

One Hundred Sixteenth  
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 COMMERCE



On the University Mall  
At 2:00 p.m. (Central Daylight Time)  
June 4, 1961

## **P R O G R A M**

### **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 Harry C. Saxe  
Acting Dean of the College of Engineering

by James W. Culliton  
Dean of the College of Commerce

#### **THE CONFERRING OF DEGREES**

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

#### **PRESENTATION OF THE LAY FACULTY AWARD**

#### **COMMENCEMENT ADDRESS**

by Mr. R. Sargent Shriver, Jr.  
Director of the Peace Corps

#### **THE BLESSING**

by His Eminence Aloisius Cardinal Muench,  
Rome, Italy

# Degrees Conferred

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The University of Notre Dame announces the conferring of:

*The Degree of Doctor of Laws, honoris causa, on:*

His Eminence Laurian Cardinal Rugambwa, of Bukoba, Tanganyika, East Africa

His Eminence Aloisius Cardinal Muench, of Rome, Italy

Mr. R. Sargent Shriver, Jr., of Washington, D. C.

Mr. John W. Gardner, of New York, New York

Dean Erwin N. Griswold, of Cambridge, Massachusetts

Mr. Joseph A. Martino, of New York, New York

Dr. Arthur J. O'Connor, of Scarborough, New York

Dr. J. A. Stratton, of Cambridge, Massachusetts

*The Degree of Doctor of Fine Arts, honoris causa on:*

Mr. James J. Sweeney, of New York, New York

*The Degree of Doctor of Science, honoris causa on:*

Dr. Glenn T. Seaborg, of Washington, D. C.

Dr. James E. Webb, of Washington, D. C.

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## IN THE GRADUATE SCHOOL

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

*The Degree of Doctor of Philosophy on:*

Victor George Badding, Buffalo, New York

B.S., Canisius College, 1957. Major subject: Chemistry. Dissertation: The Reduction of Acetals and Ketals and Their Sulfur Analogs with Lithium Aluminum Hydride-Aluminum Chloride.

† Armand P. Boisselle, Haverhill, Massachusetts

B.S., State Teachers College, Bridgewater, Massachusetts, 1953; M.S., Boston College, 1957. Major subject: Chemistry. Dissertation: The Preparation and Some Reactions of *a-t*-Acetylenic Ethers.

Joseph Cheng-Yih Chen, Nanking, China

A.B., St. Anselm's College, 1957. Major subject: Chemistry. Dissertation: Excitation of Molecular Vibration by Slow Electron Impact.

Robert T. Deck, Philadelphia, Pennsylvania

B.A., LaSalle College, 1956. Major subject: Physics. Dissertation: Problems in Inelastic Electron Scattering.

Matthew Jerome Fairbanks, Scranton, Pennsylvania

B.S., Loyola University (Illinois), 1956; M.A., ibid., 1959. Major subject: Philosophy. Dissertation: C. S. Pierce and Nineteenth Century Positivism.

Sister Claude Marie Faust, Sisters of Charity of the Incarnate Word, San Antonio, Texas

A.B., Incarnate Word College, 1939; M.A., The Catholic University of America, 1954; M.S., Marquette University, 1955. Major subject: Mathematics. Dissertation: On the Boundary Behavior of Holomorphic Functions in the Unit Disk.

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† Degree Conferred February 1, 1961

- <sup>†</sup> Paul Louis Gerace, Batavia, New York  
B.S., University of Notre Dame, 1956. Major subject: Chemistry. Dissertation: A Study of Some Metal Complexes of Naphthazarin and  $\beta$ -Hydronaphthazarin Disulfonate.
- Sister M. Ursula Grimes, Sisters of St. Joseph, Baden, Pennsylvania  
B.E., Duquesne University, 1953; M.E., ibid., 1957. Major subject: Education. Dissertation: An Evaluative Study of the Guidance Services Provided for Eighth-Grade Pupils in the Diocese of Pittsburgh.
- John Bernard Gruenenfelder, Loveland, Ohio  
B.E.E., University of Minnesota, 1946; M.A., University of Notre Dame, 1950; M.S., ibid., 1955. Major subject: Philosophy. Dissertation: Plato's Theory of Scientific Knowledge in the Later Dialogues.
- Reverend Philip A. Hamilton, Dubuque, Iowa  
A.B., The Creighton University, 1940; S.T.L., The Catholic University of America, 1944. Major subject: Sociology. Dissertation: The Influence of Social Factors on Religious Role Perception and Behavior.
- <sup>†</sup> Zacharias Hamlet, Kerala, India  
B.S., Loyola College, University of Madras, 1950; M.S., Victoria College, Agra University, 1952. Major subject: Chemistry. Dissertation: Orientation in Free Radical Methylation of Aromatics.
- Frederick Charles Herx, Chicago, Illinois  
B.A., Loyola University (Illinois), 1949; M.A., ibid., 1951. Major subject: Philosophy. Dissertation: The Problem of Illumination in St. Bonaventure and St. Thomas Aquinas: During the Period 1250-1259.
- <sup>†</sup> Sister M. Laeticia Kilzer, Sisters of St. Benedict, Yankton, South Dakota  
A.B., College of St. Benedict (Minnesota), 1950; A.M., University of South Dakota, 1955. Major subject: Chemistry. Dissertation: Studies on the Stabilities of Organoboron Halides and Oxides: Thermal Decomposition of Boron Fluoride Ethyl Etherate and Re-identification of Alkoxyfluoroboranes; Simple and Mixed Organoboron Halides and Oxides.
- <sup>†</sup> John Leo Kropp, Salem, Oregon  
B.S., University of Santa Clara, 1956. Major subject: Chemistry. Dissertation: Effect of Some Quenchers on Organic Scintillator Solutions.
- Richard Francis Larson, Yakima, Washington  
B.A., Seattle University, 1957; M.A., University of Washington, 1958. Major subject: Sociology. Dissertation: An Analysis of Selected Health Knowledge, Values, and Practices as Related to Social Class.
- Hugh J. McQueen, Montreal, Canada  
B.S., Loyola College, (Montreal), 1954; B.E., (Metal.) McGill University, 1956; M.S., University of Notre Dame, 1958. Major subject: Metallurgical Engineering. Dissertation: The Sintering of Zinc Sulfide.
- Donald Richard Morgan, Lynn, Massachusetts  
B.A., Boston College, 1955; M.S., ibid., 1957. Major subject: Physics. Dissertation: The Kinetics of Oxygen and Strontium Oxide on Molybdenum by Field Electron Microscopy in the Temperature Range 1000° K. - 1900° K.
- <sup>†</sup> Ralph C. Nelson, Park Ridge, Illinois  
B.A., De Paul University, 1953; M.A., ibid., 1955. Major subject: Philosophy. Dissertation: Jacques Maritain's Conception of "Moral Philosophy Adequately Considered."
- <sup>†</sup> Francis R. Nugent, San Lorenzo, California  
B.A., Saint Mary's College of California, 1941; M.A., University of Notre Dame, 1958. Major subject: Philosophy. Dissertation: The Nature and Properties of Immanent Action.
- John Conway O'Brien, Hamilton, Scotland  
B.Com., University of London, 1952. Major subject: Economics. Dissertation: An Analysis of the Standards of Administration of Union Welfare and Pension Funds.

**Frank Petrella, Junior, Clairton, Pennsylvania**

B.A., University of Notre Dame, 1956; M.A., ibid., 1957. Major subject: Economics. Dissertation: Edmund Burke and Classical Economics.

**Eugene Pyziur, South Bend, Indiana**

Doctor Juris, Free University of Ukraine in Munich, 1949; M.A., Columbia University, 1954. Major subject: Political Science. Dissertation: Constitutional Thought in Pre-Revolutionary Russia.

**† Alexander Rozner, New York, New York**

Master of Tech. Science and Mechanical Engineer, Academy of Mining and Metallurgy, Cracow, 1951. Major subject: Metallurgical Engineering. Dissertation: Sintering of Ferric Oxide.

**Charles F. Schwerdtfeger, Berwyn, Pennsylvania**

B.S., Villanova University, 1956. Major subject: Physics. Dissertation: A Study of the Decay of Eu<sup>144</sup>, Pm<sup>144</sup> and Pm<sup>144m</sup> to Levels in Sm<sup>144</sup>.

**† Robert McKeon Slabey, Bryn Mawr, Pennsylvania**

B.S.S., Fairfield University, 1953; M.A., University of Notre Dame, 1955. Major subject: English. Dissertation: William Faulkner: "The Waste Land" Phase (1926-1936).

**Sister Mary Paulita Springer, Sisters of St. Joseph, La Grange Park, Illinois**

B.S., Rosary College, 1946; M.S., University of Notre Dame, 1957. Major subject: Chemistry. Dissertation: Infrared Spectra of Some Metal Complexes of Amino Acid Esters and of Some Substituted Ammonium Chlorocuprates.

**Vincent P. Tartella, Scranton, Pennsylvania**

B.A., University of Scranton, 1956; M.A., University of Notre Dame, 1958. Major subject: English. Dissertation: Charles Dickens's *Oliver Twist*: Moral Realism and the Uses of Style.

**Leslie Peter Theard, New Orleans, Louisiana**

B.S., Xavier University (Louisiana), 1956. Major subject: Chemistry. Dissertation: Radiolysis of Liquid Methanol and Some Methanolic Solutions.

**Ronald G. Vardiman, Louisville, Kentucky**

B.S., University of Notre Dame, 1954; M.S., ibid., 1956. Major subject: Metallurgical Engineering. Dissertation: A Study of the Order-Disorder Transformation in Au Cu<sup>3</sup>.

**Thomas George Wack, South Bend, Indiana**

B.A., University of Notre Dame, 1949; M.A., ibid., 1950. Major subject: English. Dissertation: The Imagery of Edward Taylor's *Preparatory Meditations*.

**Thomas Anthony Weber, Chicago, Illinois**

B.S., De Paul University, 1956. Major subject: Physics. Dissertation: Coulomb Scattering of Polarized Electrons.

***The Degree of Doctor of Science on:***

**Allan James Malvick, Oak Lawn, Illinois**

B.S., University of Notre Dame, 1957; M.S., ibid., 1959. Major subject: Engineering Science. Dissertation: On the Characteristics of a Ship Intended for Pursuit of an Evasive Target.

**Marion Walter Wilcox, Fort Worth, Texas**

B.S.C.E., University of Notre Dame, 1948; M.S.C.E., Illinois Institute of Technology, 1956. Major subject: Engineering Science. Dissertation: The Effect of Midplane Temperatures on the Response of Plate-Like and Composite Structures.

*The Degree of Master of Arts on:*

Sister Peter Marie Anselmo, Sisters of Mercy, Hartford, Connecticut  
B.S., Saint Joseph College (Connecticut), 1946. Major subject: English.

Alfred John Bannan, Guilderton, New York  
B.A., Manhattan College, 1958. Major subject: History. Dissertation: John Lingard as a Critic of Lord Macaulay.

Ronald Louis Boucher, Arlington, Massachusetts  
B.S. in Commerce, University of Notre Dame, 1960. Major subject: Theology.

Andre A. Bouckaert, Roeselare, Belgium  
Lic. in Commercial and Financial Sciences, University of Louvain, 1958;  
Dipl. of Adv. European Studies, College of Europe, Bruges, 1959. Major subject: Economics. Dissertation: The European Community.

James Patrick Bowers, St. Louis, Missouri  
A.B., Rockhurst College, 1957. Major subject: History. Dissertation: An Historiographical Essay on the *Entente Cordiale*: 1904.

Chester Francis Burgess, South Bend, Indiana  
B.A., Yale University, 1944. Major subject: English.

Reverend Anthony Brooks Campbell, Sydney, Nova Scotia, Canada  
B.A., Saint Francis Xavier University (Antigonish, Nova Scotia), 1948.  
Major subject: Economics.

Reverend Cyril R. Campbell, Oblate of Mary Immaculate, Ottawa,  
Ontario, Canada  
B.A., St. Francis Xavier University (Canada), 1945. Major subject: Theology.

Reverend Frederick Reese Clark, Congregation of the Holy Ghost,  
Pittsburgh, Pennsylvania  
B.A., St. Mary's Seminary (Connecticut), 1951. B.D., ibid., 1955. Major subject: Education.

Frank DiPietro Collura, Waltham, Massachusetts  
B.A., University of Arizona, 1960. Major subject: Theology.

Ronald W. Cunningham, San Diego, California  
A.B., San Diego State College, 1959. Major subject: Sociology (Correctional Administration).

Charles Benton Cushwa III, Youngstown, Ohio  
B.A., University of Notre Dame, 1957. Major subject: Economics.

Richard Austin Donovan, Rochester, New York  
B.A., University of Notre Dame, 1959. Major subject: English.

Stephen J. Dornbach, Minneapolis, Minnesota  
B.A., University of Notre Dame, 1959. Major subject: Sociology (Correctional Administration).

LaMar Alfred Dotter, Jim Thorpe, Pennsylvania  
B.A., LaSalle College, 1959. Major subject: Political Science.

David M. Fahey, Albany, New York  
B.A., St. Bernardine of Siena College, 1959. Major subject: History. Dissertation: Tawney and Trevor-Roper: Two Social Interpretations of the Gentry in the Genesis of the English Civil War.

Brother Joseph Gregory Fairleigh, Christian Brothers of Ireland,  
Chicago, Illinois  
B.A., Iona College, 1956. Major subject: Education.

David Fedison, Rochester, New York  
B.A., St. John Fisher College (New York), 1958. Major subject: Sociology (Correctional Administration).

William J. Fink, Huntington, Indiana  
S.T.B., Gregorian University (Rome, Italy), 1957; B.A., Mount St. Mary's Seminary of the West (Cincinnati, Ohio), 1958. Major subject: English.

Joseph Howard Hennessy, Philadelphia, Pennsylvania  
B.A., LaSalle College, 1959. Major subject: Political Science.

Fred John Hoey, Albany, New York  
B.A., University of Notre Dame, 1960. Major subject: History Dissertation: Protestant Attitudes Towards Industrial Reconstruction 1919-1920.

Frederick Walter Jamroz, Junior, Chicopee, Massachusetts  
B.S.P.E., University of Notre Dame, 1960. Major subject: Education.

Sister Mary Veronica Janes, Daughters of the Cross, Shreveport, Louisiana  
B.S., St. Mary's Dominican College (Louisiana), 1957. Major subject: Education.

Denis Ryan Kelly, Dayton, Ohio  
B.A., University of Dayton, 1959. Major subjects: Philosophy.

Harold Gregory Kilduff, Humboldt, Tennessee  
B.A., University of Notre Dame, 1958. Major subject: English.

Reverend Gerard Kitts, Order of St. Benedict, Cullman, Alabama  
B.A., St. Bernard College (Alabama), 1955. Major subject: History.

Gerald Anthony Lacattiva, Buffalo, New York  
A.B., King's College (Pennsylvania), 1958. Major subject: Sociology (Correctional Administration).

Mrs. Rhee Lyon, South Bend, Indiana  
A.B., Cornell University, 1954. Major subject: Education.

William J. Mayo, Cohoes, New York  
B.A., University of Notre Dame, 1953. Major subject: Sociology (Correctional Administration).

Milton L. McAngus, Honolulu, Hawaii  
B.A., University of Notre Dame, 1959. Major subject: Sociology (Correctional Administration).

† Charles Winfield McCollester, Ogdensburg, New York  
A.B., Fordham University, 1946. Major subject: History.

Richard Thomas McLain, Portland, Oregon  
B.A., University of Portland, 1959. Major subject: Sociology (Correctional Administration).

† Reverend John J. McManmon, C.S.C., Congregation of Holy Cross, Chicago, Illinois  
B.A., University of Notre Dame, 1955. Major subject: English. Dissertation: The Grotesque in the Early Poetry of T. S. Eliot; A Study of Backgrounds.

Michael McTighe, South Bend, Indiana  
B.A., University of Notre Dame, 1959. Major subject: Sociology (Correctional Administration).

Michael Vincent Metallo, Paterson, New Jersey  
B.S., Seton Hall University, 1959. Major subject: History. Dissertation: The Periodical Press and the Socialist Party in the Presidential Election of 1932.

- Leonard T. Morse, Seattle, Washington  
B.S., United States Naval Academy, 1929. Major subject: Sociology.
- James Francis Mulvihill, West Orange, New Jersey  
B.A., New Jersey State Teachers College at Montclair, 1960. Major subject: History.
- Louis Nemeth, South Bend, Indiana  
B.A., University of Notre Dame, 1936. Major subject: Education.
- Reverend Joseph Francis O'Donnell, Congregation of Holy Cross,  
Notre Dame, Indiana  
B.A., University of Notre Dame, 1956. Major subject: Theology.
- Noel Borgia O'Sullivan, Elizabeth, New Jersey  
B.S.P.E., University of Notre Dame, 1960. Major subject: Education.
- Milton Jay Peterson, Portland, Oregon  
B.A., University of Portland, 1959. Major subject: Sociology (Correctional Administration).
- † Brother Joseph Anthony Pietrosante, Brothers of the Congregation  
of Holy Cross, Notre Dame, Indiana  
A.B., St. Edward's University, 1957. Major subject: Education.
- William Joseph Quinn, New York City, New York  
B.A., University of Notre Dame, 1959. Major subject: Sociology (Correctional Administration).
- † Marcelo Ramos y Cariño, Bontoc, Mountain, Philippines  
B.A., University of Santo Tomas (Philippines), 1953; LL.B., ibid., 1956.  
Major subject: Political Science.
- Robert John Razner, Stevens Point, Wisconsin  
B.S., University of Wisconsin, 1958. Major subject: Sociology (Correctional Administration).
- John Merritt Sanders, Winona, Minnesota  
B.A., Saint Mary's College (Minnesota), 1958. Major subject: Sociology (Correctional Administration).
- John Louis Saunders, West Memphis, Arkansas  
A.B., University of Arkansas, 1959. Major subject: History.
- Miss Carolyn Barbara Schmidt, Duluth, Minnesota  
B.S., Northwestern University, 1947, M.A., University of Minnesota, 1954.  
Major subject: Theology.
- Miss Mary Jane Schoen, South Bend, Indiana  
B.S., Saint Mary's College (Indiana), 1957. Major subject: Education.
- John William Sullivan, Junior, Brockton, Massachusetts  
B.A., Stonehill College, 1959. Major subject: English.
- † Reverend Thomas C. Tallarida, Congregation of Holy Cross, Niles,  
Illinois  
B.A., University of Notre Dame, 1947. Major subject: History.
- Urban Albert Thobe, Dayton, Ohio  
B.A., St. Joseph's College (Indiana), 1958. Major subject: Philosophy.  
Dissertation: A Comparison of the Commentaries of Cajetan and Saint  
Albert the Great on the Isagoge of Porphyry with Regard to the Predicable  
Accident and a Comparison of Their Doctrines With Regard to the In-  
separable Accident.
- Joseph Desmond Toomey, Duluth, Minnesota  
B.A., University of Minnesota, 1956. Major subject: English.

**Rodger F. Toth, Portland, Ohio**  
B.A., University of Portland, 1959. Major subject: Sociology (Correctional Administration).

**James Donald Tracy, University City, Missouri**  
A.B., Saint Louis University, 1959; M.A., Johns Hopkins University, 1960.  
Major subject: Theology.

**Robert Sylvester Turley, La Grande, Oregon**  
B.A., Mount Angel Seminary (Oregon), 1959. Major subject: Philosophy.  
Dissertation: Connatural Knowledge of God in the Thought of Jacques Maritain.

**Reverend Justin John Wheeler, Third Order Regular of St. Francis, Loretto, Pennsylvania**  
B.A., Saint Francis College (Pennsylvania), 1944; S.T.L., The Catholic University of America, 1947. Major subject: Philosophy.

**† Dale Edwin White, Grand Junction, Colorado**  
B.A., University of Notre Dame, 1957. M.A., University of Denver, 1958.  
Major subject: Sociology.

**Reverend Raymond Mark Yoder, Goshen, Indiana**  
B.A., Th.B., Goshen College, 1938; Major subject: Philosophy.

*The Degree of Master of Fine Arts on:*

**Robert David DiGiovanni, Malden, Massachusetts**  
B.F.A., Massachusetts School of Art, 1955.

**Antonio Pecson Doctor, San Juan, Rizal, Philippines**  
B.F.A., University of Santo Tomas, (Manila), 1952; University of Fine Arts, Bangkok, 1954-1957.

**Mie-Shu Ou, Taipie, Taiwan, China**  
B. of Law (Econ.), National University of Taiwan, 1958.

*The Degree of Master of Mediaeval Studies on:*

**Reverend John Chrysostom Murphy, Order of Friars Minor, Loudonville, New York**  
B.A., St. Bonaventure University, 1951. Dissertation: The Franciscan Studium at the University of Paris. History, Topography, and Chartulary.

*The Degree of Master of Music on:*

**Sister Rose Marie Maricelli, Daughter of the Cross, Shreveport, Louisiana**  
B.S., Webster College (Missouri), 1939.

*The Degree of Master of Music Education on:*

**James Stephen Phillips, Farrell, Pennsylvania**  
B.M., University of Notre Dame, 1956.

*The Degree of Master of Science on:*

**Robert F. Baxter, Junior, Norwood, Pennsylvania**  
B.S., Villanova University, 1959. Major subject: Mathematics.

**† Charles Henry Calisher, Bayside, New York**  
B.S., Philadelphia College of Pharmacy and Science, 1958. Major subject: Biology. Dissertation: The Growth Curve of Polyoma Virus Determined in the Germfree Mouse by an Indirect Method.

**Joseph E. Cicero, Notre Dame, Indiana**  
A.B., Drew University, 1959. Major subject: Mathematics.

- Robert Michael Fleming, Collingswood, New Jersey  
B.A., La Salle College, 1959. Major subject: Mathematics.
- Stanley Joseph Friesenhahn, San Antonio, Texas  
B.S., St. Mary's University of San Antonio, 1957. Major subject: Physics.
- † Michael George Hanna, Junior, Cleveland, Ohio  
B.S., Baldwin-Wallace College, 1958. Major subject: Biology. Dissertation:  
The Effects of X-Irradiation on the Hematopoietic System as Interpreted by  
Imprint Studies.
- Nicholas David Hull, Alexandria, Kentucky  
A.B., Villa Madonna College, 1959. Major subject: Physics.
- Sister Mary Ann Jude Jungbauer, Sisters of the Immaculate Heart of  
Mary, Hollywood, California  
A.B., Immaculate Heart College (California), 1957. Major subject: Chemistry.
- Charles Nickolas Koenig, Saginaw, Michigan  
B.A., Central Michigan College of Education, 1959. Major subject: Biology.
- Gerald D. Ludden, Fort Madison, Iowa  
B.A., St. Ambrose College, 1959. Major subject: Mathematics.
- Sister Mary Christelle Macaluso, Religious Sisters of Mercy, Omaha,  
Nebraska  
B.S., College of Saint Mary (Nebraska), 1956. Major subject: Biology.
- Michael Thomas MacNeil, Detroit, Michigan  
B.S., University of Detroit, 1952. Major subject: Mathematics.
- David Bernard Meronk, Milwaukee, Wisconsin  
B.S., Marquette University, 1959. Major subject: Mathematics.
- Sister Mary Neal Moran, Sisters of Charity of the Blessed Virgin  
Mary, Dubuque, Iowa  
B.A., Mundelein College, 1957. Major subject: Mathematics.
- John A. Oppelt, Baltimore, Maryland  
A.B., Loyola College (Maryland), 1959. Major subject: Mathematics.
- Béla Emery Piacsek, South Bend, Indiana  
B.S., University of Notre Dame, 1959. Major subject: Biology. Dissertation:  
A Comparative Response of Germfree and Conventional Mice to Antibiotic  
Treatment in Radiation Syndrome.
- Edward M. Randall, Reno, Nevada  
B.S., University of Nevada, 1959. Major subject: Biology.
- Alden Henry Reine, New Orleans, Louisiana  
B.S., Xavier University (Louisiana), 1959. Major subject: Chemistry.
- Sister Grace Frances Rossi, Maryknoll Sisters of St. Dominic, Mary-  
knoll, New York  
B.S., The University of Oklahoma, 1950. Major subject: Chemistry.
- Dipak Kumar Saraswati, Calcutta, India  
B.S., St. Xavier College, University of Calcutta, 1955; M.S., University of  
Calcutta, 1957. Major subject: Physics.
- Thomas Charles Smith, Springfield, Pennsylvania  
B.A., La Salle College, 1958. Major subject: Physics.
- † Sister Elizabeth Anne Sueltenfuss, Congregation of the Sisters of  
Divine Providence, San Antonio, Texas  
B.A., Our Lady of the Lake College, 1944. Major subject: Biology.

**Raymond W. Tennant, Joliet, Illinois**

B.S., Saint Joseph's College (Indiana), 1959. Major subject: Biology. Dissertation: Studies on the Growth and Interaction of *Diplococcus pneumoniae* and Influenza Virus in Germfree Mice.

**Thaddeus Joseph Trenn, Elmhurst, Illinois**

B.A., Saint Mary's College (Minnesota), 1959. Major subject: Physics. Dissertation: Construction and Calibration of a Single-Gap "Wedge" Beta-Spectrometer.

**John D. Waller, Kansas City, Missouri**

B.S., Rockhurst College, 1959. Major subject: Mathematics.

**John Donald Weber, Marrero, Louisiana**

B.S., Xavier University (Louisiana), 1957. Major subject: Chemistry.

*The Degree of Master of Science in Aeronautical Engineering on:*

**S. N. Thirumalaisamy, Madras, India**

B.S., St. Joseph's College, University of Madras, 1956; Dipl. (Aero.E.), Madras Institute of Technology, 1959. Dissertation: Effect of Tunnel Wall and Aspect Ratio on Strouhal Number.

*The Degree of Master of Science in Chemical Engineering on:*

† **Menillio Bello, Waipahu, Hawaii**

B.S.Ch.E., University of Notre Dame, 1957. Dissertation: The Determination of Thermal Diffusivity of Solid State Materials by a Simplified Periodic Heating Method.

† **Charles W. Hummer, Junior, Balboa, Canal Zone**

B.S.Ch.E., University of Notre Dame, 1959. Dissertation: The Determination of Inhibitor Control in Aqueous Solutions with Galvanic Couples.

**Hugh Patrick Toner, New York, New York**

B.S.Ch.E., University of Notre Dame, 1959. Dissertation: An Investigation of the Mechanism of Sintering of Polymethyl-Methacrylate.

*The Degree of Master of Science in Civil Engineering on:*

† **Waddah Akili, Lattakia, Syria**

B.S. in C.E., Robert College, Istanbul, 1959. Dissertation: Pressure Distribution Along the Embedded Length of a Post in Cohesionless Soil.

**Lino da Cunha Gomes, Goa, Portuguese, India**

B.E. (Civil), University of Poona, 1951. Dissertation: Stabilization of Beach Sand by Vibration.

† **Khalid Raphael Hindo, Baghdad, Iraq**

B.S. in C.E., Robert College, Istanbul, 1959. Dissertation: A Study of Hveem's Stabilometer Tests on Asphaltic Concrete.

**David Christian Kraft, Marion, Ohio**

B.S.C.E., University of Dayton, 1959. Dissertation: Theoretical And Model Analysis of Stresses in Folded Plate Structures With a Three Plate Joint.

**George Jay Thelen, Covington, Kentucky**

A.B., Villa Madonna College, 1958; B.S.C.E., University of Notre Dame, 1960. Dissertation: A Study of the Pressure Distribution, Deflection and Soil Modulus for Laterally Loaded Flexible Poles Embedded in Cohesionless Soil.

**Barry Voight, Scarsdale, New York**

B.S. in Geology, University of Notre Dame, 1959; B.S.C.E., ibid., 1960. Dissertation: Subsurface Materials of St. Joseph County, Indiana.

*The Degree of Master of Science in Electrical Engineering on:*

† **Gaston J.-Andre Aubé, Québec, Canada**

B.S., University of Laval, 1958. Dissertation: Adaptive Control Systems.

- Michael Cowley, Manhasset, New York  
M.S.E.E., University of Notre Dame, 1959.
- William John Kelly, Junior, Drexel Hill, Pennsylvania  
B.S., Villanova University, 1959.
- Arthur F. Martz, Junior, Benton Harbor, Michigan  
B.S.E.E., University of Detroit, 1948.
- Leo F. Mayer, South Bend, Indiana  
B.S.E.E., Saint Louis University, 1956.
- George James McMurtry, Rockville, Indiana  
B.S., United States Naval Academy, 1955.
- Louis Albert Morine, Lakemore, Ohio  
B.S.E.E., University of Notre Dame, 1959.
- Frederic John Mowle, West Orange, New Jersey  
B.S.E.E., University of Notre Dame, 1959. Dissertation: Signal Strength Selection Multiplex System.
- † Howard Francis Prosser, Chicago, Illinois  
B.S.E.E., University of Notre Dame, 1959.
- Lawrence John Schipper, Levittown, New Jersey  
B.S.E.E., Marquette University, 1953.
- André G. Vacroux, Paris, France  
Ingénieur Radio, Ecole Supérieure d'Electricité, 1959. Dissertation: A Method of Converting Continuous Voltages to Digital Signals.
- Robert Emmett Walsh, Oswego, Oregon  
B.A., University of Oregon, 1951; B.S.E.E., University of Notre Dame, 1960.
- Sammy Nelson Watkins, South Bend, Indiana  
B.S.E.E., Christian Brothers College, 1959.
- Allan Lorens Wennerberg, St. Joseph, Michigan  
B.S.E.E., Indiana Technical College, 1956.
- William Ke-Chin Yuan, Taipei, Taiwan  
B.S. (Engr.), Battersea College of Technology, University of London, 1959

*The Degree of Master of Science in Engineering Science on:*

- Robert Golder Alderson, South Bend, Indiana  
B.E.S., The Johns Hopkins University, 1956.
- Renato Vince Cervelli, South Bend, Indiana  
B.S., United States Military Academy, 1945; B.S.M.E., Illinois Institute of Technology, 1953.
- Joseph Leonard Pczkowski, South Bend, Indiana  
B.S.M.E., Purdue University, 1951.
- Gordon D. Pfeifer, South Bend, Indiana  
B.S.M.E., Washington University, 1956.
- Henry Rainone, Brooklyn, New York  
B.S.E.E., Manhattan College, 1959. Dissertation: Production of a Constant Pressure Plane in a Cylinder, Electrohydrodynamically.
- John Edward Scheu, Junior, Hannibal, Missouri  
B.S.Ch.E., University of Notre Dame, 1959. Dissertation: A Method for Calculating the Probability of Detecting a Target.

Herman E. Tarnow, South Bend, Indiana  
B.S.A.E., Purdue University, 1959.

Robert Lundstrom Wixted, Mishawaka, Indiana  
B.S.M.E., University of Notre Dame, 1959. Dissertation: A Study of Hydrodynamic Forces By Means of an Electrical Analog.

*The Degree of Master of Science in Mechanical Engineering on:*

† Frederick Leo Coonan, Junior, Monterey, California  
B.S.M.E., University of Notre Dame, 1959. Dissertation: A Study of the Effects of Condensation on the Performance of Finned Tube Heat Exchangers.

† Marco Egoavil Suárez, Callao, Peru  
Mech. Engineer, Universidad Nacional de Ingenieria Lima, 1955.

† Leo James Finnegan, Butte, Montana  
B.S.M.E., Gonzaga University, 1959.

† John Michael Grace, Lockport, New York  
B.S.M.E., University of Notre Dame, 1959. Dissertation: An Approximate Solution to the Problem of Turbulent Heat Transfer in Ducts, With Special Applications to Liquid Metal Systems.

† Ernest Robert Menold, Springfield, Pennsylvania  
B.S.M.E., University of Notre Dame, 1959. Dissertation: Asymptotic Solutions for Unsteady Laminar Free Convection From Vertical Plates and Cylinders.

Robert J. Young, Andover, Massachusetts  
B.S.M.E., University of Notre Dame, 1959.

*The Degree of Master of Science in Metallurgical Engineering on:*

Bettadapur S. Ananthamurthy, Bangalore, India  
B.S., University of Mysore, 1956; Dipl. (Metal.) Indian Institute of Science, 1959. Dissertation: Kinetics of Order-Disorder Transformation in  $\text{AuCu}_3$ .

Vittal Srinivas Bhandary, Mangalore, India  
B.S., St. Aloysius College, University of Madras, 1957. Dissertation: The Effect of Magnetic Annealing on the Recrystallization Texture of Iron.

James Arthur Donovan, Coytesville, New Jersey  
B.S.Metal.E., University of Notre Dame, 1959. Dissertation: Phase Relations of the Bismuth-Lead Telluride-Lead and Lead Telluride-Bismuth Telluride Systems.

† John Robert Feller, Greenville, Michigan  
B.S.Metal.E., University of Notre Dame, 1959. Dissertation: X-Ray Irradiation and Bleaching of KCl Crystals.

Robert Patrick O'Shea, Chicago, Illinois  
B.S.Metal.E., University of Notre Dame, 1959. Dissertation: Phase Diagrams of the Bismuth-Lead Telluride-Tellurium System.

† Donald Edward Scherpereel, South Bend, Indiana  
B.S.Metal.E., University of Notre Dame, 1959. Dissertation: Dislocations in Potassium Chloride.

D. A. Venkata, Bangalore, India  
B.S., University of Mysore, 1955; Dipl. (Metal.), Indian Institute of Science, 1958. Dissertation: X-Ray Irradiation and Bleaching of KCl Crystals.

## THE LAW SCHOOL

### *The Degree of Bachelor of Laws on:*

Caram Joseph Abood, Johnstown, Pennsylvania  
Richard Paul Bartsch, Aurora, Illinois  
Richard Stephen Beske, Belleville, Illinois  
Richard Martin Bies, Wentworth, South Dakota  
Charles Anthony Bonniwell, III, North Hollywood, California  
Anthony Thomas Bruno, Little Silver, New Jersey  
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James Shane Casey, Kalamazoo, Michigan  
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John Joseph Coffey, Wilmette, Illinois  
Paul Bernard Coffey, Lorain, Ohio  
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William John Gerardo, Sturgis, Michigan  
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Thomas A. McNish, Detroit, Michigan  
Roderick Alphonsis Mette, Barrington, Illinois  
John Norbert Moreland, Des Moines, Iowa  
Daniel Kevin O'Brien, Flushing, New York  
Eugene Michael O'Brien, Augusta, Kansas  
Edward Michael O'Toole, Ryegate, Montana  
John Donald Plattner, Wilmette, Illinois  
Rocco Louis Puntureri, Grove City, Pennsylvania  
Charles Augustus Robison, Avon Lake, Ohio  
Michael Anthony Rose, Pittsford, New York  
Arthur LeRoy Roule, Jr., La Porte, Indiana  
Paul Julius Schierl, Menasha, Wisconsin  
Thomas Lindsay Shaffer,\* Fruita, Colorado  
Robert Joseph Shockey, Oklahoma City, Oklahoma  
Joseph Stephen Slade, South Bend, Indiana  
Mason Dennis Sullivan, Chicago, Illinois

\* Cum Laude

\*\* Magna Cum Laude

\*\*\* Maxima Cum Laude

† Degree Conferred February 1, 1960

James Charles Talaga, Chicago, Illinois  
Daniel Robert Webber, Saginaw, Michigan  
Robert Ellsworth White, Grand Ridge, Illinois

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## THE COLLEGE OF ARTS AND LETTERS

*The Degree of Bachelor of Arts on:*

James Edward Adams, Beaverton, Oregon  
James Julius Bang,\* Duluth, Minnesota  
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William Carrel Bauman, Jr., Midland, Michigan  
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Thomas Humphrey Beacom, Winnetka, Illinois  
Francis S. Bennett, C.S.C., Dallas, Texas  
Robert Edmund Bennett, C.S.C., Midland, Michigan  
Robert Patrick Bennett, Pittsfield, Mass.  
Michael Christopher Bergen, Miami Beach, Florida  
Roger Laurent Bernardi, White Plains, New York  
Leonard John Bialas, C.S.C.,\* Pontiac, Michigan  
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Michael Dominic Bird, South Bend, Indiana  
Joseph Barry Blake, Erie, Pennsylvania  
Allan Joseph Boerschinger, Chicago, Illinois  
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Louis Alan Bosch, Cincinnati, Ohio  
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Louis Carey Chapleau, South Bend, Indiana  
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Francis Richard Ciccone, Ambridge, Pennsylvania  
Carmen Jude Civella, Kansas City, Missouri

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James Joseph Clarke, Detroit, Michigan  
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James Gregory Collins, La Porte, Indiana  
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† Robert James Condon, Davenport, Iowa  
Michael Joseph Connor, Detroit, Michigan  
Calvin Francis Cook, Wood-Ridge, New Jersey  
David Walsh Coombs, Ft. Lauderdale, Florida  
Michael Louis Corcoran, Sibley, Iowa  
Thomas Joseph Corcoran, Ottawa, Illinois  
† Edward John Cornelia, Staten Island, New York  
Joseph Nicholas Corona, South Bend, Indiana  
† Edward Hardy Coyle, Taunton, Massachusetts  
William Francis Cronin, Larchmont, New York  
William Henry Crosby, Linden, New Jersey  
Peter Crotty, Buffalo, New York  
Martin Lee Crystal, Wood River, Illinois  
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Thomas Dalrymple, Dolton, Illinois  
John Joseph Davey, Alma, Michigan  
Delancey William Davis, Harrisburg, Pennsylvania  
Arthur Cyprian Dechene, Jr., Arlington, Virginia  
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John Walter Deline, Denver, Colorado  
Leonard Cecil DeLozier, Jr.,\* Peoria, Illinois  
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James David Dettling, Akron, Ohio  
Augustine Van Horn Diamond, Honolulu, Hawaii  
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Charles David Eder, Hammond, Indiana  
John Howard Engler,\*\*\* Tenafly, New Jersey  
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Edward Philip Farley, Madison, Wisconsin  
Frank F. Fasel, Jr., St. Louis, Missouri  
August Frederick Fath, Kalamazoo, Michigan  
Thomas Fortune Fay, Wilmington, Delaware  
James Clarence Felix, Cincinnati, Ohio

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James Joseph Ferguson, C.S.C., Notre Dame, Indiana  
Nicholas John Ferlazzo, Quantico, Virginia  
† John Emmanuel Finlay, South Bend, Indiana  
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James John Fiore, DeWitt, New York  
James Guinn Fitzgerald, Chicago, Illinois  
J. Michael FitzGibbon, Bryn Mawr, Pennsylvania  
James Joseph Fitzpatrick, Detroit, Michigan  
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John Franklin Flanigan, Fort Lauderdale, Florida  
Paul John Fleming, Youngstown, Ohio  
Noret Edwin Flood, Jr., Weslaco, Texas  
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Gerald Ryan Foley, Anderson, South Carolina  
Henry Leo Frommeyer, Indianapolis, Indiana  
Thomas Joseph Gallagher, St. Petersburg, Florida  
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Patrick Joseph Galvin, Hammond, Indiana  
William Aloysius Galvin, Manhasset, New York  
Thomas Francis Gardocki, Wyandotte, Michigan  
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David Joseph Gergen, Milwaukee, Wisconsin  
† Peter Louis Giaimo, Flushing, New York  
Thomas Martin Gibbons, Lakewood, Ohio  
George Patrick Gillespie, Floral Park, New York  
Thomas Eugene Giometti, C.S.C., East Chicago, Indiana  
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Patrick Edward Graham, Bloomsburg, Pennsylvania  
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Edward Michael Greene, Lake Forest, Illinois  
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Daniel Yates Hagan, Mexico, Missouri  
Patrick Sterling Hagood, Casper, Wyoming  
Daniel Edward Halloran, Tempe, Arizona  
John Spencer Hamlon, Jr., Fergus Falls, Minnesota  
William Stanford Hanley, Chicago, Illinois  
Patrick Joseph Hart, Jr., Wellesley, Massachusetts  
Foster Lewis Haunz, Louisville, Kentucky  
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Gregory Lawrence Hellrunz, Alton, Illinois  
† Allen Hess, Park Forest, Illinois  
James Martin Hickey, Grand Rapids, Michigan  
James Patrick Hickey, Jr., Forest Hills, New York  
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Marvin John Hirn, Batesville, Indiana  
Thomas Patrick Hoban, Seattle, Washington  
Charles Carl Hoffman, Northhampton, Pennsylvania  
Paul Gordon Holman, Jr., Marion, Indiana

Gregory M. Holtz, Elkhart, Indiana  
David Carl Hudson,\*\* Fresno, California  
Timothy James Hughes, Kanawha, Iowa  
Robert Denis Hutchison, Manchester, Connecticut  
Barry Thomas Hynes, Dorchester, Massachusetts  
James William Irwin, C.S.C., South Bend, Indiana  
John Thomas Irwin, Glen Ellyn, Illinois  
Bruce Arthur Johnson, Park Ridge, Illinois  
David Riordan Johnson, Hartford, Connecticut  
Dennis George Johnston, Spokane, Washington  
William Joseph Jungels,\* Chicago, Illinois  
George Joseph Kane, Amsterdam, New York  
† Brother Donald Gerald Kaufold, C.S.C.,\* Brooklyn, New York  
John Kieran Kealy,\*\* Piedmont, California  
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Jerome Francis Keating, C.S.C., Chicago, Illinois  
John Philip Keegan, Kearny, New Jersey  
Robert Emmett Keeley, Chicago, Illinois  
F. Patrick Kelly, Joliet, Illinois  
James Michael Kelly, Miami Shores, Florida  
Raphael Michael Kelly, Garden City, New York  
Michael Kelly Kennedy, New Hampton, Iowa  
James Patrick Kenny, Ambler, Pennsylvania  
Joseph James Keyerleber, Shaker Heights, Ohio  
Ronald Albert Kienlen, Aurora, Illinois  
Mark Roland Kilduff, Humboldt, Tennessee  
Michael Edward Killian, Akron, Ohio  
Brother Francis Joseph Killoy, C.S.C., New Haven, Connecticut  
David Hopkins Kilroy, Charlotte, North Carolina  
James Joseph Kilroy, Charlotte, North Carolina  
Charles Michael Koch, Chicago, Illinois  
Thomas Powell Kohl, Fort Wayne, Indiana  
Lawrence Francis Kolasa, Detroit, Michigan  
Robert Frank Kopas, Cleveland, Ohio  
Edward Allan Kresser, Aurora, Illinois  
Jerome Thomas Kriegshauser,\*\* Glendale, Missouri  
Robert Lawrence Kroha, Detroit, Michigan  
John Aloysius Kromkowski, South Bend, Indiana  
† James Louis Kubiak, South Bend, Indiana  
Thomas Ernest Larkin, Jr., Buck Hill Falls, Pennsylvania  
Andrew James Lawlor, Brooklyn, New York  
Richard Joseph Leclerc, C.S.C., Chapleau, Ontario, Canada  
David Patrick Lee, South Portland, Maine  
Charles Francis Lennon, Joliet, Illinois  
Terrence Eugene Leonard, Skokie, Illinois  
Arnold Leporati, Jr., Queens Village, New York  
Stephen Anthony Leroux, Tulsa, Oklahoma  
George Lesnik, Brooklyn, New York  
Joseph Reed Libby, Palm Beach, Florida  
Terrence Joseph Lilly, Kalamazoo, Michigan  
Anthony J. Liquori, Jr., West Springfield, Massachusetts  
David Berdon Lloyd, Lake Charles, Louisiana  
Armando Maximiliano Loizaga, Mexico City, Mexico  
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Daniel Loeb Lyons, Brooklyn, New York  
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James Donald Madden, Chicago, Illinois  
Robert Gabriel Mahony, Oak Park, Illinois  
Charles Dennis Maloney, Columbus, Ohio  
† Thomas Lambert Mammoser, Park Ridge, Illinois  
Charles Edward Manix, Chicago, Illinois  
Louis Anthony Marre, Fort Smith, Arkansas  
Terrence Keech Martin, Newport News, Virginia  
William Malone Martin, Larchmont, New York  
Gerald Edward Matheis, Rochester, New York  
Edward George McAnaney, Yonkers, New York  
Edward Joseph McCafferty, Jr., Philadelphia, Pennsylvania  
David Michael McCann, South Orange, New Jersey  
David John McDonald, Jr., Pittsburgh, Pennsylvania  
Michael Austin McDonald, C.S.C., Port Dalhousie, Ontario, Canada  
Edward Bailey McDonough, Jr., Galveston, Texas  
Daniel Leo McGinnis, Honesdale, Pennsylvania  
Peter John McGovern, Jackson Heights, New York  
Edward John McGrath, Westbury, New York  
Francis Gerard McGrath,\* Scarsdale, New York  
Frank Lampert McGuane, Jr., Katonah, New York  
James Warburton McKeever, Brooklyn, New York  
John Philip McLaughlin, Ogden, Utah  
Michael Beirne McMahon, Pittsburgh, Pennsylvania  
John Francis McNamara, Whiting, Indiana  
James Patrick McVeigh, Honesdale, Pennsylvania  
Paul Joseph Meert, Los Angeles, California  
Henry Lee Merry, Minneapolis, Minnesota  
Frederick Roy Merz, St. Louis, Missouri  
John Richard Miller, Jr., Detroit, Michigan  
Daniel Patrick Mitchell, III, Woodbury, New Jersey  
Dan Joseph Mitola, Jr., Portland, Oregon  
Christopher Francis Monahan, Packanack Lake, New Jersey  
Jay D. Mondry, Grand Forks, North Dakota  
Thomas Anthony Monsour, Syracuse, New York  
Dennis James Montali, Oakland, California  
Julian Paul Moore, Alexandria, Virginia  
Charles Michael Morris, De Pere, Wisconsin  
Earl Arthur Mossner, Grosse Pointe Shores, Michigan  
Kurt Scott Kaleo Moylan, Agana, Guam  
Thomas Finan Mudd, La Plata, Maryland  
James Chadwick Mulligan,\* Reading, Pennsylvania  
John Garrett Mulrooney, Mankato, Minnesota  
Eugene Joseph Mulvaney, Jr., Orange, New Jersey  
Thomas Orville Murch, Alpena, Michigan  
James Edward Murphy, Trenton, New Jersey  
James Francis Murphy, Havre de Grace, Maryland  
John Louis Murphy, Columbus, Ohio  
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Philip Rink Murtaugh, Chicago, Illinois  
Thomas James Musial, Chicago, Illinois  
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Michael Bernard Nash, Chicago, Illinois  
John Paul Nebel, Mount Clemens, Michigan  
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Paul James Mahar, Jr., Youngstown, Ohio  
Robert Patrick Mallory, Tolono, Illinois  
Thomas Richard Martin, Fostoria, Ohio  
Clement Joseph McDonald,\* River Forest, Illinois  
Raymond Eugene McLane, Elkhart, Indiana  
Michael Leen Morrissey, Cincinnati, Ohio  
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William Otto Pregenzer, Lakewood, Ohio  
Thomas Anthony Reardon, Chicago, Illinois  
Victor Gerald Rosamilia, Bloomfield, New Jersey  
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Ronald John Schelling, Aurora, Illinois  
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Emmett Jerome Sharkey, North Baldwin, New York  
John Leo Showel, River Forest, Illinois  
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Colin Thomas Sutherland,\*\* Detroit, Michigan  
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Theodore Claude Witt, Long Beach, California

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Christopher Deffner Watters,\* Ironton, Ohio

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Ronald Richard Herm,\*\*\* Louisville, Kentucky  
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Frank Hanley O'Donnell, South Bend, Indiana  
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James Michael Connolly, New Hyde Park, New York  
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Thomas Lee Elberson, Defiance, Ohio  
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Walter Joseph O'Toole, Jr., Kansas City, Missouri  
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Lawrence Albert Richards, Duquesne, Pennsylvania  
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† Laszlo J. Korbuly, South Bend, Indiana  
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George Kenneth Oxley, Jr., Detroit, Michigan  
† Richard Walter Quinn, New Britain, Connecticut  
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† Frank Gerald Cser, St. Louis, Missouri

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† Robert Patrick Fuscaldo, Tuckahoe, New York  
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John Edward Hutchings, Muncie, Indiana  
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James Anthony Kaval, Cleveland, Ohio  
Joseph William Keating, Rockford, Illinois  
Philip Donald Klimek, St. Michael, Minnesota  
William Albert Knipper, Pensacola, Florida  
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Robert Kopp Leonard, Jeffersonville, Indiana  
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† Manuel Heredia, Ibague, Colombia, South America  
† Emil Christopher Herkert, West New York, New Jersey  
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† Enrique Silva, Bogota, Colombia, South America  
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John Aloysius Braun, Reading, Pennsylvania  
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Patrick Joseph Callahan, Hillsdale, Michigan  
Bruce Ryan Campbell, Pompano Beach, Florida  
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John Camille Cavalier, Rochester, New York  
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Domiano Giuliano Monterosso, Detroit, Michigan  
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Michael Joseph Oberle, Marshalltown, Iowa  
† Francis John O'Brien, Jr., South Bend, Indiana  
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Barry Christopher Schline, East Syracuse, New York  
Richard F. Schmitz, Milwaukee, Wisconsin  
† James Allen Schrader, Lafayette, Indiana  
Charles Frank Schuler,\* Muskegon, Michigan  
Robert William Schultze, Chicago, Illinois  
John Carl Schuster, Gary, Indiana  
Philip Francis Schuster, Western Springs, Illinois  
Patrick Joseph Seery, Indianapolis, Indiana  
Thomas Ignatius Sheerin, Chicago, Illinois  
John Jerry Shelton, New Albany, Indiana  
David Franklin Shepherd, South Bend, Indiana  
John Arthur Sifermann, Des Plaines, Illinois  
John Skupien, Jr., Chicago, Illinois  
Harold C. Slane, New York, New York  
William King Slife, Cleveland, Ohio  
Edward Joseph Smith, Jr., Syracuse, New York  
Leonard Edward Smith, Wheaton, Illinois  
Thomas Joseph Smith, Racine, Wisconsin  
Patrick Hugh Smyth, Washington, D. C.  
William Patrick Snooks, St. Joseph, Missouri  
John Bartlett Snyder, Frankfort, New York  
William Clarence Steber, River Forest, Illinois

Michael John Stepanek, Jr., La Porte, Indiana  
Edward John Straub, South Bend, Indiana  
James Kenneth Stucko, Chicago, Illinois  
Brian Edward Sullivan, Overland Park, Kansas  
Kenneth Joseph Sullivan, Salt Lake City, Utah  
Thomas Raymond Sullivan, Maspeth, New York  
Ronald Joseph Szweda,\* Cleveland, Ohio  
Thomas Andrew Tafelski, Toledo, Ohio  
James Vincent Thiele, Darien, Wisconsin  
William Francis Thon, Rio Piedras, Puerto Rico  
James Edward Travers, Carbondale, Illinois  
James Malachy Tynan, Seaford, New York  
James Dean Uhll, Jr., East Peoria, Illinois  
Ramon John Vales,\* Rye, New York  
William Henry Veeneman III, Louisville, Kentucky  
James Edward Verdick, Morrison, Illinois  
Joseph Rosolino Viola, Shreveport, Louisiana  
† Leo Joseph Wachter, Jr., Altoona, Pennsylvania  
Michael Howard Wade, Juneau, Alaska  
James Allen Waldorf, Chicago, Illinois  
Maxey James Wallace III, Richmond, Virginia  
William B. Weist, Fowler, Indiana  
William Joseph Welch, Jr., Garden City, New York  
Graham Anthony Werner, New London, Wisconsin  
William Louis Werner, Jr., Little Rock, Arkansas  
† Kevin Joseph Whalen, Whitman, Massachusetts  
James Michael White, Chicago, Illinois  
A. Michael Wich, Detroit, Michigan  
Robert Walter Williamson, Jr.,\* South Bend, Indiana  
David Charles Wochner, Bloomington, Illinois  
Patrick Clarke Woodward, Wichita, Kansas  
Michael Charles Young,\* Danville, Illinois  
Robert William Young, Detroit, Michigan  
Richard Paul Zang, Kewanee, Illinois  
Thomas Anthony Zipprich, Chicago, Illinois  
Ronald Henry Zlotnik, Rochester, New York  
George Bruno Zywert, South Bend, Indiana

## NATIONAL FELLOWSHIPS AND SCHOLARSHIPS AWARDED FOR 1961-62

### *United States Government Fellowships for Study Abroad: (Fulbright Fellowships)*

John E. Clark, for study in Spain (Modern Language)  
William J. O'Connell, for study in Germany (Physics)

### *National Science Foundation Predoctoral Fellowships:*

Michael E. Austin (Engineering)  
Robert B. Burkel (Mathematics)  
Ronald R. Herm (Chemistry)  
William T. Lynch (Engineering)  
James A. MacMahon (Biology)  
George L. Niemeyer, Jr. (Engineering)  
William J. O'Connell (Physics)  
Sister Mary Brendan Pierson, S.N.D. (Microbiology)  
Charles J. Ramsden (Engineering)  
John E. Wilson (Biochemistry)  
James F. Wirth (Mathematics)

### *National Science Foundation Cooperative Graduate Fellowships:*

Michael J. Brienza (Physics)  
Arthur M. Cowley (Engineering)  
Gerard P. Lietz (Physics)  
Theodore E. Madey (Physics)  
John Misner (Mathematics)  
James F. Slifker (Mathematics)  
Donald R. Weidman (Mathematics)

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

Jean M. Beaudoin (Engineering)  
William E. Dorenbusch (Physics)  
Donald L. Malaker (Physics)

### *National Institutes of Health Postdoctoral Fellowship:*

William R. Klemm (Biology)

### *American Association of University Women Scholarship:* Sister Theresa Clare Hogan, C.S.F. (English)

### *Woodrow Wilson Fellowships:*

|                    |                        |
|--------------------|------------------------|
| Kenneth M. Brown   | David C. Hudson        |
| Robert B. Burkel   | John K. Kealy, Jr.     |
| John J. Burns, Jr. | Jerome T. Kriegshauser |
| John C. Cahalan    | William D. Pflaum      |
| John E. Clark      | Joseph A. Pichler      |
| Arthur Dechene     | Guy D. Powers          |
| John H. Engler     | Mark E. Thompson       |

### *Danforth Fellowship:*

John H. Engler



## 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*