony N. Michel

**Robert Szoke**, Monor, Hungary  
Major subject: Mathematics.  
Dissertation: Monge-Ampere Models.  
Director: Dr. Pit-Mann Wong

**Rajagopalan Venkatadri**, Madras, India  
Major subject: Civil Engineering. Dissertation:  
Studies on the Extracellular Enzyme System of the  
White Rot Fungus *Phanerochaete Chrysosporium*.  
Director: Dr. Robert L. Irvine

**Xiaofang Wang**, Changchun, People's Republic of China  
Major subject: Aerospace and Mechanical Engineer-  
ing. Dissertation: Wrinkling in Sheet Metal Forming.  
Director: Dr. Lawrence H. N. Lee

**Lei Xu**, Beijing, People's Republic of China  
Major subject: Biological Sciences. Dissertation:  
Hormonal Control of Hemolymph Lipoprotein Ice  
Nucleators and Antifreeze Proteins in Freeze Resistant  
Insects. Director: Dr. John G. Duman

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

**Anthony B. Aarons**, Kingston, Jamaica  
Major subject: Theology

**William Joseph Amberg**, Rochester, Minnesota  
Major subject: Government and International Studies

**Leslie Anne Anderson**, Watseka, Illinois  
Major subject: History

**Sergei Basarab**, Kiev, U.S.S.R.  
Major subject: Peace Studies

**James Wm. Bessert**, Bay City, Michigan  
Major subject: Theology

**Jo Anne Gassmann Bonello**, Ames, Iowa  
Major subject: Theology

**Rev. Mark-Thomas Booth**, O.F.M. Conv., Baltimore,  
Maryland  
Major subject: Theology

**Denise Mary Boychuk**, Brookfield, Illinois  
Major subject: Theology

**Neil Matthew Boyd**, Camp Hill, Pennsylvania  
Major subject: Psychology. Thesis: Post-Treatment  
Shock Stimulation (Feedback): Skin Resistance,  
Movement, and Fear as Determinants of Subsequent  
Movement and Escape Responding. Director:  
Dr. D. Chris Anderson

**Bengt Leonard Brown**, Springfield, Ohio  
Major subject: Peace Studies

**Polly Kathleen Carl**, Elkhart, Indiana  
Major subject: Peace Studies

**Frank Michael Alvarez del Castillo**, Munster, Indiana  
Major subject: Peace Studies

**Leonard Thomas Clark**, Portage, Indiana  
Major subject: Communication Arts

**Fr. William Cosgrave**, Wexford, Ireland  
Major subject: Theology

**German Creamer**, Quito, Equador  
Major subject: Economics

**Pedro Luiz Dalcerro**, Petropolis, Brazil  
Major subject: Peace Studies

**Stephen Vincent DeLeers**, Milwaukee, Wisconsin  
Major subject: Theology

**Anne Blake DenDooven**, Naples, Florida  
Major subject: Psychology

**Kathleen Hynes Dewey**, Santa Barbara, California  
Major subject: Communication Arts

**Mary Carol Doherty**, Towson, Maryland  
Major subject: Psychology

**Daniel Keith Douglas**, Tulsa, Oklahoma  
Major subject: Theology

**Delores Dufner**, O.S.B., St. Joseph, Minnesota  
Major subject: Theology

**Maria Teresa Estrada**, St. Louis, Missouri  
Major subject: Psychology. Thesis: Educational  
Aspirations of Mexican-American Children: The  
Importance of Possible Selves. Co-Directors:  
Dr. John G. Borkowski and Dr. Jeanne D. Day

**Katalin Fabian**, Budapest, Hungary  
Major subject: Peace Studies

**Kathleen Eve Farrell**, Portland, Oregon  
Major subject: English

**Catherine Ann Faulk**, Mississauga, Ontario, Canada  
Major subject: Theology

**Steven Raymond Fava**, Summit, New Jersey  
Major subject: English

**Robert E. France**, Alpharetta, Georgia  
Major subject: History

**Richard Rene Gaillardetz**, Austin, Texas  
Major subject: Theology

**William Otis Gregg**, Abingdon, Virginia  
Major subject: Theology

**Cecilia Margaret Hall-Brennan**, Portland, Oregon  
Major subject: Theology

**Daniell Carl Hamby**, Gainesville, Georgia  
Major subject: Theology

- Lene G. Hansen**, Milwaukee, Wisconsin  
Major subject: Psychology
- Marika Hedin**, Uppsala, Sweden  
Major subject: History
- Andrea Liliana Castaneda Hidalgo**, Tampico, Mexico  
Major subject: Peace Studies. Thesis: The Mass Media as a Vehicle for Peace: An Exploratory Analysis of the Influence of the Media on War and Peace Issues. Director: Dr. Robert C. Johansen
- Paul Higbee**, Spearfish, South Dakota  
Major subject: Communication Arts
- Rebecca Bontrager Horst**, Goshen, Indiana  
Major subject: English
- Nancy J. Houlihan**, Chicago, Illinois  
Major subject: Communication Arts
- Mary Ambrose Huszak, C.S.J.**, Hamilton, Ontario, Canada  
Major subject: Theology
- Brother Paul R. Ickes, C.F.C.**, Chicago, Illinois  
Major subject: History
- Mari Ishibashi**, Fukuoka, Japan  
Major subject: Peace Studies
- Paula Faye Jordan**, Albany, Oregon  
Major subject: Economics
- Jo Ann Fritzmaier Kalb**, Louisville, Kentucky  
Major subject: Theology
- Sister Elizabeth E. Kane, O.S.F.**, Baltimore, Maryland  
Major subject: Theology
- Rev. Jeffrey Kemper**, Dayton, Ohio  
Major subject: Theology
- Musa Khalidi**, East Jerusalem, Palestine  
Major subject: Peace Studies
- Sr. Patricia Ann Knight, O.S.U.**, Bronx, New York  
Major subject: Theology
- Kristina M. Krimm**, Columbus, Ohio  
Major subject: Theology
- Daniel Paul Kroger, O.F.M.**, Cincinnati, Ohio  
Major subject: Theology
- Lisa Mary Kuhns**, Fort Walton Beach, Florida  
Major subject: Peace Studies
- Heidi Lamb**, Boston, Massachusetts  
Major subject: Government and International Studies
- Roy Lanham**, Charleston, Illinois  
Major subject: Theology
- Sharon Elizabeth Lanham**, Charleston, Illinois  
Major subject: Theology
- Brother Thomas G. Lisack**, Stevens Point, Wisconsin  
Major subject: English
- Laura Diane Loeffler**, Stevensville, Michigan  
Major subject: Psychology
- Cristina Logan-Truman**, Gainesville, Florida  
Major subject: Theology
- Elizabeth Anne Lohmuller**, Bluffton, Indiana  
Major subject: Communication Arts
- David A. Lysik**, Santa Maria, California  
Major subject: Theology
- Pamela Anne Manz**, Pensacola, Florida  
Major subject: Theology
- Michele Marie Martin**, Pensacola, Florida  
Major subject: Theology
- Robert Thomas Mastro**, Potomac, Maryland  
Major subject: Communication Arts
- Edward C. Mazzu**, Beaumont, Texas  
Major subject: Theology
- Ethel-Louise McDonough, R.S.M.**, Hollywood, Florida  
Major subject: History
- Jon J. McMahon, O.M.I.**, New Orleans, Louisiana  
Major subject: Communication Arts
- Melissa McNelly**, Uvalde, Texas  
Major subject: Psychology
- Patricia Marie McSweeney**, Westerville, Ohio  
Major subject: Psychology
- Joy Anne Meeker**, Minneapolis, Minnesota  
Major subject: Peace Studies
- Vincent Jude Miller**, Pittsburgh, Pennsylvania  
Major subject: Theology
- Kurt A. Mills**, Greenfield, Massachusetts  
Major subject: Peace Studies
- Sister Mary Andrea Mitchell, R.S.M.**, Philadelphia, Pennsylvania  
Major subject: Theology
- Willa Murphy**, Provo, Utah  
Major subject: Theology
- Scott Harmon Matthew Pell, C.S.C.**, Portland, Oregon  
Major subject: Theology. Thesis: Where Do We Go from Here? The Churches Respond to BEM: Convergencies and Divergencies on the Eucharist. Director: Edward J. Kilmartin, S.J.
- David James Philippart**, Buffalo, New York  
Major subject: Theology

- Ronald Patrick Raab, C.S.C.**, Notre Dame, Indiana  
Major subject: Theology
- Peter Albert Ritzer**, Sun Prairie, Wisconsin  
Major subject: Theology
- Vera E. Rocks, I.H.M.**, Immaculata, Pennsylvania  
Major subject: Theology
- Dana Leokadija Rogers**, South Bend, Indiana  
Major subject: Psychology
- Sr. Marie Jose Romano**, Honolulu, Hawaii  
Major subject: Theology
- Judy Keim Ross**, Goshen, Indiana  
Major subject: Communication Arts
- Kathleen C. Royer**, Elkhart, Indiana  
Major subject: English
- Thomas Schuster**, Augsburg, Federal Republic of Germany  
Major subject: Peace Studies
- Donald Joseph Schwarzhoff**, Galesville, Wisconsin  
Major subject: Theology
- Steven Reynolds Michael Shippee**, South Bend, Indiana  
Major subject: Theology
- Linda Kay Short**, Kettering, Ohio  
Major subject: Peace Studies
- Brian David Simboli**, Cheyney, Pennsylvania  
Major subject: Philosophy
- Grant Scott Sperry-White**, Souix City, Iowa  
Major subject: Theology
- Timothy Dean Stempniewski**, Detroit, Michigan  
Major subject: Theology
- Jill Karol Sternberg**, Milwaukee, Wisconsin  
Major subject: Peace Studies
- Kaja Szwykowska**, Warsaw, Poland  
Major subject: Peace Studies
- Kay M. Tallmadge**, Wauwatosa, Wisconsin  
Major subject: Theology
- Heather Caswell Taylor**, Loudon, New Hampshire  
Major subject: Psychology
- S.P. Udayakumar**, Nagercoil, India  
Major subject: Peace Studies. Thesis: Intervention in Sri Lanka: History and Prospects. Director: Dr. Gilbert D. Loescher
- Jennifer Ann Webber**, Roseburg, Oregon  
Major subject: History
- Samarakoongedara Francis Wijerante**, Alagollawa, Sri Lanka  
Major subject: Theology
- Reverend Thomas S. Willis**, Jacksonville, Florida  
Major subject: Theology
- Jacquelyne Mary Witter**, LaCrosse, Wisconsin  
Major subject: Theology
- Paul Joseph Wojda**, Ramsey, New Jersey  
Major subject: Theology
- Junhong Hannah Wu**, Shenyang, People's Republic of China  
Major subject: Peace Studies
- Alejandro Ferriero Yazigi**, Santiago, Chile  
Major subject: Peace Studies
- Yuri V. Zaichuck**, Kiev, U.S.S.R.  
Major subject: Peace Studies
- Joanne C. Zema**, Parma Heights, Ohio  
Major subject: Theology
- THE DEGREE OF MASTER OF SCIENCE ON:**
- Holia N. Hatoum**, Kherbet Kanafar, Lebanon  
Major subject: Chemistry. Thesis: Substituent Effects in the Generation of a-Thiocarbomoyl Substituted Cations. Director: Dr. Xavier Creary
- Yijian Jin**, Hangzhou, People's Republic of China  
Major subject: Chemistry. Thesis: Electronic Population Inversion by Shaping Light Pulse: An Optimal Control Approach. Director: Dr. David J. Tannor
- David R. Jourdan**, Stillwater, Minnesota  
Major subject: Biological Science. Thesis: Migration and Commitment of a Stem Cell Line in a Hydrozoan Planula, *Pennaria tiarella*. Director: Dr. Vicki J. Martin
- Christopher Charles Puin**, Cleveland Heights, Ohio  
Major subject: Mathematics
- David Bennett Pulling**, Troy, Michigan  
Major subject: Physics
- Zhi-an Shao**, Hefei, Anhui, People's Republic of China  
Major subject: Physics
- Yu Shen**, Nanjing, People's Republic of China  
Major subject: Mathematics

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

**Carl Fenglong Zhang**, Wuhan, People's Republic of China  
Thesis: Sound Radiated From a Thin Airfoil at  
Supersonic Speed. Director: Dr. Hafiz M. Atasi

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

**Mark A. Mader**, DeSoto, Texas  
Thesis: Formulation of a Non-Linear Reinforced  
Concrete Finite Element Code with Applications to  
the Analysis of Concrete Structures in Service.  
Director: Dr. Leonard Morse-Fortier

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

**Arindam Banerji**, Calcutta, India  
Thesis: A New Programming Model for Distributed  
Applications. Director: Dr. David L. Cohn

**Timothy M. Bryden**, Mahwah, New Jersey  
Thesis: C Language Support for Object-oriented Pro-  
gramming in ARCADE. Director: Dr. David L. Cohn

**David Gu**, Shanghai, People's Republic of China  
Thesis: Via-Minimization Expert for Topological  
Switchbox Routing Problem. Co-Directors:  
Dr. Chong Ho Lee and Dr. Eugene W. Henry

**Srinivas Sivaprakasam**, New Delhi, India  
Thesis: Finite Element Simulation of Quantum  
Devices. Director: Dr. Craig S. Lent

**Edward Rife Smith**, Frankton, Indiana  
Thesis: The Design of an ARCADE-based Distributed  
File System. Director: Dr. David L. Cohn

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

**Ajoy K. Basu**, Trivandrum, India  
Thesis: Synthesis, Characterization and Electrical  
Properties of Titanium and Tantalum-based  
Perovskite-Type Ceramics. Director: Dr. A. R. Pelton

**V. Sundararaman**, Ahmedabad, India  
Thesis: A Single-Impact Study of the Rebound of  
Erodent Particles. Director: Dr. T. H. Kosel

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

**Luis Gonzalo Canales**, San Salvador, El Salvador  
Thesis: Effect of Twist Dimension on a Generalized  
Double Pointing System. Director:  
Dr. Michael M. Stanisc

**John Chiqiong Xu**, Shanghai, People's Republic of China  
Thesis: Analysis of Flow Over Fixed and Rotatable  
Cylinder-Splitter Plate Body. Co-Directors:  
Dr. Mohamed Gad-el-Hak and Dr. Mihir Sen



# The College of Business Administration In the Graduate Division

## THE DEGREE MASTER OF BUSINESS ADMINISTRATION ON:

Gerald Scott Brandon, Raleigh, North Carolina  
Scott William Dowling, Baltimore, Maryland  
Gary W. Parsons, East Syracuse, New York  
Michael Shepardson, Satellite Beach, Florida

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

Bilkisu Adama Ajanah, Rockville, Maryland  
Jamie A Battin, *With Honors*, Dushore, Pennsylvania  
Josette M. Bender, Elkhart, Indiana  
Walter Andrew Blake, South Bend, Indiana  
Michael Louis Bossory, Romulus, Michigan  
William Earl Brackett, Niles, Michigan  
William E. Darr, Warsaw, Indiana  
Marguerite Ihnat DeRose, *With High Honors*,  
Schererville, Indiana  
Felice Antionette Dudley-Collins, South Bend, Indiana  
Mary Joe Elias, South Bend, Indiana  
Thomas George Gorman, *With Honors*,  
Evergreen Park, Illinois  
Ross F. Havens, *With Honors*, South Bend, Indiana  
Marlene Lottie Hedges, Highland, Indiana  
Sister Ann Regina Hughes, *With Honors*, Peoria,  
Illinois  
Thampi Kayala, C.S.C., Bangalore, India  
Susan Rose Koski, *With High Honors*, Granger, Indiana  
Gail Jean Kolpin Kuiper, Hebron, Indiana  
Johan H. Kuitse, *With High Honors*, South Bend,  
Indiana  
Rebecca Jane Lincoln, South Bend, Indiana  
Marijo Cathryn Martinec, South Bend, Indiana  
Sue Nelson Ann Messaglia, South Bend, Indiana  
Patricia J. Mominee, *With Honors*, Mishawaka,  
Indiana  
Lauren Jean Carr Mullet, Porter, Indiana  
David J. Naples, CSC, *With Honors*, Akron, Ohio  
Jacqueline Nash-Lee, Detroit, Michigan  
Thomas Francis Nehring, *With High Honors*,  
Oak Park, Illinois

Lynn Thoma Olszewski, *With Honors*, Schererville,  
Indiana  
Iris Lucille Outlaw, *With Honors*, South Bend,  
Indiana  
Barbara A. Pacionek, South Bend, Indiana  
Dianne Patnaude, *With Honors*, South Bend, Indiana  
Pamela A. Paulk, Mishawaka, Indiana  
Robert A. Pruitt, Niles, Michigan  
Jane Hoopes Robinson, South Bend, Indiana  
Barbara Anne Scanlon, South Bend, Indiana  
Lenice Schmidt, *With Honors*, South Bend, Indiana  
Sr. Barbara Lynn Schmitz, OSB, *With Highest Honors*,  
Ferdinand, Indiana  
Jeffrey L. Secrist, Rochester, Indiana  
Sr. Marie Therese Sedgwick, *With Honors*, Chicago,  
Illinois  
Sr. Mary Josef Shingler, P.H.J.C., *With High Honors*,  
Donaldson, Indiana  
Denise Darcel Steen, South Bend, Indiana  
Peggy Frances Stovall, Bonham, Texas  
Roni Rae Tomlinson, Hebron, Indiana  
Celia J. Turcotte, *With High Honors*, Pembroke, Canada  
Larry S. Ulery, St. Joseph, Michigan  
Rhonda L. Wieschhaus, *With Honors*, South Bend,  
Indiana

## The Law School

### THE DEGREE OF MASTER OF LAWS ON:

Antonio Felix de Araujo Cintra, Sao Paulo, Brazil  
Pamela J. Baker, *Magna Cum Laude*, St. Paul,  
Minnesota  
Miguel De Pombo Espeche, Bogota, Colombia  
Marie-France de Pover, *Magna Cum Laude*, Liege,  
Belgium  
Marisa Hontoria Gaya, London, England,  
United Kingdom  
Stephane Ronsin, Paris, France  
Yasuhiro Tasaka, Yokohama, Japan  
Y. van Dongen, Rotterdam, Netherlands  
Cristina Marelina Vianna, Sao Paulo, Brazil  
Chung-Chu Wu (Nelson Wu), Taipei,  
Republic of China,

### THE DEGREE OF JURIS DOCTOR ON:

Carlos Anthony Razo, Pomona, California

# The College of Arts and Letters

## THE DEGREE OF BACHELOR OF ARTS ON:

Braxston L. Banks, Hayward, California  
Michael Emile Baruch, Hinsdale, Illinois  
Timothy Joseph Beerman, Cincinnati, Ohio  
Michael A. Bohn, Lafayette, Louisiana  
Michael Anthony Brady, Memphis, Tennessee  
Thomas John Crehan, Palos Verdes, California  
Peter Gerard Dumon, Owosso, Michigan  
Ted Williams Erbrecht, Upper St. Clair, Pennsylvania  
Brett Jerry Erxleben, Rockford, Illinois  
John A. Foley Jr., Chicago, Illinois  
John Louis Haley, South Bend, Indiana  
Christine Marie Heslin, *With Honors*, Latham,  
New York  
Sean Patrick Hilgendorf, South Bend, Indiana  
Michael Slater McCue, Macon, Georgia  
Kelly William McKay, Fort Lewis, Washington  
Lawrence Leo Meehan, Lowellville, Ohio  
Brian Joseph Meenaghan, Ashland, Oregon  
Paul D. Millea, Pittsburgh, Pennsylvania  
Stacy Ann Nyikos, *With High Honors*, Tulsa, Oklahoma  
Patrick John O'Rourke, Amherst, New Hampshire  
Patricia M. Randazzo, South Bend, Indiana  
Jeanette Mae Ryan, Alexandria, Virginia  
Alan Charles Silvidi, Stow, Ohio  
Michael James Sullivan, Mishawaka, Indiana  
Quinn T. Thurin, South Bend, Indiana  
Lisa Sharon Tidwell, Gary, Indiana  
Jeffrey Dean Tilton, Fargo, North Dakota

# The College of Science

## THE DEGREE OF BACHELOR OF SCIENCE ON:

Casimir Kyle Crist, West Palm Beach, Florida  
Patricia Laurie Villanueva, Mishawaka, Indiana

# The College of Engineering

## THE DEGREE OF BACHELOR OF ARCHITECTURE ON:

Paul Joseph Kelly, Omaha, Nebraska  
William Gary McCraw, Arlington, Texas  
Steven New, South Bend, Indiana

## THE DEGREE OF BACHELOR OF SCIENCE IN AEROSPACE ENGINEERING ON

Edward Michael Dieser, Aurora, Illinois  
Michael Edward Kozlik, Rockville Center, New York  
Kevin Patrick Madden, South Bend, Indiana

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

Craig Creamean, Streator, Illinois

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

John Francis Krotzer, *With Honors*, Vestal, New York

# The College of Business Administration

## THE DEGREE OF BACHELOR OF BUSINESS ADMINISTRATION ON:

Timothy Jay Bach, Farmington Hills, Michigan  
Brenden Larry Beck, *With Honors*, Bakersfield,  
California  
Jocelyn Siuyin Chan, Silver Spring, Maryland  
Michael John Crouse, Endicott, New York  
Timothy Joseph Ehrman, East Amherst, New York  
John Robert Gale, Basking Ridge, New Jersey  
Matthew Hadsell, Niles, Michigan  
Matthew John Highbarger, South Bend, Indiana  
Francine Kelly, East Chicago, Illinois  
Steve Robert McLaughlin, Absecon, New Jersey  
Dennis Joseph Murphy, Canton, Massachusetts  
Patrick Michael Porter, Windham, Maine  
Kevin Francis Regan, Freeport, New York  
Stanley Adam Smagala, Burbank, Illinois  
Ross P. Sullivan, North Dartmouth, Massachusetts

# ACADEMIC ATTIRE

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

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

Of the three pieces of academic attire, the cap, the gown, and the hood, it is the hood that offers the most abundant and most readily discernible information about its owner. The inner lining of the hood identifies the institution at which the individual earned the degree. Some schools have adopted two-color patterns and introduced chevrons and bars in various designs to set themselves apart from other institutions. The velvet trim bordering the hood indicates the major field of learning, or faculty, in which the degree has been earned. The list at the conclusion of this section will explain this relationship. A final feature of the hood concerns its length and width and distinguishes further between holders of bachelor's, master's, and doctor's degrees. The length of the hood for

the bachelor's degree is three feet, closed at the bottom, and the velvet border is two inches. At Notre Dame, individuals receiving a bachelor's degree do not wear a hood. A master's degree holder has a hood three and one half feet in length with a three inch wide border, and is slit at the bottom. Those individuals with a doctorate degree wear a hood four feet in length, open at the bottom, with a five inch border.

The gown is usually black in color but some American universities, including Notre Dame, have adopted distinctive colors for their robes. Notre Dame doctorate degree robes are blue, reflecting one of its official colors.

The cut of the gown aids in differentiating between the three levels of degrees. The bachelor's gown is relatively simple and falls in straight lines from an elaborate yoke. It may be recognized most readily by the long, pointed sleeves. The master's gown is somewhat fuller and bears no adornment. The sleeves are oblong in shape and open at the wrist, with the rear part of the oblong square cut while the front edge has a cutaway arc. The doctor's gown is more elaborate with velvet panels down the front and around the neck of the garment. The sleeves are bell-shaped at the end and have three bars of the same material as the front panels at the upper portion of the arm. It is cut rather full and may be ornamental in color. Notre Dame's 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.

## FACULTY COLORS

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

