

One Hundred Nineteenth
Commencement Exercises

OFFICIAL

JUNE EXERCISES

THE 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 COLLEGE OF BUSINESS ADMINISTRATION



On the University Mall
At 2:00 p.m. (Eastern Standard Time)
Sunday, June 7, 1964

PROGRAM

PROCESSIONAL

CITATIONS FOR HONORARY DEGREES

by the Reverend Chester A. Soleta, C.S.C.
Vice-President of Academic Affairs

THE CONFERRING OF HONORARY DEGREES

by the Reverend Theodore M. Hesburgh, C.S.C.
President of the University

PRESENTATION OF CANDIDATES FOR DEGREES

by the Reverend Paul E. Beichner, C.S.C.
Dean of the Graduate School

by Joseph O'Meara
Dean of the Law School

by the Reverend Charles E. Sheedy, C.S.C.
Dean of the College of Arts and Letters

by Frederick D. Rossini
Dean of the College of Science

by Norman R. Gay
Dean of the College of Engineering

by Thomas T. Murphy
Dean of the College of Business Administration

THE CONFERRING OF DEGREES

by the Reverend Theodore M. Hesburgh, C.S.C.
President of the University

PRESENTATION OF THE LAY FACULTY AWARD

PRESENTATION OF THE PROFESSOR THOMAS MADDEN FACULTY AWARD

COMMENCEMENT ADDRESS

by the Honorable Thomas C. Mann
Assistant Secretary of State
for Inter-American Affairs

THE BLESSING

by His Eminence Raul Cardinal Silva Henriquez
Archbishop of Santiago, Chile

Degrees Conferred

The University of Notre Dame announces the conferring of:
The Degree of Doctor of Laws, honoris causa, on:

His Eminence Raul Cardinal Silva Henriquez, Santiago, Chile
Most Reverend Miguel D. Miranda, Mexico, D. F., Mexico
Honorable Thomas C. Mann, Washington, D. C.
Dr. Rafael Caldera, Caracas, Venezuela
Honorable John E. Fogarty, Washington, D. C.
Mr. Timothy P. Galvin, Hammond, Indiana
Mr. John S. Gleason, Jr., Washington, D. C.
Honorable John J. McCloy, New York, New York
Dr. Charles Wagley, New York, New York

IN THE GRADUATE SCHOOL

The University of Notre Dame confers the following degrees
in course:

The Degree of Doctor of Mediaeval Studies on:

Peter Anthony Ford, Pawtucket, Rhode Island
A.B., Providence College, 1956; M.A. University of Notre Dame, 1958; M.S.M.,
ibid., 1959. Dissertation: The College of Burgundy at the Mediaeval Univer-
sity of Paris: History, Topography, and Chartulary.

The Degree of Doctor of Philosophy on:

Usman Mahmood Adhami, Aligarh, U.P., India
B.Sc., University of Lucknow (India), 1949; M.Sc., Aligarh Muslim Univer-
sity, 1951. Major subject: Biology. Dissertation: Genetic studies on yellow
larva in *Aedes aegypti* (Diptera: Culicidae).

†Madan Mohan Bhasin, New Delhi, India

B.Sc., University of Delhi, 1958. Major subject: Chemistry. Dissertation:
Infrared Spectra of Some Acetylenes Chemisorbed on Gamma Alumina
Aerogel.

Francis J. Biros, Wilkes-Barre, Pennsylvania

B.S., King's College (Pennsylvania), 1959. Major subject: Chemistry. Disser-
tation: Further Studies in the Rates of Acetylation of Substituted Cylo-
hexanols.

†Paul Bödy, Omaha, Nebraska

B.S., The Creighton University, 1955; M.A., University of Notre Dame, 1959.
Major subject: History. Dissertation: Baron Joseph Eötvös and the Recon-
struction of the Habsburg Monarchy, 1840-1867.

James William Bond, Battle Creek, Michigan

B.S.E.E. University of Notre Dame, 1958; M.S., ibid., 1960. Major subject:
Mathematics: Dissertation: The Structure of Lie Algebras with Large Minimal
Generating Set.

†John Harvey Bright, Wernersville, Pennsylvania

B.S., Albright College, 1958; M.S., University of Wisconsin, 1961. Major
subject: Chemistry. Dissertation: Preparation of Alkylbromoboranes and
Properties of Alkylhalogenoboranes.

†Donald D. Carlos, Gary, Indiana

B.S., Indiana University, 1960. Major subject: Chemistry. Dissertation: Some
Reduction Products of 4-(Arylcyanomethylene) Benzequinone Oximes.

† Degrees conferred February 1, 1964.

- Robert Joseph Casey, E. Braintree, Massachusetts
B.S., Boston College, 1958; M.S., *ibid.*, 1960. Major subject: Physics. Dissertation: The Migration of Strontium on the (110) Plane of Tungsten by Pulsed Field Electron Microscopy.
- Rev. Patrick Edmund Cavanagh, London, Ontario, Canada
B.A., University of Western Ontario, 1946; M.A., University of Toronto, 1959. Major subject: Philosophy. Dissertation: The Doctrine of Assent of John Henry Newman.
- †Robert Lee Cook, Hollywood, Florida
B.S., University of Miami, 1958; M.A., *ibid.*, 1960. Major subject: Chemistry. Dissertation: The Theory of Centrifugal Distortion in Asymmetric Rotor Molecules.
- †William Rodney Coulson, LaJolla, California
A.B., Arizona State University, Tempe, 1955; M.A., University of Notre Dame, 1960. Major subject: Philosophy. Dissertation: Client-Centered Therapy and the Nature of Man.
- Sister Victor Dobyns, Sisters of Charity of Providence, Seattle, Washington
B.S., College of Great Falls, 1958. Major subject: Chemistry. Dissertation: Selected Topics in Microwave Spectroscopy.
- Sister Rose Margaret Dostal, Ursuline Nuns, Toledo, Ohio
A.B., Mary Manse College, 1946; M.A., University of Notre Dame, 1956. Major subject: English. Dissertation: Innocence and Knowledge in the Novels of Elizabeth Bowen.
- Joseph Anthony Durkin, Mishawaka, Indiana
B.S., King's College (Pennsylvania), 1952; M.S., Canisius College, 1960. Major subject: Chemistry. Dissertation: An Infrared Study of the Metal-Nitrogen Bond in Amino Acid Chelates.
- †David Michael Fahey, Albany, New York
B.A., St. Bernardine of Siena College, 1959; M.A., University of Notre Dame, 1961. Major subject: History. Dissertation: Historical Interpretations of the English Civil War, Particularly Since the Middle of the Eighteenth Century.
- †Rev. Cyprian Flanagan, Order of Friars Minor, Loudonville, New York
B.A., St. Bonaventure University, 1950; B.S., St. Bernardine of Siena College, 1956. Major subject: Chemistry. Dissertation: Determination of Molecular Structure and Nuclear Quadrupole Hyperfine Effects by Microwave Spectroscopy.
- Richard P. Francis, South Bend, Indiana
B.A., The Catholic University of America, 1952; M.A., University of Colorado, 1958. Major subject: Philosophy. Dissertation: The Doctrine of Natural Selection in John Dewey's Value Theory.
- Richard Giannone, Cedar Grove, New Jersey
B.A., The Catholic University of America, 1956; M.A., University of Michigan, 1957. Major subject: English. Dissertation: Music in Willa Cather's Fiction.
- Edward Joseph Gibbons, Philadelphia, Pennsylvania
B.S., LaSalle College, 1953; M.A., University of Notre Dame, 1958. Major subject: History. Dissertation: The Attitude of American Economists Toward the Labor Movement, 1919-1930.
- †Julian Ravenel Harrison III, Charleston, South Carolina
B.S., College of Charleston, 1956; A.M., Duke University, 1959. Major subject Biology. Dissertation: Variation in pygmy salamanders of the genus *Desmognathus* (Urodela: Plethodontidae).
- Bert Gerald Hornback, Bowling Green, Kentucky
B.A., University of Notre Dame, 1957; M.A., *ibid.*, 1961. Major subject: English. Dissertation: History, Time and Timelessness in the Novels of Thomas Hardy.
- Sister Marion Hosinski, Sisters of St. Mary, St. Louis, Missouri
B.S., St. Mary's College (Indiana), 1949; M.A., University of Notre Dame, 1954. Major subject: Education. Dissertation: Self, Ideal Self, and Occupational Role: Perceptual Congruence in Vocationally Committed College Women; A Cross-sectional Study of Self Perception, Self Aspiration, and Occupational Perception Among University Nursing Students.

- Sister Mary Rosanna Hughes, Dominican Sisters, Saint Catharine, Kentucky
B.A., Nazareth College (Kentucky), 1958; M.S., University of Notre Dame, 1961. Major subject: Mathematics. Dissertation: An Application of the Domain of Action to the Mordell Cubic Norm-distance.
- †Sister Mary Ann Jude Jungbauer, Sisters of the Immaculate Heart of Mary, Los Angeles, California
A.B., Immaculate Heart College, 1957; M.S., University of Notre Dame, 1961. Major subject: Chemistry. Dissertation: Divalent Metal Halide Complexes of Aniline and of N,N-dimethylformamide.
- Gerard Paul Lietz, Chicago, Illinois
B.S., De Paul University, 1959. Major subject: Physics. Dissertation: The Polarization of the Neutrons from the $\text{Be}^9(\alpha, n)\text{C}^{12}$ Reaction.
- Sister Jane Marie Luecke, Benedictine Sisters, Tulsa, Oklahoma
A.B., Benedictine Heights College, 1948; M.A., Marquette University, 1956. Major subject: English. Dissertation: Meter and the Free Rhythm of Beowulf.
- James A. MacMahon, Dayton, Ohio
B.S., Michigan State University, 1960. Major subject: Biology. Dissertation: An eco-physiological study of the water relations of three species of the salamander genus *Plethodon*.
- †Donald Louis Malaker, Marengo, Illinois
B.S., St. Procopius College, 1959. Major subject: Physics. Dissertation: Development of a Photon Monochromator and Nuclear Resonance Fluorescence from the 2.24 MeV State of S^{32} .
- Sister Mary Justin Markham, Sisters of Mercy, Hartford, Connecticut
B.A., St. Joseph College (Connecticut), 1951; M.S., University of Notre Dame, 1960. Major subject: Mathematics. Dissertation: A Group-Theoretic Characterization of the Ordinary and Isotropic Euclidean Planes.
- George Michael Matous, Ennis, Texas
B.S., St. Mary's University of San Antonio, 1958. Major subject: Physics. Dissertation: Isotopic Spin Selection Rule Violation in the $\text{Ne}^{20}(\text{d}, \alpha)\text{F}^{18}$ Reaction and Angular Distributions of $\text{O}^{18}(\text{He}^3, \text{p})\text{F}^{18}$ and $\text{Ne}^{20}(\text{d}, \alpha)\text{F}^{18}$.
- †Thomas Francis Moriarty, Holyoke, Massachusetts
B.A., College of the Holy Cross, 1956; M.A., University of Notre Dame, 1958. Major subject: History. Dissertation: The Harcourt Viceroyalty in Ireland, 1772-1777.
- Rev. Laurence Thomas Murphy, Catholic Foreign Mission Society of the United States, Union, New Jersey
B.S., United States Naval Academy, 1941; S.T.B., Maryknoll Seminary (New York), 1953; M.R.E., *ibid.*, 1954; M.A., University of Notre Dame, 1961. Major subject: Philosophy. Dissertation: The Role of Nature and Con-naturalness in Moral Philosophy According to St. Thomas Aquinas.
- Brother Richard Nelson, Brothers of the Christian Schools, New York City, New York
B.A., The Catholic University of America, 1955. Major subject: Chemistry. Dissertation: Molecular Structure, Internal Rotation and Centrifugal Distortion Effects of Some Asymmetric Rotor Molecules.
- Paul Anthony Orr, Wheeling, West Virginia
B.A., Loyola College (Montreal), 1947; M.A., McGill University, 1948. Major subject: English. Dissertation: The Artistic Principles of Gerard Manley Hopkins.
- †Charles R. Poinsatte, South Bend, Indiana
B.A., University of Notre Dame, 1947; M.A., *ibid.*, 1951. Major subject: History. Dissertation: Fort Wayne, Indiana, During the Canal Era, 1828-1855: A Study of a Western Community During the Middle Period of American History.
- Rev. Richard O. Poorman, C.S.C., Congregation of Holy Cross, Notre Dame, Indiana
B.A., Gannon College, 1950; M.A., University of Notre Dame, 1960. Major subject: Education. Dissertation: An Analysis of the Relationship Between the Concept of Shared Decision-Making and the Vow of Obedience in Religious Institutes in Catholic Higher Education.

- Sister Ann Kathleen Prendergast, Sisters of Loretto, St. Louis, Missouri
B.S., Loretto Heights College, 1946; M.S., St. Louis University, 1958. Major subject: Biology. Dissertation: On the Development of Local Lesion Symptoms with Tobacco Ringspot Virus.
- Chester Theodore Raymo, South Bend, Indiana
B.S.E.E., University of Notre Dame, 1958; M.S., University of California, 1960. Major subject: Physics. Dissertation: Optical Investigation of Molybdenum Films.
- †Sister Grace Frances Rossi, Maryknoll Sisters of St. Dominic, Inc., Maryknoll, New York
B.S., University of Oklahoma, 1950; M.S., University of Notre Dame, 1961. Major subject: Chemistry. Dissertation: The Kinetics of the Thermal Isomerization of Alpha-branched Trialkylboranes.
- James D. Rozics, Buffalo, New York
B.S., Canisius College, 1959. Major subject: Physics. Dissertation: Bremsstrahlung from Polarized Electrons.
- †Donald Edward Scherpereel, South Bend, Indiana
B.S., University of Notre Dame, 1959; M.S., *ibid.*, 1961. Major subject: Metallurgical Engineering and Materials Science. Dissertation: The Interaction of Dislocations and Ferromagnetic Domain Walls.
- Walter Alfred Schier, Lombard, Illinois
B.S., St. Procopius College, 1959. Major subject: Physics. Dissertation: Isotopic Spin Selection Rule Violation in $N^{14}(d, \alpha)C^{12}$ and Angular Distributions and Spectra from $N^{14}(d, \alpha)C^{12}$ and $N^{14}(d, 2\alpha)Be^8(2.90)$.
- †Francis Joseph Schima, Brookfield, Illinois
B.S., St. Procopius College, 1957. Major subject: Physics. Dissertation: The Decay of At^{210} to Po^{210} and Several Model Calculations.
- Sister Cor Mariae Schuler, Religious of the Sacred Heart of Mary, New York City, New York
B.A., Marymount College (New York), 1952; M.A., Marquette University, 1961. Major subject: English. Dissertation: The House of Peter Taylor: Vision and Structure.
- Basil Joseph Skelly, Plymouth, Pennsylvania
B.S., King's College (Pennsylvania), 1957; M.S., Duquesne University, 1959. Major subject: Biology. Dissertation: Effect of Components of the Intestinal Flora Upon Cecal Size of Gnotobiotic Mice.
- James Francis Slifker, Baltimore, Maryland
B.S., Loyola College (Maryland), 1959. Major subject: Mathematics. Dissertation: Exotic Multiplications on S^2 .
- †Sister Mary Petrus Sullivan, Religious Sisters of Mercy, Rochester, New York
B.A., Nazareth College (New York), 1954; M.A., University of Notre Dame, 1961. Major subject: English. Dissertation: The Descriptive Style of Joseph Conrad.
- †Bruce Palmer Thill, Lancaster, New York
B.S., Canisius College, 1959. Major subject: Chemistry. Dissertation: The Stereochemistry of Reduction of Acyclic Ketones and the Conformational Equilibrium of the Sulfhydryl Function.
- †Samuel Francisco Trevino, San Antonio, Texas
B.S., St. Mary's of San Antonio, 1958. Major subject: Physics. Dissertation: Polarization of the Neutrons from the $Be^9(\alpha, n)C^{12*}$ Reaction.
- Robert S. Turley, South Bend, Indiana
B.A., Mount Angel Seminary, 1959; M.A., University of Notre Dame, 1961. Major subject: Philosophy. Dissertation: Determinism in Freudian Psychoanalytic Theory.
- Sister M. Rosalie Urzendowski, Poor Sisters of St. Francis of Perpetual Adoration, Colorado Springs, Colorado
B.S., The Creighton University, 1958; M.S., *ibid.*, 1960. Major subject: Chemistry. Dissertation: Polarographic, Potentiometric and Calorimetric Studies in Aqueous Dioxane Media.

†Robert Humbert Vasoli, South Bend, Indiana
B.A., LaSalle College, 1952; M.A., University of Notre Dame, 1953. Major subject: Sociology. Dissertation: The Predictive Value of the Federal Presence Investigation.

Sister M. Jean Vianney Wallace, Congregation of the Sisters of the Holy Cross, Notre Dame, Indiana
B.S., St. Mary's College (Indiana), 1957. Major subject: Biology. Dissertation: Detection of Ovulation in the Mouse by Fluorescence Microscopy of the Vaginal Smear.

Donald Robert Weidman, Kansas City, Kansas
B.S., Rockhurst College, 1958. Major subject: Mathematics. Dissertation: The Character Ring of a Finite Group.

John Angus Weir, Charlottetown, Prince Edward Island, Canada
B.Comm., St. Dunstan's College (Canada), 1953; M.B.A., The University of Western Ontario, 1955. Major subject: Economics. Dissertation: Rural Reconstruction in Prince Edward Island: An Evaluation.

Sister Paula Marie Wilde, School Sisters of Notre Dame, Chicago, Illinois
B.S., Mount Mary College, 1959; M.S., University of Notre Dame, 1961. Major subject: Mathematics. Dissertation: A Quaternary Relation as the Primitive Notion in Several Geometries.

The Degree of Master of Arts on:

†William R. Aho, Mishawaka, Indiana
B.S.Ed., State Teachers College (Fitchburg, Massachusetts), 1958. Major subject: Sociology.

†William George Alexander, Cape Town, South Africa
B.A., University of Cape Town, 1948; M.A., University of Allahabad (India), 1951. Major subject: History.

Mrs. Elizabeth M. Anderson, Lakeville, Indiana
B.S.H.E., West Virginia University, 1953. Major subject: Education.

David Arthur Bickimer, Cleveland, Ohio
A.B., St. Mary's Seminary College (Maryland), 1958. Major subject: Education.

L/Col. Everett E. Blakely, South Bend, Indiana
B.A., University of Washington, 1948. Major subject: Education.

Kenneth John Bruder, New York, New York
B.A., St. John's University (New York), 1962. Major subject: Philosophy.

Donald John Bush, Phoenix, Arizona
B.S.E.E., Arizona State College, Tempe, 1959. Major subject: Art.

Ralph Michael Cardillo, Guelph, Ontario, Canada
B.A., University of Ottawa, 1958. Major subject: Theology.

Guido Remo Carmassi, Auburn, New York
B.A., University of Notre Dame, 1962. Major subject: English.

John Broderick Chomeau, South Bend, Indiana
B.A., University of Notre Dame, 1956. Major subject: Government and International Studies.

Axel Jean Cogels, Stockholm, Sweden
B.A., University of Notre Dame, 1963. Major subject: Economics. Dissertation: The Role of the Rules of Competition with the Treaty of Rome.

Thomas F. Condon, Portland, Oregon
B.A., University of Portland, 1963. Major subject: Sociology.

Brother Louis Cote, Brothers of Christian Instruction, Alfred, Maine
B.A., La Mennais College, 1954. Major subject: Theology.

†Sister M. Louis Richard Dion, Sisters of Saint Anne, Paxton, Massachusetts
B.A., Anna Maria College, 1957. Major subject: Sociology.

- Rev. James Carroll Fahey, Congregation of Holy Cross, Notre Dame, Indiana
B.A., University of Notre Dame, 1952. Major subject: Sociology.
- James K. Flanagan, Jersey City, New Jersey
B.S., Seton Hall University, 1962. Major subject: English.
- †Gabriel Joseph Gomes, Tarrytown, New York
B.A., University of Notre Dame, 1962. Major subject: Philosophy. Dissertation: The Origin and the Nature of the Intelligible Species in Intellectual Knowledge According to St. Thomas Aquinas.
- Sister M. Joseph Adele Halbach, Our Lady of Victory Missionary Sisters, Huntington, Indiana
B.A., Clarke College, 1953. Major subject: English.
- †John Edward Healey, Golden Valley, Minnesota
B.A., St. Mary's College (Minnesota), 1959. Major subject: English.
- Vincent L. Heinrichs, Dyersville, Iowa
B.A., Loras College, 1959. Major subject: English.
- Rev. Lawrence Joseph Henry, Congregation of Holy Cross, Chicago, Illinois
B.A., University of Notre Dame, 1958. Major subject: English.
- Patrick Coughlin Herriges, Madison, Minnesota
B.A., St. John's University (Minnesota), 1961; M.A., Purdue University, 1963. Major subject: Theology.
- Sister Marguerite Wilfrid Kenny, Sisters of St. Joseph of Carondelet, Albany, New York
B.A., College of St. Rose, 1958. Major subject: English.
- John James Kern, Parkersburg, West Virginia
B.A., Wheeling College, 1961. Major subject: Sociology.
- †Rev. James Edward Kiley, Society of Mary, Harper Woods, Michigan
B.A., St. Bernard's Seminary and College, 1946. Major subject: Education.
- Kenneth Ching Sun Kim, Junior, Honolulu, Hawaii
A.B., Georgetown University, 1962. Major subject: Government and International Studies.
- Rev. Joseph Julius Lengermann, Congregation of Holy Cross, Notre Dame, Indiana
S.T.B., Pontificia Universita Gregoriana, 1960; S.T.L., *ibid.*, 1962. Major subject: Sociology.
- Cosimo Anthony Lipari, Patterson, Louisiana
B.A., Notre Dame Seminary, 1961. Major subject: Education.
- †David Roger Luisi, Rockland, Massachusetts
A.B., Stonehill College, 1962. Major subject: English.
- George Arthur Martin, St. Paul, Minnesota
B.A., St. Mary's College (Minnesota), 1961. Major subject: Philosophy.
- Capt. Paul Francis Mitchell, Mishawaka, Indiana
B.A., University of Cincinnati, 1953. Major subject: Education.
- Colonel William Joseph Mullen, South Bend, Indiana
B.S., United States Military Academy, 1934. Major subject: History.
- Charles Stephen Neerland, Minneapolis, Minnesota
B.A., College of St. Thomas (Minnesota), 1962. Major subject: English.
- Sister Kathleen Dolores O'Brien, Congregation of the Sisters of the Holy Cross, Nashville, Tennessee
B.A., St. Mary's College (Indiana), 1957. Major subject: Art.
- Frank Peter Orlando, Brooklyn, New York
B.A., St. Peter's College, 1962. Major subject: History.
- Robert Anthony Policastro, Greensburg, Pennsylvania
B.A., University of Notre Dame, 1962. Major subject: Economics.

†Sister Arthur Marie Quinn, Congregation of the Sisters of the Holy Cross, Notre Dame, Indiana
B.A., St. Mary's College (Indiana), 1961. Major subject: History.

Sid Shannon Reffett, LaPorte, Indiana
B.A., Ball State Teachers College, 1957. Major subject: English.

Cleo Hassan Rial, Wau, Sudan
B.S., Xavier University (Ohio), 1958. Major subject: Government and International Studies.

Rev. Edward Lawrence Richardson, Brigantine, New Jersey
S.T.L., The Catholic University of America, 1950. Major subject: Philosophy.

Rev. Paul Arthur Roy, Missionaries of Our Lady of La Salette, Fitchburg, Massachusetts
S.T.B., Angelicum Pontifical University, 1957; S.T.L., *ibid.*, 1959. Major subject: English.

Father Anthony John Salzbrunn, Canons Regular of the Order of the Holy Cross, Syracuse, Indiana
Ordained, Immaculate Conception Monastery, Hastings, Nebraska, 1952. Major subject: History.

†Rev. Carl Hersch Satre, Syracuse, Indiana
A.B., Carthage College, 1956; B.D., Wittenberg College, 1959. Major subject: Theology.

Martin J. Shannon, Chicago, Illinois
B.A., St. Joseph's College (Indiana), 1962. Major subject: Economics.

Ryland A. Taylor, Jr., West Chicago, Illinois
B.A., DePaul University, 1962. Major subject: Economics. Dissertation: Some Welfare Aspects of a Market Socialist and Market Syndicalist Model.

Rev. John J. Vincent, Canons Regular of the Order of the Holy Cross, Syracuse, Indiana
Ordained, Crosier House of Studies, Fort Wayne, Indiana, 1958. Major subject: Classics.

†Richard Francis Wheeler, Whitinsville, Massachusetts
B.A., Providence College, 1962. Major subject: Economics.

Garland Dale Williams, South Bend, Indiana
B.S., Ball State Teachers College, 1959. Major subject: Education.

Albert K. Wimmer, Munich, Germany
University of Munich, 1958-1961. Major subject: Government and International Studies. Dissertation: "Libido Dominandi": A Study in St. Augustine's *De Civitate Dei*.

The Degree of Master of Mediaeval Studies on:

Jules Alfred St. Pierre, Indian Orchard, Massachusetts
B.A., Assumption College, 1959. Dissertation: William of Auxerre: an Introduction and Orientation.

The Degree of Master of Fine Arts on:

John Albert Day, East St. Louis, Illinois
A.B., St. Benedict's College (Kansas), 1962.

Robert Kirschling, De Pere, Wisconsin
B.S., St. Norbert College, 1962.

Theodore Kalanikoa Lum, Honolulu, Hawaii
B.F.A., University of Notre Dame, 1956.

Patrick Joseph Saxe, Elmira, New York
B.F.A., University of Notre Dame, 1962.

The Degree of Master of Music on:

†Ronald Joseph Caviani, Iron Mountain, Michigan
B.M.E., Northern Michigan College, 1962. Dissertation: *Mateo Falcone*, an Opera in One Act. Libretto: Richard Schrader. Music: Ronald Caviani.

The Degree of Master of Science on:

- †Ali Atia Abdulla, Baghdad, Iraq
B.S., University of Baghdad, 1961. Major subject: Physics.
- Tarik Sultan Al-Bassam, Baghdad, Iraq
B.S., University of Baghdad, 1961. Major subject: Physics.
- Fawzi Jalal Al-Hamzawi, Baghdad, Iraq
B.S., University of Baghdad, 1961. Major subject: Physics.
- Edward A. Anderson, Junior, Lebanon, Pennsylvania
B.S., Lebanon Valley College, 1958. Major subject: Mathematics.
- John Allen Berg, Porterfield, Wisconsin
B.A., Augsburg College, 1959. Major subject: Mathematics.
- Richard Armstrong Bracken, Elkhart, Indiana
A.B., Indiana University, 1960. Major subject: Mathematics.
- Sister Marie-de-Nazareth Caza, Congregation of Notre Dame,
Montreal, Canada
B.A., College Marguerite-Bourgeoys, 1955. Major subject: Mathematics.
- †Miss Helen Teresa Closser, Rochester, New York
B.A., Nazareth College (New York), 1959. Major subject: Mathematics.
- Sister Mary St. Lawrence Demanche, Maryknoll Sisters of St.
Dominic, Honolulu, Hawaii
B.S., College of Mount Saint Vincent, 1940. Major subject: Biology.
- Michael Caesar Gemignani, Rochester, New York
A.B., The University of Rochester, 1962. Major subject: Mathematics.
- David Allen Heim, Fremont, Nebraska
B.A., State Teachers College, Wayne, Nebraska, 1960. Major subject:
Mathematics.
- David James Hickman, Louisville, Kentucky
B.S., Morehouse College, 1961. Major subject: Mathematics.
- Robert Paul Johnson, San Diego, California
B.A., San Diego College for Men, 1962. Major subject: Mathematics.
- Richard Joseph Krajewski, Chicago, Illinois
B.S., Loyola University (Illinois), 1962. Major subject: Physics.
- †R. Allen Mansell, South Bend, Indiana
B.A., McMaster University (Canada), 1932. Major subject: Chemistry.
- George Smith Mattingly, Lebanon, Kentucky
B.A., Bellarmine College, 1960. Major subject: Chemistry. Dissertation: Some
Reduction Products of 4-(Arylcyanomethylene) benzequinone Oximes.
- Thomas Edward McCormick III, Baltimore, Maryland
B.S., Loyola College (Maryland), 1962. Major subject: Mathematics.
- Joe Adair McMillian, Deer Park, Texas
B.A., Rice Institute, 1953; M.E., University of Houston, 1959. Major subject:
Mathematics.
- Carl Armen Miller, Grants Pass, Oregon
B.S., Oregon State University, 1960. Major subject: Mathematics.
- Robert Joseph Parker, Bronx, New York
B.A., Marion College (New York), 1958. Major subject: Mathematics.
- Brother Donatus Joseph Roche, Brothers of Christian Schools,
Washington, D. C.
B.A., LaSalle College, 1959; M.A., *ibid.*, 1960. Major subject: Mathematics.
- Miss Margaret Edwina Scanlan, North Miami Beach, Florida
B.S., Barry College, 1961. Major subject: Mathematics.

Sister Mary Kenneth Schefe, Sisters of Charity, Greensburg,
Pennsylvania

B.A., Seton Hill College, 1963. Major subject: Mathematics.

Bernard A. Stukenborg, Plymouth, Indiana

B.A., St. Joseph's College (Indiana), 1960. Major subject: Mathematics.

James Walter Walker, Hermosa Beach, California

B.S., Loyola University of Los Angeles, 1958; M.A., *ibid.*, 1960. Major subject: Mathematics.

Marvin Russell Winzenread, Indianapolis, Indiana

B.S., Purdue University, 1960. Major subject: Mathematics.

The Degree of Master of Science in Aeronautical Engineering on:

John Michael Schnaubelt, La Grange Park, Illinois

B.S.A.E., University of Notre Dame, 1962. Dissertation: Aircraft Performance Optimization.

Marshall Wayne Thomas, Pensacola, Florida

B.S.A.E., University of Notre Dame, 1963. Dissertation: An Investigation of the Second Shock Formed by a Double Angled Cone.

The Degree of Master of Science in Chemical Engineering on:

†Chu-Jen Chia, Anhwei, China

B.S., National Taiwan University, 1959. Dissertation: The Effect of Gas Inlet Velocity on Entrainment From a Fluidized Bed of Glass Spheres.

†Edward A. McGee, Whiting, Indiana

B.S.Ch.E., University of Notre Dame, 1959.

Patrick Thomas Rigney, Dublin, Ireland

B.E., University College, Dublin, 1962.

The Degree of Master of Science in Civil Engineering on:

John Frederick Brinker, Evanston, Illinois

B.S.C.E., University of Notre Dame, 1962. Dissertation: The Influence of Water Cement Ratio and Surface Active Agent on the Air Void System of Air-entrained Concrete.

Vincent Paul Drnevich, E. McKeesport, Pennsylvania

B.S.C.E., University of Notre Dame, 1962. Dissertation: The Direct Shear Test for Dynamic Soil Testing.

Mark Lester Hermann, Greensburg, Indiana

B.S.C.E., University of Notre Dame, 1963. Dissertation: The Effects of Aggregate as a Retention Mechanism of Air-entrained Concrete.

Theodore Richard Kretschmer, Chicago, Illinois

B.S.C.E., University of Notre Dame, 1962. Dissertation: An Experimental Study of Soil Response to Dynamic and Static Direct Shear.

Anthony A. Napoli, Chicago Heights, Illinois

B.S.C.E., University of Notre Dame, 1963. Dissertation: A Numerical Study Applied to Deep Beams.

†John Anthony Shanahan, Wilmington, Delaware

B.S.C.E., University of Notre Dame, 1962. Dissertation: A Finite Difference Solution of a Two Dimensional Elastic Continuum Subjected to Mixed Boundary Conditions.

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Cert., Universidad Católica Andrés Bello, Caracas, 1957-1961. Dissertation: An Investigation of the Correction Factor for Kinetic Energy in Rivers.

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B.S.C.E., University of Notre Dame, 1962. Dissertation: Approximate Method for the Determination of Stresses and Displacements in a Two-dimensional Viscoelastic Voigt Medium.

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Diplome Ingénieur, Ecole d'Electricité Industrielle de Paris, 1963.

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The Degree of Master of Science in Engineering Science on:

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B.S., University of Cincinnati, 1962. Dissertation: Rheoelectric Analog of Certain Free Streamline Flows.

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B.S., Pennsylvania State University, 1962. Dissertation: Phase Relations on the
System Lead Telluride-Antimony-Lead.

Syamal Kumar Lahiri, Belgharia, West Bengal, India
B.E.(Met.), Bengal Engineering College, 1961. Dissertation: Effect of Disloca-
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†Michael Edward Britt, Youngstown, Ohio
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** Magna Cum Laude

*** Maxima Cum Laude

† Degree Conferred February 1, 1964

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 Michael Dwyer Casper, Louisville, Kentucky
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 James Francis Coogan, Melvindale, Michigan
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 Thomas Michael Monahan, St. Louis, Missouri
 John Regan Moran, Greensburg, Pennsylvania

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 Vincent Terry O'Donnell, Manchester, New York
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 Richard Robert Russell, Houston, Texas
 Gary Maurice Sabatte, Lafayette, California
 Charles Francis Salusky, South Bend, Indiana
 John Alexander Salzmann, North Hollywood, California
 Warren John Sanger, Bellerose, Long Island, New York
 Jan Joseph Santich, Rawlins, Wyoming
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 William Gardner Schma, Kalamazoo, Michigan
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 James Patrick Stenger, Birmingham, Michigan
 Donald Egan Stephan, Evanston, Illinois
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 Kevin Daniel Sullivan, Yokohama, Japan
 Martin Ford Sullivan, Tulsa, Oklahoma
 William Richard Swanson,* St. Paul, Minnesota
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 James Robert Costello, Waldwick, New Jersey
 William John Green, Waukegan, Illinois
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 Dennis Paul Killeen, Shaker Heights, Ohio
 William Harold Lewis, Rockford, Illinois
 Robert Stephen Liptak, Independence, Ohio
 Lawrence Joseph Litzau, Milwaukee, Wisconsin
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 Charles Philip Jarasek, Evergreen Park, Illinois
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 Joseph Aloysius LaNasa, Jr., New Orleans, Louisiana
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 †Dennis Norman Broglio, Euclid, Ohio
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 Francisco José Escobar Rivera, Bogota, Colombia, South America
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 Thomas James Foody, London, Ohio
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 Albert Edward Carpenter, Jr., New Orleans, Louisiana
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 Matthew James Ebinger, Lorain, Ohio
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 Walter Thomas Gamard, New Orleans, Louisiana
 David Paul Garner, Painesville, Ohio
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 S. John Gedge, Shaker Heights, Ohio
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 Kenneth William Gigax, Indianapolis, Indiana
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 Thomas Mark Glaser, Fort Dodge, Iowa
 Terrence James Gleason, Jetmore, Kansas
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 John Paul Hume, Naperville, Illinois
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 Robert Paul Kelley, Jr., Glen Ellyn, Illinois
 Donovan George Kelly, Billings, Montana
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 Ronald John Kizior, Berwyn, Illinois
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 Eugene Stanley Koster, Chicago, Illinois
 Richard Chester Kowalski, Mount Clemens, Michigan
 Fred William Kuhn, Jr., Park Forest, Illinois
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 †Michael Christopher Lane, Coral Gables, Florida
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 Ernest Joseph Larini, New York, New York
 David Albert Lattanzio, Coraopolis, Pennsylvania
 Gregory Paul LaVigne, St. Louis, Missouri
 Richard David Leberman, Meadowbrook, Pennsylvania
 Frederick King Lederer, Toms River, New Jersey
 Albert William Lefere, Jackson, Michigan
 Gerald Bernard Lefere, Jackson, Michigan
 Philip Michael Leitzinger,* Clearfield, Pennsylvania
 Dennis Edward LeJeune, Glenview, Illinois
 †John Harrison L'Estrange, Westport, Connecticut
 Richard Raymond Lewis, Highland, Indiana
 William Anthony Likar, Houston, Pennsylvania
 John Allen Lilly, Kalamazoo, Michigan
 Fred Henry Lindner, Jr., De Pere, Wisconsin
 Rocco Thomas Logiodice, Elmwood Park, Illinois
 Martin Peter Lombardi, Roslyn, New York
 Michael Thomas Long, West Hartford, Connecticut
 Raymond Gerald Lubawy, South Bend, Indiana
 James Richard Lydon, Knox, Pennsylvania
 Michael Dee Lydon, Wrightstown, Pennsylvania
 John Thomas Lyons, Neenah, Wisconsin
 Thomas Louis MacDonald, Downey, California
 †Alfonso Anthony Magnotta, Albion, Michigan
 Michael Christopher Mahan, Tulsa, Oklahoma
 Roger Layton Malcolm, New York, New York
 George Simon Malouf, Salt Lake City, Utah
 Peter Joseph Mangelli, Cedar Grove, New Jersey
 David Rex Manion, Washington, D.C.
 Joseph Peter Manzelli, Long Island, New York
 Carmen Michael Manzo, Bristol, Pennsylvania
 Carmen Michael Marino, Cleveland, Ohio
 William Isaac Markwell, Jr., Henderson, Kentucky
 Roger Stephen Matelski, Chicago, Illinois
 Michael Denis McCarthy, Ballwin, Missouri
 Richard Joseph McCarthy, Framingham, Massachusetts
 Francis James McCormack, Hopkinton, Massachusetts
 Dennis Claude McFarland, Sioux Falls, South Dakota
 William Bernard McIntyre, Jr., Grosse Pointe Park, Michigan
 John Louis McTernan, Cincinnati, Ohio
 Thomas George Meagher, Jr., Louisville, Kentucky
 †William Vincent Meeker, Arcadia, California
 Nicholas George Mehl, Dallas, Texas
 Philip Robert Melchert, Chicago, Illinois
 Michael Joseph Mestrovich, New Brighton, Pennsylvania
 Richard Donald Miles, Leonardo, New Jersey
 William Michael Mohler, Greensburg, Pennsylvania
 Joseph Michael Monahan, Arcola, Illinois
 Joseph Michael Moore, East Grand Rapids, Michigan

James Edward Morrison, Jr., Philadelphia, Pennsylvania
 Thomas Arch Morrison, Cleveland, Ohio
 Michael Francis Morrissey, Edina, Minnesota
 William Benjamin Munson, IV, Denison, Texas
 Daniel Reilly Murphy, Jr.,* Chicago, Illinois
 James Hubert Murray, Jr., Lowell, Massachusetts
 Paul Francis Muscat, Mobile, Alabama
 John Stephen Narmont,** Auburn, Illinois
 Jeffrey Paul Neubert, Riverside, Connecticut
 Ralph Nofi,** Port Washington, New York
 Edward Lucas Norton, Rochester, New York
 Michael Francis Norton,* Westchester, Illinois
 John Anderson Oberhausen, Tell City, Indiana
 Mark Anthony Oberhausen, Tell City, Indiana
 †John Joseph Obermiller, North Canton, Ohio
 Dennis James O'Brien, Mount Ephraim, New Jersey
 James Hutton O'Brien, Grabill, Indiana
 Richard Francis O'Brien, Westfield, New Jersey
 Thomas Vincent O'Connor, Chicago, Illinois
 William John O'Connor, Red Lodge, Montana
 John Peter O'Gorman, Upper Montclair, New Jersey
 William Daniel O'Hearn, Chicago, Illinois
 John Edward O'Neil, Binghamton, New York
 Dennis Patrick O'Neill, Evergreen Park, Illinois
 John William O'Neill, Greenbelt, Maryland
 Joseph Edward O'Neill, Fond du Lac, Wisconsin
 Brendan Peter O'Reilly, New York, New York
 Eugene Henry O'Sullivan, Plainfield, New Jersey
 Frank Joseph Pekofski, La Porte, Indiana
 Emil Peter, III, Louisville, Kentucky
 John Wallace Pettit, Grosse Pointe Woods, Michigan
 William Martin Pfeiffer, Chicago, Illinois
 William Walter Phalan, Rome, New York
 John Samuel Poelker, St. Louis, Missouri
 Paul Edward Ponicki, Norridge, Illinois
 David Richard Rahn,** Peoria, Illinois
 †Peter George Reibold, Waterbury, Connecticut
 Thomas Brearton Reilly, East Orange, New Jersey
 Thomas Edward Reiser, Havana, Illinois
 Leon Jastremski Reymond, Jr., Baton Rouge, Louisiana
 James Anthony Rinella, Kewanee, Illinois
 David Patrick Rivoira, Cincinnati, Ohio
 Richard Alan Roggeveen,* Chicago, Illinois
 Paul Rupert Rossman, Shelby, Ohio
 Antonio J. Roxas,* Madrid, Spain
 Wayne Harry St. Clair, Springfield, Virginia
 Ernest John Scharpf, Brooklyn, New York
 Charles Lewis Schedlbauer, Red Bank, New Jersey
 John Gilbert Schmerein, Neenah, Wisconsin
 Thomas Harry Schnitzius, Houston, Texas
 Alan James Scott, Rodman, Canal Zone
 Arthur Thomas Sessi, Weirton, West Virginia
 Thomas Robert Settanni, New York, New York
 Raymond Edward Shanabruch, North Canton, Ohio
 Kenneth Francis Shearon, Jefferson, South Dakota
 †Dennis Gard Sheehan, Le Mars, Iowa
 Robert Emerson Sheridan, Jr.,* Missoula, Montana
 †Lawrence David Shubnell, Muncie, Indiana

Tom Michael Shuff, Cincinnati, Ohio
 Thomas Sidenfaden, Arcadia, California
 John Edward Simon, St. Louis, Missouri
 Francis Joseph Smith, Manteno, Illinois
 Thomas Joseph Smith,* Milwaukee, Wisconsin
 Kevin Wesley Smyth, Warsaw, Indiana
 †Donald Nelson Soderberg, South Bend, Indiana
 August Joseph Spieler, III, Lima, Ohio
 Harold Dockter Spurl, Jr., New Orleans, Louisiana
 Thomas James Stahlschmidt, Morton Grove, Illinois
 John William Stern, Cleveland, Ohio
 Anthony Joseph Strati, Elkhart, Indiana
 Thomas Mortimer Sullivan, Chicago, Illinois
 Arthur Cyril Swirtz, Flint, Michigan
 Stanley Paul Szklarek, South Bend, Indiana
 Richard Lawrence Tabak, Carle Place, New York
 James Charles TenBroeck, Chicago, Illinois
 Edward Michael Terry, Baraboo, Wisconsin
 Kenneth Joseph Tesi, Charlotte, North Carolina
 Joseph Theodore Theby, III, Evansville, Indiana
 Nicholas John Thies, Minneapolis, Minnesota
 †John Andrew Thomas, Jr., Stanhope, New Jersey
 Terence Patrick Thomson, Crystal Lake, Illinois
 David Arthur Tingwald, Goshen, Indiana
 David Rohan Tobin, Cos Cob, Connecticut
 Thomas John Tomjack, Medford, Oregon
 Theodore James Topolski, Michigan City, Indiana
 Bernard Carroll Topper, Jr., York, Pennsylvania
 John Robert Trelease, Chicago, Illinois
 Bruce Steven Tuthill, New London, Connecticut
 Bruce David Tyler, Thompsonville, Connecticut
 †Sammy David Van Ness, Texas City, Texas
 Frank Diego Visceglia, Short Hills, New Jersey
 Donald Peter Vogel, Kenmore, New York
 James Dennis Walsh, Atlanta, Georgia
 Kevin John Walsh, Rye, New York
 Lawrence Kenton Walsh, Chappaqua, New York
 Thomas Edward Walter, Lakewood, Ohio
 James William Webster, Lynwood, California
 Michael Joseph Weidner, West Chicago, Illinois
 John Lawrence Wells, Northbrook, Illinois
 Jerome Johnson Whalen, Fairfield, Connecticut
 Michael Gilbert Whitecotton, New Ross, Indiana
 Robert Ronald Wieczorek, Warren, Ohio
 Donald Dwight Williams, Kankakee, Illinois
 Justin James Williams, Jr., West Orange, New Jersey
 John Terrence Wolkerstorfer, St. Paul, Minnesota
 Richard Patrick Wolohan, Saginaw, Michigan
 †Patrick Joseph Woods, Oak Park, Illinois
 Thomas William Wukovits, Trenton, Michigan
 Richard James Yashewski, Huntington, New York
 Michael Joseph Zanelli, West Hempstead, New York
 Louis George Zimmerman, Grosse Pointe Farms, Michigan
 Thomas Anthony Zosky, Peoria, Illinois

NATIONAL FELLOWSHIPS AND SCHOLARSHIPS
AWARDED FOR 1964-65

National Science Foundation Graduate Fellowships (Level I):

James H. Foster, (mathematics)
Frederick M. Liss, (mathematics)
David S. McCaffrey, Jr., (chemical engineering)
Vincent F. Schirf, (electrical engineering)
Roger A. Szal, (biology)

National Science Foundation Graduate Fellowships (Level II):

Richard A. Bajura, (mechanical engineering)
Francis M. Klein, (chemistry)

National Science Foundation Graduate Fellowships (Level III):

Theodore J. Barth, (mathematics)
Anthony C. Hughes, (mathematics)

National Science Foundation Cooperative Graduate Fellowships:

Michael J. Amoruso, (physics)
Robert P. Johnson, (mathematics)
Robert E. Kasten, (electrical engineering)
Charles R. Martin, (physics)
Dennis F. Polis, (physics)
Gerald B. Prewitt, (physics)
Franklin C. Smith Jr., (physics)

*National Science Foundation Summer Fellowships for
Graduate Teaching Assistants:*

Carl G. Adler, (physics)
Gary J. Hordemann, (mechanical engineering)
Charles M. Lovas, (mechanical engineering)

Danforth Fellowships:

James V. Maher Jr., (physics)
Frank D. McConnell, (English)
Michael W. Messmer, (history)

Woodrow Wilson Fellowships:

Charles J. Day, (philosophy)
Ralph C. Martin Jr., (philosophy)
Michael W. McClintock, (English)
Frank D. McConnell, (English)
Clark R. McGranery, (mathematics)
Michael W. Messmer, (history)
Craig M. Simpson, (history)
Edward P. Ward, (political science)

THE ACADEMIC COSTUME CODE

The history of academic dress reaches far back into the early days of the oldest universities. Academic dress finds its sources chiefly in ecclesiastical wear, although mediaeval scholars tended to adopt a collegiate costume. A statute of 1321 required that all "Doctors, Licentiates and Bachelors" of the University of Coimbra (Portugal) wear gowns. Beginning with the second half of the 14th century, civilian collegiate costume was specified in various regulations of the universities. European institutions continue to show great diversity in their specifications of academic wear.

In American colleges and universities, the academic costume is prescribed by the American Council of Education, and its present form was adopted in 1932. The first suggestion for a uniform code was made in May, 1895, following an educational conference at Columbia University. In 1902, the Intercollegiate Bureau of Academic Costumes was created. It codified the 1895 rules and its legal firm serves as a clearing house and "repository" for official university and college colors, costumes and insignia.

The present academic dress consists of gowns, hoods and cap with the pattern and trimmings listed below. Exceptions have been granted to specific universities upon request.

GOWNS: Black cotton with long pointed sleeves for the Bachelor's Degree, long closed sleeves (with a slit for the arms) for the Master's Degree, and bell-shaped open sleeves for the Doctor's Degree. The Bachelor's and Master's gowns do not have trimmings. The Doctor's gown is faced down the front with black velvet and there are three bars of velvet across the sleeves.

HOODS: Black in all cases. For the Master's it is three and one-half feet long and closed at the end. The Doctor's hood is four feet long with panels at the sides. All hoods are lined with the official color or colors of the college or university which conferred the highest degree. The edging of the hood is velvet and three inches and five inches in width for the Master's and Doctor's degree, respectively, while its color is distinctive of the subject field.

CAPS: Black cotton and stiffened into the so-called mortarboard style. Each cap has a long tassel fastened to the middle point of the top of the cap. The tassel color denotes the subject field. The Doctor's cap may have a tassel of gold thread.

Subject Field Colors Used on Hoods and Caps

Arts and Letters	White	Law	Purple
Commerce and Accountancy	Drab	Music	Pink
Economics	Copper	Philosophy	Dark Blue
Education	Light Blue	Physical Education	Sage Green
Engineering	Orange	Science	Golden Yellow
Fine Arts including Architecture	Brown	Theology	Scarlet
Humanities	Crimson		

Blue and Gold in Hoods Denotes a Notre Dame Degree