

One Hundred Seventeenth  
**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. (Central Daylight Time)**  
**Sunday, June 3, 1962**

## PROGRAM

### PROCESSIONAL

PRESENTATION OF THE LAETARE MEDAL  
to Dr. Francis Braceland

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 James W. Culliton  
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

COMMENCEMENT ADDRESS  
by the Honorable Henry Cabot Lodge  
Former U.S. Ambassador to the United Nations

THE BLESSING  
by His Excellency Paul J. Hallinan, D.D.,  
Archbishop of Atlanta

# Degrees Conferred

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The University of Notre Dame announces the conferring of:

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

Most Reverend Paul J. Hallinan, D.D., Archbishop of Atlanta  
Honorable Henry Cabot Lodge, Beverly, Massachusetts  
Dr. Frederick Seitz, Urbana, Illinois  
Mr. Teodoro Moscoso, Washington, D. C.  
Judge James Skelly Wright, Washington, D. C.

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

Mrs. Frank J. Lewis, Chicago, Illinois

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

Dr. Peter Debye, Ithaca, New York

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

Mr. Frank M. Freimann, Fort Wayne, Indiana

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

Prof. John T. Frederick, Notre Dame, Indiana

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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:*

† Joseph D. Benigni, Joliet, Illinois

B.S., Saint Mary's College (Minnesota) 1957. Major subject: Chemistry. Dissertation: Some Reactions of 4-(Arylcyanomethylene) benzequinone Oximes.

Chester Francis Burgess, South Bend, Indiana

B.A., Yale University, 1944; M.A., University of Notre Dame, 1961. Major subject: English. Dissertation: John Gay's "Happy Vein": The Ambivalent Point of View.

Peter Earle Butler, Mount Vernon, New York

B.S., Iona College, 1958. Major subject: Chemistry. Dissertation: The Preparation of Reactions of Alpha Amino Ketones and Carbinols. A New Synthesis of Aziridines.

† Thomas Monterville Coffee, Forest Park, Georgia

A.B., St. Benedict's College (Kansas); 1952; M.A., Emory University, 1955. Major subject: Sociology. Dissertation: An Empirical Study of Residential Proximity and Marital Selection: South Bend, Indiana, 1954-1958 Inclusive.

† Sister Mary Brigid Fitzpatrick, Sisters of St. Joseph of Carondelet, Los Angeles, California

A.B., Mount St. Mary's College (California), 1947; M.S.W., The Catholic University of America, 1949. Major subject: Sociology. Dissertation: The Sister Social Worker: an Integration of Two Professional Roles.

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† Degree Conferred February 1, 1962

- Harold A. Foecke, Granger, Indiana  
 B.S.E.E., Iowa State College, 1945; M.S.E.E., *ibid.*, 1948. Major subject: Education. Dissertation: Views of Graduating Seniors of the Engineering Honor Society Tau Beta Pi Toward Engineering Teaching as a Career.
- Brother Gerard Gardner, Brothers of the Christian Schools, Winona, Minnesota  
 B.S., Saint Mary's College (Minnesota) 1945; M.S., St. Louis University, 1952. Major subject: Physics. Dissertation: A Projection-Tube Study of the Dependence of Thermionic Emission upon Surface Structure and Crystallographic Direction for Single Crystals of Tungsten and Molybdenum.
- Sister Mary McAuley Gillgannon, Religious Sisters of Mercy, Omaha, Nebraska  
 B.S., College of Saint Mary (Nebraska), 1951; M.A., Marquette University, 1958. Major subject: History. Dissertation: The Influence of the Sisters of Mercy on British Army Medical Reform through Their Role in Crimean War Nursing.
- Robert E. Glennen, Junior, Billings, Montana  
 A.B., University of Portland, 1955; M.E., *ibid.*, 1957. Major subject: Education. Dissertation: Differential Perceptions of the Functions of University Guidance Services.
- Charles Francis Godino, Brooklyn, New York  
 B.A., St. Peter's College, 1955; M.S., University of Notre Dame, 1958. Major subject: Mathematics. Dissertation: The Existence of Outer Automorphisms of Certain p-Groups.
- † Sister Mary Adele Francis Gorman, Third Order of St. Francis, Glen Riddle, Pennsylvania  
 A.B., College of Notre Dame of Maryland, 1941; M.A., Villanova University, 1955. Major subject: History. Dissertation: Federation of Catholic Societies in the United States, 1870-1920.
- † Joseph Martin Graham, Windsor, Ontario, Canada  
 B.A., University of Western Ontario, 1947; M.A., *ibid.*, 1952. Major subject: Philosophy. Dissertation: Secondary Causal Influx According to Saint Thomas Aquinas.
- Reverend Xavier James Harris, Franciscan Fathers (Order of Friars Minor), Oakland, California  
 A.B., San Luis Rey Seminary, 1945; M.A., *ibid.*, 1949; M.A., University of San Francisco, 1954. Major subject: Education. Dissertation: The Development of the Theory of Religious Instruction in American Catholic Secondary Schools after 1920.
- James Beyer Heneghan, South Bend, Indiana  
 B.S., University of Notre Dame, 1957. Major subject: Biology. Dissertation: Effects of the Microbial Flora on Intestinal Transport.
- † Klaus Hoehsmann, Vancouver, Canada  
 B.A., University of British Columbia, 1957; M.A., McGill University, 1958. Major subject: Mathematics. Dissertation: Simple Algebras and Derivations.
- Clyde Harris Hoffman, South Bend, Indiana  
 B.S.E.E., University of North Dakota, 1950; M.S.E.E., University of Notre Dame, 1952. Major subject: Engineering Science. Dissertation: Effects of Human Operator Dynamics on Submarine Control Characteristics.
- Sister M. Theresa Clare Hogan, Order of St. Francis, Glen Riddle, Pennsylvania  
 B.S., Villanova University, 1947; M.A., The Catholic University of America, 1955. Major subject: English. Dissertation: A Critical Study of the Middle English Lyrics of British Museum MS. Harley 2253.
- † Charles Andrew Kelsey, Santa Fe, New Mexico  
 B.S., St. Edward's University, 1957. Major subject: Physics. Dissertation: Polarization of the Neutrons from the  $\text{Be}^9(p,n)\text{B}^9$  Reaction.

- Don Akeru Kubose, Chicago, Illinois  
B.S., University of Illinois, 1958. Major subject: Chemistry. Dissertation: Velocity Dependence of Ion-molecule Reaction Cross Sections by Mass Spectrometry.
- Marvin John LaHood, Auburn, New York  
B.S., Boston College, 1954; M.A., University of Notre Dame, 1958. Major subject: English. Dissertation: A Study of the Major Themes in the Work of Conrad Richter, and His Place in the Tradition of the American Frontier Novel.
- Sister Mary Gerald Leahy, Sisters of St. Joseph of Carondelet, Los Angeles, California  
A.B., The University of Southern California, 1945; M.S., The Catholic University of America, 1947. Major subject: Biology. Dissertation: Barriers to Hybridization between *Aedes aegypti* and *Aedes albopictus* (Diptera: Culicidae).
- Sister Mary Baylon Lenz, Sisters of St. Francis of the Holy Family, Dubuque, Iowa  
B.A., Briar Cliff College, 1957; M.A., University of Notre Dame, 1959. Major subject: English. Dissertation: A Rhetorical Analysis of Cardinal Newman's *Apologia pro Vita Sua*.
- Joel R. Livingston, Junior, Westfield, New Jersey  
B.S., University of Notre Dame, 1957; M.S., University of Michigan, 1959. Major subject: Chemistry. Dissertation: Some Reactions of Seven Member Sulfur Heterocycles.
- Reverend Thomas Francis Loughrey, Ardmore, Pennsylvania  
B.A., St. Charles' Seminary (Pennsylvania); 1942; M.A., University of Notre Dame, 1954. Major subject: English. Dissertation: Values and Love in the Fiction of William Faulkner.
- Joseph Alexander Martellaro, South Bend, Indiana  
B.A., University of Notre Dame, 1956; M.A., *ibid.*, 1958. Major subject: Economics. Dissertation: The Effects of the Post War Economic Development Program in Southern Italy, 1950-1960.
- Robert Francis O'Connell, Athlone, Ireland  
B.Sc., University College, Galway, Ireland, 1953. Major subject: Physics. Dissertation: Coulomb Field Effects on Muon Decay and on K Shell Internal Conversion Coefficients at Threshold.
- Sister Mary Christopher O'Rourke, Religious Sisters of Mercy, Newport, Rhode Island  
B.A., Brown University, 1940; M.A., University of Notre Dame, 1955. Major subject: Sociology. Dissertation: The Impact of the Educational Environment Upon the Development of a Professional Self-Image.
- Clyde Victor Pax, Worcester, Massachusetts  
B.A., University of Notre Dame, 1951; A.M., St. Louis University, 1956. Major subject: Philosophy. Dissertation: The Approach to God in the Thought of Gabriel Marcel.
- Louis Anthony Pilato, Rochester, New York  
B.S., St. John Fisher College, 1956. Major subject: Chemistry. Dissertation: The Reduction of Hemithioketals and Hemithioacetals with Lithium Aluminum Hydride-Aluminum Chloride.
- Leonard Price, New Orleans, Louisiana  
B.S., Xavier University (Louisiana), 1957. Major subject: Chemistry. Dissertation: The Oxidative Coupling and Cross-Coupling of Acetylenic Amines and Acetylenic Carbinols.
- † K.V.S. Rama Rao, Rajahmundry, India  
B.Sc., Andhra University, 1953; M.Sc., *ibid.*, 1954. Major subject: Chemistry. Dissertation: A Study of the Effect of Additives on the Radiolysis of Liquid Neopentane.

Reverend Michael Terrance Ryan, London, Ontario, Canada  
B.A., University of Western Ontario, 1946; M.A., University of Notre Dame, 1960. Major subject: Philosophy. Dissertation: The Notion and Uses of Dialectic in St. Thomas Aquinas.

Sudarshan Kumar Sehgal, Hoshiarpur, India  
B.A., Panjab University, 1954; M.A., *ibid.*, 1956. Major subject: Mathematics. Dissertation: On Structure and Representations of Ringoids.

Brother G. Nicholas Sullivan, Brothers of the Christian Schools, Germantown, Pennsylvania  
B.A., The Catholic University of America, 1950; M.S., University of Pittsburgh, 1954. Major subject: Biology. Dissertation: Observations on the Population Dynamics of a Cavernicolous Ecosystem.

† John P. Susko, Erie, Pennsylvania  
B.S., University of Pittsburgh, 1932; M.A., *ibid.*, 1933. Major subject: Economics. Dissertation: An Analysis of the Impact on Prices of the Escalator Clause In Collective Bargaining Agreements.

† Sylvester P. Theisen, St. Joseph, Minnesota  
B.A., St. John's University (Minnesota), 1947; M.S.E., University of Notre Dame, 1949; M.A., *ibid.*, 1951. Major subject: Sociology. Dissertation: A Social Survey of Aged Catholics in the Deanery of Fort Wayne, Indiana.

† Charles Joseph Tull, Runnemede, New Jersey  
B.S., The Creighton University, 1955; M.A., University of Notre Dame, 1957. Major subject: History. Dissertation: Father Coughlin, The New Deal, and the Election of 1936.

William Anthony Wehmeyer, Ticonderoga, New York  
A.B., Hamilton College, 1952; M.A., The Catholic University of America, 1954. Major subject: English. Dissertation: The European Novels of James Fenimore Cooper: A Critical Study.

Juan Yguerabide, Laredo, Texas  
B.S., St. Mary's University of San Antonio, 1957. Major subject: Chemistry. Dissertation: Luminescence Decay Times: Concentration Effects and Energy Transfer.

*The Degree of Master of Arts on:*

A. A. Aguirre, Mishawaka, Indiana  
B.S., Ferris Institute, 1942. Major subject: Education.

James Dana Alexander, Glen Cove, New York  
B.A., Brooklyn College, 1960. Major subject: English.

Reverend Nicholas R. Ayo, Congregation of Holy Cross, Notre Dame, Indiana  
B.A., University of Notre Dame, 1956; S.T.L., Gregorian University (Rome), 1960. Major subject: English. Dissertation: A Study of Brownson's *Boston Quarterly Review*.

† Paul A. Barela, Albuquerque, New Mexico  
B.B.A., University of Notre Dame, 1960. Major subject: Economics.

† Daniel Patrick Bergen, Albert Lea, Minnesota  
B.A., University of Notre Dame, 1957. Major subject: Political Science.

Dennis Bonnette, Plymouth, Michigan  
A.B., University of Detroit, 1960. Major subject: Philosophy.

John Kenneth Bourgon, Livonia, Michigan  
B.A., University of Notre Dame, 1960. Major subject: Education.

Lawrence James Bradley, Albany, New York  
B.A., St. Bernardine of Siena College, 1957; LL.B., University of Notre Dame, 1960. Major subject: History. Dissertation: Lord Charlemont: Irish Political Leader (1778-1783).

- Reverend Jerome Bernard Brooks, Congregation of the Passion,  
Chicago, Illinois  
Ordained, Louisville, Kentucky, 1960. Major subject: English.
- Frederick George Buechner, South Bend, Indiana  
A.B., Indiana University, 1960. Major subject: Education.
- David Robert Carlin, Junior, Pawtucket, Rhode Island  
A.B., Providence College, 1960. Major subject: Philosophy.
- † James Braerton Carroll, Grand Rapids, Michigan  
B.A., University of Notre Dame, 1959. Major subject: English.
- Mother Mary Peter Carthy, Ursulines of the Roman Union, New  
Rochelle, New York  
A.B., College of New Rochelle, 1933; M.A., The Catholic University of  
America, 1948; Ph.D., *ibid.* 1959. Major subject: Theology.
- † William John Casey, Burlington, Vermont  
A.B., St. Michael's College (Vermont), 1959; Major subject: English. Disserta-  
tion: Social and Political Criticisms in the Writings of James Fenimore Cooper.
- Reverend Thomas Edward Chambers, Congregation of Holy Cross,  
Notre Dame, Indiana  
A.B., University of Notre Dame, 1957. Major subject: Education.
- Reverend J. Bernard Clark, Congregation of Holy Cross, Notre Dame,  
Indiana  
B.A., University of Notre Dame, 1955; S.T.B., Université Catholique de  
l'Ouest, 1957; S.T.L., The Angelicum, 1959. Major subject: History. Disserta-  
tion: Walter Hussey Burgh and the Crisis in Anglo-Irish Politics: 1778-  
1782.
- Miklos Csaky, Vienna, Austria  
Hochschule für Welthandel, 1958-1961. Major subject: Economics.
- Walter Frederick Daly, Junior, White Plains, New York  
B.A., University of Notre Dame, 1960. Major subject: Sociology (Correc-  
tional Administration).
- James Wilson Douglass, Seattle, Washington  
B.A., University of Santa Clara, 1960. Major subject: Theology.
- James Max Fendrich, Seattle, Washington  
B.A., Seattle University, 1960. Major subject: Sociology.
- Robert Wayne Gambill, Independence, Kansas  
B.S., Utah State University, 1950. Major subject: Sociology (Correctional  
Administration).
- † Thomas Eugene Garrah, Trucksville, Pennsylvania  
A.B., King's College (Pennsylvania), 1960. Major subject: English.
- Martin Michael Gildea, Mt. Carmel, Pennsylvania  
B.A., St. Vincent College, 1960. Major subject: Political Science.
- Mother Marie De Montfort Haglich, Religious of the Sacred Heart  
of Mary, Tarrytown, New York  
B.A., Marymount College (New York), 1953. Major subject: Art.
- Sister Mary Pierre Hebert, School Sisters of Notre Dame, Mequon,  
Wisconsin  
B.A., Mount Mary College, 1943. Major subject: Education.
- Mrs. Corrine Patricia Henry, South Bend, Indiana  
B.M.E., Northwestern University, 1950. Major subject: Education.
- Sister Mary Magdalen Herman, Sisters of Loretto at the Foot of the  
Cross, Louisville, Kentucky  
A.B., Webster College, 1947. Major subject: Modern Languages (French).

- Mrs. Clarice Olson Isenbarger, South Bend, Indiana  
B.S., Ball State Teachers College, 1939. Major subject: Education.
- Mrs. Evelyn Rarick Isenbarger, South Bend, Indiana  
B.A., Manchester College, 1941. Major subject: English.
- Sister St. Paul Janisse, Ursuline Religious of the Chatham Union,  
London, Ontario, Canada  
B.A., The University of Western Ontario, 1957. Major subject: History.
- William Johnson, Toledo, Ohio  
A.B., Talladega College, 1948. Major subject: Sociology (Correctional Administration).
- Robert E. Jones, St. Louis, Missouri  
B.S., St. Louis University, 1960. Major subject: Political Science.
- Sister M. Raphael Joseph, Order of St. Benedict, Panamá, Republic  
of Panamá  
B.S., St. Benedict Normal, 1956. Major subject: English.
- Michael J. Keenan, Los Angeles, California  
B.A., University of Notre Dame, 1960. Major subject: Sociology (Correctional Administration).
- Sister Mary Cleophas Kelly, Sisters of St. Joseph of Wichita, Wichita,  
Kansas  
B.S., St. Mary College (Kansas), 1952. Major subject: History. Dissertation: A History of Soule College of Dodge City, Kansas, 1887-1910, As An Example of Frontier Higher Education.
- Moacyr Laterza, Belo Horizonte, Brazil  
B.Ph., Univ. Católica de Minas Gerais (Brazil), 1952; Lic.Ph., Univ. de Minas Gerais, 1954. Major subject: Philosophy.
- Reverend James Leah, Kokomo, Indiana  
Ordained, Niagara, New York, 1952. Major subject: Education.
- Reverend Daniel Robert Leeuw, South Bend, Indiana  
B.A., University of Dayton, 1953. Major subject: Education.
- Charles Francis Lennon, Joliet, Illinois  
B.A., University of Notre Dame, 1961. Major subject: Education.
- Mrs. Alice K. Lesniewski, South Bend, Indiana  
B.A., St. Mary's College (Indiana), 1948. Major subject: Education.
- Albert W. H. Lum, Honolulu, Hawaii  
B.A., University of Notre Dame, 1957. Major subject: English.
- John Rogers Madden, La Grange, Illinois  
B.A., University of Notre Dame, 1959. Major subject: Economics.
- Reverend William J. McHugh, Aurora, Illinois  
B.A., St. Paul Seminary, 1955. Major subject: Education.
- Roger Clair McLain, Aloha, Oregon  
B.A., University of Portland, 1959. Major subject: Sociology (Correctional Administration).
- Richard J. Meister, Gary, Indiana  
B.A., St. Joseph's College (Indiana), 1960. Major subject: History. Dissertation: The Composition of Congress in the Constitutional Convention and the Ratification Controversy: 1787-1788.
- Reverend Richard von Phul Mouton, Lafayette, Louisiana  
S.T.L., The Catholic University of America, 1955; S.T.D., Gregorian University, 1957. Major subject: Education.



- † Reverend Roland Mullen, Order of Friars Minor Conventual,  
Auburn, Indiana  
Ordained, St. Paul, Minnesota, 1956. Major subject: Philosophy.
- James P. Murphy, Calumet, Oklahoma  
A.B., St. Benedict's College (Kansas), 1954. Major subject: History. Dis-  
sertation: The Appointment of the Judiciary as Argued in the Constitutional  
Convention and Selected State Conventions (1787-1788).
- Miss Grace Therese Newrock, South Bend, Indiana  
B.S., Saint Mary's College (Indiana), 1951. Major subject: Education.
- Mrs. Lela Goshorn Niles, Elkhart, Indiana  
B.S., Indiana State Teachers College, 1952. Major subject: Education.
- John D. Nixon, Junior, Akron, Ohio  
B.A., University of Akron, 1955. Major subject: Sociology (Correctional  
Administration).
- John Brendan O'Connor, Dorchester, Massachusetts  
B.A., Portia Law School and Calvin Coolidge College of Liberal Arts,  
1959. Major subject: Sociology (Correctional Administration).
- Reverend Adrian James Parcher, Order of St. Benedict, Olympia,  
Washington  
B.A., St. Martin's College, 1955; B.Ed., Seattle University, 1957. Major  
subject: English.
- Mrs. Norma Helene Phenegar, Mishawaka, Indiana  
B.S.H.E., Purdue University, 1954. Major subject: Education.
- Rudolph Bennie Pruden, Flushing, New York  
B.A., University of Notre Dame, 1957. Major subject: Sociology (Correctional  
Administration).
- John Laurence Rafuse, Milton, Massachusetts  
B.A., Stonehill College, 1959. Major subject: History. Dissertation: Egypt in  
the British Parliament 1899-1914.
- Anthony Sarlo, Waterbury, Connecticut  
B.S.S., Fairfield University, 1960. Major subject: Philosophy.
- Thomas Warren Scharle, Dubuque, Iowa  
B.S., University of Notre Dame, 1960. Major subject: Philosophy. Dis-  
sertation: A Diagram of the Functors of the Two-Valued Propositional Cal-  
culus.
- Sister Mary Josetta Schoenle, Poor Sisters of St. Francis Seraph of  
the Perpetual Adoration, Mishawaka, Indiana  
B.S., Indiana State Teachers College, 1941. Major subject: Education.
- Robert R. Smith, Milton, Massachusetts  
B.A., Suffolk University, 1960. Major subject: Sociology (Correctional Ad-  
ministration).
- † Reverend Franklin R. Tasker, Order of Carmelites, Houston, Texas  
B.A., St. Bonaventure University, 1955. Major subject: Sociology.
- Richard Joseph Tirman, Elkhart, Indiana  
B.S., University of Notre Dame, 1960. Major subject: Education.
- Sister Colette Toler, Sisters of Charity, Greensburg, Pennsylvania  
B.M., Seton Hill College, 1957. Major subject: English.
- Richard Collins Toole, Bloomfield, New Jersey  
B.A., University of Notre Dame, 1958. Major subject: Economics.
- William Wylie Tomes, Junior, Evanston, Illinois  
B.A., University of Notre Dame, 1959. Major subject: Education.
- Harold Joseph Trapp, Junior, Sycamore, Illinois  
B.S., University of Notre Dame, 1958. Major subject: Education.

Thaddeus Joseph Trenn, Elmhurst, Illinois  
B.A., St. Mary's College (Minnesota), 1959; M.S., University of Notre Dame,  
1961. Major subject: Philosophy.

William John Ziegler, Junior, Kansas City, Missouri  
A.B., Rockhurst College, 1960. Major subject: Philosophy.

*The Degree of Master of Fine Arts on:*

Robert James McCormick, Middletown, New York  
B.F.A., Cornell University, 1958.

Richard Charles Scherpereel, South Bend, Indiana  
B.F.A., University of Notre Dame, 1955; M.Ed., McMurry College, 1959.

Anthony John Sorce, Chicago, Illinois  
B.F.A., University of Notre Dame, 1961.

Kenneth Walter Walpuck, Tarrytown, New York  
B.F.A., University of Notre Dame, 1960.

*The Degree of Master of Music on:*

Sister M. Benedicta Berendes, Sisters, Servants of the Immaculate  
Heart of Mary, Scranton, Pennsylvania  
B.M., Marywood College, 1955. Dissertation: A Transcription and Analysis  
of the Masses of Cadeac.

*The Degree of Master of Music Education on:*

Sister Mary Bernardine Fabiszak, Felician Sister, Livonia, Michigan  
A.B., Madonna College, 1956.

*The Degree of Master of Science on:*

Ernest Solomon Alvarez, Las Cruces, New Mexico  
B.S., New Mexico State University of Agriculture, Engineering, and Science,  
1959. Major subject: Physics.

† Leo John Bottari, Boston, Massachusetts  
B.S., Stonehill College, 1959. Major subject: Biology.

Rex Patrick Brumbach, Junior, Walla Walla, Washington  
B.S., University of Portland, 1958. Major subject: Physics.

Joseph A. Budek, Petoskey, Michigan  
B.S., University of Notre Dame, 1960. Major subject: Biology.

† Edmund Joseph Conway, Riverdale, Maryland  
B.S., University of Notre Dame, 1957. Major subject: Physics.

Mrs. Mary Lou Duff Derwent, South Bend, Indiana  
B.A., Ladycliff College, 1958. Major subject: Mathematics.

Terrence Enroth Dooher, Denver, Colorado  
B.S., Regis College, 1960. Major subject: Mathematics.

Frank Joseph Douglas, Long Island City, New York  
B.S., Iona College, 1960. Major subject: Mathematics.

John Francis Flood, Philadelphia, Pennsylvania  
B.A., LaSalle College, 1959. Major subject: Chemistry.

Robert J. Goulet, Boston, Massachusetts  
B.S., Boston College, 1959. Major subject: Physics.

Allen M. Hermann, New Orleans, Louisiana  
B.S., Loyola University (Louisiana), 1960. Major subject: Physics.

Richard T. Hurley, LaCrosse, Wisconsin  
B.A., St. Mary's College (Minnesota), 1959. Major subject: Biology.

† Sister M. Consolata Kuhn, Sisters of St. Francis, Oldenburg,  
Indiana  
B.A., Marion College (Indiana), 1944. Major subject: Biology.

† Gerald Charles Martin, Junior, Paw Paw, Michigan  
B.S., Western Michigan College, 1959. Major subject: Chemistry.

- James Martin Matthews, Hawthorne, New Jersey  
B.A., St. Peter's College, 1959. Major subject: Mathematics.
- Douglas Kenneth McCulloh, Baltimore, Maryland  
B.S., Loyola College (Maryland), 1960. Major subject: Physics.
- John Francis McCue, Portsmouth, New Hampshire  
B.S., St. John's University, 1960. Major subject: Biology.
- Herbert Robert Moeller, East Norwalk, Connecticut  
B.S., University of Notre Dame, 1960. Major subject: Physics.
- † Sister Helen Josephine Pfister, Sisters of Providence, St. Mary-of-the-Woods, Indiana  
A.B., St. Mary-of-the-Woods College, 1953. Major subject: Biology.
- David Anthony Richards, Depew, New York  
B.S., Canisius College, 1960. Major subject: Physics.
- † Lawrence Chung Lee Su, Hong Kong  
A.B., Hope College, 1959. Major subject: Physics.
- † George Albert Uritis, Shenandoah, Pennsylvania  
B.S., University of Notre Dame, 1960. Major subject: Biology.
- Sister Catherine Mary Wodetzki, Congregation of the Sisters of the Holy Cross, Notre Dame, Indiana  
B.S., St. Mary's College (Indiana), 1959. Major subject: Chemistry.
- Edward Richard Zamecki, Baltimore, Maryland  
B.S., Loyola College (Maryland), 1959. Major subject: Physics.

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

- John Philip Hopkins, Endicott, New York  
B.S.A.E., University of Notre Dame, 1960. Dissertation: An Investigation of Wind Tunnel Turbulence.
- Robert Voorhees Johnson, Junior, Atlanta, Georgia  
B.S.A.E., University of Notre Dame, 1960. Dissertation: The Effect of Sound on the Laminar Boundary Layer.
- Dennis Joseph McGovern, Washington, D.C.  
B.S.A.E., University of Notre Dame, 1960. Dissertation: Shear Stress Solutions of Axially Loaded Multistringer Panels with Shear Deformation of the Flanges.
- Brian Quinn, Setauket, Long Island, New York  
B.S.A.E., University of Notre Dame, 1959. Dissertation: Aeroacoustic Phenomena.

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

- Nelson Romero Contente, Mexico City, Mexico  
Ingeniero Químico, Universidad Nacional Autónoma de México, 1959. Dissertation: The Determination of the Gas Phase Molecular Diffusion of n-Hexane and 3-Methylpentane Through Methane.
- Jess William Thomas, St. Joseph, Michigan  
B.S., Carnegie Institute of Technology, 1939. Dissertation: Mass Transfer and Pressure Drop in Thin Carbon Beds.

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

- Warren Joseph Baker, Westminister, Massachusetts  
B.S.C.E., University of Notre Dame, 1960. Dissertation: Effects of Soil Properties on Explosion Crater Characteristics.

Constancio X. C. F. Miranda, Taleigao-Goa-India

B.E. (Civil), University of Bombay, 1949. Dissertation: Preflexing with High Strength Steels and Heat Treated Construction Alloy Steels.

Abel Acacio Valente, New Bedford, Massachusetts

B.S., University of Vermont, 1928.

(Rodney) Man Kit Wong, Hong Kong

B.S. (Civil E.), Hong Kong Baptist College, 1960. Dissertation: Digital Computer Solution For Consolidation of Soil Under Structure Loads.

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

Joseph J. Bartlett, Junior, Cincinnati, Ohio

B.S.E.E., University of Notre Dame, 1961.

† Jaime Calle, Bogotá, Colombia, South America

B.S.E.E., University of Notre Dame, 1960.

Joseph Michael Camarata, Gary, Indiana

B.S.E.E., Valparaiso University, 1960.

† Richard Timon Daly, Junior, St. Louis, Missouri

B.S.E.E., St. Louis University, 1960.

† Xavier A. DeAngelis, South Bend, Indiana

B.S.E.E., University of Notre Dame, 1960.

† Kenneth Anthony Filetti, South Bend, Indiana

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Diplome d'Ingénieur, Ecole Supérieure d'Electricité (France), 1961. Dissertation: Theory and Operation of a Solid-State Converter as an AC Motor Drive.

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B.A., University of Notre Dame, 1959; B.S.E.S., *ibid.*, 1960. Dissertation: Theory and Implementation of the Potential Analogy.

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B.S.M.E., University of Notre Dame, 1960.

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B.S.M.E., University of Notre Dame, 1960. Dissertation: A Study of the Effects of Changing Air Conditions on the Performance of a Finned Tube Cooling Coil For a Constant Air Velocity.
- Joseph W. Dorrycott, Junior, Washington, Pennsylvania  
B.S.M.E., University of Notre Dame, 1960. Dissertation: An Improved Integral Solution to the Problem of Liquid Metal Heat Transfer.
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B.A., University of Notre Dame, 1959; B.S.M.E., *ibid.*, 1960. Dissertation: Transient Heat Conduction in the Cylindrical Coordinate System By an Improved Integral Technique.
- † William E. Grunert, Lowville, New York  
B.S.M.E., University of Notre Dame, 1960. Dissertation: The Surface Tension of Liquids and Its Effect on Heat Transfer.
- † Robert Gordon Hatch, South Bend, Indiana  
B.S.Ch.E., University of Michigan, 1948.
- † Gary Joseph Hordemann, Spokane, Washington  
B.S.M.E., Gonzaga University, 1960. Dissertation: A Study of the Feasibility and Design of a Shock Tube Suitable for Plasma Studies.
- † William Ward Howard, La Jolla, California  
B.S.M.E., University of Notre Dame, Indiana, 1960.
- George Nicholas Lauri, Bronx, New York  
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B.S.M.E., University of Notre Dame, 1960. Dissertation: A Study of Finned Tube Heat Exchangers Operating With 0°F Entering Air Condition.
- † Frank James Ponzio, Junior, New Providence, New Jersey  
B.S.M.E., University of Notre Dame, 1960. Dissertation: Two Phase Flow in Ducts.
- † Ayyagari Venkatachalapati Rao, Bombay, India  
B.S. (Mech.), Victoria Jubilee Technical Institute, Bombay, India, 1959.
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B.S.Metal.E., University of Notre Dame, 1960. Dissertation: Phase Relations of the Antimony-Indium-Lead System.
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B.S.Metal.E., University of Notre Dame, 1960. Dissertation: The Ternary System- InSb-InTe-Sb.
- † Bhageshwar Swaroop, Lucknow, India  
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- † Jacques Tournon, Paris, France  
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 Charles William Schumacher, Bay Village, Ohio  
 Frederick Joseph Sharkey, C.S.C., Chicago, Illinois  
 Raymond Gerald Shea, New Rochelle, New York  
 David Edward Shepley, Cleveland, Ohio  
 Thomas Edward Shipp, Tulsa, Oklahoma  
 Paul Anthony Sica, Pittsburgh, Pennsylvania  
 William Charles Slattery,\* Caldwell, New Jersey  
 Francis Edmund Smith, Jr., Cordova, Alaska  
 William Merrill Snyder, Jr., Hinsdale, Illinois  
 Edward John Soehnen, Louisville, Ohio  
 Frederick Louis Spatz, Louisville, Kentucky  
 Frederick Neil Springsteel,\* Kirkland, Washington  
 James Gately Squyres, Chicago, Illinois  
 William Robert Stackpoole, Detroit, Michigan  
 Thomas Robert Stapleton,\*\* Sturgis, Michigan  
 Harold Joseph Stearns, Harlowton, Montana  
 Lawrence Wayne Stock, Niles, Michigan  
 Joseph Rodney Struble, C.S.C., Wichita, Kansas  
 David William Strutz, Merrill, Wisconsin  
 Howard Kenneth Sullivan, Jr., Providence, Rhode Island  
 John Patrick Sullivan, Jr., Winnetka, Illinois  
 Thomas Anthony Sullivan, Cincinnati, Ohio  
 William John Sullivan, Royal Oak, Michigan  
 John Francis Swanson, Rockford, Illinois  
 Dennis James Sweeney, Cincinnati, Ohio  
 Vincent D. Sweeney, Pittsburgh, Pennsylvania  
 William John Sweeney,\*\*\* Oak Park, Illinois  
 † Michael John Sweet, Warren, Ohio  
 Victor Martin Szalankiewicz, Easthampton, Massachusetts  
 Dennis Albert Szilak, Perrysburg, Ohio

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 Joseph Anthony Tannian, Portsmouth, Ohio  
 Wayne Edward Thompson, White Cloud, Michigan  
 John Michael Thornbury, Hamburg, New York  
 † Paul Vincent Torczynski, Chicago, Illinois  
 Charles Alexander Tosi, Jr., Ho-Ho-Kus, New Jersey  
 Gary Luther Townsend,\*\* Indianapolis, Indiana  
 Richard J. Trujillo, Phoenix, Arizona  
 Eugene W. Tuite, Smoke Rise, New Jersey  
 Thomas Michael Twardowski, Reading, Pennsylvania  
 John Edward Tyler, Jr., Thompsonville, Connecticut  
 Filippo Maria Valli, Rome, Italy  
 William Richard Veeder,\*\* Arlington, Virginia  
 † Fernando Rafael Vial, C.S.C., Santiago de Chile  
 Peter Francis Vieira, Stockton, California  
 † Dennis Joseph Walljasper, Iowa City, Iowa  
 Raymond M. Walsh, Fort Wayne, Indiana  
 Thomas Louis Walsh, Saint Paul, Minnesota  
 Richard Victor Warner, C.S.C., Lakewood, Ohio  
 Robert Henry Watkinson, Andover, Massachusetts  
 Frederic William Weber, Rochester, Minnesota  
 Kenneth Raymond Webster, Enid, Oklahoma  
 † Stephen John Weiland,\* Skokie, Illinois  
 Gregory Nelson Weismantel, Lancaster, Ohio  
 Thomas Joel Weiss,\* Evanston, Illinois  
 Bruce Agar Weisse, New York, New York  
 James Francis Whelan, Ridgewood, New Jersey  
 Joseph Francis White, Jr., Webster, Massachusetts  
 Jerome Francis Wich, Detroit, Michigan  
 Jerome Meyer Wiggins,\* Portsmouth, Ohio  
 William James Wilders, Scarsdale, New York  
 George Duane Williams, Marshfield, Massachusetts  
 Michael J. Woods, Pacific Palisades, California  
 Damien Thomas Wren, Chicago, Illinois  
 Richard John Wunsch, Mt. Vernon, Ohio  
 Donald Crombie Yates, Glen Ridge, New Jersey  
 Philip Henry Yawman, III, Rochester, New York  
 Joseph Carl Zangari, Meriden, Connecticut  
 Joseph Paul Zeller, Galion, Ohio  
 Thomas Andrew Zlaket, Tucson, Arizona  
 Theodore John Zmarzly, Garfield Heights, Ohio  
 Michael James Zwettler,\* Upland, California

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 John Dennison Butler, South Bend, Indiana  
 Jose Maria Del Valle, Hato Rey, Puerto Rico  
 † Ernest Leslie Graubner, Arlington, Virginia  
 Thomas Louis Hansen, Chicago, Illinois  
 Paul Jerome McKenna, Jr., South Bend, Indiana  
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Varnum William Harris, Jr., Newport, New York  
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Victor Grabowski, Pittsburgh, Pennsylvania  
Harold James Krauser, Chillicothe, Ohio  
Alexander Joseph Kristine, Gary, Indiana  
Martin Daniel McDermott, Nanty Glo, Pennsylvania  
Theodore Anthony Romanowski, Albany, New York  
Clay Isidor Schulz, Schofield, Wisconsin  
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## THE COLLEGE OF SCIENCE

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Frank R. Courreges, Shreveport, Louisiana  
John Charles Dailey, Carrollton, Illinois  
James Anthony Daniel, Minneapolis, Minnesota  
Michael Edward Daugherty, Anchorage, Kentucky  
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Theodore Walter Ek, Issaquah, Washington  
Thomas Francis Farley, III, Jamestown, New York  
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James Allen Furstoss, Peoria, Illinois  
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James Clifford Haight, Cleveland, Ohio  
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Harold Blane Howell, Fort Smith, Arkansas  
James Patrick Hughes, Tulsa, Oklahoma  
Ronald Joseph Ignelzi, Olympia Field, Illinois  
James Michael Jasper, Trussville, Alabama  
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Michael Edward Kerr, Swarthmore, Pennsylvania  
William Joseph Klein, Philadelphia, Pennsylvania  
Gerald Michael Kohne, Decatur, Indiana

Jerome Richard Kulesia, South Bend, Indiana  
 Paul Henri Lamboley, Monroe, Wisconsin  
 Dominic Richard Libro, Gloucester, Massachusetts  
 James Madison Lowe, II, South Bend, Indiana  
 Albert Anthony Maniscalco, Staten Island, New York  
 Anthony Francis Marra, Brooklyn, New York  
 Paul Thomas McGarvey, Waterloo, Iowa  
 James Micheal Mohs, Webster, South Dakota  
 Peter Lorenz Morris, Charlotte, North Carolina  
 Robert Kent O'Leary, Brooklyn, New York  
 Harold Joseph Orthmeyer, Jr., Washington Court House, Ohio  
 Michael Edward Poll, Jr., Carteret, New Jersey  
 Louis Salvatore Ruvolo, North Plainfield, New Jersey  
 Edgar Cunningham Savarese, Chappaqua, New York  
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 John Franklin Stecker, Morgantown, West Virginia  
 † James Akira Takeuchi, Los Angeles, California  
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 Edmund Barry Tobin, Greenwich, Connecticut  
 Francis Michael Wilbraham, Swedesboro, New Jersey  
 † Anthony C. Williams, South Bend, Indiana  
 Walter Diehl Willihnganz, Lafayette Hill, Pennsylvania  
 Donald Wah Sun Yim, Kaneohe, Oahu, Hawaii  
 Raymond Frederick Zickl, Staten Island, New York, New York

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 John Michael Brennan, Rensselaer, New York  
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 Thomas Cash Jorling, Cincinnati, Ohio  
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 Michael Jay Grubber, Moundsville, West Virginia  
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 Marvin Joseph Mohlenkamp, Jr., Louisville, Kentucky  
 Raymond Kevin O'Hara,\* Brooklyn, New York  
 Daniel Roman Omilianowski, East Chicago, Indiana  
 Norman Joseph Pinkowski, Bloomfield, New Jersey  
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Jerome Edward Schulz, Farmington, Minnesota  
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Robert Kenneth Wilson, South Bend, Indiana

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John Peter Lang, St. Paul Minnesota  
Frank William Owens,\*\* South Bend, Indiana  
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Thomas Hanlon Fox, Jr., Birmingham, Alabama  
John Frederick Goehl, Jr., Philadelphia, Pennsylvania  
Robert Michael Hord, Dayton, Ohio  
John William Humphrey, El Cajon, California  
Anthony Kalil Hyder, Jr., Montgomery, Alabama  
Paul Vincent Hyer, Conshohocken, Pennsylvania  
Michael Dominick Mancusi, Plainview, New York  
John Terrence McGrath, Collingswood, New Jersey  
William Preston Moran,\*\* Tulsa, Oklahoma  
Robert Edward Peters, Midland, Michigan  
George Will Pfeiffenberger, Lubbock, Texas  
Paul Francis Slattery,\*\* Hartford, Connecticut  
† Paul Arthur Viebrock, Gardden City, New York  
George Thomas Wenning,\* Cincinnati, Ohio

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† Leonard Charles Bettex, New York, New York  
Robert John Bleeg, Newtown Sq., Pennsylvania  
Willard Brand Bobosky, Downers Grove, Illinois  
Jerome Thomas Bolduc, Phoenix, Arizona  
† James Clayton Collins, San Diego, California  
Timothy Joseph Dunn, Haworth, New Jersey  
Raymond Frederick Jansen, Brooklyn, New York  
Peter Michael Kachmar,\* Yonkers, New York  
Dennis Patrick Madden, White Plains, New York  
Daniel Leo McGinnis, Niles, Michigan  
Lawrence Walter McGraw, Denver, Colorado  
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Patrick John McMahan, Redwood City, California  
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Gregory Martin Risch, East Orange, New Jersey  
Paul Joseph Sanner, New York City, New York  
Robert William Schlundt,\* Sheboygan, Wisconsin  
John Michael Schnaubelt, La Grange Pk., Illinois  
Eli John Soldo, Reno, Nevada  
Albert Henry Sonntag, Jr., Affton, Missouri  
John Henry Steffens, Cherry Hill, New Jersey  
Dennis Joseph Strojny, Yonkers, New York  
Charles McCormick Switzer, Jr., Denver, Colorado  
Jack VanNess Werner, Southampton, New York  
John Nicholas Wilkinson, Pittsburgh, Pennsylvania

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

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Robert Host Canizaro, Jackson, Mississippi  
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† Edward J. Duffy, Northport, New York  
James Richard Dunne, Bay Shore, New York  
† John Alfred Earthman, Houston, Texas  
Joseph Paul Giattina, Jr., Birmingham, Alabama  
† Werner Herman Graf, Michigan City, Indiana  
Theodore Paul Maniatis, Chicago, Illinois  
Anthony Michael Mileto, Baltimore, Maryland  
Paul Michael Murphy, Wilmette, Illinois  
Bernard Francis Rauch, Fort Wayne, Indiana  
Thomas Edward Regan, Jr., Oil City, Pennsylvania  
David Michael Trigiani, Bangor, Pennsylvania

### *The Degree of Bachelor of Science in Chemical Engineering on:*

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Erich Edwin Bredl, Indianapolis, Indiana  
Roger Allen Brekken, Crookston, Minnesota  
Richard Timothy Creedon, Staten Island, New York

† Raymond Joseph Curtin, Chicago, Illinois  
 Anthony Francis Dean, Jr., Morrisville, Pennsylvania  
 John Patrick DeWerth, Menomonee Falls, Wisconsin  
 David James Edwards, Gas City, Indiana  
 Paul Arnold Erzer, Erie, Pennsylvania  
 John Henry Goodman III, Washington, District of Columbia  
 Richard Kenneth Green, Auburn, New York  
 Francis Vern Hanson, Fostoria, Ohio  
 Mark Albert Harter, Peoria, Illinois  
 Walter George Hill, Dearborn, Michigan  
 William Franklin Huber, Jr., Hamilton, Ohio  
 Robert Charles Isaacs, St. Louis, Missouri  
 Michael Patrick Joyce, Forty Fort, Pennsylvania  
 Michael John Loparco, Greenwich, Connecticut  
 Thomas Peter McCarthy, White Plains, New York  
 Henry Martin Mittelhauser, Jr., Manhasset, New York  
 Patrick Hugh Monahan, Arcola, Illinois  
 James Robert Murphy, Saint Louis, Missouri  
 Michael Anthony Musiano, Hammonton, New Jersey  
 Charles Leo Persyn, Concord, California  
 Paul Joseph Petitclair, Waukegan, Illinois  
 James Joseph Pottmyer, Oklahoma City, Oklahoma  
 Edward Joseph Steck, Paducah, Kentucky  
 Jasper Samuel Titone, Shreveport, Louisiana  
 Michael Joseph Wallace, Clifton, New Jersey

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

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 John Clarence Bruch, Jr., Kenosha, Wisconsin  
 Frank Christopher, Elmhurst, Illinois  
 James Gregory Collins, LaPorte, Indiana  
 Francisco T. Del Valle,\* Hato Rey, Puerto Rico  
 Vincent Paul Drnevich, East McKeesport, Pennsylvania  
 James William Fallon, Jr., Milwaukee, Wisconsin  
 Thomas Patrick Glavin, Scottsville, New York  
 Thomas Joseph Gross,\* Elkhart, Indiana  
 John Joseph Guzzo, Columbus, Ohio  
 John Richard Harty, Fall River, Massachusetts  
 Carl Phillip Houck,\*\* Denver, Colorado  
 Theodore Richard Kretschmer, Chicago, Illinois  
 † Cosmo Lawrence Laurello, Ashtabula, Ohio  
 † Gerald Edwin Lindgren, Libertyville, Illinois  
 William Edward Long, Akron, Ohio  
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 Henry Lee Merry, Minneapolis, Minnesota  
 John Gerard Neidhart, Amityville, New York  
 † James Wesley Newmyer, Jr., Birmingham, Michigan  
 Daniel Patrick O'Connor, Hazleton, Pennsylvania  
 Paul James Quinn, New York, New York  
 † Cicerón Enrique Robles, Barrarquilla, Colombia  
 Richard Lee Sauer, Chester, Illinois  
 John Anthony Shanahan, White Plains, New York

James William Sharman, Jr., Houston, Texas  
Thomas Edward Siegel, Clarion, Pennsylvania  
Lee C. Taddonio, Pittsburgh, Pennsylvania  
John Frederick Tidgewell, III, Orange, California  
Julio Emilio Valera, New York, New York  
Thomas Albert Whalen, White Plains, New York

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

William Joseph Bine, III, Westlake, Ohio  
William Benedict Brzezinski, Dearborn, Michigan  
James Arthur Burkhart, Lancaster, New York  
Paul Edward Couture, Kenmore, New York  
Peter Harry Dierks, Prairie Village, Kansas  
John Joseph Doherty, New York, New York  
John Vincent Donlon, Jr., Farmingdale, New York  
Owen Edward Doyle, Philadelphia, Pennsylvania  
William Douglas Drane,\*\* Jackson, Mississippi  
August Frederick Fath,\* Kalamazoo, Michigan  
George Edward Hauck, Tarrytown, New York  
Robert Leon Hutchins, San Angelo, Texas  
Kenneth Edward Jannot, Meadville, Pennsylvania  
William Andrew Keenan,\*\* Wayne, New Jersey  
Kenneth James Kelly, New York, New York  
John Joseph Lombardi, Jr., Roslyn, New York  
Paul Michael Margosian,\*\* San Diego, California  
Eugene Anthony McKale, Cleveland, Ohio  
John William Montgomery, Baltimore, Maryland  
Charles Michael Morris, De Pere, Wisconsin  
Roger Mitchell Nasser, Shreveport, Louisiana  
† William Dennis O'Neill,\* Matteson, Illinois  
Richard James Osterman, Hawthorne, New Jersey  
Harold William Schaeffgen,\*\*\* Memphis, Tennessee  
† James E. Robert Sheeler, Jr., Abilene, Texas  
Richard Joseph Skrypkun, Evergreen Park, Illinois  
John Joseph Slattery, Jr., Baltimore, Maryland  
Raymond Theodore Stefani, Jr., Detroit, Michigan  
Robert Joseph Stubin, Jersey City, New Jersey  
Daniel David Sullivan, Auburn, Maine  
Robert L. Szczerba, Colorado Springs, Colorado  
Paul Voros,\* Montreal, Quebec, Canada  
Richard Francis Waco, Elmwood Park, Illinois  
† James Lyman Wareham, Clinton, Iowa  
Charles Rashed Wasaff, El Paso, Texas  
Edward Francis Westhoven, Paterson, New Jersey

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Cornelius James Nolan, Toledo, Ohio  
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Paul Lawrence Belliveau, Kankakee, Illinois  
Joseph S. Bendick, Kingston, Pennsylvania  
John Patrick Booker, New Orleans, Louisiana  
James Phillip Breen, Jackson, Tennessee  
Edward Dean Brown, Jr., Charlotte, North Carolina  
† Edward Francis Bukowski, Buffalo, New York  
Edward McKee Burns, Tafton, Pennsylvania  
† Charles Compton Cayce, Jr., Charlotte North Carolina  
† Terence Patrick Chou, Calcutta, West Bengal  
John Lawrence Churnetski, Wilkes-Barre, Pennsylvania  
† Eugene Joseph Ciesla, Cleveland, Ohio  
James Joseph Clarke, Detroit, Michigan  
Michael Joseph Clayton, Pittsburgh, Pennsylvania  
Richard Keith Coffin, St. Louis, Missouri  
† James Christopher Cogan, Newark, New Jersey  
Luis Felipe Colón, Santurce, Puerto Rico  
Dennis Edward Cooney, St. Louis, Missouri  
Richard John Cramer,\* Flint, Michigan  
† Edward Patrick Daly, Chicago, Illinois  
† George Keene Disco, Norwich, Connecticut  
† Richard John Dunn, Cleveland, Ohio  
Jim Leo Fischer,\* Quincy, Illinois  
† Timothy Pierre Flemming, Moline, Illinois  
Sean Patrick Foohey, Penns Grove, New Jersey  
Thomas James Freitas, Honolulu, Hawaii  
John Jacob Froning, St. Marys, Ohio  
† William Roger Gaynor, Chicago, Illinois  
John William Goodwine, Hoopeston, Illinois  
† Alexander F. Goot, Ipswich, Massachusetts  
Michael Anthony Grolmes, Louisville, Kentucky  
John Joseph Gutmiedl, Jr., Evanston, Illinois  
Carl Michael Hall, Clarksburg, West Virginia  
† Jeffrey Thomas Hamilton, St. Louis, Missouri  
Michael David Hanley, Clarksburg, West Virginia  
† Robert Patrick Harrill, Warren, Ohio  
Robert Edward Henry, Bluffton, Indiana  
Robert Henry Herrgott, Birmingham, Michigan  
Albert Edward Highducheck, Waterbury, Connecticut  
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Joseph Lindsay Hoffman, Akron, Ohio  
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John David Hynes, Burlingame, California  
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Peter Joseph Kerney, Philadelphia, Pennsylvania  
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Luis Antonio Llorens, Guayama, Puerto Rico  
Richard William Lynch, Yonkers, New York  
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Thomas Mitchell McMurray, Peoria, Illinois  
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 Frank Louis Pellegrini, St. Louis, Missouri  
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 Thomas William Piantek, Chicago, Illinois  
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 Louis David Rizk, Jacksonville, Florida  
 Paul Newell Robb, Tulsa, Oklahoma  
 Arnold Anthony Robba, Mineola, New York  
 Stephen Miller Rossetti, Sheffield, Pennsylvania  
 Ferdinand Joseph Ruebenacker, Rego Park, New York  
 Henry August Scheyer, Jr., Ridgefield, New Jersey  
 Clemens Edward Schmidt, Louisville, Kentucky  
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 Edward Fredrick Spurl, III, Metairie, Louisiana  
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 † Leo J. Vetter, Jr., Schenectady, New York  
 Craig Edmund Vollhaber, White Bear Lake, Minnesota  
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 Frank Joseph Wagner, Sturgis, Michigan  
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 Hugh Robert Gray, Wilmington, Delaware  
 Robert Francis Krause, Pittsburgh, Pennsylvania  
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Roger Marshall Carroll, Cicero, Illinois  
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† Frank Eilers Clark, Jersey City, New Jersey  
† Thomas Brian Clarke, Arlington Heights, Illinois  
William Herbert Cleary, Danvers, Massachusetts

Kevin Thomas Connelly, Huntington, New York  
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 Peter Dominic Connolly, Chicago, Illinois  
 Michael Francis Conway, Dearborn, Michigan  
 Terence Patrick Corrigan, Balboa, Canal Zone, Panama  
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 Samuel Joseph Cutrara, Chicago, Illinois  
 Alexander Bernard Czachura, Posen, Illinois  
 J. Randolph Davies,\* Milwaukee, Wisconsin  
 John Charles Dearie, Bronx, New York, New York  
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 Michael Henry Greeley, Bradenton, Florida  
 John Bernard Green, Jr., Du Bois, Pennsylvania  
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 William Harrington Hahn, Lakewood, Ohio  
 Thomas Joseph Hanley, Livingston, New Jersey  
 William O'Connor Harnisch, Poland, Ohio  
 Michael James Hart, Toronto, Ontario, Canada  
 Roger Kent Harvey, Latrobe, Pennsylvania  
 Thomas Edward Hatch, Jr., Greenwich, Connecticut  
 Dana Charles Hayes, Chicago, Illinois  
 John Sargent Hayford, Milwaukee, Wisconsin  
 Thomas Joseph Hecomovich, Bovey, Minnesota  
 Albert Edward Heckin III, Cincinnati, Ohio  
 Charles Theodore Heimerdinger, Monrovia, California  
 Glenn Joseph Hendry, East St. Louis, Illinois  
 Robert Karl Heye, Pittsfield, Massachusetts  
 Thomas Newton Hibbs, St. Louis, Missouri  
 Henry James Higgins, Springfield, Illinois  
 Pierre Arthur Hirou, South Bend, Indiana  
 Neil K. Hitz, Cleveland Hts., Ohio  
 John Francis Hoff, Princeton, New Jersey  
 Stephen Joseph Hogarty, Princeton, New Jersey  
 George Henry Holley, Glenview, Illinois  
 John Michael Hood, Algona, Iowa  
 James Michael Hoover, Detroit, Michigan  
 John Thomas Howley, Lake Worth, Florida  
 John Edward Hurley, La Salle, Illinois  
 Duane Neil Hutchins, Mishawaka, Indiana  
 George Michael Kane, Lake Forest, Illinois  
 Dennis Michael Keating, Chicago, Illinois  
 John Biorn Keena II, Ft. Lauderdale, Florida  
 Roger Eugene Kelling, Kanawha, Iowa  
 Thomas Stephen Kelly, Lagrange, Illinois  
 Walter Michael Kelly, Jr., Oak Park, Illinois  
 Eugene Robert Kieffaber, Overland Park, Kansas  
 Thomas Mullaney Kittredge, Philadelphia, Pennsylvania  
 Charles Henry Knittle, Des Plaines, Illinois  
 Paul Stanislaus Kocchanowski, South Bend, Indiana  
 Ronald William Koeppel, Phlox, Wisconsin  
 Thomas Edward Kondor, South Bend, Indiana  
 Garitt Anthony Kono, New York City, New York  
 Robert Vincent Korycki, Timonium, Maryland  
 John Gregory Kost,\* Moorhead, Minnesota  
 Martin Mitchell Kubiak, Chicago, Illinois  
 John Charles Kuehne, New York City, New York  
 Richard Michael Kulak, Peabody, Massachusetts  
 Albert Thomas Kurker, Indianapolis, Indiana

Merwyn Anthony Kusnierek, South Bend, Indiana  
 Paul Henry LaLiberte, Duluth, Minnesota  
 Louie Albert Lange, Jr., Fond du Lac, Wisconsin  
 Edward Eugene Larkin, Jr., Hamilton, Ohio  
 Robert Andrew Latsko, Farrell, Pennsylvania  
 Bruce Alban Lauer, Fort Wayne, Indiana  
 Richard Francis Lewinski, South Bend, Indiana  
 Thomas Francis Liggio, West New York, New Jersey  
 Edward Francis Linden, Villa Park, Illinois  
 Francis Albert H. S. Loo, Honolulu, Hawaii  
 John Michael Lorden, Rockford, Illinois  
 Thomas Michael Mack, Niles, Michigan  
 John Thomas Madigan, Hometown, Illinois  
 Michael Angelo Magnotta, Albion, Michigan  
 Michael William Mahaney, Atherton, California  
 Donald Joseph Maicher, Whiting, Indiana  
 Patrick Shea Maloney, Louisville, Kentucky  
 George Charles Mammola, Garfield, New Jersey  
 Robert Peter Marhofer, Glenview, Illinois  
 Deno Riccardo Marino, Vineland, New Jersey  
 Jacques Leonard Martin, Libertyville, Illinois  
 Edward Daniel McCarron, Jr., Havertown, Pennsylvania  
 Richard Patrick McCormick, Chester, New York  
 Michael Joseph McDonald, Bellefontaine, Ohio  
 Terrence Joseph McGlinn, Reading, Pennsylvania  
 Dennis John McLaughlin, Manhasset, New York  
 † Roger Patrick McMahan, Douglaston, New York  
 John Thomas McManus, Lunenburg, Massachusetts  
 John Patrick McQuillan, Munster, Indiana  
 John Alfred McReynolds, Jr., Knoxville, Tennessee  
 Richard Charles Meece, Ft. Lauderdale, Florida  
 Paul Leonard Mennucci, South Bend, Indiana  
 Patrick Joseph Mettler, Huntington, Indiana  
 William Ted Middendorf, Quincy, Illinois  
 Thomas Edward Miller, Whitefish Bay, Wisconsin  
 † Robert Emmet Minahan, Jr., South Bend, Indiana  
 Michael Anthony Minelli, Cleveland, Ohio  
 Thomas Peter Montgomery, Closter, New Jersey  
 Timothy John Moore, Oak Park, Illinois  
 John Robert Moosbrugger, Skokie, Illinois  
 James Mitchell Morrison, Munster, Indiana  
 Michael Lawrence Morrow, Dallas, Texas  
 William Dolan Mullaney, Bethel, Connecticut  
 John Thomas Muller, Jr., Youngstown, Ohio  
 William Francis Munday, Jr., Solon, Ohio  
 William Francis Murphy, Rocky River, Ohio  
 Michael Francis Murray, Battle Creek, Michigan  
 Michael Patrick Murray, Chicago, Illinois  
 William Henry Musich, Chicago Heights, Illinois  
 James Thomas Naughton, Jr., Larchmont, New York  
 Jerome O'Connor Nealon, Binghamton, New York  
 Fred James Nemecek, Robstown, Texas  
 Thomas Frank Noonan, Decatur, Illinois  
 Arthur Charles Nordhoff, Jr., Jasper, Indiana  
 James Edward Nowak, Chicago, Illinois

Richard V. Nugent, Jr., Chicago, Illinois  
 Theodore Joseph Nylese, Jr., Valley Stream, New York  
 George Dennis O'Brien, Baltimore, Maryland  
 Frank Joseph O'Connell, Jr., Kensington, Maryland  
 Gerald Thomas O'Connor, Jr., Chappaqua, New York  
 Bruce Garland Odlaug, St. Paul, Minnesota  
 Thomas Kiyoshi Ohta, Waihee, Maui, Hawaii  
 James Robert Olson, Allentown, Pennsylvania  
 John Francis O'Neill, Short Hills, New Jersey  
 John Collins Palumbo, Cedar Rapids, Iowa  
 Gerald Francis Pape, Chicago, Illinois  
 Larry John Paul, Massillon, Ohio  
 Edward Henry Pfeiffer, Louisville, Kentucky  
 Joseph Thomas Phillips, Jr., Oklahoma City, Oklahoma  
 Patrick Joseph Phillips, Iowa City, Iowa  
 William Francis Pietrowicz, Wilmette, Illinois  
 Kenneth Anton Pindel, Milwaukee, Wisconsin  
 Peter Matthew Prairie, Alburg, Vermont  
 Charles Edward Pugh III, Oak Park, Illinois  
 Thomas Michael Quinn, Fairview Park, Ohio  
 James David Rafferty, Highland Park, Illinois  
 John Edward Regan, Mankato, Minnesota  
 Joseph Lothar Reitter, Chicago, Illinois  
 Edward George Resch, Shaker Heights, Ohio  
 † Denis Walter Retoske, Dobbs Ferry, New York  
 † John L. Ridge, Jr., Portland, Maine  
 Francis Walter Riebenack, Forest Hills, New York  
 Karl Edmund Roesler, Fort Wayne, Indiana  
 David Allen Romano, Chicago Heights, Illinois  
 Ross David Rosi, Chicago, Illinois  
 James Barry Ryan, Buffalo, New York  
 Vincent Thomas Ryan, Evergreen Park, Illinois  
 Benjamin Benedict Salvaty, Alhambra, California  
 †Ezio Anthony Sansoni, Merced, California  
 Stephen Duncan Saussy, New Orleans, Louisiana  
 David Joseph Scalise, Northbrook, Illinois  
 Carl Fredrick Schaefer, Hoboken, New Jersey  
 Sean Patrick Schaeffner, Grosse Pointe Shores, Michigan  
 George Ernest Scharpf, Ridgewood Queens, New York  
 Peter Louis Scheid, Watervliet, Michigan  
 Frank Schlick, III, St. Paul, Minnesota  
 Edward Julius Schnurr, Louisville, Kentucky  
 John Charles Schuchman, St. Albans, New York  
 James Francis Schueppert, Menasha, Wisconsin  
 Allen Charles Sell, Hellertown, Pennsylvania  
 Patrick John Sheedy, Altoona, Pennsylvania  
 Patrick Michael Sheridan, Detroit, Michigan  
 † Stephen H. Sherwood, Kansas City, Missouri  
 John Ellsworth Shuff, Jr., Cincinnati, Ohio  
 Thomas Frederick Sikora, Elkhart, Indiana  
 Charles Albert Sladek, Dallas, Texas  
 Thomas Stafford Slater, Sault Ste. Marie, Michigan  
 Thomas Edgar Sleeper, Kewanee, Illinois  
 Franklin Warren Smith, Canton, Ohio  
 Joseph Albert Smith, Jr., Indianapolis, Indiana

J. Roger Smith, Bethlehem, Pennsylvania  
James Gilbert Smith, Wheaton, Illinois  
Neil Kingston Smith, Rochester, New York  
Lawrence Arthur Soletti, San Mateo, California  
† William Latten Soule, Jr., Pensacola, Florida  
Dennis Shehan Sterosky, Port Huron, Michigan  
James Francis Stone, Williamsville, New York  
Robert George Strahs, Trenton, New Jersey  
Robert George Streit, Skokie, Illinois  
David Charles Stuebe, Racine, Wisconsin  
Michael Dean Sullivan,\* Roselle, Illinois  
John Emery Taffec, South Bend, Indiana  
John Robert Tarnowski, Wyandotte, Michigan  
William Bradford Terrence, Vestal, New York  
Michael Patrick Terry, Chicago, Illinois  
David Benedict Thomas, Pipestone, Minnesota  
Paul Alan Thomason, Greenwich, Connecticut  
William Harold Thompson, South Bend, Indiana  
John Francis Tracy, St. Paul, Minnesota  
Leslie John Traver, Toledo, Ohio  
Ronald Joseph Vannuki, Youngstown, Ohio  
J. Jerald VanOverwalle, Manhasset, New York  
Harold Edward Vertin, Jr., Calumet, Michigan  
John Joseph Waligora, Lansdale, Pennsylvania  
Thomas Pender Walsh, Waukegan, Illinois  
Steven Arthur Weidner, Waterloo, Iowa  
William Cyrus Weinsheimer, Chicago, Illinois  
David Dana Wigton, Cincinnati, Ohio  
John Francis Wilbraham, Swedesboro, New Jersey  
Roger Wilke, Hamilton, Ohio  
David Joseph Witchger, Indianapolis, Indiana  
Gary Robert Yarwood, Niles, Illinois  
Michael James Zambetti, Jacksonville, Florida  
John Henry Zeiler, Paris, Arkansas

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NATIONAL FELLOWSHIPS AND SCHOLARSHIPS  
AWARDED FOR 1962-63

*United States Government Fellowships for Study Abroad:*

Joseph H. Kavanagh, for study in Germany (Philosophy)  
(Fulbright Fellowship)

*National Science Foundation Predoctoral Fellowships (Level I):*

Richard A. Bajura, (nuclear engineering)  
Michael J. Biallas, (analytical chemistry)  
William D. Drane, (electrical engineering)  
John G. Heywood, (mathematics)  
James T. Higney, (nuclear engineering)  
William A. Keenan, (electronics)  
Michael B. Marchildon, (biochemistry)  
Paul M. Margosian, (electronics)  
John L. Miesel, (organic chemistry)  
William P. Moran, (theoretical physics)  
Daniel Omilianowski, (biochemistry)  
Frank W. Owens, (mathematics)  
Arnold Robba, (nuclear engineering)  
William J. Sweeney, (mathematics)

*National Science Foundation Predoctoral Fellowships (Level II):*

Theodore J. Barth, (mathematics)  
Anthony C. Hughes, (mathematics)  
Sister Elizabeth Michaels, (mathematics)  
Sister Mary Brendan Pierson, (physiology)

*National Science Foundation Cooperative Graduate Fellowships:*

Robert P. Johnson, (mathematics)  
Theodore E. Madey, (physics)  
John Misner, (mathematics)  
James F. Slifker, (mathematics)  
Franklin C. Smith, Jr., (physics)  
Sister M. Jean Wallace, (zoology)  
Donald R. Weidman, (mathematics)

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

William E. Dorenbusch, (physics)  
James J. Reidy, (physics)  
Leonard C. Sulski, (mathematics)  
William E. Zenk, (chemical engineering)

*National Institutes of Health Predoctoral Fellowship:*

George B. Olson, (biology)

*Root-Tilden Law Scholarship:*

Thomas E. Colleton

*Woodrow Wilson Fellowships:*

Edmund Burke III  
Louis M. Iribarne  
William J. Irvin  
Richard J. Jensen  
William P. Moran

Paul A. O'Bryan, Jr.  
Michael F. Pajak, Jr.  
William R. Veeder  
Michael J. Zwettler

*Danforth Fellowships:*

Edmund Burke III

William J. Irvin

## 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.

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### 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*