103rd COMMENCEMENT

WASHINGTON UNIVERSITY

NINE-THIRTY O'CLOCK, MONDAY MORNING, JUNE THE EIGHTH, 1964
The Alma Mater

Dear Alma Mater,
Thy name is sweet to me.
Our hearts are all for thee,
    Fair Washington.
Thy halls shall honored be
Throughout this great country
For all eternity,
    Our Washington.

Those days of youth which
All of us spent with thee
Form a dear history,
    Fair Washington.
Could they renewed be,
Wè'd live our days with thee
For all eternity,
    Our Washington.

A Note on Academic Dress

The academic dress worn by Faculty and candidates indicates the degree held, the subject in which it is held, and the institution granting it. Gowns are of three kinds: the Bachelor's, with full, pointed sleeves, hanging open; the Master's, with flowing sleeves which hang below the opening at the wrist; the Doctor's, with very full sleeves gathered at the wrist. The gowns are black, although occasionally trimmed with colored velvet; the hoods, on the other hand, are of many colors. The color of the lining of the hood indicates the institution granting the degree: e.g., the hood of Washington University is lined with red and green. The color of the tassel on the cap and of the velvet edging of the hood, carried forward around the throat, indicates the faculty or major department:

- White—Arts, Letters, Humanities
- Orange—Engineering
- Lilac—Dentistry
- Drab—Business
- Dark Blue—Philosophy
- Brown—Fine Arts, Architecture, Interior Design
- Golden Yellow—Science
- Purple—Law
- Green—Medicine
- Pink—Music
- Citron—Social Work
- Light Blue—Education

Gold tassels and black tassels, when worn, indicate degree rather than faculty or major department. Thus gold indicates the Ph.D. degree and black indicates the Master's degree.

Academic dress markedly different from the above description indicates a degree from a foreign university.
Order of Exercises

Academic Procession

Ceremonial Music .................................................. Purcell
Voluntary in D major ................................................ Boyce
Rigaudon ............................................................... Campra

Howard Kelsey, University Organist

The National Anthem

Invocation

THE REVEREND AMOS RYCE II
Pastor, Lane Tabernacle Christian Methodist Episcopal Church and
President, The Metropolitan Church Federation of Greater St. Louis

Announcements

JAMES SMITH McDONNELL
Chairman of the Board of Directors

Address

RICHARD PURDY WILBUR
Professor of English, Wesleyan University

Conferring of Degrees
Presentation of Commissions

THOMAS HOPKINSON ELIOT
Chancellor of the University

The Alma Mater

Benediction

THE REVEREND AMOS RYCE II

Recessional

Marche ................................................................. Tombelle

The audience will please remain seated while the academic procession enters the Auditorium. At the conclusion of the ceremonies, the audience will remain seated until the procession has left the Auditorium.
THE COLLEGE OF LIBERAL ARTS

The Following Candidates Will Be Presented By
DANA OLAF JENSEN, A.M., Associate Dean

BACHELOR OF ARTS

Candidates—June 8, 1964

Franklin Barry Abrams
Carol Sue Adell
Dorris Wood Adler
Martha Jane Alexander
Andrew James Allentuck
Barbara Catherine Allhoff
Stephanie Jane Anthony
Anastasia H Arger
Gay Armstrong
Nancy Lee Baer
Alan Jeffrey Baker
Carla Lee Bahr
John William Baker
Neal Wallin Baker
Robert Allen Baker
Thomas George Banjanin
Naomi Ruth Barenberg
Richard Bruce Barickman
summa cum laude
William Ray Barker
Eugene Lloyd Barr
Mark Samuel Barr
Carla Mueller Bascom
magna cum laude
Beverly Anne Beitch
Karen Joy Bender
Steven Robert Bender
Barbara Benkof
Clarice Lynn Benger
John Michael Bennett
cum laude
Howard Benist III
Gordon Sedgwick Black
Rafaela Bloch
Leslie Block
Doris Holland Blumoff
Kenneth Herbert Bohm
Edmund Blair Bolles, Jr.
Joyce Lee Brannon
Richard Alan Branstey
Phyllis Jo brassfield
Stephen Hughes Braun
Fred Robert Brinkop
Michael Charles Brown
Robert Michael Bruce
Robert Forrest Buscho
Robert Myron Buxner
Paul Kendall Caldwell
Bruce Livingston Canaga III
Robert Malvern Capstick
Carol Edna Carlson
Christine Carroll
Charles Douglas Cary
magna cum laude
Jimmie Don Cash
Robert Timothy Chasson
Mary Nelle Clemons
Jimmie Heatley Close
Carol Lake Coffey
Phillip Alan Cohen
Stephen Usher Cohen
summa cum laude
Sarah Jo Coleman
Sharon Arst Cooper
Alan Paul Covich
cum laude
Mary Ellen Cross
Alvin Sanford Crystal
Deanna Adele Davezzi
Nancy Alice Dappert
Carol Berger Dardick
Henry James Davidson, Jr.
cum laude
Deanna Louise Deerr
Dorothy Marie de la Puente
cum laude
Frederick John Denckhoff, Jr.
Janice Dobinsky
Barbara Ann Dolva
Caroline Princell Drennan
Barbara Jane Druker
Yvette Drury
cum laude
Ellen Sachs Dubinsky
Louise Katherine Duenke
Nancy Jane Early
Barbara Jo Eaton
Steven Robert Edelstein
Ellia Eugene Edmonds
Marion Bonnie Egol
Judith Rachel Elson
Geneva English
Marcia Ruth Erlich
Ronald David Fairshet
Henry Anthony Fanger III
Elaine Feist
Beverlee Jean Feld
Katherine Lillian Feller
Theodore Richard Fiedler
cum laude
Roberta Ann Fierman
Susan Jane Finegold
Barron Lee Finer
Marilyn Eileen Fishman
Cassandra Maurine Flippin
James Michael Ford
Doris Bertha Forst
Sandra Kay Fox
Lawrence Leopold Fraenkel
Ronald Lee Freeman
Adele Sara Funk
Jennie Furr
Ellen Joy Gershon
Michael Howard Gilberg
Jeanette Andreu Glaenzer
Ben Golinsky
cum laude
Richard Melvin Goldberg
John Samuel Goldsmith
Barbara Cerf Goldstein
Sara Golde Goldstein
James Stephen Goldwasser
Thomas Stuart Goldwasser
Margaret Brady Grantham
Elliott Jack Green, Jr.
Jan Schonwald Greenberg
Carolyn Lee Greene
Suzanne Alsop Greene
Mimi Hazel Haggerty
Edith Hais
Jean Elizabeth Halliday
Judy Kay Hanes
June Karen Hargis
magna cum laude
Barbara Ann Harris
Carol Jean Harris
William Jefferson Harrison
Barbara Jean Hawthart
David Charles Hautzsch
Patricia Ann Hayward
Melinda Smith Heiberg
Margaretta Helm
Christina Gruning Hembree
Candace Susan Henderson
Barry Alene Hendin
summa cum laude
Suzanne Dell Hendrix

James Thomas Henke
Carole Glade Henry
Dennis Clark Hirschenfelder
Patricia Dianne Hoelsener
Jacquelyn Loretta Holmman
Ruth Frances Holzwarth
Evelyn Owen Hopewell
Daniel Bisell Horner
Barry Horwitz
Carol Jacobs
Marlene Rae Jahrs
summa cum laude
Laura Kahan
Phyllis Irene Kahan
cum laude
David Barry Kahn
cum laude
Richard Ellis Kamermer
Marcia Carolyn Kamps
Nancy Ann Kaufman
Nancy Suzanne Keefer
Sherwin Lee Kruger
daryl Dee Kessler
Karen Jean Kiefer
Wiley Price Kirk, Jr.
Linda Rae Kleshman
Eleanor Williams Klein
Virginia Lee Knight
Daniel Martin Krueske
Mary Ann Koverly
Sharon Lynne Kromer
Elinor Lee Kruger
magna cum laude
William Radcliffe Kunes
Gary Milton Kupperle
Harriet Sonenschein Lander
magna cum laude
Jerrold J Landes
Ridgely Elime Lange
Ronald Lee Lawson
cum laude
Leland Michael Laycob
Judith Orson Lee
Barbara Jeanne Leonard
Alan Francis Leritz
Howard Ira Lopin
Alice Nettie Licht
Sarita Lief
Peter Edward Lindvall
Harriet Ann Lipert
Richard Leroy Lonergan
Susan Frances Loomstein
Joan Marie Lowry
Ruth Virginia Lucas
Marcia Ann Luetschsechwan
Barbara Jane Lusky
JoAnna MacConnell
Mary Susan Malik
Jo Ellen Mallin
Thomas Owen Mann
Daniel Frank Marcus
Martha Jane Marshall
Dorothy Mary McEvily
Thomas Meade McKitterick
Linda Earle Meckfessel
Allan Lawrence Metzger
Sandra Meyer
Lawrence Martin Millner
Edward Louis Morris
Barbara Carole Multack
William Joseph Murphy, Jr.
Elen Louise Naidorf
Reba Jane Neukom
summa cum laude
William Leonard Newcomb
Samuel Jaccard Nichols
Randall Hampden Niehoff
Peggy Rae Nodiff
Carole Jean Noxon
Dorothy Jane Ogivy
Mary Anne Andrei Gransky
Peter Ivan Ostroff
Morton Allen Factor
Robert George Paul
Joseph Gander Pfeffer
Abraham Manuel Phillips
Nathaniel George Whitenl Pieper
Carol Jane Poc
Jan Prager
Linda Kathryn Rahm
summa cum laude
Mohammad Ramahian
Beverly Ann Reinholtz
John Francis Remley
Judith Sharon Resnick
Jane Frances Retting
Harvey Reznick
Betty Louise Rice
William Morrison Robinson, Jr.
Margaret Jane Roemer
Elizabeth Meng Rogers
Frances Gail Rosen
Marietta Rosenbloom
Maddynn Schwartz Rosenschein
Barbara Kay Ross
Marcia Sue Rothschild
Richard David Rubenstein
Betty Ann Rubin
Adrienne Merle Rudman
Harvey Rudolph
Melanie Elizabeth Rueter
Elaine Janet Sachan
Richard Stuart Sander
Neil Schechter
Mary Ann Scheffer

Robert Edward Schlesinger
summa cum laude
Ronald Harold Schmidt
Lucy Morell Schmizt
Arthur Joshua Schneider
Jean Helene Schneider
Sara Diane Schneider
Dale Ruth Schoenbeck
Debra Schwartz
Karen Rochelle Schwartz
Harriet Barbara Schwartzberg
Virginia Lee Schwieder
Rita Ellen Scissors
Susan Scott
David Nichols Scollar
Evelyn Martha Seelig
Bonnie Eileen Segall
Larry Selden
Gary Howard Shanker
Keith Salisbury Sheppard
Lynn Joyce Silverman
Susan Ray Simonds
Chiqaia Rose Simpson
Judith Gwen Singer
Richard Allen Skop
David Charles Smith
magna cum laude
Karen Susan Smith
Sandra Lee Smith
Port Vero Smithen, Jr.
Steven Paul Smolev
Martin Karl Sneider
Eunice Leann Solem
Sara Lee Solov
Ernest Philip Soper
summa cum laude
Stephen Parke Soule
Maxine Spector
Sally Blair Specker
Albert Arnold Sprague

Awarded January 27, 1964

Jehuda Peter Abraham
cum laude
Gay Judith Ackerman
cum laude
Eve Lynn Armour
Carmen Avila
Lydia Long Baer
Barbara Florence Berg
Hudson Bradley Binnington, Jr.
Marina Theodorovna Bliss
Susan Kresner Boxerman
Barbara Sue Britton
Bruce Albert Chadwick
cum laude
Phyllis Jean Chazen
Gary Michael Corbett
cum laude
Pamela Joy Cytron
Eva Judith Rezek de Gospodinoff
Doris Mae Diamant
Ruth Joyce Dunham
Joan Carole Fairbank
cum laude
Mae Ellen Feldman

Robert John Gallick
Bette Lea Goldstein
dolores Helen Huttner
Joe Edward Jeffress
Ronia Fayie Kahan
Susan Eise Katz
Pamela Ann Knostman
Paula Gadeby Meyerhardt
Lenore Maura Miles
Sandra Elaine Morris
James Clark Myers
Evelyn Luusfelfd
Marlyn Borhoff Nioefoff
William Benjimen Norris III
David Shai Olander
Diane Ruth Porter
David Paul Privinsky
Caryl Ann Reed
Dianne Heller Robertson

Awarded August 30, 1963

Judith Welder Bannett
Jeanne Isabel Squires
Jennifer Lucille Baugh
summa cum laude
Barbara Jean Baun
Risa Ellen Steinberg
Janet Freid Bern
Jane Gesche Streihiman
David Ewart Blank
Linda Jane Stuart
David Arthur Bridger
Stephanie Jocie Sumin
Di Anne Kay Brodersky
Judith Ann Sutter
Joyce Harriet Bromberg
Claudia Anne Swartz
Kenneth Harris Bromberg
Stanley Eay Tamarkin
Clarence Butler
Morgan Jerome Tamsky
Bonnie Cassett
William Dailey Tancill
Cherryl Reginalda Christensen
Robert Frederick Tate, Jr.
Eva Judith Rezek de Gospodinoff
Patricia Ann Teper
Judith Yvonne Eakin
Lynne Rogers Turner
Carol Patricia Ferguson
David Michael Urey
Richard Lee Jeffress
Eve Lynn Armour
Elaine Margaret Virga
David Arthur Bridger
Frances Goldenberg Wallas
cum laude
David Ewart Blank
cum laude
Judith Yvonne Eakin
Diane Kay Brodersky
Richard Arthur Abraham
Robert Heins
Evelyn Lee Ackerman
Rita Jean Kragler
Judith Yvonne Eakin
David Arthur Bridger
summa cum laude
<table>
<thead>
<tr>
<th>Harvey Jay Matlof</th>
<th>Franklin George Nieberg</th>
<th>Louis Francis Slapshak, Jr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Linda Gallop Matlof</td>
<td>Don David Price</td>
<td>Kurt Henry Studt</td>
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<tr>
<td>Barbara Jean McBride</td>
<td>Mary Frances Prince</td>
<td>Raymond John Svonavce</td>
</tr>
<tr>
<td>Jacqueline Jepsen McLellan</td>
<td>Nancy Charlene Queenan</td>
<td>Frank Lutz Thompson, Jr.</td>
</tr>
<tr>
<td>Mohamed Amine Mesli</td>
<td>Don Arthur Rockwell</td>
<td>James Lewis Wetzel, Jr.</td>
</tr>
<tr>
<td>Joyce Emily Metcalfe</td>
<td>John Ward Salmon, Jr.</td>
<td>Jerome Wayne Wilkaitis</td>
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<tr>
<td>Mohamad Hossein Mir-Sepasi</td>
<td>Barbara Cronbach Scarl</td>
<td>Judith Ann Wise</td>
</tr>
<tr>
<td>Harry Mittelman</td>
<td>Margery Anne Shaw</td>
<td>Joyce Mae Wood</td>
</tr>
<tr>
<td>Joan Alice Mohrman</td>
<td>Janet Octavia Siebel</td>
<td>Stephanie Anne Wotka</td>
</tr>
<tr>
<td>Lisa Anne Moyer</td>
<td>Andrew Simon</td>
<td>Harold Milton Zager</td>
</tr>
</tbody>
</table>

**BACHELOR OF SCIENCE IN EDUCATION**

Candidates—June 8, 1964

<table>
<thead>
<tr>
<th>Carole Joyce Barta</th>
<th>Barbara Ann Myers</th>
<th>Carol Ellis Roberts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nancy Jane Fendell</td>
<td></td>
<td>Boyd Leon Shelton</td>
</tr>
</tbody>
</table>

Awarded January 27, 1964

Arnold Gordon Edwards

**BACHELOR OF MUSIC**

Candidates—June 8, 1964

<table>
<thead>
<tr>
<th>Charles Frederick Fligel</th>
<th>Barbara Leah Shapiro</th>
<th>Nancy Kay Stice</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aidy Nelle Grim</td>
<td>Jerry Clark Smith</td>
<td><em>cum laude</em></td>
</tr>
</tbody>
</table>

Awarded January 27, 1964

Doris June Lewis

Awarded August 30, 1963

Diane McCullough

Leo Charles Reiser
THE SCHOOL OF ENGINEERING
The Following Candidates Will Be Presented By
DONALD ALBERT FISCHER, B.S.E.E., LL.B., Dean

BACHELOR OF SCIENCE IN ARCHITECTURAL ENGINEERING

Candidates—June 8, 1964

John Augustus Meisch

Awarded August 30, 1963

Michael Edwin Werner

BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING

Candidates—June 8, 1964

Berl Glen Bays
Terry George Breeding
Frederick Chait
Charles Floyd Davis, Jr.

George Alexander Balsam
David Eugene Bruns

Awarded January 27, 1964

Awarded August 30, 1963

Thomas Louis Haber
William Henry Longston, Jr.
Earl Paul Simburger
John Robert Welker

Robert Kenneth Voigt
William Monroe Rinehart

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

Candidates—June 8, 1964

Donald Irvin Angelbeck
Kenneth Woodrow Axetell, Jr.
John David Booth
Charles William Braig, Jr.
Gary Glynn Crader
Charles Baker Cunningham III

Robert James Green

Awarded January 27, 1964

Awarded August 30, 1963

Mylo Arthur Pearce

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Candidates—June 8, 1964

Paul Culver Banks
Gordon Lee Bergman
Rhea Wiley Bockhorst
Ronald Neal Compton
James Raymond Dawdy
Richard Woody Ford
Charles William Fox
Lincoln Aketomo Furuya
Faiz Jabouri Ghazoul
Charles Thomas Gilpin

Ronald Harvey Burch
James Ronald Cluster
John Peter Holmes, Jr.
Terrence Charles McMahon

Awarded January 27, 1964

Awarded August 30, 1963

Stanley Donald Goldring
Harvey Ray Holliday
James Gerald Huffman
Lindell Carroll Jinkerson
James Foster Jordan
Theodore Ralph Kaly
Daniel Kamm
Kenneth Mark Kessler
Kenneth Joseph Krupp
Daniel Jay Landiss
Benjamin Ivory McNairy

George Lids

Awarded August 30, 1963

Lindsay Lloyd Pickens
Burton Ellis Shickman

Mylo Arthur Pearce

Charles Leroy Shoff
Charles George Weber
BACHELOR OF SCIENCE IN ENGINEERING SCIENCE

Candidates—June 8, 1964

Merrill Kenneth Bauer
Thomas Conroy Berkeley
George Louis Bockwinkel
Robert William Brinker
Allen Claude Endres
Norman Phillip Erber
Dewalt William Fowler
Philip Jerome Harris
Dale Curtis Hogue
William Darrell Hoskins
Donald Louis Joseph
Lee Charles Kreh
Edward Levinson
William Peter MacMann
Frederick Wilson McCoy, Jr.
Edgar Louis Moore, Jr.
John Douglas Orms

David Martin Ostfeld
Donald Wayne Paule
John Howard Qualls
Sheldon Harlan Schumaker
Steven John Staufscher
David Israel Steinberg
William Dennis Wacker
Robert Gene Waters
Arthur Karl Whitney

Awarded January 27, 1964

Bernard Douglas Aims
David Allen Haeckel

Donald John Nemec
William Harry Shee
Robert Morris Sternberg

Awarded August 30, 1963

Fred Wendell Bauer

Charles Martin Obermeyer
Kenneth Wayne Schaar

BACHELOR OF SCIENCE IN GEOLOGICAL ENGINEERING

Candidate—June 8, 1964

Thomas Oren Early

BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING

Candidates—June 8, 1964

Richard William Bardach
Alan Lee Barrick
Ralph Denny Samuel
Marc Semanoff

Theodore Lewis Sincoff
Victor Suroff

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

Candidates—June 8, 1964

Robert Joseph Arnzen
Robert Edwin Bakula
John Russell Biddle
Raymond Edward Lange, Jr.
Andrew Edward Lindberg
Robert Charles Schikore

William Harold Smith
Lowell LuVerne Stein
John William Thau, Jr.

Awarded January 27, 1964

John Robert Barbic
Paul Alfred Noltensmeyer
Sudhir Chimanlal Shah

Guillermo van Hoorde

BACHELOR OF SCIENCE IN METALLURGICAL ENGINEERING

Candidates—June 8, 1964

Bernard Bloom

Wesley Walter Verges

BACHELOR OF SCIENCE IN PHYSICS

Candidates—June 8, 1964

Richard Van Evera Lovelace

Robert George Roosen
THE HENRY EDWIN SEVER INSTITUTE OF TECHNOLOGY

The Following Candidates Will Be Presented By
GUSTAV KURT MESMER, PH.D., Director

MASTER OF SCIENCE

Candidates—June 8, 1964

IN APPLIED MECHANICS
Channing Wallace Godbold, B.S.M.E., Washington University
Raymond Pittman, Jr., B.S., University of Illinois; M.S.C.E., California Institute of Technology
Charles Roger Wells, B.A., Southern Illinois University

IN AUTOMATIC CONTROL
John Bernard Berger, B.S.E.E., Washington University
Edward Allan Gabris, B.S.E.E., Washington University
Russell Winfred Johnson, Jr., B.S.M.E., Washington University
Albert Frank Ruehl, B.S.E.E., Washington University

IN CHEMICAL ENGINEERING
Jack Drew Ehrhardt, Jr., B.S.Ch.E., Northwestern University
Charles Hilliary Wells, B.E., Vanderbilt University

IN ELECTRICAL ENGINEERING
Hikmet Bari, B.S.E., The University of Michigan
Richard Howard Glazer, B.S.Engr.Phys., Washington University
Jerome Lee Krasner, B.S.E.E., Washington University
Robert Joseph Mulholland, B.S.E.E., Washington University
Robert Ozment, B.S.E.E., Washington University
Kenneth Ray Thompson, B.S.E.E., The University of Texas

IN ENGINEERING ANALYSIS AND OPERATIONS RESEARCH
Gene Louis Kiernan, B.S.I.E., Washington University
Donald Clay Kirkpatrick, B.S.M.E., Washington University; B.S.E.E., ibid.
Carl Herbert Marting, Jr., B.S.Engr.Sci., Washington University
Paul Lee Taylor III, B.Ch.E., Georgia Institute of Technology

IN ENVIRONMENTAL AND SANITARY ENGINEERING
Richard Arthur Barttelbort, B.S.C.E., Washington University
James Henry Dougherty, B.C.E., Manhattan College
Allen Herman Schwartzburt, B.S.C.E., University of Missouri School of Mines and Metallurgy

IN INDUSTRIAL ENGINEERING
Louis William Hart, Jr., B.S.I.E., University of Arkansas

IN METALLURGICAL ENGINEERING
Homer Constantine Tourkakis, B.S.Ch.E., Washington University

Awarded January 27, 1964

IN CHEMICAL ENGINEERING SCIENCE
Darwin Albert Novak, Jr., B.Ch.E., Cornell University

IN ELECTRICAL ENGINEERING
Clifford Randolph Holland, B.S.E.E., Washington University
Robert Edward Kaufman, B.S.E.E., Saint Louis University
Ralph Stephen Mueller, B.S.E.E., Washington University
Philip Conway Munro, B.S.E.E., Washington University

IN ENGINEERING ANALYSIS AND OPERATIONS RESEARCH
Roy Eugene McKinney, B.S.E.S., Washington University

IN ENVIRONMENTAL AND SANITARY ENGINEERING
Carl C Hartman, B.C.E., University of Dayton

IN INDUSTRIAL ENGINEERING
Roger Wilfrid Lechtenberg, B.A., Quincy College; B.S.M.E., Marquette University
Ronald Joseph Mogavero, B.S.E., The University of Buffalo
IN MATERIALS SCIENCE
James Clement Blome, B.S., University of Illinois

IN MECHANICAL ENGINEERING
Paul Edward Bauer, B.S.M.E., Washington University
Ranjee Dutt, B.M.E., University of Calcutta
Leo Joseph Manda, B.S.M.E., Washington University
Donald Leslie Mattox, B.S.Ed., The University of Nebraska; B.S.M.E., ibid.

MASTER OF ENGINEERING ADMINISTRATION
Candidates—June 8, 1964
Paul Joseph Brown, B.S.M.E., Washington University
John Kenneth Carpenter, B.S.Ch.E., University of Missouri School of Mines and Metallurgy
Norman Foster, B.S.E.E., Washington University
Lee Sherman Ginz, B.S.E.E., Washington University
Dennis Lee Kessler, B.S.I.E., Washington University
Alfred Henry Knebel, B.S., University of Illinois
Calvin Liss, B.S.E.E., Washington University
John William Lodkenkamer, B.S.Met.E., Purdue University
John Ames Mullendorf, B.S., University of Oklahoma
George Lazar Palcheff, B.S.M.E., Washington University
Emil Struharik, B.S.I.E., Bradley University
Ronald Joseph Swofford, B.S., University of Illinois
Walter Francis Wagner, B.S.E.E., Purdue University
Theodore Raymond Wahlmann, B.S.E.E., Washington University
Eugene Joseph Zehr, B.S.E.E., Washington University

Awarded January 27, 1964
Ronald Melvin Dahman, B.S.I.E., Washington University
James Edward Harward, B.S.E.E., University of Illinois
Eugene Richard Moyes, B.S., Tri-State College
John Marvin White, B.S.Ch.E., University of Arkansas

DOCTOR OF SCIENCE
Candidates—June 8, 1964
IN AUTOMATIC CONTROL
James Clark Bowers, B.E., Vanderbilt University; M.S., University of Tennessee
Title of Thesis: Optimum Analogue and Digital Attitude Control Systems for Space Vehicles
Mogthal Ramachandrasastry Chidambaram, B.S.C., Central College;
B.E., Engineering College; M.Sc., Indian Institute of Science
Title of Thesis: A Method of Determination of State Variables for Known Plants

IN CHEMICAL ENGINEERING SCIENCE
Carl George Hagberg, B.S.Ch.E., University of Cincinnati
Title of Thesis: Dynamic Response Characteristics of Fixed-Bed Reactors
Dwight Theodore Lohkamp, B.S.Ch.E., Washington University
Title of Thesis: Surface Reactions on Polyethylene Film Due to Corona Discharge Treatment

IN ENVIRONMENTAL AND SANITARY ENGINEERING
George Robert Arnold, B.Ed., Southern Illinois University; M.S., University of Illinois
Title of Thesis: Local Inversions, Air Currents, and Smoke Pollution in Cahokia Bottom
Roscoe Fredrick Ward, B.A., The College of Idaho; B.S., Oregon State College;
M.S., Washington State University
Title of Thesis: Organic Fouling of Strongly Basic Anion Exchange Resins

IN MECHANICAL ENGINEERING
William Leo Amminger, Dipl.Ing., Technische Hochschule
Title of Thesis: Investigation of Regenerative Turbine: Analysis, Design,
and Evaluation
Jurg Rolf Scheuner, Dipl.Ing., École Polytechnique de l’Université de Lausanne
Title of Thesis: A Birefracting Fluid Tunnel for Fundamental Flow Investigations

Awarded January 27, 1964
IN APPLIED MECHANICS AND STRUCTURES
Wilhelm Karl Kubitzka, Dipl.Ing., Institute of Technology of Darmstadt
Title of Thesis: Stress Analysis of Gridwork Models Using the Moiré Method

IN AUTOMATIC CONTROL
William Joseph Westerman, Jr., B.E., Vanderbilt University; M.S., ibid.
Title of Thesis: An Inexpensive Retrofit Application of Numerical Control
IN CHEMICAL ENGINEERING SCIENCE
Don Eugene Carter, B.S.Ch.E., University of Missouri; M.S.Ch.E., North Carolina State College
Title of Thesis: Continuous Gas Chromatography
Ronald Edward Hamilton, B.Sc.Ch.E., University of Saskatchewan; M.Sc., ibid.
Title of Thesis: Dynamic Response of a Continuous Stirred Tank Reactor

IN ELECTRICAL ENGINEERING
Robert Oscar Gregory, B.S.E.E., University of Missouri School of Mines and Metallurgy; M.S.E.E., Washington University
Title of Thesis: Accurate Electronic Time Measurement

IN MECHANICAL ENGINEERING
Arthur Edwin Whitney, Jr., B.S.M.E., Washington University; M.S., ibid.
Title of Thesis: The Horizontal Cylinder in Laminar Free Convection

THE SCHOOL OF ARCHITECTURE
The Following Candidates Will Be Presented By
JOSEPH RUSSELL PASSONNEAU, B.ARCH., M.S.C.E., Dean

BACHELOR OF SCIENCE IN ARCHITECTURAL SCIENCES
Candidates—June 8, 1964
Roger Elmer Edwin Becker
Warren Clifford Boeschenstein, B.A.
Robert Otto Dethloff
Thomas Joseph Eckelman
Craig Gordon Eppes
Glenwood Leigh Garvey
Gary Smith Glenn

John Ely Hausner
John Donald Heimbaugh
Bruce Sibbald Houghton
Donald Vincent Keane
Hanan A Kivett
Ross Kramer
Jimmy Lloyd Lambeth
Anthony Emmet Layton

Barry Ellis Bannett
Jordan David Colbert

David Keller Mack
Larry Alan Sauer
Thomas Barry Schraudenbach
Gerald Lynn Stephenson
Gary Allen Unger
Mark Alan Viets
James Lippincott Wick III

Awarded January 27, 1964
John Eugene Farbry, Jr.

Awarded August 30, 1963
Alan David Friedman

BACHELOR OF ARCHITECTURE
Candidates—June 8, 1964
Alan Lew Appel, B.S.Arch.S.
John Charles Corrough, B.S.Arch.S.

Peter Herlihy Green, B.A.

Awarded January 27, 1964
Jaime Alonso Barreto

Awarded August 30, 1963
Donald George Glatz

Navinchandra Kasturbhai Patadia

MASTER OF ARCHITECTURE AND URBAN DESIGN
Candidates—June 8, 1964
John Gerald Borrego, B.Arch., University of California
Ramesh Chander Khoela, Nat’l, Dipl. in Arch., All India Council for Technical Education
Chin P’ai, B.S., Taiwan Provincial Cheng Kung University
Alex Richard Posse, Jr., B.Arch., Miami University
Roger Michael Seitz, B.Arch., University of Idaho
Humayun Rahim Somjee, B.Arch., Middle East Technical University; M.Arch., ibid.
### BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION

**Candidates—June 8, 1964**

<table>
<thead>
<tr>
<th>Names</th>
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<tbody>
<tr>
<td>Martin Jay Aronson</td>
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<tr>
<td>Fredda Lynn Ash</td>
</tr>
<tr>
<td>Ewing Milton Bailey, Jr.</td>
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<tr>
<td>Benjamin John Barranco</td>
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<td>Peter Ralph Bartling</td>
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<tr>
<td>Ronald Alan Becker</td>
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<tr>
<td>John Leslie Beerensson</td>
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<tr>
<td>Donald Chester Bernstein</td>
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<tr>
<td>Bettina Rose Bono</td>
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<tr>
<td>Michael Theodore Bottom</td>
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<tr>
<td>David Dean</td>
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<tr>
<td>Charles Donald Dersey</td>
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<td>Ronald Stephen Duke</td>
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<td>Steven Eveloff</td>
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<td>Kenneth Wayne Finn</td>
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<td>Robert Charles Fisher</td>
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<td>Robert Neil Fuller</td>
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<td>Thomas Vincent Galdabini</td>
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<td>Lawrence Allen Gelb</td>
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<td>Jerome Lewis Gidlow</td>
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<td>Michael Norman Gomez</td>
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<td>Thomas Roy Harter</td>
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<td>John Adam Hartwig, Jr.</td>
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<td>Paul William Hatz</td>
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<td>Edward Hottes Hollman</td>
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<td>Allen Thomas Huenfeld</td>
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<td>John Robinson Hundle III</td>
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<td>David Stewart Hyman</td>
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<td>Alvin Conner Jones</td>
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<td>Jane Adele Keckers</td>
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<td>Roger Lee Koch</td>
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<td>Edward Lee Koenig</td>
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<td>David Stanley Komise II</td>
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<td>James Edwin Landau</td>
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<td>Richard Bentley Laytin</td>
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<td>Frank Moore Leyhe</td>
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<td>Steven Z. Marglous</td>
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<td>Edward Wollerman Martin</td>
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<tr>
<td>Lorraine Churchill Matthews, Jr.</td>
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<td>John Kerom Morrical</td>
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<td>Raffaele Morrone, Jr.</td>
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<td>Charles Martin Mosby</td>
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<td>Richard Charles Nieman, Jr.</td>
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<td>James Michael Parker</td>
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<td>Marvin Polinsky</td>
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<td>Richard Hollis Pulver</td>
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<td>Herbert Meredith Ross, Jr.</td>
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<td>Patricia Ann Russell</td>
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<td>Daryl Lamon Schanche</td>
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<td>Bonnie Rae Schroeder</td>
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<td>James Neil Schwartz</td>
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<td>Richard Arthur Schworm</td>
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<td>Fred Steven Seigel</td>
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<td>Lewis Edwin Tonopolsky</td>
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<td>Sandra Virginia Wetterau</td>
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</tbody>
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**Awarded January 27, 1964**

<table>
<thead>
<tr>
<th>Names</th>
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<tr>
<td>Michael Edward Becker</td>
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<td>Allen Howard Blake</td>
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<td>Ira Ganzler</td>
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<td>Stephen Alan Green</td>
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<td>Jean Lynn Hoffman</td>
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<td>Donald Ray Overbeck</td>
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<td>Kenneth Clark Schowe</td>
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<td>Thomas Lee Shipton</td>
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<td>John Lamar Vogelsang</td>
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<tr>
<td>Donald Edwin Westerhold</td>
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<tr>
<td>Donald Woesten Zelle</td>
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</tbody>
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**Awarded August 30, 1965**

<table>
<thead>
<tr>
<th>Names</th>
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<tbody>
<tr>
<td>George Millard Hoefer, Jr.</td>
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<tr>
<td>Mary Ann Holliday</td>
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<tr>
<td>Graham Vance Kirk</td>
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<tr>
<td>Robert William Mauro</td>
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<tr>
<td>August Frederic Ottinger, Jr.</td>
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<tr>
<td>Albert Lawrence Schulte</td>
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<tr>
<td>Emmett Jacob Senn, Jr.</td>
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<tr>
<td>Gary Lee Sprouse</td>
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<tr>
<td>Marcos Tsoumaras</td>
</tr>
<tr>
<td>Ronald Allen Yeates</td>
</tr>
</tbody>
</table>

### BACHELOR OF SCIENCE IN RETAILING

**Candidate—June 8, 1964**

Roger Allan Beckermann

### MASTER OF BUSINESS ADMINISTRATION

**Candidates—June 8, 1964**

Hubert Edward Anderson, B.S. in C., Saint Louis University

Archie Moore Bankston, Jr., B.A., Fisk University; LL.B., Washington University

Mark Samuel Barr, A.B., Washington University

Raymond Anthony Baum, B.S., University of Illinois

William Robert Bellharz, B.S.Bus., University of Kansas

Amanallah Mohamed Ben Amor, B.S.B.A., Washington University

Paul Alfred Richard Beyreuther, A.B., Washington University

Arthur Charles Dalo, Jr., B.S., Saint Joseph’s College

David Ross Denzer, B.S.M.E., Lafayette College

Charles Edward Elbert, B.A., Quincy College

Jan Garland Gilbert, B.S.E.E., Washington University

Jack Grossman, B.S., Washington University

Thomas Logan Holling, B.S.B.A., Washington University

John Walter Hungerford, B.S., Saint Louis University

Elmer George Koestner, B.S.B.A., Washington University

Patricia Jean Konert, B.A., Maryville College of the Sacred Heart

Donald Leo Krieg, B.S.B.A., Washington University

Donald Dean McDonald, B.S.B.A., University of Missouri

Frederick Davis Meloan, B.S.E.E., Washington University

Richard Allen Menke, B.S.B.A., Washington University

Louis Robert Merz, B.S.I.E., Washington University

George Joerg Mesmer, A.B., Washington University; B.S.E.E., ibid.

Badreddine Badra Messaoudi, B.S.B.A., Washington University

Jesus Joseph Miguel, B.S.A.E., University of Notre Dame

Alan Robert Miller, B.S.Ch.E., Washington University

Byrle Arthur Northup, B.S.Ch.E., State University of Iowa

Michael Louis Posen, B.S.B.A., Washington University
Robert Arthur Praechter, B.S.B.A., Washington University
Abderrahman Robana, B.S.B.A., Washington University
Conrado Bautista Santiago, B.S.B.A., Mapúa Institute of Technology
Harvey Emmet Schulte, B.S.Ch.E., University of Missouri School of Mines and Metallurgy
William Dailey Tancill, A.B., Washington University
John William Westhause, B.S.B.A., Washington University

Awarded January 27, 1964

Robert Perry Barnidge, B.S., Saint Louis University
Mohamed Ben Amar, B.S.B.A., Washington University
Jerry Don Boswell, B.S.B.A., Washington University
Robert David Gersten, B.S.B.A., Washington University
Charles Albert Gibbs, B.S., Washington University
Louis Arthur Gilmore, Jr., A.B., Georgetown University
Paul Richard Hoeft, B.S.B.A., Washington University
Wilkins Conrad Howe, Jr., B.S., Bob Jones University
Larry Alan Rushkin, B.S.B.A., Washington University
William Francis Lynch, Jr., B.S.Ret., Washington University
David Jerome McLaughlin, B.S.B.A., Washington University
Charles Henry Murray, B.S., Washington University
Robert Jay Rosendorn, A.B., Boston University
Herbert Taylor Thurau, B.S., Culver-Stockton College
Robert Charles Wood, B.S.B.A., State University of South Dakota

Awarded August 30, 1963

Grover Craig Shropshire, B.S., United States Naval Academy
Jack Edward Stafford, B.S. in Agr., Purdue University
Robert George Stevens, B.A., Elmhurst College

MASTER OF SCIENCE IN BUSINESS ADMINISTRATION

Candidate—June 8, 1964

Donald Gene Farley, B.S.M.E., Washington University

Awarded January 27, 1964

George Aloysius Feyerabend, B.S.M.E., University of Missouri School of Mines and Metallurgy
Kenneth Burke Goodner, B.S.Ch.E., Rice Institute; B.A., ibid.

DOCTOR OF BUSINESS ADMINISTRATION

Candidates—June 8, 1964

Donald Gene Frederick, B.S.Bus., Indiana University; M.B.A., ibid. Title of Thesis: An Evaluation of Bayesian Decision Theory in the Solution of a Pricing Strategy Problem

Awarded January 27, 1964

UNIVERSITY COLLEGE

The Following Candidates Will Be Presented By
EARNEST SILAS BRANDENBURG, PH.D.,
Dean

BACHELOR OF SCIENCE

Candidates—June 8, 1964

Ronald Earl Abramson
Clifford John Adamski
Billy Carlton Allen
Henry Francis Alsobrook
Fred John Applegate, Jr.
Walter Joseph Archibald
David Fryar Arnold
Jack Lee Baldwin
Norman Caro Barohn
Fred Kirby Bauer
Margaret Mabel Bender
Jona Ben-Zvi
Frank Vincent Biondo
Adams J. Black, Jr.
William Shelly Black, Jr.
William Graham Bornefeld
James Robert Brown, B.S.Agri.
Francis Xavier Buckley
George Henry Budde, Jr.
Thomas A. Buhr
William Matthew Chopp
Richard Dale Clark
Russell Dean Ealey
William Graham Eberhardt
John Frank Henny
George Seward Hubbell
Franklyn Bernard Hupperts
Martha Jean Jensen
Charles Aubrey Johnston
Mary Agnes C. Jones
Thomas Charles Killoren
Carl Joseph Kimmel
Robert Jack Klein
Britton Kilgore Knight
Harold Walter Koerper
George Hopkins Krieger
Richard Leo Levis, Jr.
Harry Lee Lignoul
James Dale Little
Richard Loraine
Adam Clarke Mahaffy III
Donald Dale Martin
Dallas Clinton Matthews
Frank Elza McGraw
Sally Jo Menke
Carol Lee Merlotti
Mary Alice Minney
John Bernard Nelson
Arthur Joseph Ogle
Michael William O'Reilly
Jerrold Barry Packman
Carlton Don Panhorst
Charles Edward Perich
Benjamin Leon Phillips
Raymond Anthony Pokoski

Awarded January 27, 1964

Forrest Chester Hardin, Jr.
Peggy Bahneisel Hellman
John Oscar Hichew, Jr.
Joseph Patrick Hopkins
Jo Ann Jennings
Richard Lee Johnson
Russell Ronald Jost
Edward Francis Lind
John David Meinerhagen
Hamden Damen Mepham
Donald Omer Merz
Edgar Louis Metzger

Awarded August 30, 1963

Henry Louis Griesedieck III
Gary Alfred Halls
William Mathew Hindle
William Darrell Hoskins
Henry Cowell Huitt
Robert Louis Kirkpatrick
Benny Kizze
Harry Boris Londoif, Jr.
James Edward Loomis
James Richard McGovern
John Eugene McNicholas
Ramon Edward Millard, Jr.
Gerald Harold Moeller
Robert Louis Murray
Elizabeth Knapp Newton
Christopher Edward Nienmann

Eugene William Pollen
George Frederick Ralph, Jr.
Jane Fulton Reeves
Gregory Amelia Reimke, Jr.
Victor John Reinke
Everett Thayer Reniker
Robert Lee Roberson
Ralph Alan Rundle, B.S.Geol.Engr.
William Louis Ruprecht
Clark William Russell, Jr.
Marcus Frazier Sauls, Jr.
Bill Joseph Scheller
Betty Virginia Schramm
Richard Ernest Schmitz
Martha Louise Schutz
Donald William Shollar, B.S.G.S.
Richard Milton Sklar
Peggy Lynn Sneary
Joe Neely Stephenson
Carole Lee Stone
Robert Arthur Stunkel
Bert Irvin Sweeney
James Edward Taylor
Everett Alexander Teare, Jr.
Robert Lee Thomas
William Alfred Thomure
Charles Thomas Thurston
Adam Joseph Ulrich
Anthony Lester Urban
Donald Edwin Waldemer, B.S.B.A.
Robert G. Walther
Frederic Stecher
Norton M. Sterneck
Lawrence Alan Strecker
Russell Edward Sutter
Eugene Harry Thomas
Marvin Brater Montgomery
Leo Emil Naliborski
Alva R. Nicolay
Paul Walter Reimitz
David Anthony Reiter
Robert Jesse Roehrs
Homer Charles Schumacher, Jr.
Robert Allen Sipp
Jon Frederic Stecher

Alexis Donahue Bell
Dennis Charles Benassi
Vincent Bert
Edward David Bremer
Fred Ellsworth Brown, Jr.
Nicholas Milton Brown
Frank Harrel Bush
Ellen Mae Cook
Don William Crohn
Wallace Fred Dittrich
Richard Hoaglund Dowd
John Vernon Effert
George William Fenimore
Glenmore James Funk
Helen Louise Gates

Dale Wayne Peimann
Samuel Douglas Reed
Yoshioide Sato
Larry Lee Schmidt
Eugene C. Sobocinski
Royce Wyand Sykes
Carol Sullivan Taibert
Phoebe Ann Thomason
Martin John Taft
Drexel Hubbard
Helmut Otto Tutsa
Richard Russell Wauck
Raymond Charles Wagner, Jr.
John Anthony Weiss
Dorothy Elizabeth Weyrauch
BACHELOR OF SCIENCE IN EDUCATION

Candidates—June 8, 1964

Beverly Michelle Baruchman
Helen Christine Cheesebrough
Mary Sue Hay Clark
Eleanor Bernice Fleer
Carolyn Mary Fredrick
Susan Glaser
Louise Sue Goldsmith
Lessie Jane Hahn

Violet Marie Hansell
Herbert James Harre
Lois Diane Levin
Rhea Gay Lundmark
Lawrence Patrick O'Neil
Margaret Ann Patton
Barbara Jean Pike
Betty Louise Pollak
Jordan Charles Rehm
Larry Joe Reynolds

Awarded January 27, 1964

Robert Conrad Beatty
Robert Edmund Benben
Jane Petersen Chambers

Madelyn Blaich Cross
William Robert Dietrich
Lula Mae Edmonds

Awarded August 30, 1963

Owney Estes Adams
Verna Lea Adams
Robert Edwin Althage
Terry David Baumann
Sonya Elaine Berk
Bobby Gerald Bibb
Marianne Caddell
Manon Catherine Cleary
Shirley Jean Cleary
Joyce Christina Engert
Lynn Brewster Esterlund
Oliver Bernard Fancher
Carol Ann Fleischmann
Theodore Philip Fox
Fern Gilbert
Gloria Bea Goldberg

Lee Lamar Francis
Lawrence B. Gardner
Margaret Frances Grayum
Anne Margaret Groat
Harry Randall Holloman
Emily Ann Holloway
Thomas Joseph Huddleston
Barbara Ann Karavolas
Andrew Koman, Jr.
Mary Frances Lewis
Nancy Jo Linn
Jeane Claire Lotz
Rester Carpenter McInnis
Anne Marie Medley
Francis Xavier Morrison
Constance Subin Mundale

THE SCHOOL OF FINE ARTS

The Following Candidates Will Be Presented By
KENNETH EUGENE HUDSON, B.F.A., Dean

BACHELOR OF FINE ARTS

Candidates—June 8, 1964

Philip Clay Agee IV
Robert Edwin Althage
Terry David Baumann
Sonya Elaine Berk
Bobby Gerald Bibb
Marianne Caddell
Manon Catherine Cleary
Shirley Jean Cleary
Joyce Christina Engert
Lynn Brewster Esterlund
Oliver Bernard Fancher
Carol Ann Fleischmann
Theodore Philip Fox
Fern Gilbert
Gloria Bea Goldberg

Judith Ann Greene
Georgia Cocke Guyot
Eldridge Hardie
Aviva Ruth Holland
Judith Francia Horn
Susan Adeline Johnson
Judy May Just
Elizabeth Beck Karges
Patrick Martin Kennedy
David Albert King
Lois Davie Lincofs
Raymond Andrew Mangin
Sarah Elva McBryde
John Loba McConnell, Jr.
Muriel Jean Noltes

Awarded January 27, 1964

Mary Kerth Lindahl
Michael N. Schreiber

Awarded August 30, 1963

Kathleen H. Harrington
Sandra Lee Pankewer

JoAnne Smith
Nancy Elizabeth Whiffen

Mary Anne Nordhoff
Judith Ann Perlman
Jean Doris Pollack
Linda Kayes Recker
Babette Hilda Schmierer
Paul Daniel Schult
Paul Jay Shank
Hayes Allen Shaw, Jr.
Jennifer Ann Smith
Patricia Ann Teves
Elizabeth Ross Wadsworth
Linda Sue Waldman
Dorothy Jane Wildish
Deborah Rachael Wilson
Sheila Helene Zwillenberg

Natalie Harriet Weinberg
THE GEORGE WARREN BROWN SCHOOL OF SOCIAL WORK

The Following Candidates Will Be Presented By
WAYNE VASEY, M.A., Dean

MASTER OF SOCIAL WORK

Candidates—June 8, 1964
Karen Elisa Bakke, B.S., Lewis and Clark College
Helen Elizabeth Banta, B.A., Valparaiso University
Lois Wheeler Bell, B.A.Ed., Central Washington College of Education;
M.A., The State College of Washington
Mary Reiss Bewig, A.B., Oberlin College
Tommie Florence Brown, B.A., Dillard University
Marilyn Ruth Dannacher, B.A., Elmhurst College
Nancy Anne Dehner, A.B., Millikin University
Hanni Edinger, B.A., Michigan State University
Floyd Bruce Flowers, B.A., Gustavus Adolphus College
Ralph Larry Fullwood, A.B., San Jose State College
Richard Leland Gambrill, A.B., Earlham College
Robert Earl Geller, A.B., University of Missouri
Josephine Alves Gerding, A.B., Hollins College
Julia Ose Grose, B.A., Augsburg College
Laura Capen Guy, A.B., Washington University
Frank Arthur Hall, A.B., Antioch College
Kenneth Clifford Halvorson, B.A., Augustana College
Francis Newton Harris, B.S., Illinois College
Robert Louis Heinsius, B.S., Washington University
Janyce Elayne Helgeson, B.A., Gustavus Adolphus College
Christian Edward Hinz, A.B., Muhlenberg College
David Harold Hoxworth, B.A., Southern Illinois University
Patricia Maddox Jeans, B.A., Kansas State College of Pittsbug
Kenneth Lauren Johnson, B.A., Macalester College
Peter Martin Kettner, B.A., Valparaiso University
Katherine Duffield Kingsbury, A.B., Mount Holyoke College
Thomas Theobald Laws, A.B., Southwest Missouri State College
Marion Corwin Lester, A.B., William Jewell College
Sylvia Estelle Lohkamp, A.B., Washington University
Harland Wayne Magneson, B.A., Concordia College
Michael James McMullen, B.S., Moorhead State Teachers College
Louise Ann Meister, B.A., St. Olaf College
Robert Clare Mitby, B.A., University of Minnesota
Gladys Cornelia Mollison, B.A., University of Toledo
Edith Lowe Parker, B.A., Lincoln University
Ronald Lester Pohle, A.B., Washington University
Geraldine Ramey, B.A., University of Arkansas
Evelyn Smith Ritter, B.A., University of Wisconsin
LeRoy George Schultz, B.S., Washington University
Jane Liliet Sheligren, B.A., State University of Iowa
Eugenia Lee Shrader, A.B., University of Missouri
Marjorie Roberts Steere, B.A., Parsons College
Judy Kopp Strassner, B.A., Brandeis University
Helen Faulkner Teer, B.S.Ed., Southern Illinois University
Ray L Unterbrink, B.S.Ed., Nebraska State Teachers College
Ruth Ann Wiederaenders, B.A., Valparaiso University
Mary Lou Ann Wilharm, B.S., Colorado State University

DOCTOR OF SOCIAL WORK

Candidates—June 8, 1964
Donald Wheeler Cole, A.B., University of Rhode Island; M.S., Boston University
Title of Thesis: A Study of Administrative and Demographic Factors Thought to Influence the Length of Wait for Service in Psychiatric Clinics for Children
Ronda Sue Connaway, A.B., Anderson College; M.S.W., Washington University
THE SCHOOL OF LAW

The Following Candidates Will Be Presented By
HIRAM HENRY LESAR, A.B., J.S.D., Dean

BACHELOR OF LAWS

Candidates—June 8, 1964

Lawrence Askinosie, A.B.
Joseph Albert Bohrer, A.B.
Robert Jon Bopp, B.A.
James Stuart Bowie, B.S.B.A.
John Christian Brackman
Daniel Marvin Buescher, A.B.
Louis Humber Burford, B.A.
Norman Harold Carl, A.B.
Robert Allen Cohn, A.B.
Robert William Cross, B.S.B.A.
Eric Alton Cunningham, Jr., B.A.
Ronald Nicholas Danna, B.S.B.A.
John Glennon Doyen, B.A.
Joseph Albert Bohrer, A.B.
Harry Gershenson, Jr., A.B.
Jack Emmett Grant, B.S.
Robert Bruce Greenbaum
Robert Lane Hartzog, Jr., B.S.
George S. Sweat Huff, A.B.
Larry Kars, B.S.B.A.
Michael Andrew Katz, A.B.
Paul Adrian Koch, B.S.B.A.
Thomas Howard Lake
Francis Vernon Lloyd III, B.A.
Arthur Myron Loomstein, B.S.B.A.
Philip Wilson MacMillan, A.B.
James Martin MacNish, Jr., A.B.
Andreas Matoesian
James Francis Mauze, B.A.
Robert Carl Meier, A.B.
Benedict Nunzio Messina, B.S.

Awarded January 27, 1964

Reuben Moores Morris III, A.B.

Robert Joseph Eck, B.S.C.E.
Donald Keith Gerard, B.S.B.A.

THE SCHOOL OF DENTISTRY

The Following Candidates Will Be Presented By
LEROY ROBB BOLING, PH.D., Dean

MASTER OF SCIENCE IN ORTHODONTICS

Candidates—June 8, 1964

Henry Rankin Dallam, Jr., D.D.S.
Ormond Ralph Grimes, Jr., B.A., D.M.D.

Awarded August 30, 1963

Alvie Bernice Clement Dague, B. Chem., D. D.S.

MASTER OF SCIENCE IN PROSTHODONTICS

Candidate—June 8, 1964

Jose Armando Guevara Zavala, B.S., D.D.S.

DOCTOR OF DENTAL SURGERY

Candidates—June 8, 1964

Melvin Dennis Atkinson
Perry Jay Bingham, B.S.
Franklin Sanders Black
Sam Edward Cigno
William Robert Denison
Tommy Ross Doherty
Richard Walter Dorsch
Glenn Russell Duckworth, B.S.
Robert Lee Dunbar
Ronald Tadashi Egami, B.A.
Richard Hansen Evans
Gilbert Toshimasa Fujimoto, B.A.
James Lawrence Fullmer, Jr., B.S.
Donald Johnson Gardner, B.S.

Donald Christy Gentry
Frank Ray Haggard, A.B.
Carl Thomas Banks, B.S.
James Ollie Huisinga, A.B.
Donald Frederick Hull, B.S.
Barry Lewis Jasper, A.B.
Kurt Wallace Karstens
David James Krutchkoff, A.B.
Charles Edgar Maire, Jr., A.B.
Charles Murray Manning, B.S.
Robert Allen Mueller
Dan Patrick O'Brien
Gerald Heber Prescott, B.S.
Dale Stanley Prock, B.S.

Robert Helle Rhoads, B.S.Ch.E.

James Richard Rowan
Louis John Ruschin, Jr., A.B.
Thomas Joseph Scino
Edward Richard Stuedli, A.B., M.S.
Randal Edgar Thomson
Don B Wilson, B.S.
George Richard Wiseheart, B.F.A.
Thomas William Yager
Frank Hisashi Yamada, A.B.
LeRoy Matthew Young, B.S.
THE SCHOOL OF MEDICINE

The Following Candidates Will Be Presented By
EDWARD WHEELER DEMPEHY, PH.D., Sc.D., Dean

BACHELOR OF SCIENCE IN OCCUPATIONAL THERAPY

Candidates—June 8, 1964

Eleanor Jane App
Mae Merle Barnholz
Linda Sue Fick
Maris Caryn Frager
Susan Virginia Gore
Roberta Schandler Grossman

George William Steuber

BACHELOR OF SCIENCE IN PHYSICAL THERAPY

Candidates—June 8, 1964

Judith Lynn Anderson
Susan M. Thiel Andrius
Jean Ellen Brunz
Ann Chase Clodfelder

Karen Cloie Mullen
Donna Jo Myrick
Betty Grace Outlaw
Marilyn Diane Stobbs

MASTER OF HOSPITAL ADMINISTRATION

Candidates—June 8, 1964

William Ronald Burton, B.A.
Derald Gene Clark, B.A.
Melvin Eugene Cunningham, B.S.
Richard P. Ellerbrake, B.A., B.D.
James Kenneth Elrod, B.B.A.

DOCTOR OF MEDICINE

Candidates—June 8, 1964

Robert Eugene Adler, B.S.
David Henry Allen, A.B.
Edward Guy Allen, A.B., B.S.
Wayne Edouard Baldwin
Edward Frank Berg, A.B.
Edward Albert Beron
John Franklin Bigger, Jr., A.B.
Ronald Samuel Bloom, A.B.
Alan Stanley Bookin, B.A.
Karen Cecilia Burrill, A.B.
George Arthur Carder, A.B.
Louis Philip Carter
Don Elwood Cheatum, B.A.
Shu-Sum Cheuk
Jerome David Cohen, A.B.
John Bruce Crane
Judith Higgins Donegan
George Burt Eagleton, B.Sc.
Donald Martin Eiler, B.A.
Evan Eisenberg, A.B.
Max LaPrelle Elliott, B.A.
James Curtis Elleesser
Neil Henry Elvick, B.S.
Richard Saul Epstein, B.S.
Ronald Gene Evans, A.B.
John Leigh Ey
Anthony Errett Fathman

Allan Paul Fishbein
Anne Bosshard Fletcher, A.B.
John Raymond Fletcher, B.S.
Williams Hersh Friedman, A.B.
Nona Dale Fulton, B.A.
Robert Lee Fulton, B.A.
Harold Edward Garber, B.S.
David Barion Goldenberg, A.B.
Benjamin M. Goldstein, A.B.
John Mark Grollmus
David Almstedt Hardy, A.B.
George Richard Harper, A.B.
Wylie Casto Hembre III, B.A.
David Holbert Hussey, B.S.
Roy Osamu Kamuda, A.B.
Stanley Frederick Katz, B.A.
Eunice Jean Larson, B.S.
Richard Elliot Lernor
Paul Robert Manske, B.A.
Allan Hardy McCown, B.S.
David Lee McIlwain, B.A.
Kathleen Susan McLaughlin, B.S.
Thomas Verle Monical, A.B.
Philip Stephen Morrison
John Ellery Munzenrider, B.S.
Robert Lester Palmer, B.S.
Earl Harrison Parrish
Thomas DeTienne Petersen, A.B.

Martin Harold Platt, A.B.
George Keck Powell, A.B.
Daniel Duncan Pugh, B.A.
Thomas Allen Queen, A.B.
Edward Floyd Ragsdale, B.A.
Perry George Rawson, A.B.
George Frederick Reinhardt, A.B.
Robert Southwick Richmond, A.B.
James Arnold Robeson, A.B.
Carolyn Landeck Bauer Robinowits, A.B.
Robert Graham Scheibe, A.B.
Paul Stanley Schwartz, A.B.
Charlie Willard Skeafer, Jr., B.A.
Herbert Charles Singer, A.B.
Ernest Mitchell Singleton, B.A.
Lee Russell Swan, B.S.
Robert Milo Taxman, A.B.
Steven Lazarus Telebahn, A.B.
Hugh Hanna Tilson, B.A.
C. B. Wallace, Jr., B.A.
Charles Henry Wallas, B.A.
Sanford Benson Werner, A.B.
Vernon Keith Westburg, B.S.
Walton Mark Wheeler III, A.B.
Bruce Irwin White
Morris Flarsheim Wise, B.A.
**THE SCHOOL OF NURSING**

The Following Candidates Will Be Presented By
**MARTHA MARIE BROWN, B.S., M.A., Dean**

<table>
<thead>
<tr>
<th>Bachelor of Science in Nursing</th>
<th>Candidates—June 8, 1964</th>
<th>Awarded January 27, 1964</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patricia Ann Barbier</td>
<td>Darlene Ann Feser</td>
<td>Janice Joy McKiernan</td>
</tr>
<tr>
<td>Dorothy Grace Cooper</td>
<td>Elsie Mitchell Giles</td>
<td>Sylvia Henley Wright</td>
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<tr>
<td>Janet Tidd Barrett</td>
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<tr>
<td>Barbara Diane Gibson</td>
<td>Sara Beth Krekel</td>
<td>Avonell JoAnn Hesemann</td>
</tr>
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<td></td>
<td>Mary Wilma Riley</td>
<td>Dorothy Gladine Stone</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Master of Science in Nursing</th>
<th>Candidates—June 8, 1964</th>
<th>Awarded January 27, 1964</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mary Lou Aubell, B.S.N.</td>
<td>Rita Lea Gaston, B.S.N.</td>
<td>Gertrude Hammel Lusser, B.S.N.</td>
</tr>
<tr>
<td>Virginia Lee Bowers, B.S.N.</td>
<td>Wayne David Hooker, B.S.N.</td>
<td>Helen Marie McMurtry, B.S.N.</td>
</tr>
<tr>
<td>Rosemary Agnes Cannon, B.S.N.</td>
<td>Jo Ann Kalina, B.S.</td>
<td>Mary Ann O'Farrell, B.S.N.</td>
</tr>
<tr>
<td>Mary Fletcher Curtis, B.S.N.</td>
<td>Virginia Louise Koch, B.S.N.</td>
<td>Jeanne Marie Reddy, B.S.N.</td>
</tr>
<tr>
<td>Margaret Ann Droste, B.S.N.</td>
<td>Rosemary Bleem Lauber, B.S.N.</td>
<td>Mona Werschler Ruddy, B.S.N.</td>
</tr>
<tr>
<td>Eva Eulene Dunning, B.S.N.</td>
<td>Norma Jean Long, B.S.N.</td>
<td>Willa Maude Schumacher, B.S.N.</td>
</tr>
<tr>
<td>Sarah Elizabeth Finfrock, B.S.N.</td>
<td></td>
<td>Mackey Price Torbett, B.S.N.</td>
</tr>
<tr>
<td>Ova Jean Barbata, B.S.N.</td>
<td>Pauline M. Becker, B.S.</td>
<td>Marjorie Sullivan Petersen, B.S.N.</td>
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<tr>
<td>Louisa Gale Arnold, B.S.N.</td>
<td>Gail Benjamin, B.S.N.</td>
<td>Helen Elizabeth Riza, B.S.N.</td>
</tr>
</tbody>
</table>
THE GRADUATE SCHOOL OF ARTS AND SCIENCES

The Following Candidates Will Be Presented By
DAVID BAILEY CARPENTER, Ph.D., Associate Dean

MASTER OF ARTS

Candidates—June 8, 1964

IN ANTHROPOLOGY
Seena Bernstein Kohl, B.A., San Francisco College
Anthony Lauria, Jr., A.B., New York University

IN ART AND ARCHAEOLOGY
Peter Warren Malik, A.B., Washington University

IN BACTERIOLOGY
Stephen Nelson Curtis, B.S., Queens College

IN BOTANY
Frank Michael Di Cecco, B.S., The Pennsylvania State University

IN COMPARATIVE LITERATURE; ENGLISH
Bruce Sewell Erlich, A.B., Washington University

IN ECONOMICS
Israel Avidor, B.A., Commercial Evening College
Ben Allen Gurman, A.B., Washington University
Uvan Handy, B.S., Washington University
Joan Margaret McDermott, B.S.B.A., Washington University
Everett William Rehkop, B.S., Missouri Valley College
Charles Phillips Richeson, A.B., Washington University
James Albert Schierholz, B.S., The Principia College
Harry Robert Walker, A.B., Rutgers University

IN ENGLISH
Judith Jane Granger, A.B., Washington University
Thomas Raphael Lyons, A.B., Saint Louis University; Ph.L., ibid.
Helen Wollack Power, A.B., The University of Chicago
Bruce Vincent Roach, A.B., Ohio University; M.A., ibid.
Jimmy Lee Williams, B.A., Clark College

IN FRENCH
Mary Clinch Duffe, B.J., University of Missouri
Patricia Joan Eoff, A.B., Washington University; M.A.Ed., ibid.

IN GEOLOGY
Earl Hugo Budke, Jr., A.B., Washington University
George Cornelius Esker III, A.B., Washington University

IN GERMAN
Olga Jean Bornstein, A.B., Washington University

IN HISTORY
Donald John Calista, A.B., Brooklyn College
Jane Hamilton Christie, A.B., Smith College
Bevery Anne Heckart, B.A., Hood College
Linda Ellen Levy, B.A., Brandeis University

IN MATHEMATICS
Donald Edwin Burlingame, B.S., Cortland State Teachers College
Ernst Martin Dieckmann, A.B., Washington University
Susan Marie Keightley, B.A., Vassar College
Edward Paul Lester, A.B., The University of Rochester
Jerome Thomas Loeb, B.S., Tufts University

IN MUSIC
John Lloyd Ault, B.S.Ed., Northeast Missouri State Teachers College; B.A., ibid.
Judith Smith Britt, A.B., Washington University
IN PHYSICS
Ronald Lee Fox, B.S., Southern Missionary College
Patrick Dennis Krolak, B.S.Phys., The University of Chicago
Robert Allen Lufburrow, A.B., Berea College; M.S., Purdue University
Thomas Shotwell Padgett, B.S., University of Arkansas

IN POLITICAL SCIENCE
Howard Ray Childers, Jr., A.B., Drury College
Robert Chivers Davey, A.B., Oberlin College
Ina Marie Fitzhenry, A.B., Washington University
Larry Joe Gillingham, A.B., University of Illinois
Robert August Kitterer, A.B., Washington University
Robert Gale Samberg, A.B., Washington University

IN PSYCHOLOGY
Frances Smith Anzel, B.A., Northwestern University
Ronald Paul Carver, B.S.C.E., University of Missouri School of Mines and Metallurgy
Kenneth Martin Kleinman, A.B., Grinnell College
Jane Brownstone Landsbaum, A.B., Washington University
Barbara Henricks Mathews, B.A., Queens College

IN ROMANCE LANGUAGES
Fiorella Beltrani Weaver, A.B., Washington University

IN SOCIOLOGY
Barbara Ballis, B.A., Brandeis University
Peter Charles Findlay, B.A., The University of Western Ontario
David Allen Schutz, A.B., Princeton University; B.D., The Protestant Episcopal Theological Seminary in Virginia

IN SPANISH
Beverly Bee Bretsnyder, A.B., Washington University

Awarded January 27, 1964

IN ECONOMICS
George Pierce Massengale, Jr., A.B., Washington University
Se-Hark Park, A.B., Washington University

IN ENGLISH
James Edward Bartell, B.A., Oklahoma State University
Jennie Cooper Frye, B.A., Southeast Missouri State College
Laurence Kingsbury, A.B., Washington and Lee University
Charles Underwood Kruger, A.B., Hamilton College
Alice Anne Reynolds, A.B., Washington University
Norman Toby Simms, B.A., Alfred University
Penelope Calderbank Treweek, B.A., University of Liverpool

IN GEOLOGY
Alberto Santiago Nieto-Pescetto, Ing.Geol., Universidad Nacional Mayor de San Marcos de Lima

IN GEOPHYSICS
Eoghan MacRuaraidh Laing, B.Sc.(Hons.), University of Glasgow

IN HISTORY
Dwight Archibald Williams, Jr., B.A., Memphis State University

IN MATHEMATICS
Helga Fisher Mankowitz, A.B., The University of California
Edward Takeshi Sakurai, B.A., Reed College
Nolan Russell Wallach, B.S., University of Maryland

IN PHILOSOPHY
Donald Max Mikula, B.A., Wittenberg University; B.D., Bethany Biblical Seminary

IN PHYSICS
Stanley Stephen Thanaraj, M.A., University of Madras

IN SOCIOLOGY
Robert Lee Burgess, B.A., Long Beach State College
Michael John Duran, B.A., The University of Connecticut
Janet Lee Walker, A.B., Lindenwood College
Awarded August 30, 1963

IN CHEMISTRY
Marilyn Frances Emerson, A.B., Washington University
Patricia Strickland Moll, B.A., Woman's College of the University of North Carolina

IN COMPARATIVE LITERATURE; FRENCH
Johanna Clara Kheim, A.B., Washington University

IN ECONOMICS
Morton Josiah Marcus, B.A., Roosevelt University

IN ENGLISH
Joan Short Bogg, B.A., University of Exeter
Richard D'Oyly Hughes, Jr., A.B., Brown University
Virginia Bording Jellech, A.B., Washington University
James Richard Knight, B.A., King's College University of London
James Patrick Leheny, B.A., The University of Connecticut
Colleen Alayne Mitchell, A.B., College of the Holy Names
Mary Zaman, A.B., Washington University
Steven Alan Zemelman, A.B., Washington University
Theodore Manthey Zorn, B.A., Valparaiso University

IN FRENCH
Daniel Alexandre Bohême, B.A., Memphis State University
Lora Schapira Weinroth, A.B., Washington University

IN GEOLOGY
Walter Goodwin Staley, Jr., B.A., University of Missouri;
B.S.Geol.E., Washington University

IN HISTORY
Robert Louis Gentsch, A.B., Washington University
Harold Edward Iverson, B.A., University of California
Walter Paul Schoenfuhs, B.A., Concordia Theological Seminary;
B.D., ibid.; S.T.M., ibid.
Ernest John Vogelgesang, B.A., St. Mary's University of San Antonio
Loretta Mae Walter, A.B., Webster College

IN HISTORY; EDUCATION
Laverne Lockhart Newman, A.B., Brenau College

IN MATHEMATICS
Giovanni Anthony Viglino, B.S.E.E., Washington University

IN PATHOLOGY
Bernabe Banzon Banson, M.D., University of Santo Tomas

IN PHYSICS
Deok Kyo Lee, B.Sc., Seoul National University
Joel Alan Snow, B.S., The University of North Carolina

IN POLITICAL SCIENCE
Richard Julian Doherty, A.B., The Citadel
Charles Irving Mundale, B.A., Mankato State Teachers College;
A.B., Syracuse University
Richard Hayes Smith, B.S.Ed., Washington University
Albert Raymond Truesdell, Jr., B.A., Valparaiso University

IN PSYCHOLOGY
Fredrick Samuel Fehr, B.S., University of Wisconsin

IN SOCIOLOGY
Thomas Jed Coe, B.A., University of Kansas
Eugen Schoenfeld, A.B., Washington University
John Timothy Sprehe, A.B., Saint Louis University; Ph.L., ibid.
MASTERS OF ARTS IN EDUCATION

Candidates—June 8, 1964

IN EDUCATION

Arthur Graham Bignall, B.S.M.E., Purdue University
Leroy Theodore Deaton, A.B., Washington University
Ronald Pinkstaff Heithacker, B.S., Washington University
Carol Ann Henschel, A.B., Washington University
June Shankland Hilliker, B.S.Ed., Washington University
Ralph Adolf Hueing, B.A., Concordia Theological Seminary
Marlin Kay Jackoway, B.S.B.A., Washington University
Erwin Virgil Johannesmeier, A.B., Washington University
Shirley Kipp Johnson, A.B., Washington University
Ivy Myer Karman, A.B., Webster College
Shirley Jane Listerman, A.B., University of North Carolina
Robert Arthur Miller, B.A., Ohio State University
Betty Marie Papendick, A.B., Washington University
Jean Mitchell Pennington, A.B., Smith College
Orville Robert Rabyburn, A.B., Wheaton College
Doris Duckworth Richison, B.S.Ed., Southern Illinois University
Carol Ann Young Rivers, A.B., Washington University
Ann Dyer Robertson, A.B., Stanford University
Marie Nipps Smith, A.B., Grinnell College
Shirley Kipp Johnson, A.B., A.B.Ed., Harris Teachers College

IN ENGLISH; EDUCATION

Rosemary Kuhn Kennedy, A.B., Westminster College
Janice Ruth Meyer, A.B., Washington University

IN RECREATION EDUCATION

Milton Arnold Rubin, B.S.Ed., Washington University

IN SCIENCE EDUCATION

Dennis Warren Bauer, B.S., The University of Wisconsin
Carl Emil Duch, B.S.Ed., Wisconsin State College
William Parry Gunnar, A.B., Illinois College
Douglas James Harke, B.S., The University of Alberta
Thomas Edwin Iverson, A.B., Westmont College
Thomas Jefferson Morris, B.S.Ed., Oregon College of Education
James Hinman Vance, B.Sc., The University of Alberta

Awarded January 27, 1964

IN EDUCATION

Bonnie Duane Aberson, B.S., Mary Washington College of the University of Virginia
Blayne Marada Brewer, B.S., University of Oregon
Mary Ellen Finch, B.S.Ed., Miami University
Beverly June Hotchner, B.S., University of Illinois
William Francis Kestly, B.S., Washington University
Gordon Wayne McAllister, A.B., Illinois College
Suzanne Elleene Muldrow, B.S.Ed., University of Missouri
Guy Stanley Schuermann, A.B., Washington University
Glida Meryl Snider, B.S.Ed., Southeast Missouri State College
Charles Daniel Frederick Tanzer, Sr., A.B., University of Illinois
Richard Gene Wheeler, A.B., University of Missouri

IN EDUCATION; HISTORY

Carl Walker Bewig, A.B., Oberlin College

IN MUSIC EDUCATION

Sue Harrison Rodgers, A.B., Smith College

IN PHYSICAL EDUCATION

John Marklin Jordan, A.B., William Jewell College
James Vaughn Waldo, B.S., The College of the Ozarks

Awarded August 30, 1963

IN EDUCATION

Jerome Sasse Arter, B.S.Fac., University of Missouri
Susan Melinda Barrington, A.B., Washington University
Eugene Lyle Baum, A.B., Washington University
Edith Tedlock Bruce, B.S., Kansas State Teachers College
Marael Sue Cohen, A.B., Washington University
Dorothy Osborne Cole, A.B., University of California
Carol Jean Collins, B.S.Ed., State University Teachers College
Joan Marlene Dellbringe, A.B., Washington University
Ronald Charles Fels, B.S.Ed., Southwest Missouri State College
Donald Eugene Fixter, A.B.Ed., Harris Teachers College
Patricia Jean Hazelwood, B.Mus.Ed., Indiana University
Mary Frances Holman, B.A., North Texas State Teachers College;
M.R.E., Southwestern Baptist Theological Seminary
Sarah Elizabeth Gilbert Hopkins, A.B., DePauw University
Jacqueline Marie Hudson, A.B.Ed., Harris Teachers College
William George Ketterer, B.A., Covenant College
Alan Jay Kraus, A.B., Washington University
Richard Alan Lessman, A.B.Ed., Harris Teachers College
Weldon B Long, A.B., Washington University
Eugenia Lowe Malloy, A.B.Ed., Harris Teachers College
Marilyn Florence Moody, A.B.Ed., Harris Teachers College
Betty Anthony Moore, B.S., Jackson College
Sarah Elizabeth Gilbert Hopkins, A.B., DePauw University
Geraldine Mazzeo Moser, A.B., Washington University
Robert Marvin Neil, B.S., The Principia College
Joseph Degian Nolan, B.S.R.E., Washington University
Samuel Hays Perlmutter, B.S.Ch.E., Case Institute of Technology
Thomas Glennfield Rasmus, B.S.Ed., Southwest Missouri State College
Kelvin Richard Rylas, B.S.Ed., Washington University
Margaret Cornwell Schmidt, A.B., Sweet Briar College
Donna Kay Standley, A.B., Washington University
Mabel Irene Steele, B.S.Ed., Washington University
Lisette Braun Steiner, A.B.Ed., Harris Teachers College
Marcella Louise Steines, B.A., George Washington University
Claude Elmer Stephens, Jr., A.B., New Mexico Highlands University
Marvin Albert Tzinberg, B.S.R.E., Washington University
Virginia Elise Ulery, A.B.Ed., Harris Teachers College
Gloria Waters White, A.B.Ed., Harris Teachers College
Mary Frances Holman, B.A., North Texas State Teachers College;
M.R.E., Southwestern Baptist Theological Seminary
Sarah Elizabeth Gilbert Hopkins, A.B., DePauw University
Jacqueline Marie Hudson, A.B.Ed., Harris Teachers College
William George Ketterer, B.A., Covenant College
Alan Jay Kraus, A.B., Washington University
Richard Alan Lessman, A.B.Ed., Harris Teachers College
Weldon B Long, A.B., Washington University
Eugenia Lowe Malloy, A.B.Ed., Harris Teachers College
Marilyn Florence Moody, A.B.Ed., Harris Teachers College
Betty Anthony Moore, B.S., Jackson College
Joan Marlene Dellbringe, A.B., Washington University
Ronald Charles Fels, B.S.Ed., Southwest Missouri State College
Donald Eugene Fixter, A.B.Ed., Harris Teachers College
Patricia Jean Hazelwood, B.Mus.Ed., Indiana University
Mary Frances Holman, B.A., North Texas State Teachers College;
M.R.E., Southwestern Baptist Theological Seminary
Sarah Elizabeth Gilbert Hopkins, A.B., DePauw University
Jacqueline Marie Hudson, A.B.Ed., Harris Teachers College
William George Ketterer, B.A., Covenant College
Alan Jay Kraus, A.B., Washington University
Richard Alan Lessman, A.B.Ed., Harris Teachers College
Weldon B Long, A.B., Washington University
Eugenia Lowe Malloy, A.B.Ed., Harris Teachers College
Marilyn Florence Moody, A.B.Ed., Harris Teachers College
Betty Anthony Moore, B.S., Jackson College
Sarah Elizabeth Gilbert Hopkins, A.B., DePauw University
Geraldine Mazzeo Moser, A.B., Washington University
Robert Marvin Neil, B.S., The Principia College
Joseph Degian Nolan, B.S.R.E., Washington University
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Donna Kay Standley, A.B., Washington University
Mabel Irene Steele, B.S.Ed., Washington University
Lisette Braun Steiner, A.B.Ed., Harris Teachers College
Marcella Louise Steines, B.A., George Washington University
Claude Elmer Stephens, Jr., A.B., New Mexico Highlands University
Marvin Albert Tzinberg, B.S.R.E., Washington University
Virginia Elise Ulery, A.B.Ed., Harris Teachers College
Gloria Waters White, A.B.Ed., Harris Teachers College
Dorothy Jane Wolter, B.S.Ed., University of Missouri

IN EDUCATION; ENGLISH
Paul Arnold Pohland, B.S.Ed., Concordia Teachers College

IN MUSIC EDUCATION
Marie Ann Heiberg, B.A., Carleton College
George Arthur Hussey, Jr., B.M.Ed., Baldwin-Wallace College
Mary Clarice Newander, A.B., Washington University
Angie Louise Olsen, B.M., Chicago Musical College

IN PHYSICAL EDUCATION
James Arnold Wagner, B.S.Ed., Miami University

IN PHYSICAL EDUCATION; HEALTH
Barbara Field Addy, B.S.Ed., University of Oklahoma
John Wellons Claiborne III, B.S.Ed., Washington University
Patricia Arnold Coffman, A.B., Washington University
Harold Dean Greec, B.S.Ed., Central Missouri State College
Richard Arlen Nash, B.S.Ed., Washington University
Viola Kurzweg Powell, B.Ed., Winona State Teachers College
Agnes Grimes Quinn, A.B., Lane College

IN SCIENCE EDUCATION
Robert Eugene Albietz, B.S.Ed., Indiana University
Floyd Duane Blankenship, B.S., Southwest Missouri State College
Barry Fredrie Brückner, B.S., Valparaiso University
Patrick Henry Crowe, B.S., University of Notre Dame
James Murray Foley, B.S., Wisconsin State College
Randolph LeRoy Grayson, B.A., State University of Iowa
Lewis Ronald Hoover, B.S.Ed., Shippensburg State College
Zed Clark Layson, Jr., B.S., Duke University

MASTER OF SCIENCE IN SPEECH AND HEARING
Candidates—June 8, 1964
Marilyn Esther Epp, A.B., Washington University
Patricia Richard Jones, B.A., Centenary College of Louisiana
Jean Sachar Moog, A.B., Smith College
Jeanette Johnston Radford, B.A., University of Cincinnati
Barbara Bayer Singleton, B.A., Southern Methodist University
Linda Cooper Slay, B.A., University of Maryland

MASTER OF MUSIC
Candidate—June 8, 1964
Clarence Robert Ledbetter
ADVANCED GRADUATE CERTIFICATE IN EDUCATION

Candidates—June 8, 1964

IN EDUCATION

Dorothy Bodine Wiegand, A.B., Colorado State Teachers College; M.A.Ed., Washington University

IN PHYSICAL EDUCATION

Catherine Ann Purdom, A.B.Ed., Harris Teachers College; M.S.H. & P.E., Washington University

Awarded January 27, 1964

Donald Elmer Mumm, B.S.Ed., Washington University; M.S.H. & P.E., ibid.
John Edward Titus, B.S.Ed., Central Missouri State College; M.S.Ed., ibid.

The Following Candidates Will Be Presented By

ROBERT ROSWELL PALMER, PH.D., Dean of the Faculty of Arts and Sciences

DOCTOR OF EDUCATION

Candidates—June 8, 1964

IN EDUCATION

Title of Thesis: The Strength and Order of Responses in a Sequence as Related to the Degree of Structure in Stimuli

Ruth Arvesta Rice, B.S.Ed., University of Missouri; M.Ed., ibid.
Title of Thesis: Toward a General Conceptualization of Interest Grouping and Its Impact on the Social System of the Classroom

Awarded August 30, 1963

IN EDUCATION

William Deal Dannenmaier, A.B.Ed., Harris Teachers College; M.A.Ed., Washington University
Title of Thesis: Residual Gain in Learning as a Correlate of Degree and Direction of Effort in Formal Adult Educational Programs

Title of Thesis: Attitude Change of the Student Teacher: A Test of the ABX Model

DOCTOR OF PHILOSOPHY

Candidates—June 8, 1964

IN BIOLOGICAL CHEMISTRY

Max Marcel Burger, B.A., Gymnasium, Zurich; M.D., University of Zurich
Title of Thesis: I The Biosynthesis of a Bacterial Glycolipid
II The Biosynthesis of Glycerol Teichoic Acid

IN BOTANY

Shripad Narayanrao Agashe, B.Sc., Osmania University; M.Sc., University of Poona
Title of Thesis: The Extra-Xylary Tissues in Certain Calamites from the American Carboniferous

Reinhold Albert Rasmussen, B.S., University of Massachusetts; M.Ed., ibid.
Title of Thesis: Terpenes: Their Analysis and Fate in the Atmosphere

Michael Wirth, B.S., Brooklyn College; A.M., Harvard University
Title of Thesis: Supra-Specific Variation and Classification in the Oncidiinae (Orchidaceae)
IN ZOOLOGY
Lois Little Rasmussen, A.B., Stanford University
Title of Thesis: Fractionation of the Soluble Proteins of Postnatal Rat Brain
Awarded January 27, 1964

IN BOTANY
Lillian Overland, B.Sc., Sir George Williams College
Title of Thesis: The Role of Allelopathic Substances in the "Smother Crop" Barley

IN CHEMISTRY
Gerald Lee Bachman, B.S., University of Illinois
Title of Thesis: The Chemistry of Phenylcarbenes
A D Britt, B.S., West Texas State College; A.M., Washington University
Title of Thesis: The Electron Exchange Reaction of Wurster's Blue in Aqueous Solution.

IN EDUCATION
Carl Estes Pitts, B.S.Ed., Washington University; M.A.Ed., ibid.
Title of Thesis: Affective Arousal as a Function of Deviations in Perceived Complexity from an Adaptation Level

IN MATHEMATICS
Title of Thesis: A Hankel Convolution Complex Inversion Theory

IN PSYCHOLOGY
William Wray Hahn, A.B., Grinnell College; A.M., Washington University
Title of Thesis: Resistance to Stress in the Rat as a Function of Differential Housing and Prior Experience
Vernon John Perez, B.S., Tulane University; M.S., ibid.
Title of Thesis: Experimental Phenylketonuria: Effects of L-phenylalanine Upon Growth and Learning Ability of the Albino Rat as a Function of Duration of Administration of the Amino Acid
Eugene Lionel Zwillinger, B.A., New York University
Title of Thesis: A Study on Conformity in Adolescents: The Effects of Social Class Membership and Self-Esteem

IN SOCIOLOGY
Robert Coit Day II, B.A., Kenyon College
Title of Thesis: Some Effects of Close and Punitive Supervision
Awarded August 30, 1963

IN AUDIOLOGY
Frank Burdon Withrow, Jr., B.S.Ed., Washington University; M.S.S.&H., ibid.
Title of Thesis: Immediate Recall by Aphasic, Deaf and Normally Hearing Children for Visual Forms Presented Simultaneously or Sequentially in Time

IN BUSINESS ADMINISTRATION
Philip Sloan Brumbaugh, A.B., Washington University; M.B.A., ibid.
Title of Thesis: Time-Series Forecasting for Inventory Control

IN ECONOMICS
Alphonse George Holtmann, Jr., B.S., University of Illinois; M.S., ibid.
Title of Thesis: The Value of Human Resources and Alcoholism
Muhammad Mahfuzul Hug, B.A.(Hons.), University of Dacca; M.A., ibid.; A.M., Washington University
Title of Thesis: Urban Government Service Accounts

IN EDUCATION
Prafullachandra Nandshanker Davé, B.A., Gujarat University; M.A., ibid.; M.A.Ed., Washington University
Title of Thesis: Aspects of Achievement Motivation and Risk-Taking Behavior

IN GEOLOGY
Richard Warren Berry, B.S.E.M., Lafayette College; A.M., Washington University
Title of Thesis: Geochemistry and Mineralogy of the Clay Sized Fractions of Some North Atlantic and Arctic Ocean Bottom Sediments
John Charles Poweraker, B.Sc., University of New Zealand; M.Sc., ibid.
Title of Thesis: Quantitative Studies in River Sinuosity with Special Reference to Incised Meanders of Ozark Rivers
William Francis Moll, Jr., B.S., University of Florida; M.A., Indiana University
Title of Thesis: The Orientation of Some Cyclic Amine Cations on Vermiculite
IN HISTORY
Title of Thesis: The Life of Moses Austin, 1761-1821

IN MATHEMATICS
Jeffrey Robert Davis, B.E.E., Rensselaer Polytechnic Institute; M.S., ibid.
Title of Thesis: The Asymptotic Behavior of Extreme Eigenvalues of
Toeplitz Operators of the Hankel Type
Sam Lachterman, A.B., Washington University
Title of Thesis: Exponentially Convex Functions on a Cone in a Lie Group

IN MOLECULAR BIOLOGY; CHEMISTRY
Todd Mervyn Schuster, A.B., Wayne State University; M.S., ibid.
Title of Thesis: Solution Properties of Myosin

IN PHARMACOLOGY
David Nolan Dietzler, A.B., Washington University
Title of Thesis: A Study of the Benzidine Method for the Determination of Sulfate and
the Development of an Improved Procedure. The Application of the Improved Procedure
to the Determination of Total and Inorganic Sulfate in Human Urine and in Alumina
Column Eluates of Animal Tissue Extracts

IN PHYSICS
Richard Charles Fedder, B.S., University of Illinois
Title of Thesis: Heterodyne Properties of a Multilevel Paramagnetic
Spin System — Mo(CN)_5
Christoph Hohenemser, B.A., Swarthmore College
Title of Thesis: Mossbauer Effect in B—Tin for 1.8° ≤ T ≤ 370°K
Frederick Richard Kovar, B.S., John Carroll University; A.M., Washington University
Title of Thesis: Drift Velocity of Mercury Ions in Mercury Vapors

IN POLITICAL SCIENCE
Margaret Ann Soderberg, B.A., Marygrove College; M.S.L.S., Catholic University
of America; M.A., Wayne State University
Title of Thesis: The Politics of Catholic Youth: A Comparative Study of the
Young Christian Workers

IN PSYCHOLOGY
Carol Bemberg Dye, B.S., Washington University; A.M., ibid.
Title of Thesis: Effects of Interruption of Initial Learning on Retention in Young,
Mature and Old Rats
George Doughty Wright, Jr., B.A., Dickinson College
Title of Thesis: Inter-Group Communication and Attraction

IN SOCIOLOGY
David Reese Schmitt, B.A., Miami University; A.M., Washington University
Title of Thesis: Social Effects of Status Congruency

IN ZOOLOGY
Lester Joseph Newman, A.B., Washington University; M.A., University of Michigan
Title of Thesis: An Analysis of Chromosomal Aberrations in Podophyllum Peltatum
Shirley Ross Reiss, B.A., Reed College
Title of Thesis: Growth Control of Neurons in the Superior Cervical Ganglion
of the Mouse
COMMISSIONS IN THE DEPARTMENT OF DEFENSE

The Following Candidates Will Be Presented By COLONEL WILLIAM EDWARD BRUBAKER, B.S.,
United States Army, Professor of Military Science

UNITED STATES ARMY
Issued by the Secretary of the Army

SECOND LIEUTENANT, ARMY RESERVE

*Thomas George Banjanin  
*Peter Ralph Bartling  
Berl Glen Bays  
*Howard Benoist III  
*Charles William Braig, Jr.  
*Charles Baker Cunningham III  
*David Dean  
*Robert William Galbierz  
Lawrence Allen Gelb  
Jerome Lewis Gidlow  
Michael Howard Gilberg  
John Samuel Goldamith  
*Philip Jerome Harris  
John Adam Hartwig, Jr.  
Edward Lee Koenig  
Ross Kramer  
Thomas Howard Lake  
*James Epperson Landau  
Anthony Emmet Layton

*Edward Levinson  
*Frederick Wilson McCoy, Jr.  
Edgar Louis Moore, Jr.  
Morton Allen Pactor  
Clifford Eugene Sander  
Paul Gunther Scheuerman  
William Dailey Tancill  
Lewis Edwin Tonopolsky  
James Cameron Wellman

The Following Candidates Will Be Presented By MAJOR ALAN JOSEPH TEAGUE, M.B.A.,
United States Air Force, Professor of Air Science

UNITED STATES AIR FORCE
Issued by the Secretary of the Air Force

SECOND LIEUTENANT, AIR FORCE RESERVE

**Charles Floyd Davis, Jr.  
Michael Norman Gomez  
**Roger Lee Koch  
Joseph Kissin Ladd  
Michael James Ryan  
Richard Arthur Schworm  
John William Thau, Jr.

* Distinguished Military Graduate  
** Distinguished Air Force ROTC Graduate
HONORARY DEGREES

DOCTOR OF LAWS

EDNA FISCHEL GELLHORN, co-founder of the St. Louis League of Women Voters; past president of Missouri League of Women Voters; past board member of National League of Women Voters; HH.D., Lindenwood College, 1956; Globe-Democrat Woman of Achievement, 1967; civic leader.

DOCTOR OF SCIENCE

HERMAN M. KALCKAR, Professor of Biological Chemistry, Harvard University Medical School; Presidential Award of the International Poliomyelitis Congress, 1956; Medaille International Societe de Chimie Biologique, Paris, 1947; Fellow, American Academy of Arts and Sciences; member, National Academy of Sciences; Ph.D. in medical research, University of Copenhagen, 1938; educator and scientist.

DOCTOR OF HUMANE LETTERS


EMERITUS LIST

1964

Each year some members of the Washington University full-time faculty reach the rank of emeritus. Their ability and service, in the classroom and out, have enriched the University and the lives of their students and colleagues. In appreciation of what they have done, we record here the names of those who attain emeritus rank at the end of the academic year 1963-64.

ARTHUR SCOTT GILSON
Professor of Physiology
At Washington University since 1925

ALBERT ELI GOLDSMITH
Professor of Chemistry
At Washington University since 1920

JAMES NATHANIEL MCCLURE
Professor of English
At Washington University since 1936

MARGARET GLADYS SMITH
Professor of Pathology
At Washington University since 1929

GEORGE DUMAS STOUT
Professor of English
At Washington University since 1923

HARVEY LESTER WHITE
Professor of Physiology
At Washington University since 1921
PRIZES, AWARDS AND HONORS

THE COLLEGE OF LIBERAL ARTS AND THE GRADUATE SCHOOL
OF ARTS AND SCIENCES

Fern J. Cornelison Prize in English, Christopher Waldo Grose
F. Ward Denys Prize in English, Robert Charles Markham
Honorable Mention, Harvey Michael Gox
J. Walter Goldstein Prizes in History
Sally Isabel Squires
Roger Conant Hatch Prize in English, John Allen Palen
Wilma Koetter Memorial Prizes
Suzanne Dell Hendrix (Elementary Education)
Linda Earle Meckfessel (Secondary Education)
Arnold J. Lion Prizes in Political Science
Charles Douglas Cary
Norman Hugh Nie
Norma Lowry Memorial Poetry Prizes
First Prize, Michael Conway
Second Prize, Cedric Stovall Reynolds
Honorable Mention, David Anthony Farrelly and Norman Toby Simms
Shirley McDonald Wallace Prize in History, Lee Cronbach II
Louis G. Zelson Prizes in Spanish
Linda Lee Fair
Barbara Elaine Golder

THE SCHOOL OF ENGINEERING

E. O. Sweetser Award, Michael James Ryan
Associated General Contractors Award, Donald Irvin Angelbeck
American Society of Civil Engineers Awards, Charles William Braig, Jr. and Robert William Galbierz
Laclede Steel Award, John David Booth
Ade H. Winheim American Chemical Society Award, Berl Glen Bays
American Institute of Chemical Engineers Award, Melvin Ray Bagley
Institute of Electrical and Electronics Engineers Award, Daniel Jay Landiss
American Institute of Industrial Engineers Outstanding Senior Award, Theodore Lewis Sincoff
Pi Tau Sigma Award, John Russell Biddle
American Society of Mechanical Engineers Award, Andrew Edward Lindberg
American Society of Mechanical Engineers Regional Award, Robert Joseph Arzen
Hamilton Watch Award, Kenneth Woodrow Axetell, Jr.
Missouri Society of Professional Engineers Scholarship Awards
Walter Paul Schauman
William Charles Schulmeister
Joe B. Butler Memorial Award of the Missouri Society of Professional Engineers for an Outstanding Junior, Ronald Cordes
Annual Silent Hoist and Crane Company Materials Handling Paper Awards
First Prize, Alan Lee Barrick
Second Prize, Norman Phillip Erber
Third Prize, Richard William Bardiach
Department of Physics Honors Award, Richard Van Evera Lovelace

Final Honors
Kenneth Woodrow Axetell, Jr.
Berl Glen Bays
John Russell Biddle
Phillip Joseph Flach
Harvey Ray Holliday
Donald Louis Joseph
Richard Van Evera Lovelace
John Howard Qualls
Arthur Karl Whitney

SCHOOL OF ARCHITECTURE

Freshman Award, Dennis Brophy
Sophomore Award, Roy Spilkenkothen
Association of Women in Architecture and Allied Arts, Gay Goldman
Alpha Rho Chi Medal, Cynthia Weese
Producers' Council Award, Julius Jurácsik
American Institute of Architects Medal, Julius Jurácsik
American Institute of Architects Book Award, Peter Herlihy Green
Frederick Widmann Prize in Architecture, Alan Lew Appel
Missouri Association of Registered Architects Award, Mark Alan Viets

Final Honors
Julius Jurácsik
Glenwood Leigh Garvey
John Ely Hausner
John Donald Heimbaugh
Hanan A Kivett
Mark Alan Viets
James Lippincott Wick III
THE SCHOOL OF BUSINESS AND PUBLIC ADMINISTRATION

Alpha Kappa Psi Award, Steven Z. Marglous
American Marketing Association Award, Bettina Rose Bono
Sidney S. Cohen Prize, Robert Neil Fuller
Dow Jones Corporation Prize, Frederick William Marshall, Jr.
Haskins and Sells Award, Robert Neil Fuller
William S. Krebs Accounting Club Prize, Paul William Peterson
Isidor Loeb Prize, David Dean
Missouri Society of Certified Public Accountants Award, Steven Z. Marglous

Jane Adele Kieckers
Steven Z. Marglous
Charles Martin Mosby
John Lamar Vogelsang

THE SCHOOL OF FINE ARTS

Hazel Goetsch Book Award, Eldridge Hardie
Caroline Risque Prizes in Sculpture
First Prize, Beverly Ruth Thal
Second Prize, John Moore
Waldo P. Johnson Award in Book Design, Helen Orton
Lillie Elise Willemsen Prize, Georgia Cocke Guyot

THE GEORGE WARREN BROWN SCHOOL OF SOCIAL WORK

Final Honors

THE SCHOOL OF LAW

Alumni Association Prize, Mary Lou Wolfarth
Samuel M. Breckinridge Third Year Scholarship Prizes
First Prize, Frederick William Scherrer
Second Prize, Mary Lou Wolfarth
Samuel M. Breckinridge Practice Court Prizes
First Prize, Donald Ross Duncan
Second Prize, Dale Linn Rollings
Order of the Coif

Daniel Marvin Buescher
Robert Lane Hartzog, Jr.

The Missouri Association of Women Lawyers Award, Mary Lou Wolfarth

THE SCHOOL OF DENTISTRY

Dental Alumni Association Prize, Barry Lewis Jasper
Anna Bredall Awards
First Award, Richard Hansen Evans
Second Award, Carl Thomas Hanks
American Society of Dentistry for Children Award, Barry Lewis Jasper
American Society of Periodontists Award, Barry Lewis Jasper
American Academy of Dental Medicine Award, Carl Thomas Hanks
American Academy of Gold Foil Operators Award, Donald Frederick Hull
American Academy of Roentgenology Award, Frank Hisashi Yamada
J. D. White Award, Richard Hansen Evans
Alpha Omega Award, Barry Lewis Jasper
Delta Sigma Delta Clinical Award, Donald Frederick Hull
International College of Dentists Award, Donald Frederick Hull

The SCHOOL OF NURSING

Nurses' Alumni Association Book Prize, Rita Lea Gaston

Janet Tidd Barrett
Rosemary Agnes Cannon

Margaret Ann Droste
Sarah Elizabeth Finfrock
Virginia Louise Koch

Norma Jean Long
Mona Werschler Ruddy

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