

WAYNE STATE —

UNIVERSITY

COMMENCEMENT



MASONIC TEMPLE
JANUARY 29, 1959

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HON. REMUS G. ROBINSON, *Chairman*
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COMMENCEMENT COMMITTEE

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Elsie W. Townsend
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Frank X. Tuohy
Howard M. Hess, *Chairman*
Rupert L. Cortright, *Marshal*

The Wayne State University Symphony Orchestra under the direction of Valter Poole

Citations for Honorary Degree Candidates written by Thelma G. James

The marshals and ushers serving during this commencement exercise are undergraduate students of the University

ORDER OF EXERCISES

OVERTURE

Prelude to the Meistersinger

Wagner

PROCESSIONAL

The Emperor March

Wagner

(The audience is asked to rise as the academic procession enters and to remain standing until the Invocation has been pronounced.)

HYMN TO WAYNE

To thee, our Alma Mater,
Homage we bring.
Brave hearts raise grateful voices
Thy praise to sing.
Young art thou, young and strong;
Renowned shalt thou live, and long;
Honors to thee will throng—
And Fame to thee cling.

We laud thee, Alma Mater,
Guardian of Right.
Thou art our guide, our mentor—
Thy name shines bright.
Keep Learning's light aflame,
And hold Truth a sacred name,
Honor, thy steadfast aim.
All hail to thy might!

—Nicholas Stanley Oates '29

THE NATIONAL ANTHEM

INVOCATION

The Reverend Walton E. Cole, D.D., First Congregational Church

FOREWORD

The Honorable Remus G. Robinson, Chairman, Wayne State University Board of Governors

THE CONFERRING OF THE HONORARY DEGREES

Clarence B. Hilberry, Ph.D., I.H.D., LL.D., Sc.D., President of the University

HYMN TO WAYNE

DeTar '27

(The audience is requested to rise for the singing of the Hymn.)

THE CONFERRING OF THE ACADEMIC DEGREES

WELCOME TO THE ALUMNI ASSOCIATION

Gladys M. Wright, '41, President, Wayne State University Alumni Association

THE AWARDING OF R.O.T.C. CERTIFICATES

DECLARATION OF CIVIC LOYALTY

Arthur Neef, A.B., J.D., Vice-President and Provost

BENEDICTION

(The audience is requested to rise for the Benediction and to remain standing until the Recessional is completed.)

RECESSATIONAL

La Reine de Saba

Gounod

CANDIDATES FOR HONORARY DEGREES

FOR THE HONORARY DEGREES

Winfred A. Harbison, Ph.D., Vice President for Academic Administration

DOCTOR OF LAWS

SAMUEL MILLER BROWNELL

A.B.; M.A.; Ph.D.

Escort: Dean Francis C. Rosecrance

Samuel Miller Brownell, a native of Nebraska; graduate of the University of Nebraska, elected member of Phi Beta Kappa; recipient of the doctorate at Yale University; he is now Superintendent of the Detroit Public Schools.

In a distinguished career devoted to teaching and educational administration, he has served as: Superintendent of the Grosse Pointe, Michigan Schools, on the Faculty of Yale University, as President of the New Haven State Teachers College, and as the United States Commissioner of Education. To these services and to the educational surveys which he has directed in many parts of the country, he has brought rare skill in the perception and analysis of the problems of our schools.

His more than fifty scholarly articles constitute a widely accepted philosophy of education: education is a state function, responsibility for which is delegated to the local community; the purpose of education is ultimately to develop the full potential of each individual; the administration and teachers must be free to develop new techniques for interpreting the whole educational process to the civic community and to the students. He has made an outstanding contribution in the implementation of these ideas.

To the challenge of the educational problems of a great urban community he has brought wisdom, dedication, and a courageous leadership; to this University he has given full support and cooperation in every endeavor which has been our common concern.

LAWRENCE KELSO FRANK

A.B.

Escort: Dr. Morton Levitt

Lawrence Kelso Frank, a native of Ohio; graduate of Columbia University; research scholar in the field of human relations; he is currently Lecturer in the Department of Planning at the Massachusetts Institute of Technology.

For forty years he has given distinguished service on Commissions for the government and for private foundations, as Officer of research associations, as Lecturer and Fellow for Universities. Concerned with all areas of human adjustment, he has probed deeply and profitably into parent-child relationships, into problems in gerontology, and into the influence of societal structures on individual emotional states. Author of many scholarly articles and standard texts, he has been the recipient of the Lasker Award in Mental Health, the Parents Magazine Award, and the Kurt Levin Award from the Society for Psychological Study.

Through his contributions to the knowledge of human growth and development, whole new areas of cooperation between society and the individual have been revealed. Within the framework of these new culture concepts, human values and needs, being clearly perceived and interpreted, can be more adequately realized in our time.

GEORGE WILCKEN ROMNEY

Escort: Dr. Spencer A. Larsen

George Wilcken Romney, born in Mexico of American parentage; a student at the Latter-Day Saints University, the University of Utah, and George Washington University; he is now Chairman of the Board, President, and General Manager of the American Motors Corporation.

A dedicated churchman, he has been actively concerned with the application of the Judeo-Christian ethic to everyday life. Associated in his entire career with manufacturing, he has frequently been the formulator and spokesman of policies for the automobile and other industries. He has used every opportunity to underline the vital nature of free competition and voluntary cooperation in our society. He has warned of the corrosive effects of over-centralized power and monopoly in industry, labor, and government. He has developed in his own plants highly successful programs of cooperation with employees, unions, and communities in which his plants are located.

CANDIDATES FOR HONORARY DEGREES—Continued

To this and to the national community he has given dedicated service as: Managing Director of the Automotive Council for War Production, President of the Automobile Manufacturers Association, Director of the United Foundation, Chairman of the Executive Committee of the Detroit Roundtable of Catholics, Jews, and Protestants, and as President of the Eastern Michigan District of the Church of Latter-Day Saints. He is a Member of the Businessmen's Advisory Committee for the School of Business Administration of Wayne State University; and from his most recent work as Chairman of the Detroit Citizens Advisory Committee on School Needs has come one of the most comprehensive and penetrating studies ever made of the educational problems of a great urban center.

PAUL BIGELOW SEARS

A.B.; B.S.; M.A.; Ph.D.; D.S.C.; Litt. D.

Escort: Dr. William V. Mayer

Paul Bigelow Sears, a native of Ohio; graduate of Ohio Wesleyan University, recipient of the doctorate from the University of Chicago; he is now Chairman of the Program in Conservation at Yale University.

His elections as President of the Ecological Society of America and of the American Association for the Advancement of Science testify to the esteem of his professional colleagues in many scientific fields. Recognized as one of the world's greatest botanists, his studies have pioneered research in ecology, palynology, and more recently in the conservation of our natural resources.

Plant and human ecologies, historic and present, have recorded their patterns; his hundred papers of transcription and critical analysis rank among the notable scientific writings of our age. His books and addresses are marked by a felicity of style that accurately and gracefully translates these esoteric materials for the layman; thus the groundwork for wider public support of sound conservation practices has been laid. In his life and work are joined the finest attributes of scientist and humanist, of teacher and research scholar, of professional man and citizen.

THEODORE von KARMAN

M.E.; Ph.D.; D. Eng.; D.S.C.; D. Appl. Sc.; LL.D.

Escort: Dean J. Stuart Johnson

Theodore von Karman, a native of Hungary; a graduate of the Royal Technical Institute of Budapest, recipient of the doctorate from Gottingen University; honored by the universities, professional societies, and governments of many nations; he is now Director of the Guggenheim Aeronautical Laboratory and Chairman of the Graduate School of Aeronautics of the University of California Institute of Technology.

For the more than fifty years in which he has devoted his attention to problems of aerodynamics, the foremost developments in both the theoretical and applied aspects of high speed ranges, turbulence, hypersonics, after-burning, and aerothermo chemistry have come under his leadership. Today, recognized as the world's greatest aerodynamist, he continues through brilliant mathematical analysis to formulate new concepts in the fields of ballistics, naval architecture, and engineering dynamics.

Through his dedicated service on the International Exchange Program, he has facilitated the effective exchange of scientific information and personnel among the nations of the world. From a mind almost universal in its range and sympathies has come one of the greatest insights into the structure of our universe as visualized by the scientist and fabricated by the engineer.

CANDIDATES FOR GRADUATE DEGREES

From the Graduate School

Lloyd Allen Cook, Ph.D., Dean of the Graduate School and Vice-President for Graduate Studies

FOR THE DOCTOR'S DEGREES

DOCTOR OF PHILOSOPHY

MARVIN J. ALBINAK, A.B., 1949, M.S., 1952, University of Detroit
Dissertation Title: "The Influence of Optically Inactive Ions on the Rotatory Dispersion of Optically Active Complex Inorganic Compounds."
Adviser: Dr. Stanley Kirschner

CHARLES HUNG CHANG, B.S., 1945, National Central Polytechnic College; M.S., 1955, Montana State University
Dissertation Title: "The Reaction of Epoxyethers with Amines. A New Method for the Preparation of Alpha-Aminocarbonyl Compounds."
Adviser: Dr. Calvin L. Stevens

VERA FROMMER DORON, B.S. in Chem. Eng'g., 1952, Israel Institute of Technology; M.S., 1957, Wayne State University
Dissertation Title: "The Application of Zone Melting Techniques to the Resolution of Two Component Systems in Aqueous Solutions. I. Two Component Inorganic Salt Systems. II. The Resolution of Racemic Mixtures of Optically Active Compounds."
Adviser: Dr. Stanley Kirschner

ROBERT RUFUS ENGLE, B.A., 1951, DePauw University; M.S., 1953, Wayne State University
Dissertation Title: "Synthesis of Steroidal Hormone Analogs."
Adviser: Dr. Carl Djerassi

LAWRENCE EDWIN GELLER, B.A., 1952, Brandeis University; M.S., 1954, Wayne State University
Dissertation Title: "I. The Establishment of the Validity of the α -Haloketone Dispersion Rule for α -Halo-3-Methyl-Cyclohexanones. II. The Synthesis of a Series of Optically Active Aliphatic Carbonyl Compounds for Rotatory Dispersion Studies."
Adviser: Dr. Carl Djerassi

WILLIAM JOEL GNAGEY, B.S. in Educ., 1949, M. Educ., 1953, Wayne State University
Dissertation Title: "The Effects on Non-Target Classmates of a Deviant Student's Power and Response to a Teacher-Exerted Control Technique."
Adviser: Dr. Jacob S. Kounin

ROBERT E. HARMON, B.S. in Chem., 1954, State College of Washington
Dissertation Title: "Glucose-Phosphates (Synthesis and Structure Proof)."
Adviser: Dr. Calvin L. Stevens

EDWARD J. HAVLENA, JR., B.S. in Chem., 1953, M.S., 1955, Wayne State University
Dissertation Title: "A Spectrophotometric Investigation of Selected Complexes of the Periodic Group IIB Elements—Zinc, Cadmium, and Mercury."
Adviser: Dr. David F. Boltz

JACK LAMAR JOHNSON, B.S., 1952, Western Michigan University; M.S., 1954, Wayne State University
Dissertation Title: "I. The Use of Fluoboric Acid for the Determination of Radioactive Cesium in Fission Product Mixtures. II. Determination of Radioactive Cesium in Milk."
Adviser: Dr. Richard B. Hahn

JAMES PETER KUTNEY, B.S., 1954, University of Alberta; M.S. (Chem.), 1956, University of Wisconsin
Dissertation Title: "I. Chemical Studies on Some Rauwolfia Alkaloids. II. Studies on Skyanthus Acutus Meyen. The Structure of Skyanthine."
Adviser: Dr. Carl Djerassi

CANDIDATES FOR GRADUATE DEGREES—Continued

LESTER ALLEN MITSCHER, B.S. in Pharm., 1953, Wayne State University

Dissertation Title: "I. Detection and Stereochemical Implications of Hemiketal and Hemiacetal Formation by Means of Optical Rotatory Dispersion. II. Structural Studies in the Cafestol Series."
Adviser: Dr. Carl Djerassi

MARY LOUISE NEBEL, B.S., 1951, Marygrove College; M.S., 1954, Vassar College

Dissertation Title: "An Investigation of Certain Aspects of the Analytical Chemistry of Pyrophosphate."
Adviser: Dr. David F. Boltz

NICHOLAS VANDERKOOI, JR., A.B., 1953, Calvin College

Dissertation Title: "Mechanism of Bright Electroplating: Laminations and Periodicity in the Deposition of Nickel and Copper."
Adviser: Dr. Dan Trivich

SADANAND VERMA, B.S., 1950, Patna University; M.S., 1952, Bihar University; M.A., 1958, Wayne State University

Dissertation Title: "Relation Between Abstract Homotopy and Geometric Homotopy."
Adviser: Dr. Sze-Tsen Hu

BRADLEY LOUIS WINCH, B.S., 1955, Loras College

Dissertation Title: "The Chemistry of Some α -Hydroxy Acylals."
Adviser: Dr. Calvin L. Stevens

DOCTOR OF EDUCATION

WILLARD A. BENSON, B.S., 1948, M.S., 1949, Stout State College

Dissertation Title: "Measurable and Observable Factors in the Selective Retention of Doctoral Candidates with Special Implications for Industrial Education."
Adviser: Dr. G. Harold Silvius

MORREL J. CLUTE, B.S., 1939, Central Michigan College; M. Educ., 1949, Wayne State University

Dissertation Title: "An Examination and Appraisal of the Wayne State University Program for the Preparation of Core Teachers for Secondary Schools."
Adviser: Dr. Earl C. Kelley

HAROLD STANLEY JASPER, B.S. Educ., 1948, Ed. M., 1949, Temple University

Dissertation Title: "The Relationship Between Two Aspects of Self-Concept and the Initial Student-Teaching Experience."
Adviser: Dr. William W. Wattenberg

PAUL HENRY JONES, B.S., 1939, Central Normal College (Ind.); M. Educ., 1949, Wayne State University

Dissertation Title: "A Follow-up Study of the Graduates and Drop-outs Enrolled in the Highland Park Junior College for the School Years 1953-54 Through 1955-56."
Adviser: Dr. Earl C. Kelley

THOMAS GORDEN KING, B.S., 1946, M.S., 1947, Stout State College

Dissertation Title: "Fundamental Procedures of Research for Industrial Education."
Adviser: Dr. G. Harold Silvius

CARL L. MARBURGER, B.A. in Educ., 1942, M. Educ., 1949, Wayne State University

Dissertation Title: "A Critical Analysis of Selected Research in Perception and Implications for the Teacher's Perception of His Role."
Adviser: Dr. Earl C. Kelley

ALVIN E. MORRIS, B.S. in Educ., 1948, M.S., 1952, Kansas State Teachers College

Dissertation Title: "A Critical Analysis of Types of Quantitative Data Requested by the Professional Teacher Education Accrediting Agency and the Six Regional Accrediting Agencies."
Adviser: Dr. Joseph W. Mengel

CANDIDATES FOR GRADUATE DEGREES—Continued

VAN EARL QUAAL, B.A., 1949, Northern Michigan College of Education; A.M., 1952, University of Michigan

Dissertation Title: "An Appraisal of the Doctoral-Student Instructorship Program in the College of Education at Wayne State University."

Adviser: Dr. W. Ray Smittle

V. GWEN RETHERFORD, B.S., 1937, Eastern Michigan College; M. Educ., 1946, Wayne State University

Dissertation Title: "Developmental Factors in the Kentucky Educational Program for Children with Handicaps."

Adviser: Dr. John J. Lee

BERNICE RAMSEY ROBERTS, B.S. in Educ., 1938, Asheville Normal & Teachers College; M. Educ., 1953, Wayne State University

Dissertation Title: "A Comparison of Teacher Judgements and Multi-Factor Test Scores as Predictors of Pupil Capacity."

Adviser: Dr. Charlotte W. Junge

HUGH EDWARD SARLES, B.S. in Educ., 1940, Northwestern University; M. Educ., 1947, Wayne State University

Dissertation Title: "A Recommended Educational Leadership Development Program Based on a Study of Industrial Management Development Plans and Educational Leadership Programs."

Adviser: Dr. W. Ray Smittle

SCOTT WINFIELD STREET, B.S. in Educ., 1947, Bowling Green State University; M. Educ., 1950, Wayne State University

Dissertation Title: "A Description and Evaluation of Cooperative Curriculum Planning by Staff and Parents at the Andrew Jackson School and the Paul L. Best School, Ferndale School District, Michigan."

Adviser: Dr. Earl C. Kelley

FOR THE MASTER'S DEGREES

MASTER OF ARTS

Frances E. Alatalo
Ashod Rhaffi Aprahamian
Richard Clark Barkley
Alex Baskin
Domitila V. Belena

Stanley Freeman Blount
Warren Lloyd Bowerson
Robert Bentley Burton
Lorraine Colletti
George Fein

James Arthur Gardiner
Virginia W. Gay
Eva Ann Haralson
James M. Higgins
Thomas Henry Higgins

Roger Lee Jackson
Ruth Jeter Jones

Alvin Roy Johnson
Gabriel Klambauer
Jane Frances Koepel
Arnold Lebow
Lenore C. Lewis

Marcos F. Maestre
Harold J. Maleske
Lucille Manoujian
Ronald Eldon Mickel
Paul Peter Morreale

Menekse A. Murguz
Clarence Randall, Jr.
Winifred J. Riach
Leon Orbin Roberts
Herbert E. Ryan

Mary Samarin
Arthur J. Schwartz

Blanche H. Smith
Kathryn Snyder
Evelyn Marion Soronen
Paul John Stobbe
Samuel S. Stollman

Michael M. Tarpinian
Ardacjes Kevork Tchaparian
Birgitta Spring Vance

Sadanand Verma
Tariq Wahbi

Elsa Houston Williams
Harry Thomas Williams
Reginald Wilson
Annetta Wonberger
Anne Tradii York

Mary Lee Youatt

MASTER OF BUSINESS ADMINISTRATION

John Francis Breen
R. Robert Cox
Charles G. Hurst, Jr.
Panikkeretil Louis Joseph

Souren Keoleian
Fortunato Mante y Cifra
George John Morosan
Kenneth N. Popis

Lucille M. Ramsey
Maurice F. Tehan
Albert E. Vosburgh
Robert Weinbaum

MASTER OF EDUCATION

Seymour Isaiah Abramson
George Franklin Adams
Grover Boettner Alber
Paul Dee Anderson
Georgia B. Badgett

Melvin Charles Barnett
Marie Louise Barthel
James O. Bassett
Mary Balsley Baugh
Robert Fischer Beauchamp

John D. Benner
Arthur William Benson, Jr.
Emma Moore Berg
George Dewayne Berger
Leo J. Bigos

William Bishop
Roselyn S. Bloch
Jack Edward Bock
Albert Clarence Bohrer
Walter Joseph Bowers

Miriam T. Bradley
Harold Frederick Bradshaw, Jr.
Stewart A. Brantley
Augusta P. Brockington
Helen Lavon Brown

Mabel Bunn Brown
Merrell J. Buck
William Elroy Buckeyne
Marguerite Bumford
Miriam E. Bunt

George J. Burman
Louise Smoot Cabell
Halina Callahan
Malcolm Gilbert Campbell
Harry Richard Carlson

Robert B. Carlyon
Nora Louise Carr
Charulak Charupat
Victor Irvine Chenault
Doris Graham Cleage

Sarah Marie Coleman
Floyd I. Collinsworth
H. Bernice Freeman Coombe
Raymond Pierson Cougle
Vivian Austin Cozart

Emeral Alexander Crosby
Claude Philip Cunningham
Ellariz Dolores Current
Ann F. Curtis
Frank Vincent Cyburt

Roman Czop
Chester A. Dalski
Robert Philip Davis, Jr.
Hugo F. DeAlteris
Joanne Pamphilis Demetral

Clyde Wayne Dennis
Haiganoosh Michael Deradoorian DePillo
Lester Milton Dewey
Julia Dolores Diduch
Mary Dietz

Jimmy Gerald Drue
Frank A. Duller
James Alan Dunn
Richard James Dunn
Zelda M. Utter Dunn

Joann Dykes
Elsie Linda Erlich
Rosie Evanski
Richard Stanley Fasciszewski
James Samuel Fazio

Gaylord L. Feick
Frances E. Ferguson
Sarah Holland Fox
Aldene M. French
Ivan Edgar Garske

Sally Lou Gartman
Louis W. Geisling, Jr.
William Jay Gephart
Josephine Mary Giacomazza
Sallie Whitsett Gillum

David Leonard Ginsburg
Sister Mary Huberta Goik, C.S.S.F.
George Henry Goodfellow
Richard Gornick
Donald John Gornowich

Elizabeth Indreica Grainger
Lela Mildred Gruner
Marilyn Joan Hall
Nancy Hall
Marlynn C. Hallman

Donald Edward Hansen
Eva Murrell Harmison
Jean Virginia Harpham
James Nathaniel Harris
Vernon H. Haywood

Robert Edward Healy
Donald R. Heberer
James J. Hewitt
D. Patricia Hoedl
Thomas Henry Holmes

Robert F. Hoyer
Irma Hammons Hubbs
Janet Louise Inger
Clyde Leonard Jack
Melvin Seymour Janis

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Evan C. Keliher, Jr.
Dorothy Kendall
Margaret A. Kilts
Richard Delano Kimball

Barbara Hall King
Elaine Yelsik King
Edward Kinnin
Diana Marie Klein
Helen Kobus

Carol A. Kot
Casper Koveleski
Marvin Allen Kreske
Margaret Baird Kuhn
Paul Kulhanjian

Robert Everett Kurvink
Howard C. Lane
Mary Wood Law
Louise Marie Lewis
Leola McDade Ligon

Myra Jane Lind
Margaret Henderson Lockard
Ralph E. MacDonald
Anthony Marra
Ida Mazin

Jennie Ellen McAnsh
Francis X. McGowan
David Leslie McKay
Donald Bruce McMillan
Jane L. McMillan

Ruth Ann McVay
Elaine Swanson McWatt
Demetra Mehas
Effie Young Mitchell
Beatrice G. Morgan

Roy Lee Morgan
Betty Mossburg
Inez J. Mullaney
Hester J. Murchison
Christine Marie Myers

George Curby Newman
Jesse Bernard Nimmons
Jerry Marsh Northcott
Ralph Nuechterlein
Dorothy H. Orrin

Einer A. Osterberg
Dorothy Hayes Overstreet
Virginia Padrick
John Pagen
Jean Macaulay Palen

Gideon Pettway, Jr.
Marjorie A. Pickering
Edwin E. Pieplow
Pollie M. Pinkins
Louis Paul Porretta

Wilma W. Potrude
Romani Puakool
Homer R. Pugh
Pauline Abbott Pylkas
Willard R. Renard

CANDIDATES FOR GRADUATE DEGREES—Continued

Martin Rifkin
Delbert E. Roberts
Katie Bozeman Robinson
Thomas Raymond Rockford
John Edward Rodgers

Allison Moran Roe
Helen Rosko
Visitacion V. Sacro
Patricia Ann Schmitt
Clem E. Seaton

Ever Grace G. Seay
Victoria Dawson Shuler
Gertrude D. Sim
James H. Sites
Bessie Leola Smart

Irene Anita Smart
Alice Perry Smith
Cleo Smith, Jr.
Doris M. Smith
Ella H. Smith

Laverne E. Smith
Patricia J. Smith
Sarah Viola Smith
Banyat Soonsinpai
Sam Soskin

Gloria Rena Soulliere
Robert Wilson Stanley
Shirley Lorraine Stewart
Harold C. Stout
William R. Sturgeon

Tommie Lewis Summerville
Clinton Louis Swinehart
Hugh Gordon Tanner
Gloria Jefferson Taylor
Elaine Rita Teague

Gwili Ford Turner
Robert Orion Turner
Sister Mary Solanus Ufford, I.H.M.
Agnes C. Van Antwerp
Marie J. Vannie

Agnes Vaughan
Elizabeth Nasveschuk Vogler
Cecilia M. Walczak
Walter Clarence Walker
J. D. Webster

Oliver Clayton Weeks
Vera Elizabeth White
Ruth Klein Widrich
Lois Lorraine Williams
Anthony Patrick Witham

Josephine C. Witt
Helen G. Woodruff
Florence M. Yager
Gussie Mann Young
Raymond Allen Young

Carol Jean Zaziski
E. Marguerite Zuber

MASTER OF HEALTH ADMINISTRATION

Farnham Gilbert

Laurel Robert Lundstrom

MASTER OF PUBLIC ADMINISTRATION

Edmund G. Ahrens
Patrick J. Gaffigan

Julian G. Martin

Glenwood Myrl Wilson

MASTER OF SCIENCE

Gordon Frederick Anderson
Paul Carter
Salvatore B. Catalano
Sanat Kumar Dhar
Robert Adolph Fluegge

Nazzareno J. Furiosi
Richard George Hollatz
Richard R. Menard
Gerald Roy Naugle
JoAnn Neely

Frances Shoenfeld
Alfred Lowell Southern
Moshe H. Zirin

MASTER OF SCIENCE IN AERONAUTICAL ENGINEERING

Alex Demetrios Constas

William Paul Glunt

Wellington Weichun Hu

MASTER OF SCIENCE IN CHEMICAL ENGINEERING

Sydney Robert Hall

Basil J. Wasyliw

Gurgen Panbei Zargarian

MASTER OF SCIENCE IN CIVIL ENGINEERING

Clarence Howell Fosler

MASTER OF SCIENCE IN HOME ECONOMICS

Sister Mary Ferdinand Ignatowski, C.S.S.F.

Emma Grace Jones

Sister Mary Consilia Zmuda, C.S.S.F.

MASTER OF SCIENCE IN INDUSTRIAL ENGINEERING

Gerard A. Gauthier
Robert Lien Jones

George Fraser Luckett
Vincent J. Spedale

Eldon Edward Sundberg

CANDIDATES FOR GRADUATE DEGREES—Continued

MASTER OF SCIENCE IN MECHANICAL ENGINEERING

Francis Marion Coffey, Jr.
Roger Lee DeMumbrum

Benjamin E. Moran
Theodore Everett Peterson

Helmut A. Roth

MASTER OF SCIENCE IN MEDICAL TECHNOLOGY

Carole B. Boyd

Margaret Rosine Post

Alice Marie Semrad

MASTER OF SCIENCE IN METALLURGICAL ENGINEERING

Richard J. Fekete

MASTER OF SCIENCE IN NURSING

Sister Mary Rose Anstoetter, R.S.M.
Elizabeth Marie Bear

F. Margaret Nelson
Margaret Pieper
Elizabeth H. Richardson

Janet M. Day
Joan Theresa Riemer
Barbara Joan Schade

Lorrain Lasky

Hazel Clara Shaw

Violet J. Srinivasagam
Lorraine V. Wagner
Mary Virginia Walker
Angela Mary Woebkenberg
Mary Ann Woodward

CANDIDATES FOR THE DEGREE IN LAW**From the Law School**

Arthur Neef, A.B., J.D., Dean

FOR THE DEGREE OF BACHELOR OF LAWS

Emil Edward Cardamone
Abraham Davis
Jesse L. Holliday, Jr.
Donald Thomas Kane

Walter A. Kurz
Don A. Langham
Bernard S. MacCabe, Jr.
Joseph Richard Papp

Alice Rogers Parker
Donald Star
William Robert Still

CANDIDATES FOR UNDERGRADUATE DEGREES**From the College of Engineering**

J. Stuart Johnson, Ph.D., Dean

FOR THE DEGREES IN ENGINEERING**BACHELOR OF SCIENCE IN AERONAUTICAL ENGINEERING**

Bruce Terry Brown

*Tobenette Holtz

*Ronald Eric Polzien

BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING

Ross Alan Case
*Raymond M. Crawford, Jr.
Richard Ward Dettloff
Robert Davis French
Alexander Kargilis

Elden Robert Kucken
Richard Allan Lamparter
Leo Kalevi Lampinen
Donald J. Nieradika
Norman Albert Ott

Ralph J. Puscas
Alan Sheldon Schwartz
James Nixon Steele
Harlan Frank Worden

CANDIDATES FOR UNDERGRADUATE DEGREES—Continued

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

W. Carver Ballard
George Donald Lawrence Burdett
David Michie Burns

Roger Thomas Campbell
James Edwin Fritts, II
Robert Louis Gregory

Ernest E. Koop
William M. Simms, Jr.
Dan N. Toma

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Gordon Ralph Brown
Ronald Goodwin Day
Jerome A. Dysarz
Thomas Edward Lynch
George Augustus Malcolm

Emile Georges Najm
Richard L. Norling

Charles Herbert Olmstead
Louis John Palmer
Donald W. Rees
Anthony James Rossi
Jose Antonio Sanchez

Ernest Robert Schelling
John Joseph Skiragis

Phillip Vernon Smale
Ralph Lawrence Smith
John N. Stewart
Marcel John Tremblay
Angelo A. Vitale

Fred Wendling
Andrew William Zichichi

BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING

Richard Melford Asmus
Robert H. Bowland
Ronald Martin Gabel

*William Hamilton Kildow, III
Arthur Frederick Koester, Jr.
Martin E. Korman

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*In the several colleges and schools of the University where it is customary to recognize outstanding achievement with special notice, an asterisk before a candidate's name denotes attainment of a high scholastic average. The official list of graduates cited for "distinction" or "high distinction" will be compiled subsequently and their diplomas will carry the appropriate notation. This practice is not observed in the College of Education and in the Graduate School.

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ON CAPS, GOWNS, AND HOODS

One of the most colorful features of an academic procession is the appearance of the graduates, the faculty, members of the governing board, and guests of the University in full academic costume. These caps, gowns, and hoods have long histories and their patterns and colors have special significance.

The gown recalls the time when all students in centers of higher learning were clerics, that is, members of the clergy, and therefore wore the garments which the Church considered proper for them.

The custom of wearing a cap comes from the Roman usage of conferring the right to wear a cap upon slaves when they were granted their freedom. At Scottish universities, such as St. Andrews, doctors are created by a ceremony called "capping" in which a cap is placed on their heads.

In modern universities, the distinctive mark of a degree is the hood. In its earliest form, the hood was simply an article of wearing apparel. The churches and lecture halls of European universities were cold, drafty places, so scholars wore hoods merely as head coverings, sometimes attached to a cape, sometimes worn separately.

American universities, unlike those of England and Europe, have adopted a standard code of academic costume. The cut and material of the gown, the color of the tassel on the cap, and the pattern and colors of the hood all have special significance.

Each person who is to receive a degree wears the gown appropriate to the degree to be granted. If he already holds a degree, he wears the hood of that degree, not the one he is to receive.

Bachelors' gowns are closed at the throat and have long, pointed sleeves. Masters' gowns are open in front and have long sleeves, square and closed at the end, the arms coming through slits near the elbow. Doctors' gowns are faced with velvet and have full, round sleeves. Each sleeve carries three bars of velvet, called chevrons.

The most colorful part of the costume is the hood. The color of the lining identifies the university which granted the highest degree held by the wearer. The color of the velvet trim indicates the faculty or department of learning in which the degree was earned.

The following table lists the color appropriate to each of the different branches of learning:

BROWN	FINE ARTS
BLUE-LIGHT	EDUCATION
BLUE-PHILOSOPHY	PHILOSOPHY
COPPER	ECONOMICS
DRAB	BUSINESS ADMINISTRATION
GOLD-YELLOW	SCIENCE
GREEN	MEDICINE
GREEN-SAGE	PHYSICAL EDUCATION
LEMON	LIBRARY SCIENCE
OLIVE	PHARMACY
ORANGE	ENGINEERING
PINK	MUSIC
PURPLE	LAW
SALMON	PUBLIC HEALTH (INCLUDING NURSING)
WHITE	ARTS AND LETTERS

WAYNE STATE UNIVERSITY

COMMENCEMENT



JUNE 11, 1959
COLISEUM

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Rupert L. Cortright, *Marshal*

The soloist is a member of the Wayne State University Concert Choir

The Wayne State University Band under the direction of Angelo M. Cucci

Citations for Honorary Degree Candidates written by Thelma G. James

The marshals and ushers serving during this commencement exercise are undergraduate students of the University

ORDER OF EXERCISES

OVERTURE

Zueignung

Strauss

PROCESSIONAL

The Host of Youth

(The audience is asked to rise as the academic procession enters and to remain standing until the Invocation has been pronounced.)

Guntzel

HYMN TO WAYNE

To thee, our Alma Mater,
Homage we bring.
Brave hearts raise grateful voices
Thy praise to sing.
Young art thou, young and strong;
Renowned shalt thou live, and long;
Honors to thee will throng—
And Fame to thee cling.

We laud thee, Alma Mater,
Guardian of Right.
Thou art our guide, our mentor—
Thy name shines bright.
Keep Learning's light afame,
And hold Truth a sacred name,
Honor, thy steadfast aim.
All hail to thy might!

—Nicholas Stanley Oates '29

THE NATIONAL ANTHEM**INVOCATION**

The Reverend Robert Bruce Pierce, D.D., Metropolitan Methodist Church

FOREWORD

The Honorable Leonard Woodcock, Chairman, Wayne State University Board of Governors

THE CONFERRING OF THE HONORARY DEGREES

Clarence B. Hilberry, Ph.D., L.H.D., LL.D., Sc.D., President of the University

HYMN TO WAYNE

(The audience is requested to rise for the singing of the Hymn.)

DeTar '27

THE CONFERRING OF THE ACADEMIC DEGREES**WELCOME TO THE ALUMNI ASSOCIATION**

Gladys M. Wright, '41, President, Wayne State University Alumni Association

THE AWARDING OF R.O.T.C. CERTIFICATES**DECLARATION OF CIVIC LOYALTY**

Arthur Neef, A.B., J.D., Vice-President and Provost

BENEDICTION

(The audience is requested to rise for the Benediction and to remain standing until the Recessional is completed.)

RECESSATIONAL

University Grand March

Goldman

CANDIDATES FOR HONORARY DEGREES

FOR THE HONORARY DEGREES

Winfred A. Harbison, Ph.D., Vice President for Academic Administration

DOCTOR OF HUMANITIES

FLORENCE GERTRUDE CASSIDY

A.B.

Escort: Professor Louise W. Conklin

Florence Gertrude Cassidy, a native of New York State; graduate of Vassar College and of the New York School of Social Work; she has been, since 1937, Secretary of the Nationality Department of the United Community Services of Metropolitan Detroit.

Honored by the Award of the Detroit Chapter of the National Association of Social Workers, she is also the recipient of the Hearn Social Action Award and has been decorated with the Cross of the Order of Merit of the Federal Republic of Germany.

By official appointment, Secretary of the Michigan Commission on Displaced Persons and Refugees, and the Detroit Committee on Refugees, through her work, the newcomer to this country, brief visitor or homeless refugee, has met with understanding and warmth that have given him a home in a strange land.

In a life-time of service to immigrant groups, she has become one of this country's outstanding leaders in the formulation of immigration legislation, the interpretation of the human needs of refugees, and the effective integration of community resources to meet them. Thus she has contributed to making the priceless gifts of the cultures, energies, and talents of the world's people part of our own rich heritage.

DOCTOR OF LAWS

DEREK ERNEST DENNY-BROWN

M.B.; Ch.B.; Ph.D.; A.M.; M.D.

Escort: Dean Gordon H. Scott

Derek Ernest Denny-Brown, a native of New Zealand; a graduate of Oxford University, Member and Fellow of the Royal College of Physicians; since 1946, he has been James Jackson Putnam Professor of Neurology in the Medical School of Harvard University, and Director of the Neurological Research Unit of the Boston City Hospital.

For more than thirty years, he has served as lecturer, consultant, and research director for the hospitals, medical schools, and military medical commissions of England, India, and the United States. Author of a hundred papers and three standard texts in the physiology of the nervous system, neuropathology, concussion, and the histology of peripheral nerves, he is recognized as the leading neurological scientist of the world. By their recent choice of him as President of the American Neurological Association, his colleagues have confirmed this judgment.

An inspiring and effective director of research projects, he has trained many of the world's leading scientists in modern neurological techniques; by his penetrating insights and brilliant deductions, he has broadened the concepts and pioneered in exploring new techniques in neurological research. This work has laid the foundations for an advancement of knowledge rarely matched in the career of any scientist in modern medicine.

HAROLD WILLIAM HANLEY BURROWS

Escort: Dr. George A. Kopp

Harold William Hanley Burrows, a native of Canada; a student at Hamilton and at Harbord Collegiate; a Certified Public Accountant, former Comptroller of the State of Michigan; he is now Vice-President, Administration, and Member of the Board of Parke, Davis and Company.

In a business career of nearly forty years, he has served as Chief Fiscal Officer for many different organizations: The Salvation Army in Japan, the United Nations Relief and Rehabilitation Administration in China, the United States Army (Fiscal Division, War Department), the Reconstruction Finance Corporation in Washington, and Parke, Davis and Company.

A lively civic conscience has directed his many years of leadership for the United Community Services of which he is Past President, and the United Foundation which he serves as Director and Committee Member.

As the Government of the United States acknowledged its obligation to this adopted son with the Legion of Merit Citation in 1945, now Wayne State University, as spokesman of this community, the fortunate beneficiary of his selfless dedication and continuing concern, is pleased to recognize the rich contribution made by his life and work among us.

CANDIDATES FOR GRADUATE DEGREES

From the Graduate Division

Lloyd Allen Cook, Ph.D., Vice President, Graduate Division

FOR THE DOCTOR'S DEGREES

DOCTOR OF PHILOSOPHY

JOHN CAMBUS, A.B., 1952, M.A., 1953, Wayne State University

Dissertation Title: "The Modern Greek Approach to the Training, Formal and/or Informal, in Public Address."

Adviser: Dr. Rupert L. Cortright

SHIRLEY I. DOBIE, A.B., 1954, M.A., 1956, Wayne State University

Dissertation Title: "The Role of Exploratory and Learned Drives in Human Learning: Reinforcing Effects of Novel and Familiar Stimuli with Two Levels of Motivation and Two Levels of Task Difficulty."

Adviser: Dr. Gerald Rosenbaum

DONALD T. FORMAN, B.S., 1953, Brooklyn College; M.S., 1957, Wayne State University

Dissertation Title: "I. Calcium-45 Deposition During Induced Atherosclerosis and the Effects of Magnesium Ion and Ethylenediamine-Tetraacetic Acid on the Manifestations of the Disease in Aorta, Liver and Bone. II. A Study of Arterial Phosphorus During Experimentally Induced Atherosclerosis."

Adviser: Dr. Albert J. Boyle

ROBERT CARL FRANK, B.A., 1950, St. Olaf College; M.A., 1952, Wayne State University

Dissertation Title: "The Diffusion of Hydrogen in Single Crystal Germanium."

Adviser: Dr. J. Earl Thomas, Jr.

ALBERT L. FURBAY, A.B., 1953, Taylor University; M.A., 1955, Wayne State University

Dissertation Title: "A Descriptive Study of the Influence of the Physical Arrangement of the Audience upon Response to a Speech."

Adviser: Dr. George V. Bohman

JAMES LOWELL GRISELL, A.B., 1948, M.A., 1949, Wayne State University

Dissertation Title: "The Role of Meaning in the Mediated Generalization of Avoidance Behavior."

Adviser: Dr. Gerald Rosenbaum

MAX FREDERICK SCHULZ, A.B., 1949, M.A., 1950, University of Pittsburgh

Dissertation Title: "The Voices of Coleridge's Poetry: A Study of the Desire for Spontaneity and the Rage for Order."

Adviser: Dr. A. Dayle Wallace

ROBERT DEWAIN SEELEY, B.S., 1950, M.S., 1951, Texas College of Arts and Industries

Dissertation Title: "Sorptions of Water, Alcohol and Water-Alcohol Vapors by Crystalline Egg Albumin."

Adviser: Dr. Wilfried Heller

CANDIDATES FOR GRADUATE DEGREES—Continued

LOUIS SUCHESTON, Bachelor's Equiv., 1945, University of Cracow; Diploma-Licencie es Sciences, 1952, University of Paris, Sorbonne
Dissertation Title: "On Intersections of Measurable Sets."
Adviser: Dr. George Lorentz

MORTON L. WALLACH, B.S. in Chem., 1955, Wayne State University
Dissertation Title: "The Determination of Size Distribution Curves by Light Scattering and Related Investigations."
Adviser: Dr. Wilfried Heller

AHMAD HASSAN WARDI, License in Chem. 1951, Higher Teachers Training College, Baghdad, Iraq; M.S., 1954, University of Michigan
Dissertation Title: "The Analytical Chemistry of Hafnium and Zirconium."
Adviser: Dr. Richard B. Hahn

DOCTOR OF EDUCATION

LILLIAN JANE CASSIE, B.A., 1935, Carleton College; M.A., 1943, Wayne State University
Dissertation Title: "An Evaluation of Opportunities in Music Education in the Preparation of Elementary School Vocal Music Teachers at Wayne State University."
Adviser: Dr. Lynn Nicholas

SISTER MARIE SIENA CHMARA, O. P., B.S., 1946, Siena Heights College; M.S., 1951, University of Michigan
Dissertation Title: "Personal and Social Adjustment in Coeducational and Separate Catholic Secondary Schools."
Adviser: Dr. William Reitz

WILLARD FOX, B.S. in Ed., 1947, Southeast Missouri State College; M.A., 1952, University of Wyoming
Dissertation Title: "An Economic Index of County Ability to Support Education in Michigan."
Adviser: Dr. W. Ray Smittle

SISTER M. ANN THOMAS GRIFFIN, O. P., B.S., 1939, Siena Heights College; M.S., 1940, University of Michigan; M.A. in Religious Guidance, 1952, Providence College
Dissertation Title: "The Congruence of Behavioristic and Psychoanalytic Schools of Psychology with the Thomistic Concept of Human Nature, and the Implications for Guidance and Counseling Practices in the Catholic School."
Adviser: Dr. Mildred Peters

MARY ALTHEA KRIDER, A.B., 1927, University of Nebraska, Ed.M., 1940, University of Oklahoma
Dissertation Title: "A Comparative Study of the Self-Concepts of Crippled and of Non-Crippled Children."
Adviser: Dr. John Lee

DAVID C. MAGAW, A.B., 1934, Calvin College; A.M., 1935, University of Michigan
Dissertation Title: "Criminal Antisocial and Inadequate Personalities—A Clinical and Psychometric Comparison."
Adviser: Dr. William Reitz

CANDIDATES FOR GRADUATE DEGREES—Continued

WILFRED R. SMITH, A.B., 1948, Wayne State University; A.M., 1950, University of Chicago
Dissertation Title: "A Normative Study of Desegregation in Public Education—A Crisis of Meanings in Culture."
Adviser: Dr. August Kerber

PAUL JAY VOSKUIL, A.B., 1942, Central College, Iowa; M.S. in Educ., 1947, Drake University
Dissertation Title: "Desirable Features of a Public School Transportation Insurance Program (For the State of Michigan)."
Adviser: Dr. Harlan Hagman

FOR THE MASTER'S DEGREES

MASTER OF ARTS

Irma Abelman
Mohammed Amanullah
Bernard Charles Anderson
Ralph Clayton Baxter
Dorothy M. Birnbryer

David Cason, Jr.
Clare Knight Clifford
Charles Cameron Conley
Albert Charles Daas
Horst S. Daemmrich

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Pablo DeGracia y Pacis
Robert John Ferguson
Pelayo H. Fernandez
Virginia B. Fox

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Margaret Watts Gitlin

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Nellie Mae Varner

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John E. Titus
Robert J. Tomes

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Albert Peat Walker
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Verona W. Williams

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Robert David Marcy
Edwin Everett Nelson

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Margaret Georgena McDougall

Marie Nicole Verdier

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Philip Patrick Crimmins

Richard P. Sernka

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School of Social Work

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Rosary Ann Carney
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Vitold V. Gardian
Fred Godin

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Betty Talifero
Barbara Wright Tilley
Valentina Trops

Milton Weiner
Doris Mudgett White

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From the Law School

Arthur Neef, A.B., J.D., Dean

FOR THE DEGREE OF MASTER OF LAWS

M. Burns Stanley

FOR THE DEGREE OF JURIS DOCTORS

Jackie L. Banycky
James Moritz Baysinger
Jerome Bennett Bernstein

H. Donald Garfinkle
Ray Calvin Hotchkiss
Maurice Kelman

Richard Frederick Nahabedian
Douglas McCheyne Philpott
Ronald Stuart Weiner

FOR THE DEGREE OF BACHELOR OF LAWS

George Baditoi
Robert A. Barrett
George Joseph Bedrosian
Gerald Benjamin
Melvin Sheldon Bernstein

Martin Ira Bierman
Jack Herbert Bindes
Roger Bruce Boerema
Robert Graham Boyd
*Lewis Clifford Brown

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Edward Charity

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Nathan George Conyers
Donald David Cook
Joseph Findling
Bernard Joel Firestone

Richard J. Francis
James D. Frink
Mary Ann Fulton
Shirley Marie Gagnon
Robert R. Garey

William Cornelius Ghesquiere
Allan William Gilbert

Arthur Rennie Goussy
Ernest Robert Grant
*Lee Edwin Halsey
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*John August Hilgendorf

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Robert Gerrie Hodges
**Harold Hood
Montague R. Hunt
Francis Muir Huxley

Leo Samuel James
Duane Robert Jasper
William Ralph Jewell
**George Kalinski
Abdo Raymond Kalliel

John George Kelly
Joseph Terrell Kelly, Jr.
Jack L. Koblin
William S. Koepke, II
Nick P. Krust

Herbert O. Magnusson
Earl Seymour Mandel
Seymour Hertzel Mandell
*Malcolm Conrad McIntire
Frederick Arthur Nobis

Anthony P. Peters
James Philip Plath

*Harvey Price
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Wilfred Carlmond Rice
Donald Howard Richards
James Joseph Rostash

Sanford Roth
Richard I. Rubin
Julian J. Schamus
Leonard M. Scharf
*Virginia Louise Schmier

Thurston O. Shreves, Jr.
Milton Silverman
Murray Charles Slomovitz
*Robert David Stalker
Lawrence R. Sukenic

Achilles James Tarachas
Leonard Tyk Teicher
**Robert Montgomery Thrun
Paul Alter Tisdale
Leonard Townsend

Stanley John Walson
Richard Guerin Ward
Stanley Merle Weingarten
Grady Williams
**Arthur H. T. Yim

Chester Otto Zellers

From the College of Medicine

Gordon H. Scott, Ph.D., Dean

FOR THE DEGREE OF DOCTOR OF MEDICINE

Duane M. Allen
Lloyd Stanley Anderson
*Forrest Jerome Arnoldi
Thomas Lewis Banks
Jack Louis Barry, Jr.

Bernard Weiss Bigley
Earl Dalton Black, II
Alfred Perry Bowles
James William Brough
Jack K. Burr

Sheldon N. Capp
Alvin H. Clair
James Arnold Cook
Larry Gilroy Dickson
Edward Carson Dorsey

Robert Lewis Eggleston
Paul Feldheim
Nathan Samuel Firestone
Lawrence O. Garber
Donald Gordon Gerard

John Gianetti
Sylvester Gilbert, Jr.
Philip Rutherford Glotfelty, III
John Griz
Gerald Lee Groat

Phyllis Anne Harrison
Harold Jay Hommerson
Lanny Leo Johnson
Robert H. Johnson
Cyril David Jones

CANDIDATES FOR DEGREES IN LAW AND MEDICINE—Continued

Anthony Kales
Robin Samuel Key
George P. Kyros
Allan Jay Levine
Ann M. Lewicki

*John Hanson Libcke
Walter C. Livingston, Jr.
Henry Britell Lowsma
David Markel
Carl E. Marusak

Eustathios G. Metopoulos
Thomas Francis Moore

John Sullivan Moran
Stanley Raymond Olszyn
Leonard M. Pickering
Earl Jerome Rudner
Louis Carl Samberg

Norman T. Samet
William H. Schock
Herman Manuel Schornstein
Leonard Schwartz
Allen Shuster

David M. Silverstein
Stephen Philip Sniderman

Alan Jerome Sorscher
Jerome Stevens
William James Stevens
William Joseph Taylor
*Robert James Thompson

Thomas D. Tierney
Thomas Stedman Torgerson
Robert Sidney Underhill
Warren Earl Wolfe
*Edward John Zaleski

William Gilbert Zimmerman
Norman Zucker

CANDIDATES FOR UNDERGRADUATE DEGREES

From the College of Engineering

J. Stuart Johnson, Ph.D., Dean

FOR THE DEGREES IN ENGINEERING

BACHELOR OF SCIENCE IN AERONAUTICAL ENGINEERING

Henry Peter Delladio
Mindaugas L. Gilvydis

Henry Conrad Kowalski
Robert A. Murray

William A. Stevens
Irena Dorothy Szkrybalo

BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING

Ross Alan Case
William A. Crozier
Richard J. Galluch

Thomas A. Knurek
George Lawson Mattatall, Jr.
*Max Richard Mendelson

Donald J. Nieradka
Donald Edward Sussex
Harlan Frank Worden

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

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Gerald Thomas Hummel
Muqid Kashou
*Gerald Paul Lahti

Gordon Handley Marion
William Everett Minnie
Gerald Lawrence Rewers
Edward Robert Stewart

Harry Jay Wasson
Robert Melvin Watson
Richard Arthur Wright
*Ernest Frederick Karl Zuschlag

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Nick G. Koklanaris
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Victor Mitchnick
Emile Georges Najm
Jack Donald Nixon

Matthew Emmanuel Kritikos

Leonard Julius Paciorek

Harold Nelson Reid
*Arthur Gilbert Silver
Frederick James Trulson
Demetrius P. Tsipouras
Joseph Frank Ziomek

BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING

Thomas Francis Adams
Robert Ernest Boughner
*Alexander Cechanowicz

William John Grant
Richard G. Gross
Roy Bruce Johnson

John Albert Kaeler
John Michael Soltesz
Victor Ronald Warren

BACHELOR OF SCIENCE IN ENGINEERING MATHEMATICS

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John Challis
Walker Lee Cisler
Stuart Appleton Courtis

Avery Odelle Craven
Elizabeth Caroline Crosby
Selden Bennett Daume
Joseph Morrell Dodge
Percival Dodge

Frank Dwight Eaman
Martha May Eliot
Lawrence Kelso Frank
Eugene Bradley Elliott
John Richard Emens
Fred Christian Fischer
James Harold Foote
John Battice Ford
Ferdinand F. W. Friedenburg, III
Frank Aloysius Gorman

William Thomas Gossett
Gertrude Lockwood Grawn
Edgar Albert Guest
Delmar Sherrille Harder
Paul Ramsey Hawley

David Dodds Henry
Edward John Hickey
Sister M. Honora
Icie Macy Hoobler
Henry Schoolcraft Hulbert

Ormond Edson Hunt
Eleonore Louise Hutzel
Ira Waite Jayne
Harry Francis Kelly
Mervin J. Kelly

William Kline Kelsey
Sebastian Sperling Kresge
Arthur Frederick Lederle
Donald Sparling Leonard
William Godfrey Lerchen

Dean McAllister Lierle
Robert Hill MacRae
Charles Henry Mahoney
Benjamin Raymond Marsh
Samuel Lyman Atwood Marshall

Frederick Carl Matthaei
Ruth Morgan McEvoy
Douglas Murray McGregor
Robert Raynolds McMath
Harvey Milton Merker

Catherine Morgan
Jack Andrew Morton
Harry Monroe Nelson
Allan Nevins
Chester William Nimitz

William John Norton
Louise Webber O'Brien
Paul Paray
Albert Henry Poetker
Milo Milton Quaife

Chad Joseph Raseman
Walter Philip Reuther
Lawrence Reynolds
Edgar Preston Richardson
George Rieveschl

Harry Milton Robins
George Wilcken Romney
Grace Ross
Alexander Grant Ruthven
Emilie Gleason Sargent

Ralph Alanson Sawyer
Leonard Andrew Scheele
Karl E. Schmidt
Amos Ramsey Shields
William Adams Simonds

Charles Casper Simons
Leonard Norman Simons
Charles Albert Sink
W. McKay Skillman
William John Stapleton

Anne Campbell Stark
George Washington Stark
Mary Chase Stratton
Adolph Gustavus Studer
Edson R. Sunderland

Frank Owen Taylor
Edith Rhett Tilton
Robert Morrell Toms
Mildred Lucille Tuttle
Ralph Adrian Ulveling

Harold Clayton Urey
James Keir Watkins
Oscar Webber
Richard Hudson Webber
John Hugh Webster

Lee A White
William Whitcomb Whitehouse
Alfred Heacock Whittaker
Charles Erwin Wilson
Benjamin E. Young

RECIPIENTS OF THE AIR FORCE CERTIFICATES

From the Air Force R.O.T.C.

Max C. Burky, Lt. Col., Professor of Air Science

FOR THE CERTIFICATES

Robert W. Cain

Donald A. MacDonald

Demetrius P. Tsipouras

The appearance of a name on these lists is presumptive, but not conclusive evidence of graduation.

ON CAPS, GOWNS, AND HOODS

One of the most colorful features of an academic procession is the appearance of the graduates, the faculty, members of the governing board, and guests of the University in full academic costume. These caps, gowns, and hoods have long histories and their patterns and colors have special significance.

The gown recalls the time when all students in centers of higher learning were clerics, that is, members of the clergy, and therefore wore the garments which the Church considered proper for them.

The custom of wearing a cap comes from the Roman usage of conferring the right to wear a cap upon slaves when they were granted their freedom. At Scottish universities, such as St. Andrews, doctors are created by a ceremony called "capping" in which a cap is placed on their heads.

In modern universities, the distinctive mark of a degree is the hood. In its earliest form, the hood was simply an article of wearing apparel. The churches and lecture halls of European universities were cold, drafty places, so scholars wore hoods merely as head coverings, sometimes attached to a cape, sometime worn separately.

American universities, unlike those of England and Europe, have adopted a standard code of academic costume. The cut and material of the gown, the color of the tassel on the cap, and the pattern and colors of the hood all have special significance.

Each person who is to receive a degree wears the gown appropriate to the degree to be granted. If he already holds a degree, he wears the hood of that degree, not the one he is to receive.

Bachelors' gowns are closed at the throat and have long, pointed sleeves. Masters' gowns are open in front and have long sleeves, square and closed at the end, the arms coming through slits near the elbow. Doctors' gowns are faced with velvet and have full, round sleeves. Each sleeve carries three bars of velvet, called chevrons.

The most colorful part of the costume is the hood. The color of the lining identifies the university which granted the highest degree held by the wearer. The color of the velvet trim indicates the faculty or department of learning in which the degree was earned.

The following table lists the color appropriate to each of the different branches of learning:

BROWN	FINE ARTS
BLUE-LIGHT	EDUCATION
BLUE-PHILOSOPHY	PHILOSOPHY
COPPER	ECONOMICS
DRAB	BUSINESS ADMINISTRATION
GOLD-YELLOW	SCIENCE
GREEN	MEDICINE
GREEN-SAGE	PHYSICAL EDUCATION
LEMON	LIBRARY SCIENCE
OLIVE	PHARMACY
ORANGE	ENGINEERING
PINK	MUSIC
PURPLE	LAW
SALMON	PUBLIC HEALTH (INCLUDING NURSING)
WHITE	ARTS AND LETTERS