1947

Washington University School of Medicine bulletin, 1947

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WASHINGTON UNIVERSITY

Arthur H. Compton, Ph.D., Sc.D., LL.D., Bridge Chancellor
Charles Belknap, B.S., Vice Chancellor
Joyce C. Stearns, Ph.D., LL.D., Dean of Faculties
Thomas Edward Blackwell, Ph.B., M.S., J.D., Director of Business Administration

The College of Liberal Arts
Stuart A. Queen, Ph.D., Dean

The School of Engineering
Alexander S. Langsdorf, M.M.E., Dean

The School of Architecture
Alexander S. Langsdorf, M.M.E., Dean

The School of Business and Public Administration
Isaac Lippincott, Ph.D., Acting Dean

The George Warren Brown School of Social Work
Benjamin E. Youngdahl, A.M., Dean

The Henry Shaw School of Botany
George T. Moore, Ph.D., Dean

The School of Graduate Studies
Carl Tolman, Ph.D., Dean

The School of Law
Wayne L. Townsend, A.B., LL.B., J.S.D., Dean

The School of Medicine
Robert A. Moore, M.D., Ph.D., Dean

The School of Dentistry
Otto W. Brandhorst, D.D.S., Dean

The School of Nursing
Louise Knapp, R.N., B.S., A.M., Director

The School of Fine Arts
Kenneth E. Hudson, B.F.A., Dean

University College
Willis H. Reals, Ph.D., Dean

The Summer School
Frank L. Wright, A.M., Ed.D., Director

Mary Institute, a preparatory school for girls, located at Ladue and Warson Roads, is also conducted under the charter of the University.
# CALENDAR

## 1947

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CALENDAR 1946-47

Registration for all classes, Monday, February 3, 1947.
Holidays, Good Friday, April 4, and Saturday, April 5, 1947.
Commencement, Thursday, June 12, 1947.

FIRST AND SECOND YEARS
Second Trimester ends, Saturday, March 1, 1947.
Reading and Examination Period begins Monday, May 19, 1947; ends Saturday, June 7, 1947.

THIRD AND FOURTH YEARS
Third Quarter ends Saturday, March 1, 1947.
Reading and Examination Period begins Monday, May 19, 1947; ends Saturday, June 7, 1947.

CALENDAR 1947-48

Registration for all new students, Thursday, September 18, 1947.
Examinations for advanced standing and removal of conditions, Friday, September 19, 1947.
Registration for all former students, Saturday, September 20, 1947.
Academic year begins Monday, September 22, 1947.
Holiday, Thanksgiving Day, Thursday, November 27, 1947.
Registration for second-half year, Monday, January 26, 1948.
Holidays, Good Friday, March 26, and Saturday, March 27, 1948.
Commencement, Tuesday, June 8, 1948.

FIRST AND SECOND YEARS
First Trimester begins Monday, September 22, 1947; ends Saturday, December 6, 1947.
Second Trimester begins Monday, December 8, 1947; ends Saturday, March 6, 1948.
Third Trimester begins Monday, March 8, 1948; ends Saturday, May 22, 1948.
Reading and Examination Period begins Monday, May 24, 1948; ends Saturday, June 12, 1948.
THIRD AND FOURTH YEARS

First Quarter begins Monday, September 22, 1947; ends Saturday, November 15, 1947.

Second Quarter begins Monday, November 17, 1947; ends Saturday, January 24, 1948.

Third Quarter begins Monday, January 26, 1948; ends Saturday, March 20, 1948.


Reading and Examination Period begins Monday, May 17, 1948; ends Saturday, June 5, 1948.
THE CORPORATION

President
HARRY BROOKINGS WALLACE

First Vice-President
DANIEL KAYSER CATLIN

Second Vice-President
ETHAN ALLEN HITCHCOCK SHEPLEY

Directors
HARRY BROOKINGS WALLACE
WILLIAM HENRY DANFORTH
DANIEL KAYSER CATLIN
EUGENE DUTTON NIMS
ERNEST WILLIAM STIX
WILSON LINN HEMINGWAY
EDGAR MONSANTO QUEENY
ETHAN ALLEN HITCHCOCK SHEPLEY

HOWARD ISAAC YOUNG
CLIFFORD WILLARD GAYLORD
JOHN STARK LEHMANN
JOHN MERRILL OLIN
ROLAND MILTON HOERR
ADRIAN WOODS FRAZIER
ALEXANDER WESSEL SHAPLEIGH
JAMES WESLEY MCAFEE

Alumni Directors
WALTER OTTO BODE
RAYMOND FORDER BUCKLEY

DALTON KEATS ROSE
LEO MICHAEL SHANLEY

Treasurer and Secretary to the Corporation
THOMAS EDWARD BLACKWELL

Office in Robert S. Brookings Hall, Skinker and Lindell Boulevards
OFFICERS OF THE UNIVERSITY ADMINISTRATION

THE CENTRAL ADMINISTRATION

Chancellor

Vice Chancellor
Charles Belknap. Office, 225 Brookings Hall

Dean of Faculties
Joyce Clennam Stearns, Ph.D., LL.D.... Office, 220 Brookings Hall

Director of Business Administration
Thomas Edward Blackwell, Ph.B., M.S., J.D. Office, 225 Brookings Hall

GENERAL ADMINISTRATION

Vice Chancellor
Charles Belknap. Office, 225 Brookings Hall

Secretary of the University
Oliver Filley Richards, B.S. Office, 221 Brookings Hall

Director of Public Relations
Douglas Vass Martin, Jr., A.B. Office, 218 Brookings Hall

Director of Sponsored Research
Raymond George Spencer, Ph.D. Office, 3800 West Pine Boulevard, St. Louis

Director of Alumni Relations
Edward Kendall Harrison, A.B. Office, 230 Brookings Hall

EDUCATIONAL ADMINISTRATION

Dean of Faculties
Joyce Clennam Stearns, Ph.D., LL.D.. Office, 220 Brookings Hall

Dean of Admissions
William Glasgow Bowling, A.M. Office, 127 Brookings Hall

Registrar and Secretary of the Faculty
George William Lamke, B.S. Office, 229 Brookings Hall

Admissions Officer
Eugene Emil Seubert, A.M. Office, 127 Brookings Hall

Assistant Registrar
Kathrin Marie Baker, A.M. Office, 229 Brookings Hall

Dean of Men
Edward Kendall Harrison, A.B. Office, 230 Brookings Hall

Dean of Women
Adèle Chomeau Starbird, A.M... Office, 108 Women’s Building

Librarian
Jerrold Orne, Ph.D., B.S. in L.S. Office, Ridgley Library

Director of Student Health Service
Leo Joseph Wade, A.B., M.D. Office, 147 Lee Hall, Section D

Director of Physical Education
Burton Blair Gullion, M.A. Office, Francis Gym

1 On leave of absence, 1946-47.
THE SCHOOL OF MEDICINE

BUSINESS ADMINISTRATION

Director of Business Administration
Thomas Edward Blackwell, Ph.B., M.S., J.D...Office, 225 Brookings Hall

Comptroller
John Henry Ernest, M.S.B.A......................Office, 118 Brookings Hall

Director of Purchasing
James Johnstone Ritterskamp, Jr., B.S.B.A., LL.B.
Office, 123 Brookings Hall

University Engineer
Frederick Grant St. Clair, B.S.M.E., M.S......Office, 15 Brookings Hall

Superintendent, Buildings and Grounds
Donald Morrison........................................Office, 115 Brookings Hall

Manager of Dormitories and Dining Rooms
Rose Fallenstein.................................Office, Lee Hall Cafeteria
OFFICERS OF GOVERNMENT AND INSTRUCTION OF THE SCHOOL OF MEDICINE:

ROBERT ALLAN MOORE. . . . . Acting Dean
B.A., Ohio State University, 1921; M.S., 1927; M.D., 1928; Ph.D., Western Reserve University, 1930.

FRANKLIN EDWARD WALTON* . Assistant Dean, in Charge of the Postgraduate Program
B.S., Shurtleff College, 1923; M.D., Washington University, 1927.

ROBERT JOY GLASER . . . . Assistant Dean
S.B., Harvard University, 1940; M.D., 1943.

MERL JOHN CARSON* . . . . Assistant Dean and Director of the Division of Postgraduate Studies
A.B., University of North Carolina, 1934; M.D., Vanderbilt University, 1938.

WILLIAM BAHLMANN PARKER . . . . Registrar
A.B., University of Missouri, 1921.

EMERITI

ROBERT JAMES TERRY . . . . Professor Emeritus of Anatomy
M.D., Missouri Medical College, 1895; A.B., Washington University, 1901.

LEO LOEB . . . . Professor Emeritus of Pathology
M.D., University of Zurich, 1886.

JOSEPH ERLANGER . . . . Professor Emeritus of Physiology
B.S., University of California, 1895; M.D., Johns Hopkins University, 1899; L.L.D., University of California, 1922; Sc.D., University of Pennsylvania, 1938; Sc.D., University of Wisconsin, 1936; Sc.D., University of Michigan, 1937.

HARRY STURGEON CROSSEN . Professor Emeritus of Clinical Obstetrics and Gynecology
M.D., Washington University, 1892.

MARTIN FEENEY ENGMAN . Professor Emeritus of Clinical Dermatology
M.D., University of New York, 1891.

SIDNEY ISSAC SCHWAB . Professor Emeritus of Clinical Neurology
M.D., Harvard University, 1896.

VILRAY PAPIN BLAIR . . . . Professor Emeritus of Clinical Surgery
A.M., Christian Brothers College, 1890; M.D., Washington University, 1893.

WILLARD BARTLETT . . . . Professor Emeritus of Clinical Surgery
A.B., Illinois College, 1892; A.M., 1898; D.Sc., 1926; M.D., Marion Sims College of Medicine, 1896.

HARRY WEBSTER LYMAN . Professor Emeritus of Clinical Otolaryngology
M.D., St. Louis College of Physicians and Surgeons, 1895.

ERNEST SACHS . Professor Emeritus of Clinical Neurological Surgery
A.B., Harvard University, 1900; M.D., Johns Hopkins University, 1904.

MEYER WIENER . . . . Professor Emeritus of Clinical Ophthalmology
M.D., Missouri Medical College, 1896.

FREDERICK ENO WOODRUFF . Associate Professor Emeritus of Clinical Ophthalmology
M.D., Missouri Medical College, 1897; A.B., Washington University, 1922.

* Arranged in groups in order of appointment, as of January 1, 1947.
* Resigned as Assistant Dean, December 1, 1946.
* Effective January 1, 1947.
* Effective February 1, 1947.
MALVERN BRYAN CLOPTON . . Professor Emeritus of Clinical Surgery
M.D., University of Virginia, 1897.

MAJOR GABRIEL SEELEG . . Professor Emeritus of Clinical Surgery
A.B., Harvard University, 1896; M.D., Columbia University, 1900.

WILLIAM FREDERIC HARDY . Associate Professor Emeritus of Clinical Ophthalmology
M.D., Washington University, 1901.

EARL H. PERRY . . Associate Professor Emeritus of Military Science and Tactics and Lecturer in Preventive Medicine
M.D., University of Pennsylvania (MC), 1903.

LOUIS HENRY HEMPELMANN1 . . Assistant Professor Emeritus of Clinical Medicine
M.D., St. Louis Medical College, 1896.

ADOLPH GEORGE SCHLOSSSTEIN . . Assistant Professor Emeritus of Clinical Obstetrics and Gynecology
M.D., St. Louis Medical College, 1894.

THOMAS B. POTEL . . . . Lecturer Emeritus in Pathology
D.V.S., McGill University, 1892; M.D., Washington University, 1902.

GERALDINE LERMIT . . . . Lecturer Emeritus in Occupational Therapy
A.B., Wellesley College, 1906; Ph.M., University of Chicago, 1907.

PROFESSORS

PHILIP ANDERSON SHAFFER . . Distinguished Service Professor of Biological Chemistry
A.B., West Virginia University, 1900; Ph.D., Harvard University, 1904; Sc.D., University of Rochester, 1939.

EVARTS AMBROSE GRAHAM . Bixby Professor of Surgery and Head of the Department
A.B., Princeton University, 1904; M.D., Rush Medical College, 1907; M.S., (hon.), Yale University, 1928; LL.D., Central College, 1926; Sc.D., University of Cincinnati, 1927; Sc.D., Princeton University, 1939; Sc.D., Western Reserve University, 1931; Sc.D. (hon.), University of Pennsylvania, 1940; Sc.D. (hon.), University of Chicago, 1941; F.R.C.S. (hon.), 1943; Sc.D. (hon.), McGill University, 1944.

OTTO HENRY SCHWARZ Professor of Clinical Obstetrics and Gynecology
M.D., Washington University, 1913.

SHERWOOD MOORE Professor of Radiology and Head of the Department, Consultant in Radiology to the Department of Anatomy
M.D., Washington University, 1905.

EDMUND VINCENT COWDRY . . Professor of Anatomy and Head of the Department
B.A., University of Toronto, 1909; Ph.D., University of Chicago, 1912.

JACQUES JACOB BRONFENBRENNER . . Professor of Bacteriology and Immunology and Head of the Department
Ph.D., Columbia University, 1912; Dr.P.H., Harvard University, 1919.

GEORGE HOLMAN BISHOP . . . . Professor of Neurophysiology
A.B., University of Michigan, 1912; Ph.D., University of Wisconsin, 1920.

CARL F. CORI . . . . Professor of Biological Chemistry and Head of the Department
M.D., University of Prague, 1920; Sc.D. (hon.), Yale University, 1946; Sc.D. (hon.), Western Reserve University, 1946.

1 Deceased, December 27, 1946.
LAWRENCE TYLER POST . . Professor of Clinical Ophthalmology and Head of the Department
A.B., Yale University, 1909; M.D., Johns Hopkins University, 1913.
ALEXIS FRANK HARTMANN . . Professor of Pediatrics and Head of the Department
B.S., Washington University, 1919; M.S., 1921; M.D., 1921.
JEAN VALJEAN COOKE . . Professor of Pediatrics
A.B., West Virginia University, 1903; A.B., Yale University, 1904; M.D., Johns Hopkins University, 1908.
ROBERT ALLAN MOORE . Edward Mallinckrodt Professor of Pathology and Head of the Department
B.A., Ohio State University, 1921; M.S., 1927; M.D., 1928; Ph.D., Western Reserve University, 1930.
WILLARD MYRON ALLEN . Professor of Obstetrics and Gynecology and Head of the Department
B.S., Hobart College, 1926; M.A., University of Rochester, 1929; M.D., 1932; Sc.D. (hon.), Hobart College, 1940.
THEODORE EDWIN WALSH . Professor of Otolaryngology and Head of the Department
WILLIAM BARRY WOOD, JR. . Busch Professor of Medicine and Head of the Department
A.B., Harvard University, 1932; M.D., Johns Hopkins University, 1938.
EDWIN FRANCIS GILDEA . Professor of Psychiatry and Head of the Department of Neuropsychiatry
A.B., Colorado College, 1929; M.D., Harvard University, 1934.
ARTHUR LLEWELYN HUGHES . Consulting Physicist
B.Sc., Liverpool University, 1906; M.Sc., 1907; B.A., Cambridge University, 1910; D.Sc., 1917.
BORDEN SMITH VEEDER . Professor of Clinical Pediatrics
M.D., University of Pennsylvania, 1907.
WILLIAM EWING SHAHAN . Professor of Clinical Ophthalmology
A.B., Washington University, 1901; M.D., 1904; A.M., 1912.
JOHN ALBERT KEY . Professor of Clinical Orthopedic Surgery
M.D., Johns Hopkins University, 1918.
GRANDISON DELANEY ROYSTON . Professor of Clinical Obstetrics and Gynecology
M.D., Washington University, 1907.
ARTHUR WALTER PROETZ . Professor of Clinical Otolaryngology
A.B., Washington University, 1910; M.D., 1912.
DALTON KEATS ROSE . Professor of Clinical Genitourinary Surgery
M.D., Washington University, 1915.
T. K. BROWN . . Professor of Clinical Obstetrics and Gynecology
B.S., University of Wisconsin, 1921; M.S., 1922; M.D., Washington University, 1924.
HARRY LOUIS ALEXANDER . . Professor of Clinical Medicine
A.B., Williams College, 1910; M.D., Columbia University, 1914.
EDWARD GRAFTON McGAVREN1
Professor of Public Health Administration
A.B., Butler University, 1924; M.D., Harvard University, 1928; M.P.H., 1934.
E. GURNERY CLARK . Professor of Preventive Medicine and Head of the Department of Public Health and Preventive Medicine
A.B., Vanderbilt University, 1927; M.D., 1931; M.P.H., Johns Hopkins University, 1936; Dr. P.H.L., 1944.
MILDRED TROTTER . Professor of Gross Anatomy
A.B., Mount Holyoke College, 1920; M.S., Washington University, 1921; Ph.D., 1924.

1 Resigned August 31, 1946.
James Lee O'Leary  . . . . . . . . Professor of Neurology  
B.S., University of Chicago, 1921; Ph.D., 1928; M.D., 1931.

Richard Simon Weiss  . . . . . . Professor of Clinical Dermatology and 
Head of the Department of Dermatology
M.D., Washington University, 1909.

Carl Vernon Moore  . . . . . . . Professor of Medicine  
A.B., Washington University, 1918; M.D., 1922.

Henry Gerard Schwartz  . . . . . . Professor of Neurological Surgery  
A.B., Princeton University, 1928; M.D., Johns Hopkins University, 1932.

Hallowell Davis  . . . . . . . . . Research Professor of Otolaryngology and 
Associate Professor of Physiology  
A.B., Harvard University, 1918; M.D., 1922.

Sue Hurt  . . . . . . . . . . . . . . Director of the Department of Occupational Therapy  
B.S., Richmond Institute of the College of William and Mary, 1949.

Frank Richard Bradley  . . . . . . Professor of Hospital Administration and 
Director of the Department of Hospital Administration  
M.D., Washington University, 1928.

Virgil Loeb  . . . . . . . . . . . . . . Lecturer in Stomatology  
A.B., University of Missouri, 1908; M.D., St. Louis University, 1908; D.D.S., 1906.

ASSOCIATE PROFESSORS

Warren Philo Elmer  . . . . . . Associate Professor of Clinical Medicine  
M.D., University of Michigan, 1903; B.S., St. Louis University, 1906.

Harvey Lester White  . . . . . . Associate Professor of Physiology and 
Acting Head of the Department
B.S., Washington University, 1918; M.D., 1920.

Glover H. Copier  . . . . . . . . Associate Professor of Clinical Surgery  
A.B., University of Missouri, 1916; M.D., Washington University, 1918.

William Harwood Olmsted  . . . Associate Professor of Clinical Medicine  
B.S., Coe College, 1909; M.D., Johns Hopkins University, 1913.

Arthur Scott Gilson, Jr.  . . . . Associate Professor of Physiology  
B.S., Dartmouth College, 1919; A.M., Harvard University, 1922; Ph.D., 1924.

Drew William Luten  . . . . . . . Associate Professor of Clinical Medicine  
A.B., University of Kentucky, 1901; M.D., Johns Hopkins University, 1911.

Joseph William Larmore  . . . Associate Professor of Clinical Medicine  
A.B., DePauw University, 1908; M.D., Washington University, 1913.

Robert Elman  . . . . . . . . . . . . . . Associate Professor of Clinical Surgery  
B.S., Harvard University, 1919; M.D., Johns Hopkins University, 1922.

Peter Heinbecker  . . . . . . . . . . Associate Professor of Clinical Surgery  
B.A., McGill University, 1918; M.D., 1921.

James Barrett Brown  . . . . . . Associate Professor of Clinical Surgery  
M.D., Washington University, 1928.

Hugh McCulloch  . . . . . . . . . . Associate Professor of Clinical Pediatrics  
A.B., University of Arkansas, 1908; M.D., Johns Hopkins University, 1912.

Helena Tredway Graham  . . . . Associate Professor of Pharmacology  
A.B., Bryn Mawr College, 1911; A.M., 1912; Ph.D., University of Chicago, 1915.

Martin Hayward Post  . . . . . . . . . Associate Professor of Clinical Ophthalmology  
A.B., Amherst College, 1908; M.D., Johns Hopkins University, 1912.

Nathan Anthony Womack  . . . Associate Professor of Clinical Surgery  
B.S., University of North Carolina, 1922; M.D., Washington University, 1924.

1 On leave of absence 1946-47.
LEONARD THOMPSON FURLOW . . . Associate Professor of Clinical Neurological Surgery
B.S., Emory University, 1923; M.D., 1925.

FRENCH KELLER HANSEL . . . Associate Professor of Clinical Otolaryngology
M.D., St. Louis University, 1918; M.S., University of Minnesota, 1923.

ARTHUR MAXWELL ALDEN . . . Associate Professor of Clinical Otolaryngology
A.B., University of Oklahoma, 1907; A.M., 1909; M.D., St. Louis University, 1915.

JAMES BRAY COSTEN . Associate Professor of Clinical Otolaryngology
A.B., University of Arkansas, 1916; M.D., Washington University, 1922.

Cecil Marvin Charles . . . Associate Professor of Anatomy and Assistant in Clinical Medicine
A.B., University of Kentucky, 1926; A.M., 1927; Ph.D., Washington University, 1929; M.D., 1933.

FREDERICK OSCAR SCHWARTZ . . . Associate Professor of Clinical Ophthalmology
M.D., Washington University, 1910.

MARGARET GLADYS SMITH . . . Associate Professor of Pathology
A.B., Mount Holyoke College, 1918; M.D., Johns Hopkins University, 1922.

GEERTY T. CORI . Associate Professor of Research Biological Chemistry
M.D., University of Prague, 1920.

SAMUEL HAROLD GRAY . . . Associate Professor of Pathology
A.B., Columbia University, 1920; M.D., 1923.

MARTIN KAMEN . Chemist to the Mallinckrodt Radiological Institute
B.S., University of Chicago, 1930; Ph.D., 1936.

RUSSELL JOHN BLATTNER . . . Associate Professor of Pediatrics
A.B., Washington University, 1929; M.D., 1933.

WALTER PAGE COVELL . . . Associate Professor of Anatomy and of Otolaryngology
B.S., Oregon State College, 1921; M.S., 1923; Ph.D., University of Minnesota, 1926; M.D., University of Chicago, 1933.

THOMAS HANNAHAN BURFORD . . . Associate Professor of Surgery
A.B., University of Missouri, 1931; B.S., 1933; M.D., Yale University, 1936.

EUGENE MYRON BRICKER . . . Professor of Surgery
M.D., Washington University, 1934.

WENDELL GARRISON SCOTT . Associate Professor of Clinical Radiology
A.B., University of Colorado, 1928; M.D., Washington University, 1932.

ALFRED D. HERSHEY . . . Associate Professor of Bacteriology and Immunology
Ph.D., Michigan State College, 1934.

A. NORMAN ARNESON . Associate Professor of Clinical Radiology and of Clinical Obstetrics and Gynecology
B.S., Texas Christian University, 1924; M.D., Washington University, 1925.

HENRY ALFRED SCHROEDER . . . Associate Professor of Medicine
A.B., Yale College, 1929; M.D., Columbia University, 1933.

LOUIS HENRY HEMPELMANN, JR. . Associate Professor of Biophysics
A.B., Washington University, 1934; M.D., 1938.

1 Effective January 1, 1947.
ASSISTANT PROFESSORS

ARTHUR OSCAR FISHER . . . Assistant Professor of Clinical Surgery
A.B., University of Wisconsin, 1905; M.D., Johns Hopkins University, 1909.

FRANK HENRY EWERHARDT . . . Assistant Professor of Physical Therapeutics
M.D., Washington University, 1910.

MILLARD FILLMORE ARBUCKLE . . . Assistant Professor of Clinical Otolaryngology
M.D., Washington University, 1909.

HAROLD ATEN BULGER . . . Assistant Professor of Clinical Medicine
B.S., Ohio State University, 1916; M.D., Harvard University, 1920.

JOHN VINCENT LAWRENCE1 Assistant Professor of Clinical Medicine
B.S., University of Chicago, 1917; M.D., Rush Medical College, 1924.

DUFF SHERBIC ALLEN . . . Assistant Professor of Clinical Surgery
M.D., Washington University, 1919.

ETHEL RONZONI BISHOP . Assistant Professor of Biological Chemistry in Neuropsychiatry and Radiology
B.S., Mills College, 1913; A.M., Columbia University, 1914; Ph.D., University of Wisconsin, 1922.

FRANK POWELL MCNALLEY . Assistant Professor of Clinical Obstetrics and Gynecology
B.S., Washington University, 1915; M.D., 1917.

CHARLES DARRELL O'KEEFE . Assistant Professor of Clinical Obstetrics and Gynecology
A.B., University of Missouri, 1916; M.D., Washington University, 1918.

LAWRENCE DORLAND THOMPSON Assistant Professor of Clinical Medicine
B.S., Rutgers College, 1917; M.D., Cornell University, 1922.

ISAAC DES KELLEY, JR. Assistant Professor of Clinical Otolaryngology
B.S., St. Louis University, 1903; M.D., 1908.

ANDREW BLUCHER JONES . Assistant Professor of Clinical Neurology
M.D., Vanderbilt University, 1916.

RICHARD PADDOCK . Assistant Professor of Clinical Obstetrics and Gynecology
M.D., Washington University, 1921.

CLARENCE HARRISON CREGO, JR. . . Assistant Professor of Clinical Orthopedic Surgery
B.S., Union University, 1921; M.D., University of Michigan, 1923.

OTTO ST. CLAIR KREBS . Assistant Professor of Clinical Obstetrics and Gynecology
B.S., Washington University, 1917; M.D., 1919.

BENNETT YOUNG ALVIS Assistant Professor of Clinical Ophthalmology
B.S., St. Louis University, 1916; M.D., 1918.

WILLIAM BRYAN KOUNTZ . Assistant Professor of Clinical Medicine
M.D., Washington University, 1926.

ARCHIE DREYFUS CARR . Assistant Professor of Clinical Neurology
B.S., Washington University, 1918; M.D., 1921.

PHILIP LEONARD VARNEY . Assistant Professor of Bacteriology and Immunology
B.S., Oregon Agricultural College, 1923; M.S., Washington University, 1926; Ph.D., 1933.

ROBERT JAMES CROSEN . Assistant Professor of Clinical Obstetrics and Gynecology
A.B., Oberlin College, 1921; M.D., Washington University, 1925.

1 On leave of absence effective January 1, 1947.
ROGERS DEAKIN  Assistant Professor of Clinical Genitourinary Surgery  
M.D., Washington University, 1922.

VAL BEYER SATTERFIELD  Assistant Professor of Clinical Psychiatry  
B.S., Washington University, 1922; M.D., 1934.

LOUIS LEON TUREEN  Assistant Professor of Clinical Neurology  
B.S., Washington University, 1926; M.D., 1927.

FREDERICK AUGUSTUS JOSTES  Assistant Professor of Clinical Orthopedic Surgery  
B.S., Washington University, 1918; M.D., 1920.

GEORGE DAVID KETTELKAMP  Assistant Professor of Clinical Medicine  
A.B., Central Wesleyan College, 1919; M.D., Washington University, 1914.

WILLIAM MAHLON JAMES  Assistant Professor of Clinical Ophthalmology  
B.S., Drury College, 1923; M.D., Washington University, 1926.

ALFRED J. CONE  Assistant Professor of Clinical Otolaryngology  
B.S., State University of Iowa, 1921; M.D., 1923; M.S., 1926.

JOHN E. HOBBS  Assistant Professor of Clinical Obstetrics and Gynecology  
A.B., Southwest Missouri State Teachers' College, 1923; M.D., Washington University, 1927.

EDGAR ALLAN BLAIR  Assistant Professor of Physiology  
A.B., Vanderbilt University, 1925; M.S., 1927; Ph.D., Washington University, 1933.

HARRY NAYLOR GLICK  Assistant Professor of Clinical Otolaryngology  
A.B., Cornell University, 1916; M.D., St. Louis University, 1922.

CARL REINARD WEGNER  Assistant Professor of Clinical Obstetrics and Gynecology  
A.B., North Central College, 1922; M.D., University of Nebraska, 1926.

SAMUEL RUSSELL WARSON  Assistant Professor of Psychiatry  
A.B., McGill University, 1930; M.D., 1934.

DUDLEY REEVES SMITH  Assistant Professor of Clinical Obstetrics and Gynecology  
M.D., Washington University, 1923.

SAMUEL DAVID SOULE  Assistant Professor of Clinical Obstetrics and Gynecology  
M.D., Washington University, 1928.

FRANKLIN EDWARD WALTON  Assistant Professor of Clinical Surgery  
B.S., Shurtleff College, 1923; M.D., Washington University, 1927.

MELVIN ANDREW ROBBLE  Assistant Professor of Clinical Obstetrics and Gynecology  
B.S., Washington University, 1923; M.D., 1925.

BARRETT LEARNED TAUSSEIG  Assistant Professor of Clinical Medicine  
A.B., Harvard University, 1928; M.D., Washington University, 1932.

ROBERT WILSON BARTLETT  Assistant Professor of Clinical Surgery and Instructor in Anatomy  
B.S., University of Michigan, 1926; M.D., 1930.

LOUIS T. BYARS  Assistant Professor of Clinical Surgery  
B.S., University of Arkansas, 1928; M.D., Washington University, 1932.

LAUREN VEDDER ACKERMAN  Assistant Professor of Pathology  
A.B., Hamilton College, 1927; M.D., University of Rochester, 1932.

IRWIN LEVY  Assistant Professor of Clinical Neurology  
A.B., Cornell University, 1927; M.D., St. Louis University, 1931; Med. Sci. D., Columbia University, 1935.

1 Resigned July 31, 1946.
JOHN HOWARD VAN DYKE  Assistant Professor of Anatomy  
A.B., Colgate University, 1935; M.S., University of New Hampshire, 1937; Ph.D., Cornell University, 1941.

GEORGE SASLOW Assistant Professor of Psychiatry  
B.S., New York University, 1926; Ph.D., 1931; M.D., Harvard University, 1940.

BARNET MORTIMER LEVY Associate in Pathology  

WIRGIL COLE SCOTT Assistant Professor of Preventive Medicine and of Medicine  
B.S., Hobart College, 1932; M.D., University of Rochester, 1937.

BEN HARLAN SENTURIA Assistant Professor of Clinical Otolaryngology  
A.B., Washington University, 1931; M.D., 1935.

LEO J. WADE Assistant Professor of Medicine and of Preventive Medicine, Physician in Charge of Student Health Service  
A.B., Washington University, 1933; M.D., 1938.

FRANCIS EDMUND HUNTER Assistant Professor of Pharmacology  
B.S., Mount Union College, 1938; Ph.D., University of Rochester, 1941.

RAY DAVID WILLIAMS Assistant Professor of Clinical Medicine  
A.B., Hampden-Sydney College, 1930; M.S., Emory University, 1931; M.D., Washington University, 1937.

EDWARD HUMPHREY REINHARD Assistant Professor of Medicine and of Radiology  
A.B., Washington University, 1935; M.D., 1939.

ROBERT EUGENE STOWELL Assistant Professor of Pathology  
A.B., Stanford University, 1936; M.D., 1941; Ph.D., Washington University, 1944.

CONRAD S. SOMMER Assistant Professor of Clinical Psychiatry  
B.S., University of Illinois, 1929; M.S., 1931; M.D., 1932.

HYMAN HERSCHEL FINGERT Assistant Professor of Clinical Psychiatry  
B.A., State University of Iowa, 1931; M.D., 1934.

PAUL WILLIAM FREISLER Assistant Professor of Biological Chemistry  
B.S., Washington University, 1923; M.S., 1926; Ph.D., 1927.

PALMER HOWARD FUTCHER Assistant Professor of Medicine  
A.B., Harvard University, 1932; M.D., Johns Hopkins University, 1936.

JAMES FINDLEY NOLAN Assistant Professor of Obstetrics and Gynecology  
A.B., University of Missouri, 1935; M.D., Washington University, 1938.

ALBERT MILLER Visiting Assistant Professor of Pathology  
B.S., Cornell University, 1933; M.S., 1934; Ph.D., 1938.

SIDNEY FREDERICK VELICK Assistant Professor of Biological Chemistry  
B.S., Wayne University, 1934; M.S., University of Michigan, 1936; Ph.D., 1938.

CHARLES HERMANN EYERMANN Assistant Professor of Clinical Medicine  
M.D., St. Louis University, 1911.

CHARLES WILLIAM DUDEN Assistant Professor of Clinical Medicine  
M.D., Washington University, 1926.

LEO GOTTLIEB Assistant Professor of Clinical Medicine  
A.B., University of Kansas, 1928; A.M., 1932; M.D., Washington University, 1932.

ELSON BOWMAN HELVIG Assistant Professor of Pathology  
B.S., Indiana University, 1930; M.D., 1932.

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* On leave of absence, July, 1946.
* From July 1 to August 31, 1946.
* Resigned August 10, 1946.
KEITH SINGLETON WILSON . . Assistant Professor of Clinical Medicine  
A.B., Williams College, 1930; M.D., Washington University, 1934.  

GORDON SCHOEFFLE . . . . . . . . . Assistant Professor of Physiology  
A.B., De Pauw University, 1937; Ph.D., Princeton University, 1940.  

SHEPPARD MATTHEW WALKER . . Assistant Professor of Physiology  
B.S., Western Kentucky State Teachers College, 1932; A.M., 1938; Ph.D.,  
Louisiana State University, 1941.  

SOL SPIEGELMAN . Assistant Professor of Bacteriology and Immunology  
B.S., College of City of New York, 1940; Ph.D., Washington University, 1944.  

JOHN CHARLES FINERTY . Assistant Professor of Anatomy  
A.B., Kalamazoo College, 1937; M.S., Kansas State College, 1939; Ph.D.,  
University of Wisconsin, 1942.  

SHEPPARD MATTHEW WALKER . . . . . . . . . Assistant Professor of Physiology  
B.S., Western Kentucky State Teachers College, 1932; A.M., 1938; Ph.D.,  
Louisiana State University, 1941.  

SOL SPIEGELMAN . Assistant Professor of Bacteriology and Immunology  
B.S., College of City of New York, 1940; Ph.D., Washington University, 1944.  

JOHN CHARLES FINERTY . Assistant Professor of Anatomy  
A.B., Kalamazoo College, 1937; M.S., Kansas State College, 1939; Ph.D.,  
University of Wisconsin, 1942.  

SHEPPARD MATTHEW WALKER . . . . . . . . . Assistant Professor of Physiology  
B.S., Western Kentucky State Teachers College, 1932; A.M., 1938; Ph.D.,  
Louisiana State University, 1941.  

SOL SPIEGELMAN . Assistant Professor of Bacteriology and Immunology  
B.S., College of City of New York, 1940; Ph.D., Washington University, 1944.  

JOHN CHARLES FINERTY . Assistant Professor of Anatomy  
A.B., Kalamazoo College, 1937; M.S., Kansas State College, 1939; Ph.D.,  
University of Wisconsin, 1942.  

Maurice Edward KrahI . . Assistant Professor of Pharmacology  
A.B., De Pauw University, 1929; Ph.D., Johns Hopkins University, 1932.  

George Murdoch Saunders . Assistant Professor of Preventive Medicine  
B.A., University of Wisconsin, 1923; M.D., Harvard University, 1925.  

Everett D. Sugarbaker . . Assistant Professor of Clinical Surgery  
B.S., Wheaton College, 1931; M.D., Cornell University, 1935.  

Gustave John Dammin . . . . . . . . . Assistant Professor of Medicine and of Pathology  
A.B., Cornell University, 1934; M.D., 1938.  

Ernest holden Parsons . . Assistant Professor of Psychiatry  
A.B., Vanderbilt University, 1927; M.D., 1930.  

Parker R. Beamer . . . Assistant Professor of Pathology  
A.B., University of Illinois, 1935; M.S., 1937; Ph.D., 1940; M.D., Washington  
University, 1943.  

Albert Ingram Lansing 1 . . Assistant Professor of Anatomy  
A.B., University of Pennsylvania, 1937; Ph.D., Indiana University, 1941.  

HeLEN Armstrong 1 . Assistant Professor of Medical Social Work and  
Director of Department of Medical Social Work  
B.A., University of Oklahoma, 1930; M.A., 1940.  

Cyril Mitchell MacBryde 2 . Assistant Professor of Clinical Medicine  
A.B., Washington University, 1926; M.D., Harvard University, 1930.  

Ruth Elizabeth Martin . . Dentist to the Department of Pediatrics  
D.D.S., Washington University, 1928.  

RESEARCH ASSOCIATES  

Valentina SunTzEFF . . . . . . . . . Research Associate in Cytology  
M.D., Women's Medical Institute, Petrograd, Russia, 1917.  

William loyal Simpson . . . . . . . . . Research Associate in Cytology  
S.B., University of Chicago, 1934; Ph.D., 1938.  

Kurt Salomon 3 . Research Associate in Psychiatry and in Radiology  
M.D., University of Frankfort, 1926; Ph.D., University of Freiburg, 1928.  

Christopher Carruthers . . . . . . . . . Research Associate in Anatomy  
B.S., Syracuse University, 1933; M.S., 1935; Ph.D., State University of Iowa,  
1938.  

Judith Partridge Price . . . . . . . . . Research Associate in Biophysics  

1 Effective January 1, 1947.  
2 Effective February 1, 1947.  
3 Resigned August 31, 1946.
MILDRED COHN PRIMA KOFF  Research Associate in Biological Chemistry
B.A., Hunter College, 1931; Ph.D., Columbia University, 1937.

MARY G. RITCHET  Research Associate in Anatomy
M.D., University of Rochester, 1940.

INSTRUCTORS

JEROME EPSTEIN COOK  Instructor in Clinical Medicine
M.D., Washington University, 1905.

ADRIEN BLEYER  Instructor in Clinical Pediatrics
M.D., Missouri Medical College, 1899.

PARK JERVAULD WHITE  Instructor in Clinical Pediatrics
A.B., Harvard University, 1913; M.D., Columbia University, 1917.

PAUL JOHN ZENTAY  Instructor in Clinical Pediatrics and in Clinical Neurology
M.D., University of Kolozsvar, 1914.

PAUL EDWARD KUBITSCHEK  Instructor in Clinical Child Psychiatry
and in Clinical Pediatrics
B.S., Creighton University, 1918; M.D., 1922; D.Sc, University of Pennsylvania, 1928.

WAYNE ARTHUR RUPE  Instructor in Clinical Pediatrics
A.B., University of Missouri, 1916; M.D., Washington University, 1918.

HIRAM SHAW LIGGETT  Instructor in Clinical Medicine
M.D., Washington University, 1920.

JOSEPH FRANCIS BREDECK  Instructor in Clinical Medicine and Lecturer in Public Health
A.B., Christian Brothers College, 1910; M.D., Washington University, 1914; D.P.H., University of Pennsylvania, 1917.

ANTHONY BIGELOW DAY  Instructor in Clinical Medicine
B.S., Harvard University, 1913; M.D., Washington University, 1915.

*HOWARD A. RUSK  Instructor in Clinical Medicine
A.B., University of Missouri, 1923; M.D., University of Pennsylvania, 1925.

ANNE MACGREGOR PERLEY  Instructor in Biological Chemistry in Pediatrics
A.B., Grinnell College, 1927; A.M., University of Nebraska, 1929.

OSCAR CHARLES ZINK  Instructor in Clinical Radiology
M.D., Washington University, 1921.

JOSEPH HOY SANFORD  Instructor in Clinical Genitourinary Surgery
M.D., Tulane Medical College, 1908.

HENRY SPENCE BROOKES, JR.  Instructor in Clinical Surgery
M.D., Washington University, 1917.

CARLIS MALONE STROUD  Instructor in Clinical Medicine
B.S., University of Mississippi, 1924; M.D., Washington University, 1926.

LOUIS F. AITKEN  Instructor in Clinical Medicine
B.S., University of Illinois, 1922; M.D., Washington University, 1927.

J. TED JEAN  Instructor in Clinical Medicine
A.B., Indiana University, 1924; M.D., Washington University, 1928.

LAWRENCE GOLDMAN  Instructor in Clinical Pediatrics
A.B., Washington University, 1924; M.D., 1928.

GROVER BERNARD LIESE  Instructor in Clinical Obstetrics and Gynecology
A.B., Real-Gymnasium, Cassel, Germany, 1910; M.D., University of Heidelberg, 1918.

* Effective January 1, 1947.
* Resigned October 1, 1946.
* In Military Service.
THE SCHOOL OF MEDICINE

William Goodwin Coleman
B.S., Washington University, 1917; M.D., 1919.
Robert Votaw
B.S., State University of Iowa, 1927; M.D., 1929.
Martin Feeney Engman, Jr.
M.D., Washington University, 1928.
Leon Bromberg
A.B., Rice Institute, 1920; M.D., Vanderbilt University, 1924.
Edwin Henry Rohlfing
M.D., Washington University, 1919.
Max Deutch
M.D., Washington University, 1926.
Frederick August Jacobs
B.S., Washington University, 1927; M.D., 1928.
Stanley Leonard Harrison
B.S., Washington University, 1928; M.D., 1930.
Joseph Cabell Jaudon
A.B., Washington University, 1926; M.D., 1933.
Kevin Charles Morrin
Instructor in Clinical Obstetrics and Gynecology
M.D., B.Ch., National University of Ireland, 1921.
Sol Londe
B.S., Washington University, 1925; M.D., 1927.
Adolph Charles Lange
Instructor in Clinical Ophthalmology
B.S., Washington University, 1928; M.D., 1930.
Jay Crawford
Instructor in Clinical Ophthalmology
A.B., Mifflintown Academy, 1902; B.S., Spring Garden Institute, 1905; M.D., Temple Medical College, 1906.
Bruce DeLozier Kenamore
Instructor in Clinical Medicine
A.B., Washington University, 1933; M.D., 1935.
Theodore Eugene Sanders
Instructor in Clinical Ophthalmology
B.S., University of Nebraska, 1931; M.D., 1933.
Henry Cline Allen
Instructor in Pathology and Assistant in Clinical Medicine
M.D., Washington University, 1933.
Lilburn Casper Boemer
B.S., St. Louis University, 1923; M.D., 1925.
Joseph Gitt
M.D., Washington University, 1930.
Joseph Castro Edwards
Instructor in Clinical Medicine
A.B., University of Oklahoma, 1930; M.D., Harvard University, 1934.
Robert Malseed Bell
M.D., St. Louis University, 1928.
Paul Murphy
M.D., St. Louis University, 1926.
Raymond Francis Holden, Jr.
Instructor in Clinical Medicine
B.A., Washington University, 1933; M.D., 1933.
John Wickham Seddon
Ph.D., Yale University, 1931; M.D., Washington University, 1935.
Karl Frederick Koening
Instructor in Clinical Medicine
B.S., University of Illinois, 1923; M.D., Washington University, 1931.

1 On leave of absence effective January 1, 1947.
2 Resigned.
ROBERT WILLIAM ELLIOTT . . . . Instructor in Clinical Medicine
A.B., Washington University, 1932; M.D., 1936.

SYDNEY BROWN MAUGHS . . . . Instructor in Clinical Psychiatry
A.B., Westminster College, 1931; M.D., Washington University, 1936.

WILLIAM HENRY MEINBERG, JR. Instructor in Clinical Ophthalmology
B.S. in Medical Science, Washington University, 1932; M.D., 1932.

HEINZ HAFFNER . . . . Instructor in Clinical Surgery
B.S., University of Arizona, 1931; M.D., Washington University, 1935.

ZOLA KATHARINE COOPER1 . . . . Instructor in Pathology
A.B., Washington University, 1925; M.S., 1926; Ph.D., 1929.

LOUIS HELMAR JORSTAD . . . . Instructor in Clinical Surgery
M.D., Washington University, 1924.

GUARDAN HARDY . . . . Instructor in Clinical Otolaryngology
M.D., Washington University, 1929.

LEE WALLACE DEAN, JR. . . . . Instructor in Clinical Otolaryngology
B.S., Yale University, 1930; M.D., Washington University, 1933.

HERBERT M. SMIT . . . . Instructor in Clinical Otolaryngology
M.D., St. Louis University, 1933.

*ROBERT W. EVANS . . . . Instructor in Anatomy
B.S., Virginia Military Institute, 1935; M.D., University of Virginia, 1939.

**LOUIS HENRY HEMPELMANN, JR.2 . . . . Instructor in Radiology
A.B., Washington University, 1934; M.D., 1938.

MYRON WOODWARD DAVIS . . . . Instructor in Clinical Obstetrics and
Gynecology
M.D., Washington University, 1925.

FRANZ JOSEPH ARZT . . . . Instructor in Clinical Obstetrics and Gynecology
M.D., Washington University, 1926.

WILLARD CALVIN SCRIVNER . . . . Instructor in Clinical Obstetrics and Gynecology
B.S., Washington University, 1928; M.D., 1930.

JOHN B. O'NEILL . . . . Instructor in Clinical Obstetrics and Gynecology
M.D., St. Louis University, 1927.

GEORGE J. L. WULFF, JR. . . . . Instructor in Clinical Obstetrics and Gynecology
A.B., Washington University, 1929; M.D., 1933.

HELMAN CHAIM WASSERMAN . . . . Instructor in Clinical Obstetrics and Gynecology
A.B., Johns Hopkins University, 1928; M.D., Washington University, 1932.

ARTHUR ROBERT BORTNICK . . . . Instructor in Clinical Obstetrics and Gynecology
M.D., Washington University, 1935.

DOROTHY JEANNETTE JONES . . . . Instructor in Clinical Pediatrics
A.B., Oberlin College, 1930; M.D., Washington University, 1934.

CARL AUGUST WATTENBERG . . . . Instructor in Clinical Genitourinary Surgery
A.B., University of Kansas, 1934; M.D., 1937.

STANLEY MILTON LEVYID . . . . Instructor in Clinical Orthopedic Surgery
A.B., State University of Montana, 1930; M.D., Washington University, 1934.

DAVID C. ROTHMAN . . . . Instructor in Clinical Obstetrics and Gynecology

1 Resigned October 1, 1946.
* July 1 to December 31, 1946.
* In Military Service.
** On leave in government war service.
THE SCHOOL OF MEDICINE

MARGARET CRANE-LILLIE GILDEA . . . Instructor in Clinical Psychiatry
B.S., University of Chicago, 1923; M.D., Yale University, 1935.

GEORGE MANTING . . . . . . . Instructor in Clinical Dermatology
M.D., University of Michigan, 1915.

HERMAN JOHN ROSENFELD . . . . . Instructor in Clinical Medicine
M.D., University of Munich (Germany), 1933.

HERBERT BREYFOGLE1 . . . . Instructor in Pathology
A.B., University of Michigan, 1933; M.D., University of Chicago, 1937.

ALLEN B. POTTER . . . . Instructor in Clinical Otolaryngology
A.B., William Jewell College, 1916; M.D., St. Louis University, 1924.

ALBERT CHESTERFIELD STUTSMAN Instructor in Clinical Otolaryngology
B.S., Roanoke College, 1927; M.D., University of Virginia, 1931.

EDWARD WYATT CANNADY . . . . . . Instructor in Clinical Medicine
A.B., Washington University, 1927; M.D., 1931.

DAVID MILLER SKILLING, JR . . . Instructor in Clinical Medicine
B.S., Washington and Jefferson College, 1923; M.D., Washington University, 1928.

HAROLD SCHEFF . . . . Instructor in Clinical Medicine
M.D., University of Toronto, 1931.

JAMES HOWARD BRYAN . . . Instructor in Clinical Ophthalmology
A.B., Washington University, 1932; M.D., 1936.

JOHN LINSCOTT HONER . . . Instructor in Clinical Medicine
A.B., Washington University, 1932; M.D., 1936.

HARRY EWING WACHTER . . . Instructor in Clinical Pediatrics
A.B., Washington University, 1929; M.D., 1933.

ALFRED SYMOUR SCHWARTZ . . . Instructor in Clinical Pediatrics
M.D., Johns Hopkins University, 1936.

EDITH C. ROBINSON . . . Instructor in Clinical Pediatrics
M.D., Johns Hopkins University, 1932.

MARSHALL W. KELLY2 . . . . Instructor in Clinical Surgery
M.D., Washington University, 1936.

MICHAEL MEYER KARL . . . . Instructor in Clinical Medicine
M.D., University of Louisville, 1938.

ARTHUR CHARLES BROOKS . . . . Instructor in Clinical Medicine
B.S., Washington University, 1917; M.D., 1919.

GILBERT BURNETT FORBES3 . . . Instructor in Pediatrics
A.B., University of Rochester, 1936; M.D., 1940.

G. O'NEIL PROUD . . . . Instructor in Otolaryngology
A.B., University of Missouri, 1935; M.D., Washington University, 1939.

ALFRED D. BUCHMUELLER Instructor in Social Service in Neuropsychiatry
A.B., Elmhurst College, 1931.

HARRY WILLIAM WIESE . . . . Instructor in Clinical Medicine
B.S., Washington University, 1920; M.D., 1922.

DONALD STEWART BOTTOM . . . Instructor in Clinical Radiology
A.B., Washington University, 1937; M.D., 1940.

RICHARD WESLEY MAXWELL . . . Instructor in Clinical Medicine, in Clinical Radiology and in Preventive Medicine
A.B., Greenville College, 1932; M.D., University of Chicago, 1937.

CHARLES LEONARD ECKERT . . . Instructor in Clinical Surgery
M.D., Washington University, 1933.

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1 Resigned January 31, 1947.
2 Resigned August 31, 1946.
3 On leave of absence effective July 16, 1946.
JULIUS ELSON  
M.D., Washington University, 1928.

CARL EDWARD LISCHER  
A.B., University of California, 1933; M.D., Washington University, 1937.

FRANK MCDOWELL  
A.B., Drury College, 1932; M.D., Washington University, 1936.

ALFRED MCKEE LARGE  
A.B., University of Toronto, 1933; M.D., 1936.

MILTON HERMAN MEYERHARDT  
Instructor in Clinical Obstetrics and Gynecology
A.B., University of Missouri, 1927; M.D., St. Louis University, 1929.

WILLIAM THOMAS KIMLIN BRYAN  
Instructor in Clinical Otolaryngology  
A.B., Washington University, 1929; M.D., 1933.

OSCAR PERRY HAMPTON, JR.  
Instructor in Clinical Orthopedic Surgery  
M.D., University of Tennessee, 1928.

HARRY AGRESS  
B.S., Washington University, 1932; M.D., 1932.

ARTHUR THOMAS JOHN ESSLINGER  
Instructor in Clinical Obstetrics and Gynecology  
M.D., Washington University, 1940.

SEYMOUR MAURICE MONAT  
Instructor in Clinical Obstetrics and Gynecology  
A.B., University of Pennsylvania, 1935; M.D., Long Island College of Medicine, 1939.

MARTIN SILBERBERG  
M.D., University of Breslau, 1920.

DANIEL BISNO  
B.A., University of Wisconsin, 1927; M.D., Johns Hopkins University, 1931.

RUTH M. SILBERBERG  
M.D., University of Breslau, 1931.

HAROLD K. ROBERTS  
Instructor in Clinical Medicine  
A.B., Ohio State University, 1935; M.D., 1939.

ANTHONY KARL BUSCH  
M.D., St. Louis University, 1937.

KARL RAMSAY SCHLADEMANN  
B.S., Washington State College, 1937; M.D., Northwestern University, 1941.

MERL JOHN CARSON  
A.B., University of North Carolina, 1934; M.D., Vanderbilt University, 1938.

CYRIL JOSEPH COSTELLO  
B.S., University of Texas, 1936; M.D., 1940.

WILLIAM RADY PLATT  
Instructor in Pathology and in Radiology  
B.S., University of Maryland, 1936; M.D., 1940.

THOMAS THALE  
B.S., Loyola University, 1938; M.D., 1940.

HELEN RELLER GOTTSCALK  
Instructor in Dermatology  
A.B., Washington University, 1938; M.D., 1942.

ANNE ELIZABETH ROYER  
Instructor in Medical Psychology  
A.B., Juniata College, 1938; M.A., Ohio State University, 1942.

RICHARD GORDON SCOBEE  
Instructor in Ophthalmology  
A.B., Rice Institute, 1935; M.D., University of Texas, 1939.

Resigned December 15, 1946.
On leave of absence.
Resigned October 1, 1946.
Earl Sutherland
- Instructor in Biological Chemistry
- B.S., Washburn College, 1937; M.D., Washington University, 1942.

R. E. Kious
- Instructor in Public Health
- B.S. in Ed., Northwest Missouri State Teachers College, 1933.

Dorothy L. Flint
- Instructor in Occupational Therapy and Acting Director of the Department

Ada Wells Ford
- Instructor in Occupational Therapy

Robert C. Kingsland
- Instructor in Clinical Medicine
- A.B., Washington University, 1933; M.D., 1937.

James T. Hall
- Instructor in Otolaryngology
- B.S., Southwestern University, 1934; M.D., University of Tennessee, 1937.

Merrill J. Reeh
- Instructor in Ophthalmology
- A.B., University of Nebraska, 1928; M.D., 1932.

Herman Erlanger
- Instructor in Clinical Medicine
- A.B., University of Wisconsin, 1933; M.D., Washington University, 1937.

Fred C. Reynolds
- Instructor in Clinical Orthopedic Surgery
- A.B., Washington University, 1930; M.D., 1934.

Sim F. Beam
- Instructor in Clinical Medicine
- A.B., University of Missouri, 1928; M.D., Washington University, 1932.

Edmund B. Alvis
- Instructor in Clinical Ophthalmology
- M.D., Washington University, 1934.

Harry David Rosenbaum
- Instructor in Clinical Ophthalmology
- M.D., Washington University, 1934.

S. Albert Hanser
- Instructor in Clinical Ophthalmology
- B.S., St. Louis University, 1933; M.D., 1937.

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- M.D., Vanderbilt University, 1939.

Harold Cutler
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- M.D., Tufts College, 1937.

Robert Dean Mattis
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Benjamin Milder
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Anne Carlton Tompkins Gortsch
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Llewellyn Sale, Jr.
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Frank M. Townsend
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1 Resigned October 1, 1946.
ALEX H. KAPLAN  Instructor in Clinical Psychiatry
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*GEORGE ROWE  Instructor in Anatomy
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SIDNEY KAYE  Instructor in Pathology
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RICHARD WILLIAM YORE  Instructor in Military Science and Tactics
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BERNARD FRIEDMAN  Instructor in Clinical Medicine
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J. WALLACE RION  Instructor in Preventive Medicine
B.S., Clemson College, 1937.

MARY LEWIS  Instructor in Social and Environmental Studies
B.A., University of Iowa, 1933; M.S.W., Washington University, 1946.

ASSISTANTS

MAURICE JULIUS LONSWAY  Assistant in Clinical Pediatrics
B.S., Valparaiso University, 1910; M.D., St. Louis University, 1914.

OLIVER ABEL, JR.  Assistant in Clinical Medicine
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FRANCIS JOHN CANEPA  Assistant in Clinical Obstetrics and Gynecology
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HELEN GAGE  Assistant in Clinical Otolaryngology
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BARBARA STANDISH KENDALL  Assistant in Medical Psychology
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MILTON SMITH  Assistant in Clinical Medicine
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IRWIN HERMAN ESKELES  Assistant in Clinical Dermatology
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M.D., Washington University, 1927.

HARRY L. THIEME  Assistant in Clinical Orthopedic Surgery
B.S., St. Louis University, 1922; M.D., 1924.

1 Effective September 15, 1946.
2 Effective September 16, 1946.
3 Effective November 1, 1946.
4 November 1, 1946 to January 15, 1947.
5 Effective January 1, 1947.
<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Education Details</th>
</tr>
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<tbody>
<tr>
<td>Kurt Mansbacher</td>
<td>Assistant in Clinical Medicine</td>
<td>M.D., Friedrich-Wilhelms University, 1919.</td>
</tr>
<tr>
<td>Leslie Endicott Patton</td>
<td>Assistant in Clinical Obstetrics and Gynecology</td>
<td>B.S., St. Louis University, 1921; M.D., 1924.</td>
</tr>
<tr>
<td>Paul Franklin Max</td>
<td>Assistant in Clinical Obstetrics and Gynecology</td>
<td>B.S., Washington University, 1932; M.D., 1932.</td>
</tr>
<tr>
<td>Morris Moore</td>
<td>M ycologist to the Department of Dermatology</td>
<td>B.S., Boston University, 1928; A.M., Harvard University, 1929; Ph.D., Washington University, 1932.</td>
</tr>
<tr>
<td>Helen Margaret Aff</td>
<td>Assistant in Clinical Pediatrics</td>
<td>B.S., Washington University, 1934; M.D., 1934.</td>
</tr>
<tr>
<td>Maurice Bernard Roche</td>
<td>Assistant in Clinical Orthopedic Surgery</td>
<td>M.D., St. Louis University, 1933.</td>
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<tr>
<td>Benjamin Hynes Charles</td>
<td>Assistant in Clinical Medicine</td>
<td>M.B., Ch.B., University of Edinburgh, 1934.</td>
</tr>
<tr>
<td>Herman Hutto</td>
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<td>A.B., University of Alabama, 1932; M.D., Washington University, 1935.</td>
</tr>
<tr>
<td>James William Bagby</td>
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<td>A.B., University of Missouri, 1930; B.S., 1931; M.D., Washington University, 1933.</td>
</tr>
<tr>
<td>Morris David Marcus</td>
<td>Assistant in Clinical Dermatology</td>
<td>M.D., Washington University, 1934.</td>
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<tr>
<td>Carl Jacob Althaus</td>
<td>Assistant in Clinical Genitourinary Surgery</td>
<td>M.D., St. Louis University, 1917.</td>
</tr>
<tr>
<td>Harry Cutler</td>
<td>Assistant in Clinical Genitourinary Surgery</td>
<td>M.D., St. Louis University, 1939.</td>
</tr>
<tr>
<td>Harold Henry Feller</td>
<td>Assistant in Clinical Genitourinary Surgery</td>
<td>M.D., Washington University, 1926.</td>
</tr>
<tr>
<td>Jules H. Kopp</td>
<td>Assistant in Clinical Genitourinary Surgery</td>
<td>M.D., University of Arkansas, 1931.</td>
</tr>
<tr>
<td>Carl J. Heifetz</td>
<td>Assistant in Clinical Surgery</td>
<td>B.S., Washington University, 1925; M.D., 1929.</td>
</tr>
<tr>
<td>Loren Francis Blaney</td>
<td>Assistant in Clinical Medicine</td>
<td>A.B., Washington University, 1934; M.D., 1938.</td>
</tr>
<tr>
<td>Andy Hall, Jr.</td>
<td>Assistant in Clinical Genitourinary Surgery</td>
<td>M.D., Washington University, 1926.</td>
</tr>
<tr>
<td>Virginia Minnich</td>
<td>Research Assistant in Hematology in Medicine</td>
<td>B.S., Ohio State University, 1937; M.S., Iowa State College, 1938.</td>
</tr>
<tr>
<td>John Harrison Wedig</td>
<td>Assistant in Clinical Medicine</td>
<td>M.D., Washington University, 1938.</td>
</tr>
<tr>
<td>Philip Shannon Mountjoy</td>
<td>Assistant in Clinical Otolaryngology</td>
<td>A.B., Washington University, 1933; M.D., 1937.</td>
</tr>
<tr>
<td>Alfred Fleishman</td>
<td>Assistant in Clinical Medicine</td>
<td>B.S., Washington University, 1935; M.D., 1935.</td>
</tr>
<tr>
<td>Virgil Otto Fish</td>
<td>Assistant in Clinical Surgery</td>
<td>M.D., Washington University, 1930.</td>
</tr>
<tr>
<td>Gerhard Elias Gruenfeld</td>
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<td>M.D., Friedrich-Wilhelms University, 1923.</td>
</tr>
</tbody>
</table>
HAROLD E. FREEDMAN  . . . . . . . Assistant in Clinical Medicine  
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B.S.M.E., Washington University, 1929.

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1 July 1 to December 31, 1946.
2 Resigned October 31, 1946.
MILTON WILBUR SLEIN .... Research Assistant in Biological Chemistry
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ADOLPH A. BALUKA Assistant in Occupational Therapy

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THE SCHOOL OF MEDICINE

WILLIAM ROSE, M.D., Washington University, 1938. Assistant in Clinical Surgery

SIDNEY ZOLMAN HILBERT, B.A., University of Wisconsin, 1938; M.D., 1941. Assistant in Neuropsychiatry

RUTH BARKER GEBSTUNG. Research Assistant in Bacteriology in Pediatrics

B.A., Washington University, 1917.

JAMES Q. BLACKWOOD, Research Assistant in Preventive Medicine M.D., University of Arkansas, 1937; M.P.H., Johns Hopkins University, 1942.

ROBERT ANSCHUETZ, M.D., Washington University, 1940. Assistant in Surgery

WILLIAM SHEPLEY CURTIS, A.B., Dartmouth College, 1936; M.D., Washington University, 1940. Assistant in Radiology

EZRA L. EVANS, JR., B.S., Drury College, 1933; M.D., Washington University, 1934. Assistant in Pediatrics

SAMUEL WALTER GOLLUB, B.A., Washington University, 1934. Assistant in Pediatrics

HENRY HARRIS GRAHAM, B.S., University of Florida, 1937; M.D., Cornell University, 1941. Assistant in Medicine

ALFRED KAHN, JR., B.A., Washington and Lee University, 1938; M.D., Harvard University, 1940. Assistant in Medicine

FRANK JOSEPH KELLY, B.S., Notre Dame University, 1945; M.D., Washington University, 1945. Assistant in Medicine

STANFORD S. KROOFF, A.B., Stanford University, 1937; M.D., Harvard University, 1941. Assistant in Medicine

WARREN MELLIES LONERGAN, A.B., Westminster College, 1936; M.D., Vanderbilt University, 1940. Assistant in Medicine

EDWARD MARTIN, B.S., University of Connecticut, 1936; M.D., Yale University, 1940. Assistant in Medicine

JOHN CHARLES MARTZ, A.B., University of Missouri, 1938; B.S., 1939; M.D., Washington University, 1942. Assistant in Pediatrics

JOSEPH WILLIAM NOAH, A.B., University of Missouri, 1933; B.S., 1939; M.D., Washington University, 1941. Assistant in Medicine

JANET SCOVILLE, M.D., Columbia University College of Physicians and Surgeons, 1943. Assistant in Pediatrics

DAVID ROYAL WALL, A.B., University of Kansas, 1933; M.D., Washington University, 1937. Assistant in Neuropsychiatry

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WILLIAM S. FIELDS, Rockefeller Postwar Assistant in Neuropsychiatry A.B., Harvard College, 1934; M.D., 1938.

SAMUEL BUKANTZ, B.S., New York University, 1930; M.D., 1934. Research Assistant in Medicine

* Resigned October 31, 1946.
1 Resigned December 31, 1946.
2 Resigned November 30, 1946.
3 Resigned October 31, 1946.
<table>
<thead>
<tr>
<th><strong>SANFORD ROY DIETRICH</strong></th>
<th>Assistant in Surgery</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.B., Yale University, 1941; M.D., 1944.</td>
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<tr>
<th><strong>GILES FRANKLIN FILLEY</strong></th>
<th>Assistant in Medicine</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.A., Williams College, 1937; M.D., Johns Hopkins University, 1942.</td>
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<tr>
<th><strong>BETTY BEN GEREN</strong></th>
<th>Assistant in Pathology</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.S., University of Arkansas, 1942; M.D., Washington University, 1945.</td>
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<thead>
<tr>
<th><strong>HOWARD GEST</strong></th>
<th>Research Assistant in Radiology</th>
</tr>
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<tbody>
<tr>
<td>A.B., University of California at Los Angeles, 1942.</td>
<td></td>
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<tr>
<th><strong>JAMES GOODFRIEND</strong></th>
<th>Assistant in Pediatrics</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.A., University of Missouri, 1934; Ph.D., Oxford University, 1938; M.D., Northwestern University, 1940.</td>
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<tr>
<th><strong>RICHARD JOHNSON</strong></th>
<th>Assistant in Pathology</th>
</tr>
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<tr>
<td>A.B., Lafayette College, 1939; M.D., Johns Hopkins University, 1939.</td>
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<thead>
<tr>
<th><strong>ROBERT KOCH</strong></th>
<th>Assistant in Clinical Medicine</th>
</tr>
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<td>A.B., Washington University, 1936; M.D., 1940.</td>
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<tr>
<th><strong>LAWRENCE MELVIN KOTNER</strong></th>
<th>Assistant in Clinical Medicine</th>
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<tr>
<td>A.B., Washington University, 1934; M.D., 1938.</td>
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<tr>
<th><strong>J. OLIVER LAMPTEN</strong></th>
<th>Research Assistant in Biological Chemistry</th>
</tr>
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<tr>
<td>A.B., Hope College, 1939; Ph.D., University of Wisconsin, 1943.</td>
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<tr>
<th><strong>WILLIAM A. MOOR</strong></th>
<th>Assistant in Ophthalmology</th>
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<td>A.B., Washington University, 1935.</td>
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<tr>
<th><strong>ROBERT JOHN MUELLER</strong></th>
<th>Assistant in Clinical Psychiatry</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.D., Washington University, 1936; M.S., University of Michigan, 1942.</td>
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<tr>
<th><strong>JOSEPH H. OGURA</strong></th>
<th>Assistant in Otolaryngology</th>
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<td>A.B., University of California, 1937; M.D., 1941.</td>
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<tr>
<th><strong>MORTON DONALD PAREIRA</strong></th>
<th>Assistant in Clinical Surgery</th>
</tr>
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<td>A.B., Washington University, 1933; M.D., 1937.</td>
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<tr>
<th><strong>HERBERT B. SHIELDS</strong></th>
<th>Assistant in Ophthalmology</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.B., Phillips University, 1934; B.S., University of Oklahoma, 1935; M.D., 1937.</td>
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<tr>
<th><strong>ROBERT MOORE SMITH</strong></th>
<th>Assistant in Clinical Medicine</th>
</tr>
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<td>A.B., Washington University, 1938; M.D., 1940.</td>
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<tr>
<th><strong>JAMES C. STREETT, JR.</strong></th>
<th>Assistant in Embryology</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.B., University of Missouri, 1934; Ph.D., University of Chicago, 1937.</td>
<td></td>
</tr>
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<tr>
<th><strong>DONALD LIONELL THURSTON</strong></th>
<th>Assistant in Pediatrics</th>
</tr>
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<tr>
<td>B.S., Vanderbilt University, 1934; M.D., 1937.</td>
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<tr>
<th><strong>GLENN O. TURNER</strong></th>
<th>Assistant in Medicine</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.B., Southwest Missouri State Teachers College, 1938; B.S., University of Missouri, 1940; M.D., Washington University, 1942.</td>
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<tr>
<th><strong>FRANK VELLIOS</strong></th>
<th>Assistant in Pathology</th>
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<tr>
<td>M.D., Washington University, 1946.</td>
<td></td>
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<tr>
<th><strong>MARGUERITE BICK</strong></th>
<th>Assistant in Clinical Occupational Therapy</th>
</tr>
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<tr>
<td>Ph.B., University of Chicago, 1922.</td>
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<tr>
<th><strong>ETTA W. HARKNESS</strong></th>
<th>Assistant in Clinical Occupational Therapy</th>
</tr>
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<tr>
<td>A.B., Washington University, 1925.</td>
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<tr>
<th><strong>ELIZABETH WALLER</strong></th>
<th>Assistant in Clinical Occupational Therapy</th>
</tr>
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<tr>
<td>Ph.B., University of Chicago, 1922.</td>
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<tr>
<th><strong>FREDERIC R. VEEDER</strong></th>
<th>Assistant in Hospital Administration</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.A., University of Montana, 1931; M.A., University of Chicago, 1938.</td>
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<tr>
<th><strong>EUGENE WEBER</strong></th>
<th>Assistant in Clinical Dermatology</th>
</tr>
</thead>
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<tr>
<td>M.D., Northwestern University, 1940.</td>
<td></td>
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</tbody>
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1 July 1 to December 31, 1946.
2 Resigned August 31, 1946.
FRANK O. SHOBE
A.B., Washington University, 1938; M.D., 1942.

BERNARD S. GORDON
A.B., University of Michigan, 1937; M.D., University of Louisville, 1942.

MEELVIN GOLDMAN
A.B., Washington University, 1939; M.D., 1943.

ALPHONSE H. MEYER, JR.
S.B., Harvard University, 1940; M.D., 1943.

FREDERICK KNOKE
A.B., Washington University, 1939; M.D., 1943.

HELEN MCGINNIS
B.A., Grinnell College, 1938.

GEORGE L. HAWKINS
A.B., University of Missouri, 1937; M.D., Columbia University, 1941.

DOROTHY REESE RITZMAN
A.B., Valparaiso University, 1940; M.D., Washington University, 1944.

ROBERT A. RYAN, JR.
A.B., University of Missouri, 1938; B.S., 1940; M.D., Rush Medical College, 1942.

STANLEY TURKEL
B.S., University of Nebraska, 1944; M.D., 1944.

J. P. COLE
A.B., University of Arkansas, 1939; M.S., Michigan State College, 1941; M.D., Columbia University, 1944.

EDWIN G. KREBS
B.S., University of Illinois, 1940; M.D., Washington University, 1943.

JAMES RICHARD PAUL
A.B., University of Nebraska, 1938; M.D., 1942.

DONALD H. SIMONSEN
B.A., Reed College, 1943; M.A., Oregon State College, 1945.

ROBERT ROY ROBINSON, JR.
A.B., University of Missouri, 1934; M.D., Washington University, 1938.

LEO A. SACHAR
A.B., Washington University, 1936; M.D., 1940.

CHI-HSUIN ULRIC CHU
B.S., Nanking University, 1931; M.D., 1940.

RICHARD A. JONES
B.A., Westminster College, 1940; M.D., Washington University, 1943.

DAVID N. MCCLURE
B.A., Overbrook College, 1934; M.D., Temple University, 1938.

LEO FRANCIS GOWEN
B.S., University of Illinois, 1936; D.Sc., Johns Hopkins University, 1940; M.D., Washington University, 1943.

1 Effective July 8, 1946.
2 Effective July 15, 1946.
3 Effective August 1, 1946.
4 Effective September 1, 1946.
5 September 1, 1946, to February 25, 1947.
7 Effective September 25, 1946.
8 Effective October 1, 1946.
9 Effective November 1, 1946.
RALPH BENSON WOOLF: Assistant in Obstetrics and Gynecology
B.S., Massachusetts Institute of Technology, 1935; M.D., University of Rochester, 1939.

PAUL D. KELLER: Assistant in Surgery
M.D., University of Oregon, 1939.

ROBERT K. ROYCE: Assistant in Surgery
B.S., University of Mississippi, 1939; M.D., Washington University, 1942.

HOWARD S. J. WALKER: Assistant in Surgery
B.S., The Citadel, 1937; M.D., Washington University, 1941.

LECTURERS

JOSEPH C. WILLETT: Lecturer in Public Health
D.V.M., United States Veterinary College, 1920.

ROY EARL MASON: Lecturer in Clinical Ophthalmology
M.D., St. Louis University, 1906.

EDGAR VAN NORMAN EMERY: Lecturer in Psychiatry
M.B., University of Toronto, 1911; M.D., 1931.

WILLIAM W. CROWDS: Lecturer in Medical Jurisprudence
LL.D., Washington University, 1922.

RAYMOND C. SUnderMAN: Lecturer in Industrial Health
M.D., Washington University, 1922.

ARTHUR LINK KOVEN: Lecturer in Industrial Health
B.A., New York University, 1936; M.D., Louisiana State University, 1941.

ALEXANDER EDWARD MURPHY: Lecturer in Dental Health
D.D.S., University of Toronto, 1921; M.S.P.H., University of Michigan, 1941.

SOL RICHARD SILVERMAN: Lecturer in Audiology
A.B., Cornell University, 1933; M.S., Washington University, 1938; Ph.D., 1942.

LELAND HANCHE: Lecturer in Preventive Medicine
B.S., University of Nebraska, 1928; M.D., 1930.

GRAHAM F. STEPHENS: Lecturer in Hospital Administration and Assistant Director of the Department of Hospital Administration
B.A., University of Manitoba, 1926; M.B.A., University of Chicago, 1938.

WILLIAM ANDERSON: Lecturer in Hospital Administration
B.A., Washington University, 1920; M.D., 1922.

MAYNARD W. MARTIN: Lecturer in Hospital Administration
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HARRY J. MOHLER: Lecturer in Hospital Administration

E. BRYAN QUARLES: Lecturer in Hospital Administration
B.S., University of Richmond, 1932; M.D., Medical College of Virginia, 1937.

ESTELLE CLAIBORNE: Lecturer in Hospital Administration
F.A.C.H.A.

PAUL I. ROBINSON: Lecturer in Hospital Administration
B.S., Washington University, 1928; M.D., 1928.

FLORENCE ELLEN KING: Lecturer in Hospital Administration

HENRIETTA BECKER: Lecturer in Dietetics
B.S. in Ed., University of Kansas, 1937.

* Effective January 1, 1947.
* Resigned October 1, 1946.
LEOPOLD HOFSTATTER  Research Fellow in Neuropsychiatry
M.D., University of Vienna, 1926.

HAROLDO RENAUD DE OLIVEIRA  Fellow in Chest Surgery
M.D., University of Rio De Janeiro (Brazil), 1942.

RICHARD THOMAS O'DELL  Fellow in Orthopedic Surgery
A.B., Westminster College, 1925; B.S. in Medicine, University of Missouri, 1941; M.D., Washington University, 1943.

WILLIAM B. SHALLECK  Research Fellow in Biophysics
Ph.D., Harvard University, 1946.

CHARLES W. MILLS  Fellow in Obstetrics and Gynecology
M.D., University of Pennsylvania, 1938.

MASON TRUPP  Fellow in Neurological Surgery
B.S., Washington College, 1933; M.D., University of Maryland, 1937.

VICTOR A. HUGHES  Fellow in Obstetrics and Gynecology
M.D., University of Tennessee, 1932.

GRAHAM TAYLOR WEBSTER  Research Fellow in Biological Chemistry
A.B., Harvard University, 1931; M.D., 1935.

ALEX HARELL  Baruch Fellow in Physical Medicine and Fellow in Orthopedic Surgery
M.D., Washington University, 1942.

CHARLES LAIRD WILSON  National Research Council Fellow in Orthopedic Surgery
B.Sc., McGill University, 1938, M.D., 1940.

GERMAIN CARTOTTO  Fellow in Thoracic and Plastic Surgery
M.D., University of Marseilles, 1943.

ISHAN ALI DOGRAMACI  Fellow in Pediatrics
M.D., Istanbul University, 1938.

LEE T. FORD, JR.  Fellow in Orthopedic Surgery
M.D., University of Tennessee, 1940.

F. J. MANGANAROS  Fellow in Pathology
M.D., Creighton University, 1941.

FLOYD ATWELL  Fellow in Obstetrics and Gynecology
B.S., Geneva College, 1933; M.D., Jefferson Medical College, 1937.

EDGAR HAYDEN KEYS, JR.  Fellow in Obstetrics and Gynecology
A.B., Washington University, 1935; M.D., 1939.

JOHN HENRY MAYER, JR.  Fellow in Chest Surgery
M.D., Cornell University, 1939.

HOWARD E. MCKNIGHT  Fellow in Obstetrics and Gynecology
B.S., University of Dayton, 1938; M.D., University of Cincinnati, 1941.

JOHN M. REINER  National Research Council Fellow in Bacteriology
M.S., University of Chicago, 1939; Ph.D., University of Minnesota, 1940.

ROBERT ALVIN RIX, JR.  Fellow in Neurological Surgery
B.A., East Texas State College, 1937; M.D., University of Texas, 1941.

CHARLES BARBER MUELLER  Fellow in Surgery
A.B., University of Illinois, 1933; M.D., Washington University, 1942.

1 July 1 to August 31, 1946.
2 Resigned August 31, 1946.
3 July 1, 1946 to January 31, 1947.
4 July 1 to December 31, 1946.
5 Resigned October 1, 1946.
6 Resigned December 31, 1946.
7 Effective October 1, 1946.
BULLETIN OF WASHINGTON UNIVERSITY

BEN EISEMAN¹ Fellow in Surgery
B.A., Yale University, 1936; M.D., Harvard University, 1943.

ALBERT ROOS Research Fellow in Medicine
M.D., Groningen Medical School, Utrecht, 1940.

FREDERICK G. SHERMAN² Research Fellow in Bacteriology
Ph.D., Northwestern University.

JOHN COVINGTON TINSLEY, JR. Research Fellow in Hematology
B.S., College of William and Mary, 1939; M.D., University of Virginia, 1943.

H. H. WANDALL Visiting Fellow in Thoracic Surgery

RALPH BENSON WOOLF³ Research Fellow in Obstetrics and Gynecology
B.S., Massachusetts Institute of Technology, 1935; University of Rochester, 1941.

GILMORE MAURICE SANES⁴ Fellow in Chest Surgery
B.S., University of Pittsburgh, 1933; M.D., 1937.

JOSEPH P. KRIS¹ Fellow in Metabolism
B.S., Pennsylvania State College, 1939; M.D., Yale University, 1943.

ALBERT STEWART¹ Fellow in Medicine
A.B., University of North Carolina, 1941; M.D., Washington University, 1944.

SIGWIN B. RASKA⁵ Research Fellow in Medicine
Ph.D., University of Berne, 1935; M.A., University of Toronto, 1942.

BLAKE STROTHER TALBOTT⁶ Fellow in Urology
B.S., University of Missouri, 1939; M.D., University of Chicago, 1941.

NILS OLOF HUGO LINDBERG⁷ Swedish-American Foundation Fellow in Biological Chemistry
Ph.D., University of Brussels, 1945.

VICTOR A. NAJJAR⁷ National Research Council Fellow in Pediatrics in Biological Chemistry
M.D., American University in Beirut, Lebanon, 1935.

JEAN MARIE WIAME⁸ Belgian-American Foundation Fellow in Biological Chemistry
Ph.D., University of Brussels, 1945.

BRANKO FEMENIC⁸ Rockefeller Fellow in Otolaryngology
M.D., University of Zagrab, 1941.

¹ Effective September 1, 1946.
² July 1 to August 31, 1946.
³ Effective July 1 to December 31, 1946.
⁴ Effective July 16, 1946.
⁵ Effective September 25, 1946.
⁶ Effective October 1, 1946.
⁷ Effective November 1, 1946.
⁸ Effective January 1, 1947.
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HARRY L. ALEXANDER ................................ Associate Physician
E. GURNEY CLARK ........................................ Associate Physician

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WALTER FISCHEL ........................................ SAMUEL B. GRANT
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KARL KOENIG
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CECIL M. CHARLES
LEON BROMBERG
EDWARD CANNADY
BARTLET TAUSIG
LEO GOTTLEIB
DAVID SKILLING
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TRUMAN DRAKE
CARL HARFORD
BRUCE KENAMORE
BEN H. CHARLES
SIM BEAM
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JOSEPH C. EDWARDS
JOHN R. SMITH
KURT MANSBAECHER
MALCOLM M. COOK
JOHN HORNER
ROBERT KELLEY
ROBERT W. ELLIOTT
RAYMOND F. HOLDEN
STANLEY HAMPTON
JOHN H. WEDIG
LEO WADE
JAMES BAGBY
ARTHUR C. BROOKS
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EDWARD REINHARD
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HERMAN ERLANGER
ROBERT KINGSLAND
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HENRY A. SCHROEDER
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Fellows

SAMUEL BUKANTZ
KLEYBERG ECKHARDT
JOHN D. MOSSMAN
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ALBERT STEWART
JOSEPH KRISS

ALBERT ROOS
JAMES SUTTON
HERBERT PULLER
LEROY E. BORKON
JOHN C. TINSLEY
MELVIN GOLDMAN

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Resident on Ward Service
ROBERT J. GLASER

Assistant Residents on Ward Service
HENRY GRAHAM
EDWARD MARTIN
WILLIAM LONERGAN
S. S. KROOFF
GILES FILLEY

Interns on Ward Service
JOSEPH HILSMAN
ERNEST ROUSE
GLADDEN V. ELLIOTT
CARL L. COOK
STANLEY W. THIEL
GREGORY C. GRESSEL
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JAMES G. HIRSCH
Resident on Private Service
DAVID N. KERR

Assistant Residents on Private Service
RICHARD JONES
FRANK KELLY
ALFRED KAHN
JOSEPH NOAH
GLENN O. TURNER

Interns on Private Service
LAWRENCE K. MAC DANIELS
GILBERT CHAMBERLAIN, JR.
PATRICIA F. LANIER
BOYD E. HAYWARD
EDWARD S. HYMAN
H. MITCHELL PERRY
CHARLES L. SHAFER
JAMES W. OWEN

Surgery

Evarts A. Graham . . . . . . . . . . Surgeon-in-Chief
Ernest Sachs . . . . . . . . . . Associate Surgeon
Vilray P. Blair . . . . . . . . . . Associate Surgeon
Malvern B. Clopton . . . . . . . . Associate Surgeon
J. Albert Key . . . . . . . . . . Associate Surgeon
Dalton K. Rose . . . . . . . . . . Associate Surgeon
Henry G. Schwartz . . . . . . . . Associate Surgeon

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ARTHUR O. FISHER
MAJOR G. SEALIG
GLOVER H. COPHER
J. HOY SANFORD
ROGERS DEAKIN
DUFF S. ALLEN
J. BARRETT BROWN
FREDERICK A. JOSTES
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ROBERT ELMAN
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FRANKLIN E. WALTON
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LEONARD T. FURLOW
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H. R. MCCARROLL
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HEINZ HAFFNER
CARL LISCHER
ALFRED M. LARGE
CHARLES ECKERT
LEON FOX
THOMAS BURFORD
CYRIL J. COSTELLO
FRED REYNOLDS

Voluntary Assistant G. U. Surgeons

CARL J. ALTHAUS
HARRY CUTLER
HAROLD FELLER

JULES H. KOOP
K. O. WILSON
Fellows

Neurosurgery
NATHAN RIFKINSON
MASON TRUPP
GEORGE ROULHAC
R. ALVIN RIX

Thoracic
JOHN MAYER
GILMORE SANES

Orthopedic
RICHARD ODELL
C. LAIRD WILSON
LEE T. FORD
ALEX HARELL

Plastic
FRANK L. MEANY
MERTON D. HATCH
MINOT P. FRYER

House Staff

Instructor of Students and Director of Surgical House Staff
JOHN J. MODLIN

Resident in General Surgery ........ YASUYUKI FUKUSHIMA
Resident in Plastic Surgery ........ GORDON LETTERMAN
Assistant Resident in Urology ....... JAMES L. PETRY

Assistant Residents in General Surgery
ROBERT ANSCHUETZ
RUSSELL J. CRIDER
SANFORD R. DIETRICH
FRED J. GRAY, JR.
PAUL D. KELLER
R. LEONARD KEMLER
F. LOUIS KNOTTS
CHARLES E. LOCKHART
ALPHONSE H. MEYER, JR.
DARWIN W. NEUBAUER
WILLIAM R. OAKES
MORDANT E. PECK
ROBERT K. ROYCE
HENRY SCHWARZ II

Interns in General Surgery
MARTIN BERGMANN
JAMES W. BROOKS
ROBERT E. FUNSCH
ROBERT B. KING
C. ALAN MCAFEE
JOHN F. NEVILLE, JR.
DAVID R. OLIVER
CHARLES A. ROSS, JR.
HARRISON H. SHOULDERS, JR.
RICHARD G. SISSON
WILLARD B. WALKER
GEORGE WATKINS
FRED G. SCHWEITZER

Pathology

ROBERT A. MOORE ................. Pathologist-in-Chief

Assistant Pathologists
MARGARET SMITH
JOHN SAXTON
HERBERT BREYFOGLE
ROBERT STOWELL

GUSTAVE J. DAMMIN
WILSON BROWN
PARKER BEAMER
THE SCHOOL OF MEDICINE

Fellows
FRANK TOWNSEND
OSCAR RAMBO

House Staff
RICHARD JOHNSON

Assistant Residents
BETTY BEN GEREN

Intern
FRANK VELLIOS

Radiology
SHERWOOD MOORE . . . . . . . . . . . . . . . . . . Radiologist-in-Chief
JOSEPH W. LARIMORE . . . . . . . . . . . . . . . . . Associate Radiologist
WENDELL G. SCOTT . . . . . . . . . . . . . . . . . Associate Radiologist

Assistant Radiologists
OSCAR ZINK
DONALD BOTTOM

Fellow
GEORGE FRASER

House Staff
WILLIAM STANBRO

Assistant Resident
WILLIAM CURTIS

Interns
GARLAND G. ZEDELER
JAMES W. LITTLE

Dermatology
MARTIN F. ENGMAN . . . . . . Dermatologist-in-Chief Emeritus
RICHARD S. WEISS . . . . . . . . . . . . . . . . . . . . Dermatologist-in-Chief

Assistant Dermatologists
A. H. CONRAD, SR.
WILLIAM G. COLEMAN
MARTIN F. ENGMAN, JR.

CLINTON W. LANE
IRWIN ESKELES
ADOLPH H. CONRAD, JR.

Fellows
CALVIN ELLIS
N. R. KRUPKIN
B. E. Lischer
Otto W. Brandhorst
James A. Brown
William B. Spotts
Holmes T. Knighton

Dentist-in-Chief Emeritus
Dentist-in-Chief
Associate Dentist
Associate Dentist
Associate Dentist

B. E. Lischer
Otto W. Brandhorst
James A. Brown
William B. Spotts
Holmes T. Knighton

Assistant Dentists

Lester H. Jasper
E. C. Brooks
William E. Koch, Jr.
Harold A. Eskew
Webb B. Gurley

LeRoy W. Peterson
Ruth E. Martin
Sidney E. Jaynes
Woodrow O’Brien

House Staff

Resident
R. Jerry Bond
Intern
Thomas Charles

Physical Therapy

Frank H. Ewerhardt

Physician-in-Charge

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ADMINISTRATIVE STAFF FOR THE CITY OF ST. LOUIS

HENRY S. CAULFIELD .................................. Director of Public Welfare
F. M. GROGAN, M.D. .................................. Commissioner of Hospitals
CYRIL COSTELLO, M.D. ................................ Medical Director of City Hospital
CLINTON F. SMITH .................................. Superintendent of City Hospital
VIRGIL MCKNIGHT .................................. Superintendent of Homer G. Phillips Hospital
HANS MOLHOLM, M.D. ................................ Superintendent of Malcolm A. Bliss Psychiatric Institute
LOUIS KOHLER, M.D. ................................ Superintendent of City Sanitarium
JOSEPH B. SHANK, M.D. ................................ Superintendent of City Infirmary
GEORGE D. KETTELFKAMP, M.D. ........................... Superintendent of Robert Koch Hospital
SAM GRAY, M.D. .................................. Director, Snodgrass Laboratory

CITY HOSPITAL (MAX STARKLOFF MEMORIAL)

UNIT I

MEDICINE

BARRETT TAUSSIG .................................. Section Head

Visiting Physicians

WALTER BAUMGARTEN, JR. .................................. ROBERT W. KELLEY
SIM F. BEAM ........................................... MELVIN B. KIRSTEIN
JOSEPH C. EDWARDS .................................. RICHARD MAXWELL
HAROLD FREEDMAN .................................. EDWARD REINHARD
LEO GOTTLIEB ........................................ LLEWELLYN SALE, JR.
PAUL HAGEMAN ....................................... KEITH WILSON
MICHAEL KARL ........................................

Consultants

JOSEPH C. EDWARDS .................................. Metabolism
I. J. FLANCE ........................................ Chest
ALFRED FLEISHMAN .................................. Gastroscopist
LEO GOTTLIEB ........................................ Cardiology
CARL HARFORD ...................................... Infectious Diseases
ROBERT W. KELLEY .................................. Gastroenterology
CARL V. MOORE ...................................... Hematology
VIRGIL SCOTT ........................................ Venereal Diseases
KEITH WILSON ....................................... Allergy
W. BARRY WOOD, JR. ................................ Medicine
DERMATOLOGY

Clinton W. Lane ........................ Section Head

Visiting Physicians

William G. Coleman  George Manting

Neurology

Edwin F. Gildea ........................ Section Head

Consultants

Joseph Gitt  Robert Mueller

James L. O'Leary  A. B. Jones (Isolation Division)

OBSTETRICS AND GYNECOLOGY

Otto H. Schwarz ........................ Section Head and Consultant

Visiting Obstetricians and Gynecologists

Arthur T. Eslinger  David Rothman

William D. Hawker

Consultants

Willard M. Allen  Carl R. Wegner (Toxemias of Pregnancy)

Ophthalmology

Carl Beisbarth ........................ Section Head

Visiting Surgeons

Daniel Bisno  Merrill J. Reeh

Consultant

Lawrence T. Post

Otolaryngology

Edward H. Lyman ........................ Section Head

Visiting Surgeons

Harold M. Cutler  James T. Hall

James L. McCrory  G. O. Proud

Consultant

Theodore E. Walsh

Pediatrics

Alexis F. Hartmann ........................ Section Head and Consultant

Visiting Physicians

Merl J. Carson  Donald Thurston

*Gilbert B. Forbes

* On leave of absence.
Consultants

Joseph C. Jaudon
Russell J. Blattner

Jean V. Cooke

Surgery

Evarts A. Graham . . . . . . . . Chief of Surgical Service
Eugene M. Bricker . . . . . . . . Assistant Chief of Surgical Service

General Surgery

Eugene M. Bricker . . . . . . . . Section Head

Visiting Surgeons

Cyril Costello
Charles Eckert
Morton Pareira
Peter Heinbecker

Robert R. Robinson
Teaching
Consultant

Orthopedic Surgery

Oscar Hampton . . . . . . . . Section Head

Visiting Surgeon

Consultant

Urological Surgery

Carl A. Wattenberg . . . . . . . Section Head

Visiting Surgeon

Consultant

Neurological Surgery

George E. Roulhac
Henry G. Schwartz
Thomas H. Burford
Evarts A. Graham
Louis T. Byars

Visiting Surgeon
Consultant
Visiting Surgeon
Consultant
Section Head
HOMER G. PHILLIPS HOSPITAL

MEDICINE

HAROLD BULGER ........................................ Section Head and Consultant

Consultants

HAROLD SCHEFF ........................................ Gastroenterology
ALFRED GOLDMAN ..................................... Chest
JOHN SMITH ............................................. Cardiology

DERMATOLOGY AND SYPHILOLOGY

Consultant

IRWIN H. ESKELES

NEUROLOGY AND PSYCHIATRY

EDWIN F. GILDEA ...................................... Section Head

Consultants

LOUIS L. TURBEN ..................................... Neurology
HYMAN H. FINGERT ................................... Psychiatry

OBSTETRICS AND GYNECOLOGY

KEVIN C. MORRIN ..................................... Section Head

Visiting Obstetricians and Gynecologists

ARTHUR R. BORTNICK
HELMAN C. WASSERMAN

Consultants

WILLARD M. ALLEN
T. K. BROWN
OTTO H. SCHWARZ

CARL R. WEGNER (Toxemias of Pregnancy)

OPHTHALMOLoGY

Consultants

WILLIAM H. MEINBERG

OTOLARYNGOLOGY

WILLIAM T. K. BRYAN ................................ Section Head

Consultant

THEODORE E. WALSH

PEDIATRICS

PARK J. WHITE ........................................ Section Head

Visiting Physicians

MAX DEUTCH

H. EWING WACHTER
GENERAL SURGERY

ROBERT ELMAN . . . . . . . . . . . . . . . . . . . . Section Head

CHARLES ECKERT
CARL HEIFETZ
J. G. PROBSTEIN

Visiting Surgeons

D. J. VERDA
LEO A. SACHAR

Consultants

FRANK H. EWERHARDT
(Physical Therapy)

FRANK MCDOWELL
(Plastic Surgery)

NEUROLOGICAL SURGERY

HENRY G. SCHWARTZ . . . . . . . . . . . . . . . . . . . . Section Head

GEORGE ROULHAC

Visiting Surgeon

ORTHOPEDIC SURGERY

LEON FOX
MAURICE ROCHE
J. ALBERT KEY

Visiting Surgeons

HARRY THIEME

Consultant

ROGERS DEAKIN . . . . . . . . . . . . . . . . . . . . Section Head

HARRY CUTLER
DALTON K. ROSE

UROLOGY

Consultant

MALCOLM A. BLISS PSYCHIATRIC INSTITUTE

NEUROLOGY

JOSEPH J. GITT

Consultant

PSYCHIATRY

EDWIN F. GILDEA
SAMUEL R. WARSON

Consultants
HISTORICAL STATEMENT

THE SCHOOL OF MEDICINE

The first medical schools established west of the Mississippi River were organized as departments of St. Louis University and of Kemper College, in which departments courses of instruction were first offered in 1842 and 1840, respectively. From these origins there arose two independent schools, the St. Louis Medical College popularly known as "Pope's College," and the Missouri Medical College or "McDowell's College," which after successful operation as separate institutions for nearly fifty years were united in 1899 to form the Medical School of Washington University. Accounts of the history of these pioneer medical schools are to be found in the Centennial Volume of the St. Louis Medical Society and in the Medical Alumni Quarterly of Washington University.

The St. Louis Medical College first became affiliated with the University in 1891, when an association of the faculty known as the Medical Fund Society contributed funds for the erection and equipment of the building at 1806 Locust Street, which housed the laboratories and outpatient dispensary until 1914 when the school moved to its present site. The name of the St. Louis Medical College was retained until joined in 1899 by the Missouri Medical College, the union forming the present Medical School.

Union of the two schools under University auspices provided a larger faculty, more adequate laboratory, dispensary and hospital facilities. Additional equipment became available for teaching and investigation; the curriculum was lengthened and improved. The building of the Missouri Medical College on Jefferson Avenue was remodeled as a University Hospital, including a new maternity department; the Polyclinic Hospital became the University Dispensary. An affiliation was formed with the Martha Parsons Hospital for Children. A Training School for Nurses was established.

In 1910 an extensive reorganization and development of the school was undertaken under the inspired leadership of Robert Somers Brookings, President of the Corporation. With the aid of funds contributed by Mr. Brookings and other philanthropic citizens of St. Louis, and with full cooperation of the faculty of the school, new heads and staffs were appointed in all major departments, to devote themselves wholly to teaching and research. Associated clinical teachers were chosen from the medical profession of St. Louis. Affiliations were entered into with the trustees of the Barnes Hospital Bequest and with the St. Louis Children's Hospital, looking toward the erection of a new medical center that would provide in one closely coordinated plant superior facilities for the treatment of patients, for teaching of medical students, and for experimental and clinical investigation in every branch of medical science.

1 A brief historical statement of other departments of the University appears in the bulletin of the College of Liberal Arts.
An executive faculty was established, composed of the heads of departments, to plan the new organization of the school and to direct its conduct. During the planning and erection of the new laboratory and hospital buildings, the reorganized school continued to occupy the building on Locust Street and the University Hospital and Dispensary on Jefferson Avenue.

In 1914 the Medical School moved to the new site on Kingshighway. The Medical Center then comprised the Robert A. Barnes Hospital, the St. Louis Children's Hospital, and the Medical School. The St. Louis Maternity Hospital became affiliated with the Medical Center and erected the present building in 1927. In 1931 the McMillan Eye, Ear, Nose and Throat Hospital, provided by the bequest of Mrs. Eliza McMillan, and the Oscar Johnson Institute, the gift of several donors, were erected by the University. The Edward Mallinckrodt Radiological Institute, the gift of Mr. Mallinckrodt and his son, was erected in 1931 and has since provided the X-ray services for the whole group. The St. Louis School of Occupational Therapy became a department in the School of Medicine in November, 1945.

During World War II the medical staff of the Los Alamos Laboratories in New Mexico was composed largely of members of the faculty of Washington University. In December, 1946 a board appointed by the Chancellor of the University assumed responsibility for serving in an advisory capacity to the director of the Project.

THE MEDICAL SCHOOL BUILDINGS

The laboratories and lecture rooms of departments representing the medical sciences are housed in three medical school buildings, commonly referred to as the North, South and Clinic-Pathology Buildings. The North Building contains the Medical Library, the Administrative Offices, the main Auditorium, the laboratories of experimental Surgery and the department of Anatomy.

The South Building houses the laboratories of Physiology, Pharmacology and Biological Chemistry. The Clinic-Pathology Building contains the University Clinics, the Student Health Service and the Offices of Public Health and Preventive Medicine, laboratories of the department of Internal Medicine and the departments of Bacteriology and of Pathology. The autopsy rooms, mortuary and amphitheater, serving the group of hospitals, occupy an annex to this building.

The Oscar Johnson Institute contains the laboratories of Ophthalmology and Laryngology and at present houses also research laboratories of Medicine and Neuropsychiatry.

A separate building adjacent to the North Building is for the Department of Occupational Therapy.
THE HOSPITALS AND LABORATORIES OF THE MEDICAL CENTER

The affiliation of the Barnes Hospital, the St. Louis Children's Hospital, the St. Louis Maternity Hospital, the McMillan Eye, Ear, Nose and Throat Hospital, the Washington University Clinics, and the Oscar Johnson Institute with the School of Medicine, and their location together on one plot of ground makes this group of institutions for teaching purposes integral parts of the School of Medicine. Each hospital contains class rooms and laboratories used by the students and staffs.

By the terms of the affiliation the Faculty of the School constitutes the professional staffs of these Hospitals as well as of the University Clinics, an arrangement that makes for continuity of medical care and instruction in all divisions. The Clinics serve as outpatient departments of the hospitals, and furnish instruction in the care of ambulatory patients.

In the Barnes Hospital there are 425 beds, of which number about one-half are in wards used for undergraduate teaching in medicine and surgery, with services also for gynecology, ophthalmology and otolaryngology. In the surgical pavilion of this hospital is performed also most of the operative surgery for the patients in the Children's Hospital. By a new arrangement, the Barnes Hospital conducts a central diagnostic laboratory, under direction of the Medical School Staff, which serves patients in all the Hospitals and the Clinics except for certain procedures carried out locally. The Barnes Hospital operates also a cafeteria for all staffs, nurses and students working in the Medical Center.

The Children's Hospital provides 200 beds and houses also the laboratories of the department of pediatrics.

The Maternity Hospital has quarters for 100 mothers and corresponding facilities for the new-born, the latter under the charge of the department of pediatrics. In addition there are 37 beds for gynecology. The Hospital provides also the headquarters and laboratories of the department of obstetrics and gynecology.

At the request of the Board of Managers of the St. Louis Maternity Hospital full responsibility for that institution was transferred to Washington University on April 12, 1945. The Hospital is now conducted for the University by the Administrator of the Barnes Hospital, thereby effecting greater efficiency and economy in its operation.

The Mallinckrodt Radiological Institute, built adjacent to and connected on each floor with the Barnes Hospital, is owned by the University and is operated as the department of radiology of the Medical School. It provides excellent facilities for X-ray examination and therapy which are utilized by all of the affiliated Hospitals and affords exceptional opportunities for both undergraduate and graduate teaching. By a special endowment the Staff of the Radiological Institute is enabled to carry on researches in both clinical and experimental subjects, independently and in collaboration with other departments. The staff includes residencies for the training of graduate physician radiologists.
The McMillan Hospital for Eye, Ear, Nose and Throat has been conducted until recently only for out-patients in the McMillan Clinics, located on two lower floors of the building; services for bed-patients having been provided in the Barnes and Children’s Hospitals. During 1943, the unfinished floors of McMillan Hospital were completed and equipped with the aid of a Government grant made for an expansion of hospital facilities in St. Louis. The hospital was opened on October 15, 1943 and is conducted for the University and the McMillan Board as a division of the Barnes Hospital. The McMillan Hospital provides about 150 beds with appropriate treatment and operating rooms for the services of Ophthalmology and Otolaryngology and also a separate section for neuropsychiatric and medical patients requiring special forms of treatment.

The Oscar Johnson Institute, which occupies the five upper floors of the McMillan Hospital-Institute Building, is primarily the research and teaching laboratories for the departments of ophthalmology and otorhinolaryngology. The Institute also houses research laboratories used temporarily by the departments of internal medicine, and neuro-psychiatry.

The Washington University Clinics, housed mainly in the Clinics-Pathology Building, functions as the united out-patient department for ward patients of all of the Hospitals of the Medical Center, and also as the headquarters for the application of preventive medicine to its large clientele. (Separate “doctors’ offices” are provided in each Hospital for examination and treatment of ambulant private patients.) The number of patient-visits per day in all divisions of the Clinics is about 450. A large part of the clinical teaching with ambulant patients is carried out in the several divisions of the Clinics.

The Clinics, long administered as a division of the School of Medicine, was separately incorporated in 1943 under a Board of Clinics Managers comprising representatives of the University and of the Hospitals together with members-at-large. In anticipation of the need for closer correlation within the Medical Center, the Clinics Board was reorganized in 1945 to include only trustee members of the University and of the Hospitals. Under the new Board an expansion of facilities and enlargement of staffs are being planned. By this change of organization and administration, it is intended that the three functions of the Medical Center——exemplary care of patients, education and investigation——will be extended as joint institutional responsibilities to all classes of ambulant as well as hospitalized patients.

The St. Louis City Hospitals are also utilized for both undergraduate and graduate teaching. The Medical School nominates the staffs for one division of the City Hospital, of the Bliss Psychiatric Institute, and of the Homer Phillips Hospital. The Isolation Hospital (now used for chronic diseases) and the City Sanitarium (for mental diseases) are also used for study and teaching of these subjects.

Instruction is given also in the St. Louis Shriner’s Hospital for Crippled Children.
LIBRARY

The Library contains (October 1, 1946) 64,742 bound volumes and receives 674 medical periodicals, selected with reference to the needs of students and investigators.

The Library has acquired by gift and by purchase a number of private collections on medical history and on the various branches of clinical medicine. Among these is the collection of manuscripts, letters and other valuable material of the pioneer American physiologist, William Beaumont. A special room, the Beaumont Room, has been set aside for the exhibition of this priceless collection of documents.

The Library is open week days from 8:30 a.m. to 10:00 p.m.

Other libraries in St. Louis containing literature relating to medicine are available to students.

LECTURESHIPS

The Mu Chapter of the Phi Beta Pi fraternity established an annual lectureship in honor of Dr. Leo Loeb, Professor Emeritus of Pathology.

The Alumni of the School have established a Robert J. Terry Lecture-ship Fund “for the purpose of fostering greater appreciation of the study of human anatomy in relation to the teaching and practice of medicine” in honor of Dr. Robert J. Terry, Emeritus Professor of Anatomy.

ENTRANCE REQUIREMENTS

The qualifications required for admission to the study of medicine in this School are of two sorts: suitable personal qualities as to character, attitude and interest; and evidence of intellectual ability and achievement, indicated by satisfactory performance of certain scholastic work.

Completion of at least three years of college courses will be expected before beginning the study of medicine.

The college courses must have been taken in an approved college or university and completed with grades indicating both aptitude and satisfactory performance of the work. The college course must include:

a. A knowledge of English such as is required by approved colleges. The need for facility in the accurate and discriminating use of English deserves emphasis.

b. A knowledge of the principles of inorganic and organic chemistry. The laboratory work must include practice in the elements of volumetric analysis and in the simpler manipulations of organic chemistry.

c. A knowledge of the principles of physics. The course should include laboratory work of quantitative character and be preceded or accompanied by appropriate instruction in mathematics.

d. A knowledge of the principles of general biology, afforded by a course or courses with laboratory work.
As a general rule, the Committee on Admissions interprets the minimum subject requirements as follows:

- **English**: 6 semester hours
- **Chemistry**: 15 semester hours including quantitative analysis and 4 hours of organic
- **Physics**: 8 semester hours
- **Biology**: 8 semester hours, at least 4 hours of which must be in Zoology

With the object of aiding pre-medical students (and their advisers) in their selection of college courses the following comments are offered.

Medicine is concerned with such a variety of community, social and individual problems as to demand of all entering this profession a cultural background as well as a technical education.

A thorough drill in the principles of science is necessary preparation for a comprehension of the medical sciences, upon which the advances of modern medicine are based.

The rest of the college work should be chosen with the object of developing the intellectual talents of the individual, rather than as required pre-professional preparation. Only to the extent that he acquires primary interests in a particular field of science, should a student concentrate his studies in that direction. In any case, the college work should include courses in language and literature, history, and the social sciences, or other subjects which may afford the foundation for cultural development. Unless that foundation is laid early, there is the danger that later demands of technical and professional training may lead to its neglect.

The interest and earnestness with which any study is done—more than the subject even—may determine its lasting value. The spirit of a course may be more important than its content, if it stimulates interest and cultivates an inquiring and thoughtful attitude. Development of an inclination to study and the habit of reasoning, whatever the subject matter may be, is more valuable than an obligatory course taken merely to satisfy entrance requirements.

The source of much fundamental knowledge of the sciences and of medicine is in languages other than English, especially in German and French. For those who desire to have access to this literature, a reading knowledge of these languages is necessary.

Applicants are expected to have taken the Medical Aptitude Test of the Association of American Medical Colleges.

Applications for admission should be filed as early as possible, preferably by January 15 of the year during which admission is sought.

Within ten days after notification of acceptance, applicants are required to send to the Registrar a deposit of fifty dollars, to be applied toward the first payment of tuition. The deposit is not returnable.

*Application blanks will be furnished upon request. After supplying all information called for therein, the applicant should return the blanks and, in addition, should request his college to send directly to the Regis*
trar complete official transcripts of high school and college credits. To aid in judging the fitness of an applicant, the student's science instructors should be requested by him to send personal letters to the Dean, giving estimates of the student's ability, character and personality.

Notice is sent to accepted applicants of the date of registration. Failure to register on the day designated may result in loss of place in the class unless the Registrar is notified in advance and postponement is allowed.

ADMISSION TO ADVANCED STANDING

Applications for advanced standing will be considered only if there are vacancies in the classes. Applications should be filed early. Only students who have unconditional standing in the medical schools from which they seek to be accredited are considered for admission to advanced classes. Within ten days after notification of acceptance, successful applicants are required to send to the Registrar a deposit of fifty dollars, to be applied toward the first payment of tuition. The deposit is not returnable.

Applicants for advanced standing (1) must furnish evidence that the requirements for admission to the first year have been fulfilled; (2) must have studied as a matriculated medical student in an acceptable medical school for a period of time at least equal to that already spent by the class to which he seeks admission; (3) must show that courses equivalent in kind and amount to those given in this School, in the year or years preceding that to which admission is desired, have been satisfactorily completed; and (4) in doubtful cases may be required to pass an examination in any of the subjects for which credit is sought.

Admission to advanced classes will usually be allowed only at the beginning of the academic year.

Only rarely are new students accepted for the fourth year class.

In addition to the credentials required for admission, applicants for advanced standing are required to furnish credentials from the medical school in which they have studied, enumerating all medical courses pursued, grades obtained, and stating the dates of their registration as matriculated medical students.

ADMISSION OF GRADUATES IN MEDICINE

Applicants who hold the M.D. degree are not accepted as candidates for that degree.

A program of courses for post-graduate students may be secured from the Director of the Division of Postgraduate Studies.

STANDING AND PROMOTION

The following procedure for action on promotion and graduation has been adopted.

(1) After the completion of a major course each department reports to the dean's office the order-rank of each student in the class for that
course, designating in each case "honors," "pass" or "fail." The rank and designation may be based upon attitude and performance as well as upon examination grades. Final examinations are held at the close of each academic year.

(2) For each class there is a Promotions Committee which periodically reviews the records of all students in that class and acts in accordance with the following rules.

(a) A student having recorded failures in two major subjects (see list below) will be required to withdraw from the class.

Major Subjects.

First Year: Anatomy, Histology and Neuroanatomy, Biochemistry.
Second Year: Physiology, Bacteriology, Pathology, Pharmacology, Medicine, Surgery (½).
Third Year: Medicine, Neuropsychiatry, Obstetrics and Gynecology, Surgery, Ophthalmology (¼), Otolaryngology (¼).
Fourth Year: Medicine, Obstetrics and Gynecology, Pediatrics, Surgery, Preventive Medicine.

(b) All students will be promoted to the next class who rank in the upper four-fifths of the class in at least 60% of the scheduled clock hours, provided there are no failures.

(c) All students who rank in the lower one-fifth of the class in more than 40% of the scheduled hours or who are in the lower one-fifth of the class in two major subjects, shall be considered as having a condition for the year's work. This condition may be removed by the appropriate committee on promotion upon the basis of either or both: (1) The student's record; in evaluating a student's record, the committee shall consider not only scholarship, but also social, economic and other personal factors. (2) A special comprehensive examination given under the direction of the subcommittee. A student who fails this examination shall be required to withdraw from his class.

(d) Students who at the end of any year have recorded only one failure in a major department will be required to remove this failure as directed by the department concerned. When, and if, the failure is removed, the subcommittee will consider the student's entire record under rules (b) and (c) above. A student who has recorded a second failure in the attempt to remove a first failure will be required to withdraw from his class.

(e) No student shall be promoted to the third year until there is satisfactory credit for all required subjects of the first and second year.

(f) Under exceptional circumstances the promotion committees may suggest to the Dean and to the Committee on Admissions and Scholarships that a student be allowed to repeat certain courses as a special student or to repeat the work of the entire year as a member of the next class.

The registration of a student may be canceled at any time if in the opinion of the faculty his further attendance is deemed undesirable. A pro rata refund of the tuition will be made in such cases.
Candidates must be more than twenty-one years of age and of good moral character. They must have attended not less than four courses of instruction as matriculated medical students, the last of which has been in this School. They must have passed all required courses, or their equivalent, and have received satisfactory grades in the work of the entire four classes. They must have discharged all current indebtedness to the University.

At the end of the fourth academic term, students who have fulfilled these requirements will be recommended for the degree of Doctor of Medicine. Candidates must be present when degrees are conferred.

Bachelor of Science in Medical Science

Students who enter the School of Medicine with a minimum of ninety semester hours of work may become candidates during the medical course for the degree of Bachelor of Science in Medical Science, provided the quality of work done in required courses is satisfactory. Acceptance as candidates for this degree is granted not earlier than after completion of the courses of the first year. Requirements for the degree are the satisfactory conduct of research in the medical sciences and the preparation of an acceptable thesis, which must be presented to the head of the department concerned at least one month before the degree is to be awarded. Compliance with the requirements for this degree will not usually be attained before the end of the third or fourth academic year.

Intern Appointments

An internship in an approved hospital is regarded as necessary in preparation for the practice of medicine. The School does not assume responsibility for securing intern appointments for its graduates; but it does aid both students and hospitals in arranging for satisfactory selections. During the junior and senior years students confer with the Assistant Dean, concerning the character of the services offered by various hospitals and the selection of the hospital of his choice. The Assistant Dean also advises the hospitals concerning the qualifications of students who apply for appointment. Virtually every graduate of the School is placed in a suitable internship.

About half of the members of each class now secure appointments in hospitals of St. Louis.

Prizes

George F. Gill Prizes:

1. One prize of fifty dollars is awarded at the end of the first year to the member of the class who has made the highest grade in anatomical work.

2. One prize of fifty dollars is awarded to a member of the graduating
class, of high general standing, who has done especially good work in the Department of Pediatrics.

**Alpha Omega Alpha Fraternity Prize** is awarded at the end of the fourth year to the member of that class who has made the highest average for the entire medical course.

**Alpha Omega Alpha Fraternity Prize for Student Research** amounting to twenty-five dollars is awarded to the student who submits the best thesis on a research problem.

**The Alexander Berg Prize** of one hundred dollars is awarded to a student of high general standing who presents the best results in research in bacteriology.

**The Howard A. McCordock Book Prize** is awarded at the end of the second year to a member of that class for general excellence in pathology.

**The Sidney I. Schwab Book Prizes** are awarded at the end of the third year to members of that class for general excellence in neurology and psychiatry.

**The Nu Sigma Nu Awards** of twenty-five dollars each are awarded to the outstanding members of the first and second year classes.

**The Borden Undergraduate Research Award** of five hundred dollars is awarded to that member of the graduating class who, during any year while enrolled in the school, has carried out the most meritorious undergraduate research.

**Fellowships and Scholarships**

The **Jackson Johnson Fund**. Under the will of the late Mr. Jackson Johnson, the sum of $250,000 was given to the University, the income to be used "to aid worthy and desirable students in acquiring and completing their medical education." During recent years, the income of this fund has been devoted to Honor Scholarships named for the donor as well as to fellowship and loan funds for needy students.

Beginning in 1947 these Honor Scholarship will be awarded on a regional basis with one or more scholarships being awarded annually to students from each of the following areas:

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<tr>
<td>Canal Zone</td>
<td>Washington, D.C.</td>
<td>Connecticut</td>
</tr>
<tr>
<td></td>
<td>Puerto Rico</td>
<td>Maine</td>
</tr>
<tr>
<td></td>
<td>Virgin Islands</td>
<td>Massachusetts</td>
</tr>
</tbody>
</table>

The Jackson Johnson Regional Scholarships have been established to enable young men and women with superior qualifications and promise for a career in medicine to come to Washington University, without regard to their financial circumstances.

**Eligibility.** Jackson Johnson Regional Scholarships are open to those who plan to enter the freshman class at Washington University School of Medicine or to transfer from a two-year medical school to the third year class at Washington University. The candidate must have resided for three years before application in one of the specified Regions, and have completed the premedical work, or the first two years of medicine in the same region.

**Stipend.** Since the Jackson Johnson Regional Scholarships are regarded as prizes to be competed for by all students, whatever their financial need, the stipends will vary with the financial resources of the students. In those cases in which there is no financial need, a scholarship without stipend will be awarded. The maximum stipend will be $1,200 a year.

**Selection.** The awards will be made by the Committee on Admissions and Scholarships with the approval of the Chancellor on the basis of the academic record in college or medical school, the score in the medical aptitude and other tests, the recommendations of professors and others concerning ability, character, qualities of leadership, and general all-around development, and the extracurricular activities both in and outside the school.

**Renewals.** Awards may be renewed with the same or different stipends, for the succeeding years of the medical course, provided the achievements of the scholar justify the continuance of the award. The school may withdraw a Jackson Johnson Regional Scholarship if at any time the student's record or his actions in the school or outside prove him unworthy of it.

**Application.** An application for a Jackson Johnson Regional Scholarship may be made at the same time or subsequent to application for
admission to the School of Medicine. In any instance, all applications for a Jackson Johnson Regional Scholarship must be completed by January 1 for the classes beginning the following September.

In order to provide opportunities for able and promising young men and women, three Jackson Johnson Fellowships in the Preclinical Sciences will be offered annually.

Eligibility. All applicants must be graduates of a recognized school of medicine, and acceptable for admission to the School of Graduate Studies of Washington University as candidates for a doctorate degree. Preference will be given to those who expect to pursue an academic career in one of the preclinical sciences.

Stipend. The stipend will vary with the needs and ability of the individual to a maximum of $2,000 a year for the first year.

Renewal. Awards may be renewed with the same or different stipends for not to exceed, in all, three years, provided the achievements of the fellow justify continued study.

Application. All applications should be completed by March 1 for the period beginning the following July or September. Awards will be announced about April 1.

Emergency loans in limited amounts are available from the Jackson Johnson Fund for students in the upper three classes of the School, when needed to meet unexpected emergencies during the academic year. The loans are granted by the Chancellor on the recommendation of the Dean.

A Fellowship in Neurological Surgery with a stipend of $1200 per year is awarded on recommendation of the Department of Surgery. Candidates must be graduates in medicine who will have completed an internship.

A Memorial Fellowship with a stipend of $500 may be awarded for one year to a graduate of the School, preferably a woman, for postgraduate study.

The George F. Gill Scholarship, instituted in memory of a former Clinical Professor of Pediatrics, entitles the holder to remission of the tuition fee to the amount of $100.

The Alumni Scholarship Award of $100 to be applied on the payment of the tuition fee is given for excellence in work during the preceding scholastic year on the recommendation of the Committee on Loans and Scholarships and the President of the Medical Alumni Association.

The Dr. John B. Shapleigh Scholarship. From a bequest of the late Dr. John B. Shapleigh, supplemented by contributions by the late Mrs. Shapleigh and Miss Margaret Shapleigh, a fund has been established, the income of which is used to pay the tuition of students in need of assistance.
THE ELIZA McMILLAN STUDENT AID FUND. The annual income from a bequest of the late Mrs. Eliza McMillan provides a scholarship of about $200 for a deserving woman student in the School of Medicine.

THE T. GRISWOLD COMSTOCK SCHOLARSHIPS. Through the bequest of the late Mrs. Marilla E. Comstock, the annual income from $12,000 is used for two scholarships for students who otherwise would be unable to obtain a medical education and who desire and intend to follow the practice of medicine and surgery.

THE JOSEPH H. ROBLEE SCHOLARSHIPS Provided through the gift of Mrs. Roblee, the income from the Joseph H. Roblee Scholarship Endowment Fund of $12,000 maintains two scholarships. They are awarded by the Chancellor to qualified, worthy and deserving students in any division of the University.

THE ROBERT ALLEN ROBLEE SCHOLARSHIPS. Through the gift of Mrs. Joseph H. Roblee, the income from the Robert Allen Roblee Scholarship Endowment Fund of $15,000 provides one or more scholarships for qualified, worthy, and deserving students.

ANDREW RANKIN FLEMING AND SUSIE FLEMING FUND. Through the bequest of the late Mrs. Susie Fleming, $150.00 from the income of this Fund is available annually for scholarships for worthy and needy students in the School of Medicine.

THE ALINE RIXMAN LOAN FUND. Provided through the gift of Mr. William Rixman the fund is used to alleviate unexpected financial emergencies that arise among medical students during the academic year. The fund is available to any student who in the judgment of the Dean gives promise of becoming a competent physician. It is expected that loans will be repaid within a reasonable time after the student has finished his training. The loans are granted by the Chancellor on the recommendation of the Dean.

THE W. McKIM MARRIOTT SCHOLARSHIP AWARD, instituted in memory of the late Dr. W. McKim Marriott, Dean and Professor of Pediatrics, by the late Dr. C. V. Mosby for the C. V. Mosby Co. entitles the holder to an award of $500 which provides partial tuition for the recipient in the School of Medicine. The scholarship is awarded annually preferably to a deserving young man who shows promise in the field of pediatrics. The award is made by the Chancellor on the recommendation of the Dean and the Professor of Pediatrics.

W. K. KELLOGG FOUNDATION SCHOLARSHIP AND LOAN FUND. A generous gift has been made to this and other universities by the W. K. Kellogg Foundation to provide financial assistance to well qualified medical students in need of such aid. A limited number of scholarships and loans are available from this fund.

STUDENT ASSISTANTSHIPS are available in a number of departments in the School. Information concerning these may be obtained from the heads of the departments concerned.
Applications for all fellowships, scholarships and assistantships may be made to the Dean. The awards are made by the Chancellor on the recommendation of the Dean.

REGISTRATION

Registration for the first half year, 1947-48 is scheduled for Thursday, September 18 (new students) and Saturday morning, September 20 (former students); for the second half year, Monday, January 26, 1948.

Previously matriculated students who fail to register on any of the days set aside for that purpose will be charged a fee of $3.00.

FEES AND EXPENSES

The University reserves the right to change the fees herein stated at any time without notice. Whenever a change is made, it will become effective with the next installment due.

All fees and charges are payable in advance at the office of the Treasurer in Robert S. Brookings Hall, or at the office of the Registrar of the School of Medicine. In general, no rebate of the tuition fee will be made for absence, whether such absence occurs at the beginning, middle, or end of the semester, except in cases of prolonged illness, certified to by a physician. In such cases a partial refund may be made, which will not exceed one-half of the unexpired balance of the tuition for the term.

Checks should be made payable to Washington University.

MATRICULATION FEE. A matriculation fee of $5.00 is required of all students upon initial registration.

TUITION FEE. For undergraduate students the tuition fee is $562.50, payable in two equal installments, at the beginning of the first and second semesters.

LABORATORY FEES. To cover the cost of materials furnished and consumed, including breakage, a breakage deposit has formerly been required. This charge is now met by laboratory fees collected each term from the first and second classes: $6.00 for the first year, $12.00 for the second. Additional charges may be made to individual students to cover damage caused by carelessness to University property. In case of withdrawal from the School a prorata refund will be made.

HEALTH SERVICE FEE. A health service fee of $18.00 per semester is charged to all students. This fee covers complete medical examination on entering the School and continued medical care including all necessary hospital costs, drugs and limited dental service during the regular school year. An additional fee of $10.50 will be charged those desiring coverage during the summer months (Commencement to beginning registration in the fall). The services of one or more physicians are available at designated times for consultation at the Student Health Clinic. A physician is available for emergency care either in the clinic or the student’s room.
when necessary. Hospital care is provided in the services of the Barnes Hospital. It is the aim of the staff to watch and safeguard the health of each student in the school. The responsibility of the Health Service automatically ceases when the student for any reason discontinues his enrollment. A partial refund of the Health Service fee will be made to such individuals.

DIPLOMA FEE. The diploma fee for the degree of Doctor of Medicine is $5.00 and for the degree of Bachelor of Science in Medical Science is $3.00. These fees are payable before Commencement.

MICROSCOPE AND DIAGNOSTIC INSTRUMENTS

Each student entering the Freshman class is required to possess a standard microscope equipped with a substage light. All students are required to provide themselves with stethoscopes, ophthalmoscopes, otoscopes, hemocytometers, percussion hammers, tape measures, flashlights, head mirrors and skin pencils as the need for them arises.

Supplies and books may be purchased at the bookstore located in the Medical School.

ESTIMATE OF EXPENSES

An estimate of the average annual expenses of a student in the School of Medicine, excluding the cost of clothes, laundry, microscope, and incidentals, is given below. The amounts will vary considerably, according to the individual.

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
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<tbody>
<tr>
<td>Tuition</td>
<td>$562.50</td>
</tr>
<tr>
<td>Laboratory Fees</td>
<td>12.00</td>
</tr>
<tr>
<td>Matriculation Fee (payable once)</td>
<td>5.00</td>
</tr>
<tr>
<td>Health Service Fee</td>
<td>36.00</td>
</tr>
<tr>
<td>Books and Instruments</td>
<td>$75.00 to 150.00</td>
</tr>
<tr>
<td>Room and Board (from $10.00 to $15.00 a week)</td>
<td>360.00 to 540.00</td>
</tr>
</tbody>
</table>

$1050.50 to $1305.50

MEN'S DORMITORY OF THE SCHOOL OF MEDICINE

A dormitory building containing rooms for about fifty students is situated in close proximity to the School. A tennis court is located in the rear of the building. Each occupant must furnish his own sheets, pillow cases, counterpanes and blankets; otherwise the rooms are furnished.

The rental of a room is $60.00 per semester, payable in advance, at registration. Reservations are accepted only for the full academic year. Application for reservation should be made to the Registrar and must be accompanied by a reservation fee of $10.00. This fee will be returned should the room not be assigned. If a room is assigned, the fee will be held by the University as a bond against possible damage to the room or furniture. Subject to such claim it will be refunded at the end of the academic year.
GENERAL PLAN OF INSTRUCTION

The course of study for candidates for the degree of Doctor of Medicine in all medical schools is designed as a basic preparation for the practice of medicine. As interpreted in this school, the basic preparation for a career in any field of medicine must include first of all an introduction to the principles of the medical sciences. There are reasons for strong emphasis on this point of view.

The phenomenal advances that characterize modern medicine and promise its continued progress for human betterment are the outgrowth of systematic experiments rather than merely of individual observation, experience and skill. A fusion of accumulated systematic knowledge, the medical sciences, with the arts of medical practice constitute medicine of today and tomorrow. Orderly information in terms of the scientific principles involved, acquired by those having an inclination to apply them to practical problems, furnishes an attitude of mind, as well as a factual background that are essential to the study of clinical medicine.

The technical knowledge that has created modern medicine will surely continue to grow. Medical students must, therefore, form the habit of keeping up with new developments, of preparing themselves for the continued study of the medical sciences; without that habit and preparation, the subsequent progress of medicine will bring obsolescence to the individual. These ideas pervade the spirit of the medical science courses given during the first and second years.

Before entering upon the examination and study of patients who exhibit and illustrate the phenomena of health and disease treated by the medical sciences, the student must become acquainted with and acquire practice in techniques of clinical examination. This beginning experience is gained mainly from the conjoint courses given by teachers from several clinical departments during the second year.

With this preparation the student is ready, when he enters the third year class, to begin the observation and study—first hand—of a variety of manifestations of health and disease as seen and cared for in clinics and hospitals. This clinical instruction occupies the third and fourth years. It consists mainly of a series of clerkships in wards and hospitals and out-patients services, supplemented by systematic courses of lectures and clinical conferences.

It is this planned sequence of scientific and practical training, combined with individual experience of student with patients, under guidance of clinical teachers who are also physicians and surgeons, that characterize the basic professional course in medicine.

Because every medical student, irrespective of the field or specialty of medicine in which he may desire or expect to practice, must become first a broadly trained doctor of medicine, nearly all courses of the undergraduate medical curriculum are obligatory. At the same time all students are encouraged to cultivate their individual interests and talents by special study of subjects or topics of their own selection. For
this purpose several half days are left free in the class schedules, during which able students may do additional work in subjects of their greatest interest. In the senior year eight weeks are set aside for elective courses or for research. The opportunity for special study is afforded in every department of the school.

The academic term of thirty-six weeks for each of the four courses is divided into three trimesters of eleven weeks, followed by a reading period of three weeks for the first two classes; the junior and senior years are divided into four quarters of eight weeks each followed by a reading period of four weeks. The program is an intensive one, and demands the full time and best efforts of students. They are discouraged from attempting outside work or employment during the sessions.
THE SCHOOL OF MEDICINE

TEACHING AND RESEARCH DIVISIONS

COURSES OF INSTRUCTION

SECOND YEAR

CONJOINT MEDICINE

The several courses given by the clinical departments during the sophomore year have been placed under the supervision of a Committee on Conjoint Medicine in order that teaching might be coordinated effectively. Even though individual courses are listed in the catalogue under departmental headings, representatives of several departments participate in the presentation of material. For instance, physical diagnosis (see under Medicine) is taught jointly by the Departments of Medicine, Neuropsychiatry, Obstetrics and Gynecology, Ophthalmology, Otolaryngology and Pediatrics. Lectures in “Applied Pathologic Physiology” are correlated, as far as possible, with the subject matter being considered in Physical Diagnosis and Clinical Chemistry and Microscopy. The number of hours allotted to each department in the conjoint courses is included in the listing of courses under the respective departmental headings. The following courses are included in this arrangement:

- Medicine: Physical Diagnosis
- Applied Pathologic Physiology
- Clinical Chemistry and Microscopy
- Neuropsychiatry: Introductory Course on the Patient-Physician Relationship
- Neurological Examination in Physical Diagnosis
- Obstetrics and Gynecology: Introduction to Obstetrics
- Ophthalmology: Introduction to Ophthalmology
- Otolaryngology and Physical Diagnosis
- Surgery: Introduction to Surgery

COMMITTEE IN CHARGE

CARL V. MOORE ....................... Chairman
JOHN HOBBS
RUSSELL BLATTNER
L. W. DEAN, JR.
WILLIAM JAMES
GEORGE SASLOW
PETER HEINBECKER

THIRD YEAR

CONJOINT SYMPOSIA

In addition to the lectures given by the several clinical departments during the third year, a series of symposia are planned for Thursday mornings from 9:30 to 11:30 a.m. during the third and fourth quarters. Members of several departments participate in these symposia which are designed to consider rather broad subjects like shock, medical and surgical emergencies, recent significant advances in specific fields, etc. With few exceptions, symposia are not planned for the discussion of individual disease entities.

COMMITTEE IN CHARGE

CARL V. MOORE ....................... Chairman
DONALD BOTTOM
JEAN V. COOKE
ROBERT ELMAN
JOHN HOBBS
THEODORE E. SANDERS
GEORGE SASLOW
ANATOMY

EDMUND V. COWDRY, PH.D. .................................................... Professor of Anatomy
ROBERT J. TERRY, M.D. ..................................................... Professor Emeritus of Anatomy
SHERWOOD MOORE, M.D. ................................................... Consultant in Radiology
MILDRED TROTTER, PH.D. .................................................. Professor of Gross Anatomy
CECIL M. CHARLES, PH.D., M.D. ........................................ Associate Professor of Anatomy
WALTER P. COVELL, PH.D., M.D. ........................................ Associate Professor of Anatomy
JOHN C. FINERTY, PH.D. .................................................... Assistant Professor of Anatomy
ALBERT I. LANSING, PH.D. ................................................ Assistant Professor of Anatomy
JOHN H. VAN DYKE, PH.D. ................................................ Assistant Professor of Anatomy
CHRISTOPHER CARRUTHERS, PH.D. ................................. Research Associate in Cytology
WILLIAM L. SIMPSON, PH.D. ............................................. Research Associate in Cytology
VALENTINA SUTZEF, M.D. ................................................ Research Associate in Cytology
MARY RITCHIE, M.D. ....................................................... Research Associate in Anatomy
ROBERT M. EVANS, M.D. .................................................. Instructor in Anatomy
GEORGE ROWE, M.D.* ..................................................... Instructor in Anatomy
CHI-HSUIN ULRIC CHU, M.S. ............................................ Assistant in Anatomy
GEORGE L. HAWKINS, M.D. .............................................. Assistant in Anatomy
DOROTHY REESE RITZMAN, M.D. ................................... Assistant in Anatomy
ROBERT RYAN, M.D. ....................................................... Assistant in Anatomy
A. R. GOPAL-AHENGAR, PH.D. ......................................... Research Fellow in Anatomy

The anatomical sciences are presented in three regular required courses (gross anatomy, histology and neurology). These are supplemented by special lectures and demonstrations by members of other departments. Facilities are provided for special work in gross anatomy, embryology, hematology, endocrinology and cytology. The Anatomical Collection, prepared during many years under the supervision of Dr. Terry, includes 1500 skeletons extensively documented and offers unsurpassed opportunities for research in physical anthropology. Once a week moving picture films are presented.

FIRST YEAR

10 (501 and 502). GROSS ANATOMY. Each student dissects one-half of the human body and is encouraged to learn as much as possible from the living subject. Extensive use is made of a wide variety of specimens displayed in the Anatomical Museum. Occasional attendance at autopsies is recommended. X-ray films are regularly examined and demonstrations on the living subject are made under the fluoroscope. Special attention is given to surface anatomy, the students using each other as subjects. Lectures are correlated with the dissection. 330 hours.

(Drs. Trotter, Charles, Finerty, Chu, Hawkins, Ritzman, Ryan)

11 (506). HISTOLOGY. A laboratory course occupying five mornings a week during the first trimester. Special attention is paid to the study of living tissues to the correlation of gross and microscopic structure and to embryological considerations. There are two lectures a week and many informal discussions in the laboratories. 189 hours.

(Drs. Cowdry, Van Dyke, Lansing, Ritchey)

* On leave of absence for military service.

Note—The numbers in parentheses indicate that the course carries credit in the School of Graduate Studies and may be found under that number in the bulletin of that school.
12 (507). **Neurology.** A laboratory course in gross and microscopical anatomy of the nervous system occupying five mornings a week. Three weekly lectures are devoted to subjects not easily presented by work in the laboratory. 105 hours.

(Drs. Bishop, Van Dyke, Roulhac, Hawkins, O'Leary)

**ELECTIVE COURSES**

50. **Topographical Anatomy.** Laboratory study of topographical anatomy may be undertaken at any time during the year. Sections, museum preparations, and models are used as material. Hours to be arranged.

51. **Dissection.** Opportunities are offered at any time excepting August and September for students and physicians desiring to review the subject. Any of the following parts may be elected for study: head and neck, thorax and upper limb, abdomen and pelvis, lower limb. A fee will be charged.

52. **Advanced Work in Gross Anatomy, Histology, Cytology, Embryology, Neurology and Physical Anthropology.** A study of the literature on certain selected problems accompanied by individual laboratory work. Hours to be arranged.

53. **Research.** Properly qualified individuals are encouraged to carry on research in the anatomical sciences. (See Bulletin of The School of Graduate Studies.)

**BACTERIOLOGY AND IMMUNOLOGY**

JACQUES J. BRONFENBRENNER, PH.D.
Professor of Bacteriology and Immunology

ALFRED D. HERSHEY, PH.D.
Associate Professor of Bacteriology and Immunology

SOL SPIEGELMAN, PH.D.
Assistant Professor of Bacteriology and Immunology

HIROMU TSUCHiya, SC.D........................................Assistant Professor of Parasitology

PHILIP L. VARNEY, M.S., PH.D.
Assistant Professor of Bacteriology and Immunology

FRANCES KIMURA, M.A..............Assistant in Bacteriology and Immunology

JOHN M. REINER, PH.D.
National Research Council Fellow in Bacteriology

In addition to instruction of medical students, the department offers graduate training to a limited number of students who have previously received their basic training in bacteriology elsewhere.

**SECOND YEAR**

20 (531). **Bacteriology.** Lectures and Laboratory. A brief survey of General Bacteriology with a view of acquainting the students with the role of bacteria in the economy of nature and with methods of pure culture study. Special emphasis is placed on such aspects in the mutual relation between the bacteria and their environment which would bring

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1 Professor of Neurophysiology in the Department of Neuropsychiatry.

2 Instructor in Neurological Surgery.

3 Professor of Neurology.
out those basic characteristics of metabolic requirements and activities of bacteria which on the one hand may serve to identify the individual species and on the other to explain some of the effects of bacterial invasion. After a brief consideration of the mechanisms governing the mutually limiting relation of the resistance of the host and the invasiveness of the parasite, a number of more important communicable diseases, caused by viruses, bacteria, fungi, protozoa and metazoa, are studied individually with respect to epidemiology, means of laboratory diagnosis, specific therapy and prophylaxis, and general measures of control. Fifteen a hours a week during four weeks in the last trimester of the first year and seven weeks in the first trimester of the second year. 165 hours.

(Drs. Bronfenbrenner, Hershey, Tsuchiya, Varney, Spiegelman and Miss Kimura)

21 (532). INFECTION AND IMMUNITY. Consideration of the theories concerning the mechanism of immunologic reactions, both those occurring in vivo as well as those utilized for serologic procedures of diagnosis in vitro. Antigens, specific prophylaxis. Antibodies, their nature, significance in resistance to infection and as indices of past exposure. Serum therapy. Hypersensitiveness. Two lectures and six hours of laboratory work each week during half of the first trimester. 44 hours.

(Drs. Bronfenbrenner, Hershey, Varney, Spiegelman and Miss Kimura)

22 (533). PARASITOLOGY. The course is designed to present a brief discussion of protozoan and metazoan parasites of medical importance, as well as of arthropods which transmit human diseases. Emphasis to be placed on the medical phases of the subject including epidemiology, symptomatology, diagnosis, treatment and control, in addition to life cycles of these parasites. This is supplemented by demonstrations and laboratory exercises for their identification. Two lectures and two two-hour laboratory periods weekly during four weeks in the first trimester.

(Dr. Tsuchiya, Miss Kimura)

ELECTIVE COURSE

50 (590). Research. The facilities of the laboratory are open to those properly qualified for research in Bacteriology and Immunology.

(Dr. Bronfenbrenner and Staff)

BIOLOGICAL CHEMISTRY

CARL F. CORI, M.D. .................................. Professor of Biological Chemistry
GERTY T. CORI, M.D. ................................. Associate Professor of Research Biological Chemistry
PAUL W. PREISLER, Ph.D. .......... Assistant Professor of Biological Chemistry
ETHEL RONZONI-BISHOP, Ph.D. .................................. Assistant Professor of Biological Chemistry
in Neuropsychiatry and Radiology
JOHN F. TAYLOR, Ph.D. .............. Assistant Professor of Biological Chemistry
SIDNEY F. VELICK, Ph.D. ........... Assistant Professor of Biological Chemistry
MILDRED COHN PRIMAKOFF, Ph.D. Research Associate in Biological Chemistry
EARL SUTHERLAND, M.D. .............. Instructor in Biological Chemistry
THE SCHOOL OF MEDICINE

EDWIN G. KREBS, M.D. Assistant in Biological Chemistry and National Institute of Health Fellow in Biological Chemistry
J. OLIVER LAMPEH, PH.D. Research Assistant in Biological Chemistry
ROBERT Loeffel, B.S. Research Assistant in Biological Chemistry
Milton SLEIN, M.S. Research Assistant in Biological Chemistry
OLOV LINDBERG, PH.D. Swedish-American Foundation Fellow in Biological Chemistry
VICTOR A. NAJJAR, M.D. National Research Council Fellow in Pediatrics in Biological Chemistry
GRAHAM WEBSTER, M.D. Research Fellow in Biological Chemistry
JEAN MARIE WIAEME, PH.D. Belgian-American Foundation Fellow in Biological Chemistry

FIRST YEAR

10 (503). BIOLOGICAL CHEMISTRY. Lectures, recitations, conferences and laboratory work covering those portions of the subject which are of especial importance to the student of medicine. 264 hours.

(C. F. Cori, Preisler, Taylor, Velick, Sutherland, Krebs, Lampen)

ELECTIVE COURSES

50 (504). Advanced Work. Courses of laboratory work and selected reading, under guidance of a member of the staff, will be arranged to suit individual needs.

51 (515). Research. The facilities of the department are available to students qualified to undertake investigation.

DERMATOLOGY

RICHARD S. WEISS, M.D. Professor of Clinical Dermatology
MARTIN F. ENGMAN, M.D. Professor Emeritus of Clinical Dermatology
ADOLPH CONRAD, M.D. Assistant Professor of Clinical Dermatology
CLINTON W. LANE, M.D. Assistant Professor of Clinical Dermatology
WILLIAM G. COLEMAN, M.D. Instructor in Clinical Dermatology
MARTIN F. ENGMAN, JR., M.D. Instructor in Clinical Dermatology
HELEN KELLER GOTTSCALK, M.D.* Instructor in Dermatology
GEORGE MANTING, M.D. Instructor in Clinical Dermatology
JAMES W. BAGBY, M.D. Assistant in Clinical Dermatology
ADOLPH H. CONRAD, JR., M.D. Assistant in Clinical Dermatology
IRWIN H. ESKELES, M.D. Assistant in Clinical Dermatology
MORRIS D. MARCUS, M.D. Assistant in Clinical Dermatology
MORRIS MOORE, PH.D. Mycologist to the Department of Dermatology
EUGENE P. WEBER, M.D. Assistant in Clinical Dermatology
LAWRENCE HALPEN, M.D.1 Assistant in Clinical Dermatology

FOURTH YEAR

41. DERMATOLOGY CLERKSHIP. In groups of four students. Clinical examination of numerous dermatological cases with opportunity for instruction in their diagnosis, pathology and treatment. Examination of biopsy specimens. Demonstration of the use of various physical agents such as electro-coagulation, X-ray and radium in the treatment of malignant and non-malignant skin affections.

* On leave of absence.
1 Effective February 1, 1947.
Tuesdays—2:00 to 4:00 p. m.—The Barnard Free Skin and Cancer Hospital.

Wednesdays—2:00 to 4:00 p. m.—The Barnard Free Skin and Cancer Hospital.

(Dr. Weiss and Staff)

ELECTIVE COURSE

50. Clinical demonstrations and examination of dermatological conditions. Methods of therapy.

Mondays—2:00 to 4:00 p. m.—Skin Clinic, Washington University Clinics.

(Dr. Weiss and Staff)

THE JOHN T. MILLIKEN DEPARTMENT OF MEDICINE
(The Department of Medicine includes Internal Medicine and Dermatology)

WILLIAM BARRY WOOD, JR., M.D. Busch Professor of Medicine
HARRY L. ALEXANDER, M.D. Professor of Clinical Medicine
CARL V. MOORE, M.D. Professor of Medicine
WARREN P. ELMER, M.D. Associate Professor of Clinical Medicine
JOSEPH W. LARIMORE, M.D. Associate Professor of Clinical Medicine
DREW W. LUTEN, M.D. Associate Professor of Clinical Medicine
WILLIAM H. OLMSTED, M.D. Associate Professor of Clinical Medicine
HENRY A. SCHROEDER, M.D. Associate Professor of Medicine

HARRY L. ALEXANDER, M.D. Assistant Professor of Medicine
GUSTAVE DAMMIN, M.D. Assistant Professor of Medicine
CHARLES W. DUDEN, M.D. Assistant Professor of Clinical Medicine
CHARLES H. EYERMANN, M.D. Assistant Professor of Clinical Medicine
WALTER FISCHEL, M.D. Assistant Professor of Clinical Medicine
PALMER H. FUTCHER, M.D. Assistant Professor of Medicine
ALFRED GOLDMAN, M.D. Assistant Professor of Clinical Medicine
LEO GOTTLIEB, M.D. Assistant Professor of Clinical Medicine
SAMPLER B. GRANT, M.D. Assistant Professor of Clinical Medicine
PAUL O. HAGEMAN, M.D. Assistant Professor of Clinical Medicine
CARL HARFORD, M.D. Assistant Professor of Medicine
LOUIS H. HEMPELMANN, M.D. Assistant Professor Emeritus of Clinical Medicine
GEORGE D. KETTELKAMP, M.D. Assistant Professor of Clinical Medicine
WILLIAM B. KOUNTZ, M.D. Assistant Professor of Clinical Medicine
JOHN V. LAWRENCE, M.D. Assistant Professor of Clinical Medicine
EDWARD MASSIE, M.D. Assistant Professor of Clinical Medicine
EDWARD REINHARD, M.D. Assistant Professor of Clinical Medicine
LLEWELLYN SALE, M.D. Assistant Professor of Clinical Medicine
VIRGIL SCOTT, M.D. Assistant Professor of Medicine
JOHN R. SMITH, M.D. Assistant Professor of Medicine
ARTHUR E. STRAUSS, M.D. Assistant Professor of Clinical Medicine
BARRETT TAUSIG, M.D. Assistant Professor of Clinical Medicine
LAWRENCE D. THOMPSON, M.D. Assistant Professor of Clinical Medicine
LEO WADE, M.D. Assistant Professor of Medicine
RAY D. WILLIAMS, M.D. Assistant Professor of Clinical Medicine
KEITH S. WILSON, M.D. Assistant Professor of Clinical Medicine
CYRIL M. MACBRYDE, M.D. Assistant Professor of Clinical Medicine
HARRY AGRESS, M.D. Instructor in Clinical Medicine
LOUIS F. AIKEN, M.D. Instructor in Clinical Medicine
SIMPSON BEAM, M.D. Instructor in Clinical Medicine

1 Deceased December 27, 1946.
*On leave of absence effective January 1, 1947.
2 Effective February 1, 1947.
<table>
<thead>
<tr>
<th>Name</th>
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<tr>
<td>JOSEPH F. BREDECK, M.D.</td>
<td>Instructor in Clinical Medicine</td>
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<td>LEON BROMBERG, M.D.</td>
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For the purposes of both teaching and research the Department of Medicine is divided into specialty divisions, under the following directors:

Allergy .............................................. Dr. Alexander
Arthritic Disease ................................. Dr. Hageman
Cardiovascular Disease ...................... Dr. J. Smith
Chest Disease ...................................... Dr. Goldman
Dermatology ...................................... Dr. Weiss
Gastroenterology ................................ Dr. Duden
Hematology and Nutrition .................. Dr. C. V. Moore
Hypertension ..................................... Dr. Schroeder
Infectious Disease .............................. Dr. Harford
Metabolic Disease ............................. Dr. Futcher
Venereal Disease ............................... Dr. V. Scott

Instruction in medicine commences with the second trimester of the second year and continues throughout the third and fourth years of the curriculum. The teaching of the second year has two main objectives—first, the correlation of the basic sciences with the clinical aspects of disease, and secondly, training in the technical methods of physical examination and laboratory diagnosis. By the beginning of the third year the student is prepared for supervised clinical study of individual patients in the wards. The emphasis in the junior year is placed upon clinical diagnosis. In the final year each student acts for one month as clinical clerk in the general medical, and dermatological clinics, and for one month in the wards of Barnes Hospital. During his senior clinical clerkship he receives formal instruction in medical therapeutics. In addition each senior student serves as a clinical clerk in the venereal disease clinic for one month during his clerkship in Preventive Medicine.

SECOND YEAR

20. ELEMENTARY MEDICINE.

(a) Physiological Interpretation of Signs and Symptoms. Observation and interpretation of the symptoms and signs of disease, with special
reference to pathological anatomy and physiology. Part of Conjoint Medicine. (See page 79.) 20 hours.
(Drs. Wood, Duden, Futcher, Harford, Massie, C. V. Moore, Reinhard, J. Smith, R. Williams.)

(b) Physical Diagnosis. Lectures, demonstrations and practical exercises in the technique of physical diagnosis. Part of Conjoint Medicine. (See page 79.) 66 hours.

(c) Clinical Chemistry and Microscopy. Lectures and Laboratory course in methods of microscopic and chemical diagnosis. Part of Conjoint Medicine. (See page 79.) 99 hours.
(Drs. Carl Moore, Reinhard, Goetsch, Agress, Allen, Dammin, Weiss, Miss Minnich.)

THIRD YEAR

30. GENERAL MEDICINE.

(a) Supervised Study of Patients in Wards of St. Louis City Hospital. Students are assigned to rotation as clinical clerks to the patients admitted to the medical service of the hospital. The work is supervised by clinical instructors, each of whom is responsible for not more than three students. Teaching exercises include ward rounds, clinics and afternoon work in the wards and laboratories. 13 1/2 hours a week for one quarter. 252 hours.
(Drs. Taussig, Baumgarten, Beam, Edwards, Gottlieb, Hageman, Karl, Kelley, Kirstein, Wilson.)

(b) Systematic Study of Infectious Diseases. Ward rounds and clinics presenting a survey of the more common infectious diseases are held once a week at the St. Louis City Isolation Hospital. 2 hours a week for one quarter. 14 hours.
(Drs. Harford, Sale, Jr.)

(c) Instruction in Tuberculosis. Students are assigned in rotation to patients admitted to the tuberculosis wards of the St. Louis City Hospital, and formal ward rounds are held on the tuberculosis service one afternoon each week. Two hours each week for one quarter. 16 hours.
(Dr. Flance)

(d) Laboratory Diagnosis. Cases selected to illustrate the importance of laboratory diagnostic methods are presented to the students each week during their medical quarter. A specimen of blood, urine, stool, sputum, pleural or peritoneal fluid from the patient is given to each student who is required to reach a final diagnosis on the basis of the clinical history and his own laboratory findings. The correct laboratory data and the final diagnosis are presented at the end of the period. Two hours each week for one quarter. 24 hours.
(Drs. C. Moore and Reinhard)
31. MEDICAL SYMPOSIA. A limited number of symposia on selected subjects are presented to the junior students one morning a week during part of the school year. 4 hours. (Medical staff)

32. CLINICAL PATHOLOGICAL CONFERENCE. 36 hours. (See under Fourth Year—Medicine 42.)

33. MEDICAL CLINICS. 36 hours. (See under Fourth Year—Medicine 41.)

FOURTH YEAR

40. MEDICINE

(a) Clinical clerkship in Hospital Wards. For six weeks the entire day is spent in the medical wards at Barnes Hospital. Patients are assigned for complete study and are followed throughout their stays in the hospital. Cases are presented by the student before the attending physician at ward rounds on the General Medical Wards three times a week and on the Metabolism Ward once a week. These students also attend weekly Staff Rounds. 180 hours.

(Drs. Wood, Clark, Duden, Fuchter, Harford, MacBryde, Massie, C. Moore, Reinhard, Scott, Smith, Wade, Williams)

(b) Clinical Clerkship in Washington University Clinics. Students act as clinic physicians for six weeks under the supervision of consultants in the following outpatient clinics:

Morning
Medicine A Clinic (General Medicine)
(Drs. Goldman, Aitken, B. Charles, Drake, H. Erlanger, Kenamore, Koenig, Kotner, Kountz, Massie, Scheff, Thompson)
Medicine B Clinic (General Medicine)
(Drs. Strauss, Brooks, Becke, Bromberg, Cannady, Cook, Duden, Elson, Fischel, Grant, Horner, Kotner, Sale, Sr., Sale, Jr.)

Afternoon
Dermatology Clinic* (Dr. Weiss and Staff)
Syphilis Clinic**
(Drs. Scott, Clark, Fleishman, Henry, Maxwell, Roberts, Smith, Steinberg)

180 hours.

The records of approximately one-fourth of the patients studied by the students during this clerkship are subsequently reviewed during the clerkship in Preventive Medicine. These patients are visited in their homes by the students and later are reported on in conferences of 12 to 24 students. Certain members of the clinic staff participate in these discussions.

(c) Medical Therapeutics. The medical treatment of the more common diseases is discussed systematically and in considerable detail. Two hours each week during the medical quarter. 24 hours. (Medical Resident and Staff)

* Held at the Barnard Free Skin and Cancer Hospital.
** During Preventive Medicine Clerkship.
41. Medical Clinics. Cases which have been studied by students working in the wards of the Barnes Hospital are presented before the third and fourth year classes to illustrate medical problems of particular interest. One hour each week throughout the year. 36 hours.

(Drs. Wood, Alexander, Duden, Futcher, Goldman, Harford, Carl Moore, Reinhard, Smith)

42. Clinical Pathological Conferences. Abstracts of the clinical records of patients upon whom post mortem examinations have been performed are presented in advance to members of the third and fourth year classes and to members of the medical staff. At each conference the diagnosis is discussed in detail by the clinical staff before the anatomical findings are presented by the pathologists. 36 hours.

Dr. Alexander and Medical Staff, Dr. Robert Moore and Pathology Staff

Elective Courses

50. Medical Clerkship at Homer Phillips Hospital. Four students—All day for four or eight weeks. Attendance at ward rounds and conferences. Students will be given an opportunity to study selected patients admitted to the medical wards.

(Dr. Bulger and Staff)

51. Medical Clinics. Four students—Mornings and afternoons, eight weeks. General medical clinics each morning and Gastrointestinal (Monday), Allergy (Tuesday), Arthritic (Wednesday) and Endocrine (Thursday) Clinics in afternoon.

(Drs. Brooks, Kenamore, Eyermann, Hagemann, and Futcher)

52. Diseases of the Chest. Koch Hospital. Four students—All day for four weeks. Individual training in the clinical examination of patients suffering from thoracic disease. Assignment of selected cases. Discussion and demonstration of therapeutic procedures. Attendance at staff conferences and Clinical Pathological Conference at Koch Hospital.

(Drs. Kettelkamp, Friedman)

53. Metabolic Diseases. Two students—All day for four or eight weeks. Rounds and assignment of selected cases in metabolism ward of the Barnes Hospital. Attendance at Diabetic and Endocrine Clinics in Washington University Clinics. Training in special diagnostic tests applicable to the study of metabolic and endocrine diseases.

(Dr. Futcher)

54. Infectious Diseases. One student. Mornings only for four weeks. Observations of patients with infectious diseases in Barnes Hospital and the ward for contagious diseases at the City Hospital. Intensive study in the library of problems connected with these patients.

(Dr. Harford)

55. Hematology. One senior student may be accepted each quarter for special work in the Hematology Laboratory. Time is divided between study of patients with hematologic dyscrasias and training in special diagnostic procedures.

(Dr. C. Moore)
56. Medical Research. A limited number of qualified students are given the opportunity to carry on original research in the laboratories of the Department of Medicine. (Dr. Wood)

NEUROPSYCHIATRY

EDWIN F. GILDEA, M.D. .............................................. Professor of Psychiatry
SIDDNEY I. SCHWAB, M.D. .............................................. Professor Emeritus of Clinical Neurology
GEORGE H. BISHOP, PH.D .............................................. Professor of Neurophysiology
JAMES L. O'LEARY, M.D .............................................. Professor of Neurology
ARCHIE D. CARR, M.D .............................................. Assistant Professor of Clinical Neurology
HYMAN H. FINGERT, M.D .............................................. Assistant Professor of Clinical Neurology
ANDREW E. JONES, M.D .............................................. Assistant Professor of Clinical Neurology
IRWIN LEVY, M.D. .............................................. Assistant Professor of Clinical Neurology
HANS B. MOLHOLM, M.D .............................................. Assistant Professor of Psychiatry
ERNEST H. PARSONS, M.D .............................................. Assistant Professor of Psychiatry
GEORGE SASLOW, M.D .............................................. Assistant Professor of Psychiatry
VAL B. SATTERFIELD, M.D .............................................. Assistant Professor of Clinical Psychiatry
CONRAD SOMMER, M.D .............................................. Assistant Professor of Clinical Psychiatry
LOUIS L. TUREEN, M.D .............................................. Assistant Professor of Clinical Psychiatry
ETHEL RONZONI-BISHOP, PH.D ........................................... Assistant Professor of Biological Chemistry in Neuropsychiatry
SAMUEL R. WARSON, M.D .............................................. Assistant Professor of Psychiatry
ROBERT M. BELL, M.D .............................................. Instructor in Social Service
ALFRED BUCHMUELLER, A.B .............................................. Instructor in Clinical Psychiatry
ANTHONY K. BUSCH, M.D .............................................. Instructor in Clinical Psychiatry
MARGARET C-L GILDEA, M.D .............................................. Instructor in Clinical Psychiatry
JOSEPH J. GITT, M.D .............................................. Instructor in Clinical Psychiatry
ALEX H. KAPLAN, M.D .............................................. Instructor in Clinical Psychiatry
PAUL KURITSCHEK, M.D .............................................. Instructor in Clinical Child Psychiatry
SYDNEY B. MAUGHS, M.D .............................................. Instructor in Clinical Psychiatry
ANNE E. ROYER, M.A .............................................. Instructor in Medical Psychology
THOMAS THALE, M.D .............................................. Instructor in Psychiatry
PAUL J. ZENTAY, M.D .............................................. Instructor in Clinical Neurology
AMELIA A. BAUER, M.D .............................................. Assistant in Neuropsychiatry
WILLIAM S. FIELDS, M.D .............................................. Rockefeller Postwar Assistant in Neuropsychiatry
BERNARD S. GORDON, M.D .............................................. Assistant in Neuropsychiatry
SIDDNEY Z. HULBERT, M.D .............................................. Assistant in Neuropsychiatry
BARBARA S. KENDALL, A.B .............................................. Assistant in Medical Psychology
FREDERICK W. KNOKE, JR, M.D .............................................. Assistant in Psychiatry
HARRIETTE B. KOLKER, B.A .............................................. Assistant in Medical Psychology
ROBERT MUELLER, M.D .............................................. Assistant in Clinical Psychiatry
JAMES R. PAUL, M.D .............................................. Assistant in Neuropsychiatry
BARBARA SHIER, M.D .............................................. Assistant in Psychiatry
FRANK O. SHORE, M.D .............................................. Assistant in Neuropsychiatry
STANLEY TURKEL, M.D .............................................. Assistant in Psychiatry
E. VAN NORMAN EMERY, M.D .............................................. Lecturer in Psychiatry
LEOPOLD HOFFSTATTER, M.D .............................................. Research Fellow in Neuropsychiatry

Instruction in the Department of Neuropsychiatry is given in all four years of the medical course. In the first semester a course is given on the structure of the personality, with particular emphasis on the development of attitudes. Other lectures and demonstrations in the first and second years are designed to correlate clinical neurology with neuroanatomy, laying special emphasis upon the integration of organic functions through neural mechanisms and the encephalization and corticalization of personality functions.
In the second year, correlated with medical and surgical instruction in history-taking and in physical examination, elementary instruction is given in the approach to the patient as a person. This is done in demonstration interviews, with subsequent discussion. The student begins to appreciate the chief patterns of behavior that characterize a given person; the vulnerabilities of the person when these patterns are inadequate for important life situations; the symptoms (disturbances in physiology, emotion and thinking) associated with ineffective management of common and uncommon life crises; and the nature of adequate reactions to life crises.

In the third year, psychiatric instruction is given in clerkship, lectures and conferences. Patients with minor and major personality disorders are studied; in cross-section, longitudinally, and in their family and community settings. The student becomes familiar with the common patterns of psychiatric illness, the etiological factors relevant to these entities (genetic, constitutional, traumatic, developmental, social, etc.), the techniques of personality study, and current methods of treatment.

Instruction in neurology in the third year is given in lectures, demonstrations and clinical clerkships. Emphasis is laid on the diagnosis and treatment of the common neurological syndromes, and on giving the students a basic training in the technique and interpretation of the neurological examination.

In the fourth year, weekly clinics are held for the whole class. Neurological and psychiatric topics are presented in alternate weeks. Weekly conferences are held with the clinical clerks assigned to ward medicine. Students may select electives of special interest from a variety of opportunities. In the psychiatric teaching, whether regular course or elective, major emphasis is upon psychosomatic medicine and upon therapy.

**FIRST YEAR**

10. NEUROPSYCHIATRY.

**INTRODUCTION TO MEDICAL PSYCHOLOGY.** Lectures, essays and personal discussions concerning the development of human attitudes and emotional reactions affecting the study of practice of medicine. 20 hours.

**INTEGRATIVE NEUROLOGY.** A series of lectures, demonstrations and clinics concerning integrated functions of the organisms, given as part of Anatomy 12. The purpose of this series is to correlate laboratory investigations of the nervous system with clinical problems. Approximately 8 hours.

(Drs. E. Gildea, O'Leary, Bishop)

**SECOND YEAR**

20. PSYCHIATRY.

**THE INTERVIEWING OF PATIENTS.** (Part of Conjoint Medicine [see page 79].) Demonstrations of interviewing of patients with a diversity of clinical problems. Discussion of the means used to establish an effective physician-patient relationship, and to elicit spontaneously essential information of personal import. 15 hours.

(Dr. G. Saslow)
NEUROLOGY.

NEUROLOGICAL EXAMINATION IN PHYSICAL DIAGNOSIS. (Part of Con-
joint Medicine [see page 79].) Lectures, demonstrations and exercises in
the neurological examination of the patient. 6 hours.
(Drs. Jones and Levy in conjunction with Dr. Wood and Assistants)

THIRD YEAR

30. PSYCHIATRY.

(a) PSYCHOPATHOLOGY: some of the characteristics of abnormal human
behavior. Lectures concerning those patterns of individual development
which are often associated with personality disorders and the nature
of the disorders. 11 hours. (Dr. E. F. Gildea)

(b) CLINICAL CLERKSHIP. One-ninth of the third year class serve a
clinical clerkship of three to four weeks in the University Clinics. The
students are assigned patients and participate in the work of the clinics
under close personal supervision of the staff members. Interviews with
institutionalized patients and conferences on selected cases are provided
at the Washington University Clinics (Neuropsychiatry). Seminars
covering the fundamentals of diagnosis, psychopathology and therapy
are given during this period of time. 80 hours.
(Drs. E. Gildea, Warson, Fingert, Maughs, M. Gildea,
Molholm, Busch, Thale, Mr. Buchmueller)

31. NEUROLOGY.

(a) CLINICAL NEUROLOGY. Lectures with demonstrations on diseases
affecting the nervous system. The semiology of affections of the nervous
system is taken up in the first third of the course, after which diseases
of the nervous system are considered with emphasis on the biology of the
disease and the rationale of therapy. One hour a week, first and second
quarters. 22 hours. (Drs. Levy, O'Leary, Jones)

(b) CLINICAL CLERKSHIPS. Clinical clerkships on wards of the St.
Louis City Hospital. Students participate under supervision in the
examination and treatment of patients. Emphasis is laid on the tech-
nique and interpretation of history-taking and the neurological physical
examination. 30 hours. (Drs. Gitt, E. Gildea)

FOURTH YEAR

40. PSYCHIATRY.

(a) PSYCHIATRIC CLINIC. An exercise every other week throughout
the year, alternating with the Neurological Clinic (neurology 41(a)).
Presentation and discussion of psychiatric factors important in the diag-
nosis and treatment of patients in a general Hospital. Emphasis is upon
psychosomatic medicine. One hour every two weeks throughout the year.
17 hours. (Drs. E. Gildea, Saslow)

(b) PSYCHIATRIC ROUNDS. One meeting a week with students during
clerkships on ward medicine. Medical patients with psychiatric problems
are presented by students, then interviewed, and various aspects of their problems are discussed. Emphasis is upon psychosomatic medicine. 6 hours.  

(Dr. Saslow)

41. NEUROLOGY.

(a) NEUROLOGICAL CLINIC. An exercise every other week throughout the year, alternating with the Psychiatric Clinic (Psychiatry 40). The more important neurological diseases and syndromes are presented and discussed with illustrative cases from the Barnes Hospital. One hour every two weeks throughout the year. 16 hours.  

(Drs. Jones, O’Leary, Levy)

(b) NEUROLOGICAL ROUNDS. One meeting a week (2 hours) with the students during clerkships on ward medicine. Patients with neurological disorders are presented and discussed in detail. 8 hours.  

(Drs. Jones, O’Leary, Levy)

ELECTIVE COURSES

51. Psychiatry. Work may be elected for four or eight weeks. Student’s preferences as to type of experience desired will be met so far as possible. Students may work in McMillan Hospital, the Bliss Institute, the City Sanitarium, the Barnes Hospital, or the University Clinics. Each student must make his wishes known to Dr. E. F. Gildea and must then obtain the approval of the staff member who will supervise the work.  

(Drs. E. Gildea, Saslow, Molholm, O’Leary, Warson, Parsons)

52. Research in Neurology, Neuropathology, Psychology and Psychiatry. Facilities are available for qualified students to undertake original research in the laboratories of the department or in the clinics or wards.

53. Staff Conferences. Students are invited to attend certain of the psychiatric and neurological staff conferences. These are as follows: a psychiatric staff conference held weekly at the Bliss Institute; neurological staff conferences held weekly at the Barnes Hospital; conferences of the neuropsychiatric and neurosurgical staffs held weekly at Barnes Hospital.

OBSTETRICS AND GYNECOLOGY

WILLARD M. ALLEN, M.D. Professor of Obstetrics and Gynecology  
HARRY STURGEON CROSSEN, M.D.  
Professor Emeritus of Clinical Obstetrics and Gynecology  
T. K. BROWN, M.D. Professor of Clinical Obstetrics and Gynecology  
GRANDISON D. ROYSTON, M.D.  
Professor of Clinical Obstetrics and Gynecology  
OTTO HENRY SCHWARZ, M.D.  
Professor of Clinical Obstetrics and Gynecology  
NORMAN ARNESON, M.D.  
Associate Professor of Clinical Obstetrics and Gynecology  
ROBERT J. CROSSEN, M.D.  
Assistant Professor of Clinical Obstetrics and Gynecology  
JOHN E. HOBBS, M.D.  
Assistant Professor of Clinical Obstetrics and Gynecology  
OTTO S. KREBS, M.D.  
Assistant Professor of Clinical Obstetrics and Gynecology
FRANK P. MCNALLEY, M.D.
Assistant Professor of Clinical Obstetrics and Gynecology

JAMES F. NOLAN, M.D.
Assistant Professor of Obstetrics and Gynecology

CHARLES D. O'KEEFE, M.D.
Assistant Professor of Clinical Obstetrics and Gynecology

RICHARD PADDOCK, M.D.
Assistant Professor of Clinical Obstetrics and Gynecology

MELVIN A. ROBLEE, M.D.
Assistant Professor of Clinical Obstetrics and Gynecology

ADOLPH G. SCHLOSSSTEIN, M.D.
Assistant Professor Emeritus of Clinical Obstetrics and Gynecology

DUDLEY R. SMITH, M.D.
Assistant Professor of Clinical Obstetrics and Gynecology

SAMUEL D. SOULE, M.D.
Assistant Professor of Obstetrics and Gynecology

CARL R. WEGNER, M.D.
Assistant Professor of Clinical Obstetrics and Gynecology

FRANZ ARZT, M.D. Instructor in Clinical Obstetrics and Gynecology

ARTHUR R. BORTNICK, M.D.
Instructor in Clinical Obstetrics and Gynecology

MYRON W. DAVIS, M.D.
Instructor in Clinical Obstetrics and Gynecology

ARTHUR ESSLINGER, M.D.
Instructor in Clinical Obstetrics and Gynecology

GROVER B. LIESE, M.D., Instructor in Clinical Obstetrics and Gynecology

MILTON H. MEYERHARDT, M.D.
Instructor in Clinical Obstetrics and Gynecology

SEYMOUR MONAT, M.D.* Instructor in Clinical Obstetrics and Gynecology

KEVIN C. MERRIN, M.B. Instructor in Clinical Obstetrics and Gynecology

JOHN B. O'NEILL, M.D. Instructor in Clinical Obstetrics and Gynecology

DAVID ROTHMAN, M.D. Instructor in Clinical Obstetrics and Gynecology

WILLARD C. SCRIVNER, M.D. Instructor in Clinical Obstetrics and Gynecology

H. ALLEN, M.D.
Assistant in Clinical Obstetrics and Gynecology

WILLIAM D. HAWKER, M.D.
Assistant in Clinical Obstetrics and Gynecology

S. J. CANEPA, M.D.
Assistant in Clinical Obstetrics and Gynecology

WILLIAM C. CHALECKE, M.D. Assistant in Obstetrics and Gynecology

CHARLES R. GULICK, M.D. Assistant in Obstetrics and Gynecology

WILLIAM D. HAWKER, M.D.
Assistant in Clinical Obstetrics and Gynecology

SAMUEL J. HAYWARD Research Assistant in Obstetrics and Gynecology

HERMAN HUTTO, M.D. Assistant in Clinical Obstetrics and Gynecology

WILLIAM H. MASTERS, M.D. Assistant in Obstetrics and Gynecology

PAUL F. MAX, M.D. Assistant in Clinical Obstetrics and Gynecology

F. ROSS MCPADDEN, M.D. Assistant in Obstetrics and Gynecology

LESLEY E. PATTON, M.D. Assistant in Clinical Obstetrics and Gynecology

LUI S PRIETO, JR., M.D. Assistant in Obstetrics and Gynecology

FRANCES H. STEWART, M.D.
Assistant in Clinical Obstetrics and Gynecology

RALPH B. WOOLF, M.D. Assistant in Obstetrics and Gynecology

1 Effective January 1, 1947.
Students are given practical instruction in obstetrics and gynecology in the St. Louis Maternity Hospital, the Barnes Hospital, the University Clinics and the St. Louis City Hospital. The St. Louis Maternity provides approximately 900 confinements, the St. Louis City Hospital, 600 and the home delivery service of the University Clinics, 175, annually. On the gynecological divisions there are approximately 400 admissions annually in the Barnes Hospital and 500 in the St. Louis City Hospital which are available for teaching purposes. Instruction in the care of ambulatory patients is carried out in the University Clinics where about 1,000 new patients are seen and 9,000 follow up visits are made annually.

SECOND YEAR

20. INTRODUCTION TO OBSTETRICS. Part of the course in Conjoint Medicine (see page 79).

THIRD YEAR

30. OBSTETRICAL AND GYNECOLOGICAL PATHOLOGY. Three hours a week (in sections of one-fourth of the class). 24 hours.

(Dr. Hobbs and Staff)

31. CLINICAL CLERKS. Students spend eight weeks on the wards at the St. Louis Maternity and Barnes Hospitals where they become an integral part of the organization studying cases in detail, assisting at operations and at deliveries. In addition small groups are given special instruction in abdominal palpation, pelvic examination and measurement of the pelvis in the outpatient department of the St. Louis City Hospital. During the clerkship informal lectures are given.

(Dr. Allen and Staff)

FOURTH YEAR

40. CLINICS AND LECTURES. Entire class once weekly throughout the year. 33 hours.

(Dr. Allen and Staff)

41. CLINICAL CLERKS. One-sixteenth of the class serves as clinical clerks in the University Clinics for a period of two weeks. During this period they spend the day from 9:00 to 12:00 and 1:30 to 4:00. New patients are assigned and after complete history and physical examination has been made each case is reviewed with the student by a member of the staff. Old patients are also seen frequently and ample opportunity is provided for examination of prenatal patients. Students also attend special clinics which are held concurrently with the regular clinic. 61 hours.

42. OBSTETRICAL SERVICE. A second group of one-sixteenth of the class spends two weeks on obstetrical call. During this period they reside in the hospital, some at the St. Louis Maternity Hospital and others at the

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1 Resigned December 31, 1946.
2 July 1 to December 31, 1946.
St. Louis City Hospital, and attend under supervision a number of women during labor. In some instances they will attend labor conducted in the home.

43. **Tumor Clinic.** Instruction in the diagnosis and treatment of neoplastic disease is given two hours once weekly in the tumor clinic for a period of four weeks. This is conducted jointly with the Department of Radiology and the use of radium and deep X-ray therapy in these conditions is demonstrated. Students have the opportunity of seeing several patients before, during and after treatment.

**ELECTIVE COURSES**

40. **Gynecological Pathology.** Two students may serve as assistants in the laboratory of the St. Louis Maternity Hospital and participate in the routine. Four or eight weeks. Full time. All quarters.

41. **University Clinics.** Three students as clinical clerks, all day for four or eight weeks.

42. **Maternity Hospital.** One or two students may serve as clinical clerks, living in the hospital four or eight weeks.

**OPHTHALMOLOGY**

**LAWRENCE T. POST, M.D.**
Professor of Clinical Ophthalmology and Head of the Department

**MEYER WIENER, M.D.** Professor Emeritus of Clinical Ophthalmology

**WILLIAM E. SHAHAN, M.D.** Professor of Clinical Ophthalmology

**WILLIAM F. HARDY, M.D.**
Associate Professor Emeritus of Clinical Ophthalmology

**M. HAYWARD POST, M.D.** Associate Professor of Clinical Ophthalmology

**FREDERICK O. SCHWARTZ, M.D.** Associate Professor of Clinical Ophthalmology

**FREDERICK E. WOODRUFF, M.D.**
Associate Professor Emeritus of Clinical Ophthalmology

**B. Y. ALVIS, M.D.** Assistant Professor of Clinical Ophthalmology

**CARL C. REISBARTH, M.D.** Assistant Professor of Clinical Ophthalmology

**H. ROMMEL HILDRETH, M.D.** Assistant Professor of Clinical Ophthalmology

**WILLIAM M. JAMES, M.D.**
Assistant Professor of Clinical Ophthalmology

**E. B. ALVIS, M.D.**
Instructor in Clinical Ophthalmology

**DANIEL BISNO, M.D.**
Instructor in Clinical Ophthalmology

**JAMES H. BRYAN, M.D.**
Instructor in Clinical Ophthalmology

**J. C. CRAWFORD, M.D.**
Instructor in Clinical Ophthalmology

**S. ALBERT HANSAER, M.D.**
Instructor in Clinical Ophthalmology

**ADOLPH C. LANGE, M.D.**
Instructor in Clinical Ophthalmology

**ROBERT DEAN MATTIS, M.D.**
Instructor in Clinical Ophthalmology

**WILLIAM MEINBERG, M.D.**
Instructor in Clinical Ophthalmology

**BENJAMIN MILDER, M.D.**
Instructor in Clinical Ophthalmology

**MERRILL J. REIN, M.D.**
Instructor in Ophthalmology

**E. NORRIS ROBERSTSON, M.D.**
Instructor in Clinical Ophthalmology

**HARRY D. ROSENBURG, M.D.**
Instructor in Clinical Ophthalmology

**THEODORE E. SANDERS, M.D.**
Instructor in Clinical Ophthalmology

**RICHARD G. SCOBEE, M.D.**
Instructor in Ophthalmology

**NORMAN R. CHAN-PONG, M.B., A.B.**
Assistant in Ophthalmology

**FRANCES CHAPPELL, M.D.**
Assistant in Clinical Ophthalmology
SECOND YEAR

OPHTHALMOLOGY. Lectures and demonstrations are given as a part of the course in Conjoint Medicine. 3 hours. (See page 79.)  
(Drs. Lawrence Post, James, Scobee)

THIRD YEAR

30. OPHTHALMOLOGY. Ten lectures are given in the third and fourth quarters.  
(Dr. Lawrence Post)

31. CLINICAL OPHTHALMOLOGY. Instruction in diagnosis and treatment of eye diseases is given to small sections of the class. Nine hours a week for two weeks. 18 hours.  
(Drs. Lawrence Post, M. H. Post, Schwartz, James, Beisbarth, Hildreth, E. B. Alvis, Lange)

OTOLARYNGOLOGY

THEODORE E. WALSH, M.R.C.S., L.R.C.P. Professor of Otolaryngology
HARRY W. LYMAN, M.D. Professor Emeritus of Clinical Otolaryngology
HALLOWELL DAVIS, M.D. Research Professor of Otolaryngology
ARTHUR W. PROETZ, M.D. Professor of Clinical Otolaryngology
ARTHUR M. ALDEN, M.D. Associate Professor of Clinical Otolaryngology
JAMES B. COSTEN, M.D. Associate Professor of Clinical Otolaryngology
WALTER P. COVELL, M.D. Associate Professor of Otolaryngology
FRENCH K. HANSEL, M.D. Associate Professor of Clinical Otolaryngology

MILLARD F. ARBUCKLE, M.D. Associate Professor of Clinical Otolaryngology
A. J. CONE, M.D. Assistant Professor of Clinical Otolaryngology
HARRY N. GLICK, M.D. Assistant Professor of Clinical Otolaryngology
I. D. KELLEY, M.D. Assistant Professor of Clinical Otolaryngology
BEN H. SENTURIA, M.D. Assistant Professor of Clinical Otolaryngology
W. T. K. BRYAN, M.D. Instructor in Clinical Otolaryngology
HAROLD M. CUTLER, M.D. Instructor in Clinical Otolaryngology
L. W. DEAN, JR., M.D. Instructor in Clinical Otolaryngology
JAMES T. HALL, M.D. Instructor in Otolaryngology
GUERDAN HARDY, M.D. Instructor in Clinical Otolaryngology
ALLEN B. POTTER, M.D. Instructor in Clinical Otolaryngology
G. O’NEIL PROUD, M.D. Instructor in Otolaryngology
H. M. SMIT, M.D. Instructor in Clinical Otolaryngology
A. C. STUTSMAN, M.D. Instructor in Clinical Otolaryngology
ROBERT E. VOTAW, M.D. Instructor in Clinical Otolaryngology
HELEN GAGE, M.D. Assistant in Clinical Otolaryngology
EDWARD H. LYMAN, M.D. Assistant in Clinical Otolaryngology
JAMES L. MCCRARY, M.D. Assistant in Clinical Otolaryngology
JOSEPH H. OGURA, M.D. Assistant in Otolaryngology
F. W. SCHERBER, M.D. Assistant in Clinical Otolaryngology
S. R. SILVERMAN, Ph.D. Lecturer in Audiology
B. FEMINIC, M.D. Fellow in Otolaryngology
SECOND YEAR

OTOLARYNGOLOGIC AND PHYSICAL DIAGNOSIS. The class is divided into small groups with individual instructors for a total of six hours for instruction in the methods of Otolaryngological diagnosis and the use of instruments peculiar to this field. Part of Conjoint Medicine (see page 79).

THIRD YEAR

30. OTOLARYNGOLOGY. Clinical instruction is given to sections of six for twelve hours a week for two weeks. 24 hours. (Dr. Kelley)

ELECTIVE COURSE

50. Clerkship in Otolaryngology. Two students may serve as externes in the clinics for four or eight weeks. Permission of the Head of the Department is necessary before registration for this elective. Full time. (Dr. Walsh and Staff)

PATHOLOGY

ROBERT A. MOORE, PH.D., M.D.,

Edward Mallinckrodt Professor of Pathology

LEO LOEB, M.D..............................................
SAM GRAY, M.D..............................................
MARGARET G. SMITH, M.D..............................
BARNET M. LEVY, D.D.S...................................
LAUREN V. ACKERMAN, M.D............................
PARKER BEANER, M.D...................................
GUSTAVE DAMMIN, M.D.................................
JOHN A. SAXTON, JR., M.D.............................
ROBERT E. STOWELL, M.D......................Edward Mallinckrodt Professor of Pathology
HENRY ALLEN, M.D........................................
HERBERT BREYFOGLE, M.D............................
WILSON G. BROWN, M.D..........................
ZOLA COOPER, PH.D.....................................
SIDNEY KAYE, M.SC.....................................
KARL R. SCHLADEMAN, M.D..........................
MARTIN SILBERBERG, M.D...........................
RUTH SILBERBERG, M.D..............................
FRANK TOWNSEND, M.D..............................
J. O. BOLEY, M.D.........................................
BETTY BEN GEREN, M.D..............................
RICHARD JOHNSON, M.D..............................
FRANZ LEIDLER, M.D.................................
SIMON RUSSI, M.D.....................................
FRANK VELLIOS, M.D.................................
THOMAS B. POTE, M.D...............................Lecturer Emeritus in Pathology
F. J. MANGANARO, M.D.............................Fellow in Pathology

Pathology for medical students is given during the second, third, and fourth years. In the second year there is the course in General and Special Pathology, and in the third and fourth years the students attend the Clinical and Pathological Conferences conducted in collaboration with the Clinical Departments.

1 On leave of absence July 1, 1946 to February 28, 1947.
3 On leave of absence for military service.
 Properly qualified students may register in the School of Medicine or School of Graduate Studies for any of the courses. Pathology 20 is a prerequisite for all other courses.

SECOND YEAR

20 (501). Pathology. General and special pathology is covered by lectures, gross and microscopic demonstrations and laboratory work. In general pathology, degenerations, inflammations, infectious diseases and tumors are considered. The diseases of each organ system are studied during the time devoted to special pathology. Small groups are given instruction in post-mortem technique, and in gross pathology. 290 hours.

(Drs. Moore, M. G. Smith, Stowell, Dammin, Beamer and Staff)

THIRD AND FOURTH YEARS

30 and 40. Clinical and Pathological Conference, Barnes Hospital. The clinical history and treatment of patients who have died are discussed before the class by the physicians and surgeons of the departments concerned. These conferences afford the students an opportunity to interpret the clinical observations in the light of the post-mortem findings. One hour a week during the third and fourth years.

(Drs. Moore, Margaret Smith, Stowell, Dammin, and Beamer)

ELECTIVE COURSES

50 (502). Major Research. The laboratory offers facilities for research in pathology. Specialists and students with adequate training who desire to extend their knowledge of pathology will be admitted.

(Drs. Moore, Margaret Smith, Stowell, Dammin, and Beamer)

51 (595). Journal Club. The current journals concerned with morphological and experimental pathology and oncology are reviewed by the members of the staff. Properly prepared students may attend or participate. Two hours once a week throughout the year.

52 (596). Seminar in Gross Pathology. The autopsies for the affiliated hospitals are performed by the junior members of the staff. The entire Department meets, and the cases are evaluated by the senior staff at this conference. Two hours once a week throughout the year.

(Drs. Moore, Margaret Smith)

53 (597). Seminar in Microscopic Pathology. The microscopic sections from each autopsy are presented by the prosector at a conference. Pertinent articles from the current literature are presented and discussed as they apply to the cases under consideration.

(Drs. Moore, Margaret Smith)

54 (598). Seminar in Theoretical and Experimental Pathology. Topics in General Pathology are selected and assigned to members of the junior staff and to qualified students for review. Once a week. (Dr. Moore)

55. Clerkship in Pathology at Washington University. Students may serve as clerks in the Department of Pathology. The students will assist
at autopsies and prepare reports for presentation at a seminar once a week. Six half days a week, or full-time throughout the year.
(Drs. Moore, M. G. Smith, Saxton, Stowell and Staff)

56. Minor Research. Those students who during a preceding summer or school year have initiated a research problem in Pathology may continue the work during the elective quarter of the fourth year. Full time for eight weeks. All quarters.
(Drs. Moore, Margaret Smith, Stowell, Dammin, and Beamer)

THE EDWARD MALLINCKRODT DEPARTMENT OF PEDIATRICS
ALEXIS F. HARTMANN, M.D. Professor of Pediatrics
JEAN V. COOKE, M.D. Professor of Pediatrics
BORDEN SMITH VEEDER, M.D. Professor of Clinical Pediatrics
RUSSELL J. BLATTNER, M.D. Associate Professor of Pediatrics
HUGH MCCulloch, M.D. Associate Professor of Clinical Pediatrics
RUTH MARTIN, D.D.S. Dentist on the Pediatrics Staff
ADRIEN BLEYER, M.D. Instructor in Clinical Pediatrics
MERL J. CARSON, M.D. Instructor in Pediatrics
MAX DEUTCH, M.D. Instructor in Clinical Pediatrics
GILBERT B. FORBES, M.D.* Instructor in Pediatrics
LAWRENCE GOLDMAN, M.D. Instructor in Clinical Pediatrics
STANLEY HARRISON, M.D. Instructor in Clinical Pediatrics
FLORENCE HEYS, PH.D. Instructor in Biology in Pediatrics
FREDERICK A. JACOBS, M.D. Instructor in Clinical Pediatrics
JOSEPH JAUDON, M.D. Instructor in Clinical Pediatrics
SIDNEY JAYNES, D.D.S. Dentist in the Department of Pediatrics
DOROTHY JONES, M.D. Instructor in Clinical Pediatrics
PAUL E. KUBITSCHER, M.D. Instructor in Clinical Pediatrics
SOL LONDE, M.D. Instructor in Clinical Pediatrics
ANNE M. PERLEY, A.M. Instructor in Biological Chemistry in Pediatrics
EDITI C. ROBINSON, M.D. Instructor in Clinical Pediatrics
ALFRED S. SCHWARTZ, M.D. Instructor in Clinical Pediatrics
H. EWING WACHTER, M.D. Instructor in Clinical Pediatrics
PARK J. WHITE, M.D. Instructor in Clinical Pediatrics
PAUL ZENTAY, M.D. Instructor in Clinical Pediatrics
HELEN AFF, M.D. Assistant in Clinical Pediatrics
JOSEPH A. BAUER, M.D. Assistant in Clinical Pediatrics
EZRA EVANS, M.D. Assistant in Pediatrics
RUTH B. GERSTUNG, B.A. Research Assistant in Bacteriology in Pediatrics
SAMUEL GOLLUB, M.D. 1 Assistant in Pediatrics
JAMES GOODFRIEND, M.D. Assistant in Pediatrics
LEO GOWEN, M.D. Assistant in Clinical Pediatrics
JEAN HOLOWACH, M.D. Assistant in Pediatrics
MARIANNE KUTTNER, M.D. Assistant in Clinical Pediatrics
HARRY LAWLER, M.D. Assistant in Clinical Pediatrics
MAURICE LONSWAY, M.D. Assistant in Clinical Pediatrics
JOHN C. MARTZ, M.D. Assistant in Pediatrics
DAVID MCCLURE, M.D. Assistant in Clinical Pediatrics
HELEN McGINNIS, B.A. Research Assistant in Chemistry in Pediatrics
BERNARD SCHWARTZMAN, M.D.* Assistant in Clinical Pediatrics
JANET SOVILE, M.D. Assistant in Pediatrics
DON THURSTON, M.D. Assistant in Pediatrics
MARTIN WITHERS, M.D. Assistant in Pediatrics
HELEN YEAGER, M.D. Assistant in Pediatrics
IHSAN DOGRAMACI, M.D. Fellow in Pediatrics

1 Resigned December 31, 1946.
The instruction during the third year is designed to introduce the subject of pediatrics to the student by a systematic course of lectures emphasizing particularly normal growth and development, infant nutrition and feeding, acute infectious diseases, and serious disturbances in water and mineral metabolism.

During the fourth year the emphasis is placed on the physical findings of disease and the student is brought into close contact with the patient in the wards of the St. Louis Children's Hospital, and by frequent clinical conferences with the teaching staff.

THIRD YEAR

30. Pediatric representation in the Conjoint Course consist of 22 lectures of two hours each and participation in 8 symposia of two hours' duration. (Drs. Hartmann, Cooke, Blattner, Veeder)

FOURTH YEAR

40. PEDIATRIC CLINIC. Weekly amphitheatre demonstrations and discussions of selected cases from the hospital, for the whole class. 32 hours.

(Drs. Hartmann, Cooke, Blattner, Carson, Goodfriend, Thurston)

41. CLINICAL AND PATHOLOGICAL CONFERENCES. Weekly conferences, following clinical conferences. See also Pathology 40.

42. CLINICAL CLERKSHIPS. For essentially the entire day, beginning at 9:00 a.m., one-eighth of the class works as clinical clerks for five or six weeks. This work consists of the following: (1) daily early morning ward rounds with the visiting staff; (2) work on assigned cases, which may be interrupted for special demonstrations; (3) daily conferences with members of the teaching staff, during which the more important pediatric subjects are stressed; (4) clinical conference weekly, during which students present selected cases which are then discussed by the staff; (5) work in the Outpatient Department of the University Clinics, including the general pediatric clinic and such special clinics as the well-baby clinic and the luetic clinic; (6) work in special metabolic clinic conducted in the hospital proper on Saturday morning; (7) clinical conferences at the St. Louis City Hospital; (8) special demonstrations in common nursing procedures, which include the preparation of artificial formulae. (Drs. Hartmann, Cooke, Blattner, Zentay, Thurston, Holowach, Goodfriend, Carson, Kubitschek, Forbes and Staff)

ELECTIVE COURSES

50. Clerkship at Children's Hospital. Two students, full time, four or eight weeks.

51. Clerkship at City Hospital. Two students, full time, four or eight weeks.
52 (590). *Research.* Properly qualified students may engage in clinical or laboratory research under the direction of the pediatric staff. Hours by arrangement.

53. *Advanced Work.* The facilities of the department are available to qualified students who desire to do additional or advanced work in the St. Louis Children's Hospital, the Pediatric Clinic or in the laboratories of the department. Hours to be arranged.

THE EDWARD MALLINCKRODT DEPARTMENT OF PHARMACOLOGY

CARL F. CORI, M.D...........................................Professor of Pharmacology
HELEN T. GRAHAM, PH.D.................................Associate Professor of Pharmacology
FRANCIS E. HUNTER, PH.D...............................Assistant Professor of Pharmacology
MAURICE E. KRAHL, PH.D.................................Assistant Professor of Pharmacology

The course in Pharmacology is designed to acquaint the students with the reactions of the body to drugs in health and disease.

SECOND YEAR

20 (501 and 502). PHARMACOLOGY. (a) Lectures, recitations and demonstrations covering the general field of pharmacology, including toxicology, chemotherapy and prescription writing. 55 hours.

(b) LABORATORY COURSE. A course arranged to demonstrate the chemical properties and pharmacological action of the more important drugs, and at the same time to familiarize the student with methods and processes used in experimental pharmacology. 88 hours.

(a) or (b) may be taken alone by special students. Prerequisite, anatomy, biological chemistry and physiology.

(Drs. Cori, Graham, Hunter, Krahl)

ELECTIVE COURSES

50 (580). *Advanced Work.* This is arranged to suit individual needs. Opportunity is offered for the extensive study of any special group of drugs desired. In addition students may elect work in toxicology. Hours and details of the work to be arranged.

51 (590). *Research.* The facilities of the laboratory are available to those who wish to carry on original investigation, on problems of their own or on those the department is prepared to suggest.

PHYSIOLOGY

JOSEPH ERLANGER, M.D....................................Professor Emeritus of Physiology
HARVEY L. WHITE, M.D....................................Associate Professor of Physiology and
                                      Acting Head of the Department
HALLOWELL DAVIS, M.D.................................Associate Professor of Physiology
ARTHUR S. GILSON, JR., PH.D..........................Associate Professor of Physiology
GORDON M. SCHOFIELD, PH.D............................Assistant Professor of Physiology
SHEPPARD M. WALKER, PH.D.............................Assistant Professor of Physiology
ALEX HARELL, M.D.................................Fellow in Physiology

1 July 1, 1946 to January 31, 1947.
FIRST AND SECOND YEARS

10 and 20 (502 and 503). Physiology. Lectures covering systematically the field of human physiology with experience in the laboratory, designed primarily to meet the needs of medical students. The laboratory experiments are selected with the double object of supplying a basis for the understanding of the more important physical methods employed in physiology and in clinical medicine and elucidating certain fundamental physiological principles. As far as practicable the student serves as the subject in these experiments. Open to students who have completed or have begun the study of anatomy and biological chemistry.

(a) Lectures and recitations. Third trimester of the first year and first trimester of the second year. 116 hours.

(b) Laboratory. First trimester of the second year. 150 hours.

(Drs. White, Gilson, Schoepfle, Walker)

ELECTIVE COURSES

50 (504). Demonstration Methods. This course is designed primarily for students preparing to teach physiology, and who may desire a wider experience in experimental physiology than can be gained in Course 20. It consists mainly of experiments demonstrated in Course 10. The time and the amount of work are not limited, except that assistance must be arranged for by definite engagements.

51 (590). Research. The facilities of the laboratory will be offered to qualified students for the investigation of their own problems or of problems which the department is prepared to suggest.

PUBLIC HEALTH AND PREVENTIVE MEDICINE

E. GURNEY CLARK, M.D. Professor of Preventive Medicine
EDWARD G. MCGAVRAN, M.D. Professor of Public Health Administration
MALCOM M. COOK, M.D. Assistant Professor of Preventive Medicine
CARL HARFORD, M.D. Assistant Professor of Preventive Medicine
GEORGE M. SAUNDERS, M.D. Assistant Professor of Preventive Medicine
VIRGIL SCOTT, M.D. Assistant Professor of Preventive Medicine
LEO WADE, M.D. Assistant Professor of Preventive Medicine

E.G. GURNEY CLARK, M.D. Health Officer, St. Louis County. The facilities of the Health Center of St. Louis County Health Department are utilized for practical work and field experience under the direction of Dr. McGavran and his staff.

EDWARD G. MCGAVRAN, M.D. Resigned August 31, 1946.

CARL HARFORD, M.D. Resigned October 1, 1946.
Instruction in preventive medicine and public health is given in each of the four years of the undergraduate medical curriculum. The teaching in the first year, under the jurisdiction of the Student Health Service which is organized within the department, acquaints the student with the nature of health and the techniques available for health maintenance. The Health Service throughout the four years attempts to teach by precept those aspects of preventive medicine applicable to the office practice of medicine. In the second year there is an introduction to quantitative methods in medicine based on student needs; a series of discussions on infection and disease as they affect aggregations of individuals, and on the importance of both community and individual action in the prevention and control of disease; and, in cooperation with the Department of Pathology, an attempt to call the students' attention to certain principles in prevention and to demonstrate the importance of social, economic and environmental factors in disease. In the third year the aim is to correlate the preventive aspects of illness on an individual and community basis with the facts relative to the clinical features of these conditions. In the fourth year the objective is to give the student information concerning the broader aspects of medicine by means of studies of patients in relation to their family, their environment and the community. It is in this final year that the student is introduced to the activities of a community department of health, and is shown his place as a private practitioner in these activities.

FIRST YEAR

10. PREVENTIVE MEDICINE. A series of 11 informal discussions is designed to introduce the student to the problems of health and normality. The prevention of illness among medical students is correlated with intelligent study habits, recreational activities and use of the facilities provided by the Health Service. First trimester, 1 hour per week, 11 hours. (Drs. Wade, Maxwell, Clark, Scott, Saunders, Saslow)

SECOND YEAR

20. NATURAL HISTORY OF DISEASE. This is a series of lectures and exercises reviewing the data and scope of epidemiology and the determining factors in the description, study and distribution of disease. Emphasis is placed upon how a student can learn what he should know rather than upon facts he should know. The exercises require the students to examine what is known and formulate hypotheses for further investigation in order to evaluate and institute preventive measures. Second trimester, 1 hour per week, 11 hours. (Drs. Clark, Blattner, Spiegelman)

21. QUANTITATIVE METHODS IN MEDICINE. This course is given in cooperation with the Department of Pharmacology. Ten hours are devoted to lectures and exercises devised to acquaint the student with the

1 Department of Neuropsychiatry.
2 Department of Pediatrics.
3 Department of Bacteriology.
importance of quantitative methods in medicine. The lectures attempt to acquaint the student with elementary statistical principles. The exercises are related directly to two courses in the second trimester; the laboratory course in pharmacology and the course in epidemiology. First trimester, 2 hours per week for 5 weeks, 10 hours.

(Drs. Helen Graham\(^1\) and Gurney Clark)

22. Preventive Medicine. This is a part of course 20 of the Department of Pathology, in which students assist in and report on autopsies assigned to groups of four. These four students meet with members of the staff of the Department of Preventive Medicine and Public Health prior to their report for a discussion of the preventive aspects of the disease under study and of the social, economic and environmental factors which must be taken into account in studying patients. An attempt is made to stimulate the students to consider what might have been done to prevent the death of the patient, what might have been done to prevent his final illness, what measures might have been utilized during his life time that would have prolonged it. Second and third trimesters, 2 hours per week. (Drs. Clark, Saunders, Miss Mary Lewis,\(^2\) in cooperation with the staff of the Department of Pathology.)

THIRD YEAR

30. Conjoint Symposia. This is a part of the conjoint course of symposia for the third year class in which many of the departments of the Medical School participate. A symposium is devoted to tropical diseases, one to an introduction to public health, and a third to social, economic and environmental aspects of disease. These latter two symposia serve as an introduction to the course in the fourth year. Third and fourth quarters, 9 hours.

(Drs. Saunders, Scott and Wade)

31. Preventive Medicine. This consists of reading assignments given to the students in conjunction with the systematic course of lectures given by the Department of Pediatrics on normal growth and development, infant nutrition and feeding and acute infectious diseases. There are no recitations but periodic written examinations are given by the Department of Pediatrics containing questions referring to the assigned material. First and second quarters.

(Dr. Clark)

FOURTH YEAR

40. Clerkship in Preventive Medicine and Public Health. One eighth of the class is assigned in rotation to this department for one-half quarter each. 176 hours. The main features of the assignments are:

a) Medical Seminars. There are two 2½ hour conferences weekly. These are devoted to a review of the preventive aspects of certain diseases, to a detailed discussion of patients previously examined, and to a consideration of community aspects of certain diseases. Through a cooperative arrangement with the Department of Medicine the students,

\(^1\) Department of Pharmacology.
\(^2\) Social Service Department.
while on that service, after consultation with the medical resident selects a patient who has presented some special problem. During this clerkship he reviews the medical situation, visits the home, and subsequently reports on his observations. When the case is presented to the group the discussion is primarily focused on the outstanding feature—medical, social or environmental. Members of other clinical departments attend these conferences to participate in the discussions. One morning and one afternoon per week for one-half quarter.

(Drs. Saunders, Harford, Wade, Saslow and Miss Lewis)

b) Medical Conferences. These are conducted in cooperation with the Department of Neuropsychiatry. Cases are chosen that have been worked up carefully in the Department of Neuropsychiatry. After selection by the medical social worker the case history is reviewed and presented by one of the students and a discussion of the preventive aspects of the case follows. One morning per week for one-half quarter.

(Drs. Warson and Saunders and Miss Lewis)

c) Public Health. Students are assigned in rotation to various activities in the City and County Health Departments. This includes one full day of visiting with a Public Health Nurse, visits to a Maternal Health Clinic, a Well Child Conference, a poliomyelitis rehabilitation center, a tuberculosis diagnostic clinic and a pneumothorax clinic. In addition, one afternoon is spent observing a water supply, a sewage disposal plant, and a dairy, and a series of seven motion pictures is shown for the demonstration of these and other activities.

(Dr. Saunders and members of the staffs of the City and County Health Departments)

d) Syphilis Clinic. Each student spends three afternoons per week for one-half quarter in venereal disease clinics. At the U. S. Public Health Service Rapid Treatment Center, where the majority of early syphilis in this area is treated, emphasis is placed upon venereal disease as a public health problem. The student participates in the diagnosis and rapid treatment of patients on a mass basis in a Government institution. In the syphilis clinic of the Washington University Clinics diagnosis and management of patients on an individual and family basis are stressed.

(Drs. Scott, Clark, Saunders, Blackwood, Maxwell, and from the Department of Medicine, Drs. Gottschalk, Goetsch, Henry, Smith, Roberts and Steinberg)
Instruction in the applications of radiology in the diagnosis and treatment of disease is given very largely in collaboration with the several clinical departments.

FOURTH YEAR

TUMOR CLINIC. (See Surgery 45 for description.) One hour a day for four weeks. 32 hours.

40. DIAGNOSTIC RADIOLOGY. Eight hours a week for four weeks. 32 hours.

ELECTIVE COURSE

50. Clerkship in Radiology. Not to exceed two students at one time may act as externes in the Department of Radiology. They will participate in all activities. Full time for four or eight weeks. All quarters.

THE MARY CULVER DEPARTMENT OF SURGERY

(The Department of Surgery includes General Surgery, Orthopedic Surgery, Neurological Surgery, and Genitourinary Surgery.)

Evarts A. Graham, M.D. Professor Emeritus of Clinical Neurological Surgery
Willard B. Bartlett, M.D. Professor Emeritus of Clinical Surgery
Vilray P. Blair, M.D. Professor Emeritus of Clinical Surgery
Ernest Sachs, M.D. Professor Emeritus of Clinical Neurological Surgery
Malvern B. Clopton, M.D. Professor Emeritus of Clinical Surgery
J. Albert Key, M.D. Professor of Clinical Orthopedic Surgery
Dalton K. Rose, M.D. Professor of Clinical Genitourinary Surgery
Henry G. Schwartz, M.D. Professor of Neurological Surgery
Major G. Seelig, M.D. Professor Emeritus of Clinical Surgery
Eugene M. Bricker, M.D. Associate Professor of Surgery
James Barrett Brown, M.D. Associate Professor of Clinical Surgery
Thomas H. Burford, M.D. Associate Professor of Surgery
Glover H. Cophee, M.D. Associate Professor of Clinical Surgery
Robert Elman, M.D. Associate Professor of Clinical Surgery
Leonard T. Furlow, M.D. Associate Professor of Clinical Neurological Surgery
Peter Heinbecker, M.D. Associate Professor of Clinical Surgery
Nathan A. Womack, M.D. Associate Professor of Clinical Surgery
Duff S. Allen, M.D. Assistant Professor of Clinical Surgery
Robert W. Bartlett, M.D. Assistant Professor of Clinical Surgery
Louis T. Byars, M.D. Assistant Professor of Clinical Surgery
JUSTIN J. CORDONNIER, M.D.

Assistant Professor of Clinical Genitourinary Surgery

CLARENCE H. CREGO, JR., M.D.

Assistant Professor of Clinical Orthopedic Surgery

ROGERS DEAKIN, M.D.

Assistant Professor of Clinical Genitourinary Surgery

FRANK H. EWERHARDT, M.D.

Assistant Professor of Clinical Therapeutics

ARTHUR O. FISHER, M.D.

Assistant Professor of Clinical Surgery

FRANK H. JOSTES, M.D.

Assistant Professor of Clinical Orthopedic Surgery

E. LAWRENCE KEYES, JR., M.D.

Assistant Professor of Clinical Surgery

H. RELTON McCARROLL, M.D.

Assistant Professor of Clinical Orthopedic Surgery

JOHN F. PATTON, M.D.
Assistant Professor of Clinical Genitourinary Surgery

J. G. PROBST, M.D.
Assistant Professor of Clinical Orthopedic Surgery

EVERETT D. SUGARBAKER, M.D.
Assistant Professor of Clinical Surgery

FRANKLIN E. WALTON, M.D.
Assistant Professor of Clinical Surgery

HENRY S. BRUGES, M.D.
Instructor in Clinical Surgery

CYRIL J. COSTELLO, M.D.
Instructor in Clinical Surgery

CHARLES L. ECKERT, M.D.
Instructor in Clinical Surgery

HEINZ HAFNER, M.D.
Instructor in Clinical Surgery

OSCAR P. HAMPTON, M.D.
Instructor in Clinical Orthopedic Surgery

EDWARD C. HOLZSCHER, M.D.
Instructor in Clinical Orthopedic Surgery

LOUIS H. JORSTAD, M.D.
Instructor in Clinical Surgery

ALFRED M. LARGE, M.D.
Instructor in Surgery

STANLEY M. LEYDIG, M.D.
Instructor in Clinical Orthopedic Surgery

CARL E. LISCHER, M.D.
Instructor in Surgery

JOHN JAMES MODLIN, M.D.
Instructor in Surgery

FRANK MCDOWELL, M.D.
Instructor in Clinical Surgery

FRED C. REYNOLDS, M.D.
Instructor in Clinical Orthopedic Surgery

GEORGE E. ROUJHAC, M.D.
Instructor in Neurological Surgery

J. HOY SANFORD, M.D.
Instructor in Clinical Genitourinary Surgery

CARL A. WATTHENBERG, M.D.
Instructor in Clinical Genitourinary Surgery

CARL J. ALTHAUS, M.D.
Assistant in Clinical Genitourinary Surgery

ROBERT ANSCHUETZ, M.D.
Assistant in Surgery

HUGH V. ASHLEY, JR., M.D.
Assistant in Surgery

HARVEY R. BUTCHER, JR., M.D.
Assistant in Surgery

JAMES T. CHAMNESS, M.D.
Assistant in Surgery

RUSSELL J. CRIDER, M.D.
Assistant in Surgery

HARRY CUTLER, M.D.
Assistant in Clinical Genitourinary Surgery

ALFRED M. DECKER, JR., M.D.
Assistant in Clinical Genitourinary Surgery

SANFORD R. DIETRICH, M.D.
Assistant in Surgery

HAROLD H. FELLER, M.D.
Assistant in Clinical Genitourinary Surgery

VIRGIL O. FISH, M.D.
Assistant in Clinical Surgery

LEON FOX, M.D.
Assistant in Clinical Orthopedic Surgery

YASUYUKI FUKUSKIMA, M.D.
Assistant in Surgery

GEORGE E. GILLESPIE, M.D.
Assistant in Surgery

FRED J. GRAY, JR., M.D.
Assistant in Surgery

GERHARD E. GRUENFELD, M.D.
Assistant in Clinical Surgery

ANDY HALL, JR., M.D.
Assistant in Clinical Genitourinary Surgery

ROYCE HANKS, M.D.
Assistant in Surgery

MERTIN D. HATCH, M.D.
Assistant in Clinical Surgery

GEORGE L. HAWKINS.
Assistant in Neurological Surgery

CARL J. HEIFFETZ, M.D.
Assistant in Clinical Surgery

R. LEONARD KEMLER, M.D.
Assistant in Surgery

* Resigned December 15, 1946.
THE SCHOOL OF MEDICINE

FREDERICK W. KLINGE, M.D.* ................................................. Assistant in Surgery
LOUIS F. KNotts, M.D. ..................................................... Assistant in Surgery
JULES H. KOPP, M.D. ..................................................... Assistant in Clinical Gastroenterology Surgery
EDWARD O. KRAFT, JR., M.D.* ........................................ Assistant in Surgery
GORDON S. LETERMANN, M.D. ........................................ Assistant in Surgery
CHARLES E. LOCKHART, M.D. ...................................... Assistant in Surgery
ALPHONSE H. MEYER, JR., M.D. ...................................... Assistant in Surgery
DARWIN W. NEUBAUER, M.D. ........................................ Assistant in Surgery
WILLIAM R. OAKES, M.D. ............................................... Assistant in Surgery
D. ELLIOTT O'REILLY, M.D. .......................................... Assistant in Surgery
MORTON PAREIRA, M.D. ................................................ Assistant in Clinical Surgery
MORDANT E. PECK, M.D. ............................................... Assistant in Surgery
JAMES L. PETRY, M.D. ................................................... Assistant in Surgery
NATHAN RIFKINSON, M.D. ............................................ Assistant and Fellow in Neurological Surgery
ROBERT R. ROBINSON, M.D. ........................................... Assistant in Clinical Surgery
MAURICE B. ROCHE, M.D. ............................................... Assistant in Clinical Orthopedic Surgery
WILLIAM F. ROSE, M.D. ................................................ Assistant in Clinical Surgery
LEO A. SACHAR, M.D. .................................................. Assistant in Clinical Surgery
THOMAS B. SAPPINGTON, JR., M.D.* ................................ Assistant in Surgery
HENRY SCHWARM II, M.D. ............................................... Assistant in Surgery
DONALD H. SIMONSEN, M.A. ........................................ Research Assistant in Surgery
HARRY L. THIEME, M.D. ................................................ Assistant in Clinical Orthopedic Surgery
D. J. VERDI, M.D. ............................................................ Assistant in Clinical Surgery
F. DALE WILSON, M.D. ................................................... Assistant in Surgery
PAUL D. KELLER, M.D. .................................................. Assistant in Surgery
ROBERT K. ROYCE, M.D. ................................................ Assistant in Surgery
HOWARD S. J. WALKER, M.D. ......................................... Assistant in Surgery
GERMAIN CATTETTO, M.D. ............................................. Fellow in Thoracic and Plastic Surgery
LEE T. FORD, JR., M.D. ................................................... Fellow in Orthopedic Surgery
MINOT P. FRYER, M.D. .................................................... Fellow in Plastic Surgery
ALEX HARELL, M.D. ........................................................ Fellow in Orthopedic Surgery
JOHN H. MAYER, JR., M.D. ............................................. Fellow in Chest Surgery
C. BARBER MUELLER, M.D. ............................................ Fellow in Surgery
RICHARD T. ODELL, M.D. ................................................ Fellow in Orthopedic Surgery
HAROLD DEOLIVEIRA RENAUT, M.D. ................................ Fellow in Chest Surgery
R. ALVIN RIX, M.D. ...................................................... Fellow in Neurological Surgery
GILMOR1 M. SANES, M.D. ................................................ Fellow in Chest Surgery
AKRAM AHMED QAIMAQCHI2 ........................................ Visiting Fellow in Thoracic Surgery
BLAKE TALBOT, M.D. ..................................................... Fellow in Urology
MASON TRUPP, M.D. ...................................................... Fellow in Neurological Surgery
H. H. WANDALL, M.D. .................................................... Visiting Fellow in Thoracic Surgery
C. LAIRD WILSON, M.D. ................................................ National Research Council Fellow in Orthopedic Surgery
BEN EISEMAN, M.D. ....................................................... Fellow in Surgery
RUDOLF PETR2 ............................................................ Visiting Fellow in Neurological Surgery

The instruction in the Department of Surgery begins with an introduction to surgical principles at the end of the second year. These surgical principles for the most part are derived from fundamental concepts in the preclinical sciences which have been occupying the student since the beginning of his freshman year. Although in this course a few patients are used for the demonstration of lesions which illustrate the principles of surgery, it is really in the junior year that the first actual contact with patients occurs. Each student then is assigned to a clinical

1 Effective January 1, 1947.  
2 Effective November 1, 1946 to February 1, 1947.
clerkship in the hospital wards and in that way is given an opportunity to study the more common and important kinds of surgical diseases. The junior clerkship on surgery lasts for one quarter and is divided between the surgical services at Barnes and St. Louis Children's Hospital and at St. Louis City Hospital. Instruction during the clerkship in the junior year is limited to the field of general surgery, and the broad general principles of pathology, pathologic physiology, diagnosis and treatment are extensively discussed. At the St. Louis City Hospital special attention is given to the study of trauma and acute surgical emergencies. Students are given the opportunity of seeing all operations and are encouraged to participate as assistants in the operations on patients assigned to them. Special instruction in history writing, in the examination of the patient and in various diagnostic and therapeutic techniques is given to small groups of students by the resident and assistant resident house officers. These small groups are in the nature of tutorial classes.

During the junior year also the students attend a course in surgical pathology, and a weekly surgical clinic lasting throughout the year. Instruction in the specialties of orthopedic and genitourinary surgery is given for one-half quarter and during the latter part of the year there are various symposia on surgical subjects.

In the senior year the students spend one-half quarter assigned to a surgical clerkship consisting of patients admitted to Barnes Hospital on the surgical specialties. During this period afternoons are spent in the general surgery out-patient department.

SECOND YEAR

20. INTRODUCTION TO SURGERY. A laboratory, demonstration and lecture course in which are studied certain fundamental processes of physiology, chemistry and pathology as applied to surgery. The course includes the demonstration of patients illustrating various points under discussion. Two hours weekly during third trimester.

(Drs. Heinbecker and Walton)

THIRD YEAR

30. SURGICAL RECITATIONS. A weekly discussion during the third quarter on assigned reading. Selected topics are briefly surveyed in which surgical principles and diagnosis are emphasized. 13 hours.

(Drs. Elman and Heinbecker)

31. SURGICAL CLINIC. A weekly exercise throughout four quarters. Patients presenting the more usual general surgical conditions are demonstrated and their diagnostic and therapeutic problems are discussed. Students of the fourth year also attend this clinic. 36 hours.

(Dr. Graham)

32. a. SURGICAL WARDS. For one quarter the student serves as a clerk in the surgical wards of Barnes, St. Louis Children's, and St. Louis City Hospitals. The time is equally divided between the Barnes Hospital
service and that at City Hospital. During the whole quarter instruction is concentrated upon general surgery. While on the City Hospital service the student spends a week on emergency call at the hospital and sees all emergencies admitted. Ward conferences are held regularly both at City Hospital and at Barnes Hospital and fundamental subject material is systematically covered. The students take the case histories and make the physical examinations and the usual laboratory examinations on the patients assigned them. They assist at the operations and do some of the surgical dressings. Surgical pathological material is followed as an integral part of the case study. The students attend autopsies performed on the cases studied by them and are required to be present at the pathological conferences at which these cases are discussed. The student is encouraged to consult the library frequently in the solution of problems concerning his patients. Both at Barnes and St. Louis City Hospitals the students are met at regular intervals by the residents and assistant residents in informal conferences at which times various questions which have arisen during the day are discussed and various aspects of the care of the patient considered. Particular effort is made to see that the student comes in contact with the more frequent and important surgical lesions and that the cases assigned to him are sufficiently diversified to afford him an accurate perspective of surgery. 168 hours.

(Various members of the staff)

b. FRACTURES. During the surgery clerkship a coordinated series of lectures and demonstrations on fractures are given to the entire clerkship group each Wednesday morning at City Hospital. The fundamentals of the diagnosis, treatment and healing of common fractures are covered at this time. 8 hours. (Dr. Hampton)

33. SURGICAL PATHOLOGY. Weekly exercises of two hours for four quarters, at which time both early and late pathological changes are considered from the standpoint of their clinical manifestations. Pathological material from the operating room and the museum is studied both in the gross and microscopically. 72 hours. (Dr. Womack)

34. ORTHOPEDICS. Groups of six students are assigned to work in the Orthopedic Outclinic four mornings a week for two weeks. In addition, the entire group of twelve students attends a conference in orthopedic surgery at the Shriners' Hospital for Crippled Children two hours a week for four weeks. 20 hours. (Drs. Key, Crego and Staff)

35. GENITOURINARY DISEASES. Special exercises and conferences in genitourinary diseases are given to groups of six students two hours a day, four days a week, for two weeks. Some of the time is spent in the Outpatient Department and the rest of it in the hospital. Special emphasis is placed on simple diagnostic procedures, catheterization and the evaluation of abnormal findings in the examination of patients. 16 hours. (Dr. Rose and Staff)

36. PROCTOLOGY. Demonstration of various lesions about the rectum and anus are given in the Outpatient Department to groups of six students. 4 hours. (Dr. Brookes)
FOURTH YEAR

40. SURGICAL CLINIC. A weekly exercise throughout four quarters. See course 31. Students of the third year also attend this clinic. 36 hours. (Dr. Graham)

41. WARD CLERKSHIP AND OUTPATIENT SERVICE. For one-half quarter twelve students are assigned to a ward clerkship at Barnes Hospital. Patients admitted on the specialties, i.e., neurosurgery, orthopedics, thoracic, plastic and genitourinary surgery, are assigned to these students for work-up and study. The attending and resident staff in each specialty take an active part in the formal and informal instruction of the students. From two to four in the afternoons of this period are spent in the general surgery outpatient clinic at the Washington University Clinics. The students serve as clerks to outpatients under direction of members of the visiting staff and assist in carrying out minor surgical procedures. (Various members of the staff)

ELECTIVE COURSES

50. Surgical Pathology. Two students full time for eight weeks, all quarters. The elective will consist of a correlation of the clinical records of hospital patients with the pathological findings. Time will be devoted to current surgical journals as related to surgical pathology as well as a brief review of pathological techniques. (Dr. Womack)

51. Washington University Clinics. General surgery, eight weeks for four students, mornings. The students will serve as clerks to outpatients the time being spent in the study and care of the patients with special attention to minor surgical procedures.

52. Research in Surgery. Eight weeks full time. This elective is for those students who have been carrying on surgical research in their spare time the previous year and who wish to devote their entire time toward the completion of their problem. (Dr. Graham)

53. State Cancer Hospital. Four students to serve as clinical clerks at the State Cancer Hospital, Columbia, Missouri, full time, eight weeks. The duties assigned the student will be the routine duties required of any clinical clerk consisting of both in and outpatient work, particularly related to malignant disease. Application must be made directly to the State Cancer Commission.

54. Anesthesia. One or two students. Eight weeks, full time. Since the surgical operative schedules begin early each morning the hour to report will be 7 o’clock. This will enable the student to inspect and test mechanical equipment prior to its use. The student will be assigned to certain nights on call duty with the supervisor to take emergency cases which arise. The course embraces a special training in the practical administration of anesthetics by approved modern techniques, this instruction taking place daily, except Sundays, during the weekly schedules in which the student participates in the operating room. The theoretical aspects are covered by specific periods of class room instruction followed
by examination at stated intervals. The administration of ether, nitrous oxide-oxygen, ethylene, cyclopropane and basal anesthetics is taught and practiced.  

(Miss Lamb)

55. *Urology Clerkship in Barnes Hospital*. One student, mornings for eight weeks.  

(Dr. Rose)

56. *Physical Medicine*. Four students. Mornings for four or eight weeks.  

(Dr. Ewerhardt)

57. *Advanced Clerkships*. Four students will be given advanced clerkships on the general surgery service at Barnes Hospital for periods of four or eight weeks. Arrangements should be made with Dr. Eugene Bricker.
MISCELLANEOUS COURSES

MEDICAL JURISPRUDENCE

WILLIAM W. CROWDUS, LL.B. ..........Lecturer in Medical Jurisprudence

MEDICAL JURISPRUDENCE. A course given in the fourth year embracing medical evidence and testimony, expert testimony; dying declarations; rights of medical witnesses; establishing identity from living and dead bodies; sudden death from natural causes and by violence; criminal acts determined by medical knowledge; the legal relation of physician to patients and the public; insanity, and malpractice. 11 hours.

MILITARY SCIENCE AND TACTICS

RICHARD YORE, M.D. ..........Lecturer in Military Science and Tactics

MILITARY SCIENCE AND TACTICS. 1 hour per week. 32 weeks.

Open to all classes.

The R.O.T.C. (Medical) Unit has been reestablished by a franchise agreement between the School of Medicine and the Surgeon-General after the termination of the A.S.T.P. unit activities in 1946.

The purpose of the course is to lay the foundation of intelligent citizenship and provide military and technical medical subjects in an interesting fashion in an effort to prepare students as military medical leaders in our national defense.

The course is divided into two (2) parts: the Elementary and Advanced Courses, each of two years duration. Credit is given for all previous military service as a substitute for all or any part of the Elementary Course which is required for admission into the Advanced Course. The allowances received by members of the Advanced Course are in addition to those received through the G.I. Bill of Rights. The student must be physically qualified, a citizen of the United States and accepted as a regularly enrolled student by the institution.

One summer camp training period of 6 weeks with pay is required for completion of the Advanced Course and can be accomplished by the student during any of the three (3) summers available. Students are made 1st Lieutenants in the Officers' Reserve Corps upon graduation but are not eligible for call to active military duty.

The conduct of the courses is carried out by the use of visual training aids, training films, applicatory exercises, Army Institute of Pathology Case Studies and lectures.

PROFESSIONAL CONDUCT AND MEDICAL ETHICS

PARK J. WHITE, M.D. ............Instructor in Clinical Pediatrics

ELECTIVE COURSE

Professional Conduct and Medical Economics. An elective course in which the following subjects are discussed: the young physician and his problems; group medicine and specialization; ethical relations between physicians; organized medicine; birth control; quackery, fads, and cults; medical finance; industrial and contract practice; “systems” of practice in other countries; health insurance plans. 8 hours.
DIVISION OF POSTGRADUATE STUDIES

MERRI J. CARSON, M.D. . . . . . . . . Assistant Dean

Washington University does not have a separate Graduate School of Medicine, but postgraduate educational programs are conducted by the School of Medicine and graduate courses leading to a masters and a doctorate degree are offered by the School of Graduate Studies. For further information, write the Assistant Dean, Division of Postgraduate Studies, Washington University School of Medicine, St. Louis 10, Mo.

GRADUATE COURSE IN OPHTHALMOLOGY
RICHARD G. SCOBEE . . . . . . . . . . . Director

An eight months' course, consisting of lectures, laboratories and clinics in Ophthalmology and the pre-clinical sciences.

ENTRANCE REQUIREMENTS:
Graduation from an acceptable school of medicine and an internship in an approved hospital.

TUITION . . . $600.00

GRADUATE COURSE IN OTOLARYNGOLOGY
THEODORE E. WALSH . . . . . . . . . Director

An eight months' course, consisting of lectures, laboratories and clinics in Otolaryngology and the pre-clinical sciences.

ENTRANCE REQUIREMENTS:
Graduation from an acceptable school of medicine and an internship in an approved hospital.

TUITION . . . $600.00

Students who register in the University for an additional year and complete a satisfactory thesis may become candidates for the degree of Master of Science in Otolaryngology.

GRADUATE COURSE IN PEDIATRICS
ALEXIS F. HARTMANN . . . . . . . . . . . Director

A nine months' course, consisting of lectures, demonstrations, clinical work both in-patient and out-patient.

ENTRANCE REQUIREMENTS:
Graduation from an acceptable school of medicine and an internship in an approved hospital.

TUITION . . . $500.00
GRADUATE COURSE IN BASIC SCIENCE

An eight to twelve months' course for those who desire more extensive training in basic science than is given in the usual residency. The program consists of required minor courses in pathology, clinical pathology, radiology, physical medicine and selected clinical subjects, a required major course or research in a pre-clinical department, and elective courses in clinical departments. The student has no clinical responsibilities.

TUITION . . . . $62.50 per month

POSTGRADUATE COURSES IN CLINICAL SPECIALTIES

A limited number of properly qualified physicians will be accepted for registration in the Division of Postgraduate Studies. The program for each student will be arranged to meet the individual needs.

TUITION . . . . $62.50 per month

REFRESHER COURSE IN OPHTHALMOLOGY

LAWRENCE T. POST . . . . . . . . . . . . . . . . . . Director

A four weeks' course consisting of lectures and clinical demonstrations. Applicants must be graduates of an approved medical school and licensed to practice medicine.

TUITION . . . . $150.00

REFRESHER COURSE IN OBSTETRICS AND GYNECOLOGY

WILLARD M. ALLEN . . . . . . . . . . . . . . . . . . Director

A four weeks' course consisting of lectures and clinical demonstrations. Applicants must be graduates of an approved medical school and licensed to practice medicine.

TUITION . . . . $100.00

REFRESHER COURSE IN PEDIATRICS

ALEXIS F. HARTMANN . . . . . . . . . . . . . . . . . . Director

An eight weeks' course, consisting of lectures, clinical demonstrations and ward rounds. Applicants must be graduates of an approved medical school.

TUITION . . . . $100.00 for each four week period
or
. . . . . . . $200.00 for the entire eight weeks

JOINT REFRESHER COURSES IN CLINICAL SPECIALTIES

Joint refresher courses for one to eight weeks in the clinical subjects are offered once or twice a year, usually in April and October.

TUITION . . . . $25.00 per week
CONTINUATION COURSES

Most staff meetings, clinics and departmental seminars are open to properly qualified physicians.

TUITION .... No Charge

RESIDENCIES IN THE CLINICAL SPECIALTIES

The hospitals affiliated with the School of Medicine offer assistant residencies and residencies in Medicine, Neuropsychiatry, Obstetrics and Gynecology, Ophthalmology, Otolaryngology, Pathology, Pediatrics, Radiology and Surgery. In addition there are residencies in Neurosurgery, Plastic Surgery and Thoracic Surgery.

For further information write the Director of the Hospital or the Chief of the service.

For details write:
The Director
Division of Postgraduate Studies
Washington University School of Medicine
St. Louis 10, Missouri

TEACHING AND RESEARCH DIVISIONS

INSTITUTE OF NEUROLOGY

The Institute of Neurology integrates the teaching in all departments as it relates to the nervous system and promotes research in this field. Scientific meetings are held from time to time.

EXECUTIVE COMMITTEE

HENRY G. SCHWARTZ .......... Chairman
GEORGE H. BISHOP
JAMES L. O'LEARY

Advisory Members
JOSEPH ERLANGER
SIDNEY I. SCHWAB

ERNEST SACHS

Members
GEORGE H. BISHOP
PETER HEINBECKER
HALLOWELL DAVIS
JAMES L. O'LEARY
EDWIN F. GILDEA
HENRY G. SCHWARTZ
ARTHUR GILSON
HARVEY L. WHITE
HELEN T. GRAHAM

Associates
ETHEL RONZONI BISHOP
GEORGE SASLOW
RUSSELL BLATTNER
GORDON M. SCHOEPPLE
ARCHIE D. CARR
MARGARET SMITH
LEONARD T. FURLOW
LOUIS TUREEN
JOSEPH J. GITT
SHEPPARD M. WALKER
ANDREW B. JONES
SAMUEL WARSON
IRWIN LEVY
Gerontology and Geriatrics are subjects of increasing importance in the health and welfare of the people of the United States. The Division of Gerontology forms the staff of the hospital for the aged of the City of St. Louis (City Sanitarium), conducts a research laboratory at the hospital, and integrates teaching of the subject in the School of Medicine.

Executive Committee

ESBEN KIRK .................... Chairman
ROBERT A. MOORE
WILLIAM B. KOUNTZ

Staff at the St. Louis City Sanitarium from the School of Medicine

WILLIAM B. KOUNTZ ................ Director of Clinical Services
ESBEN KIRK .................... Director of Research

ASSOCIATED INSTITUTIONS

The School of Medicine and other schools and colleges of the University have working agreements with several institutions which provide educational opportunities in the health field at both the undergraduate and graduate level.

CENTRAL INSTITUTE FOR THE DEAF

The Central Institute for the Deaf founded by Dr. Max Goldstein is an institution for the instruction of the deaf and speech defectives, for the training of teachers, and for research in the causes and treatment of deafness. For further information write the Director, Central Institute for the Deaf, 818 South Kingshighway, Saint Louis 10, Missouri.

Administrative Officers for the Central Institute for the Deaf

HELEN S. LANE, PH.D. ............... Principal of Central Institute
S. RICHARD SILVERMAN, PH.D. .... Registrar, Teachers Training College

Staff on the Faculty of the School of Medicine

HALLOWELL DAVIS, M.D. ............. Research Professor of Otolaryngology and Associate Professor of Physiology
S. RICHARD SILVERMAN, PH.D. ........ Lecturer in Audiology

JEFFERSON BARRACKS VETERANS HOSPITAL

Under the hospital program of the Veterans Administration, Washington University School of Medicine and St. Louis University School of Medicine have joint responsibility for the professional care of patients in the Jefferson Barracks Veterans Hospital. The Dean's Committee with representatives from the two schools is in direct charge of the educational program.
THE SCHOOL OF MEDICINE

Administrative Officers for the Veterans Administration

WALTER A. GERMAN . . . . . . . . . Manager
L. E. STILLWELL . . . . . . . . . . . . Clinical Director

Dean's Committee

For Washington University For St. Louis University
LEON BROMBERG RALPH KINSELLA
ROBERT MOORE JOSEPH PEDEN
FRANKLIN E. WALTON ALPHONSE SCHWITALLA, S.J.
HARVEY LESTER WHITE JOHN STEWART

Staff of the Hospital from Washington University

Consultants

L. T. FURLOW, VAL B. SATTERFIELD,
Neurological Surgery Neuropsychiatry
JOSEPH GITT, Neurology ROBERT VOTAW, Otolaryngology
FREDERICK JOSTES, EUGENE BRICKER, General Surgery
Orthopedic Surgery HARVEY L. WHITE, Physiology
PAUL PREISLER, GEORGE J. L. WULFF, JR., Obstetrics
Biological Chemistry and Gynecology

Attending Physicians

ROBERT W. BARTLETT, ROBERT C. KINGSLAND,
General Surgery Internal Medicine
WILSON BROWN, Pathology EDWARD LYMAN, Otolaryngology
SAMUEL BUKANTZ, MAURICE ROCHE,
Internal Medicine Orthopedic Surgery
JUSTIN CORDONNIER, H. ROSENBAUM, Ophthalmology
Urology JOHN SEDDON, Internal Medicine
OSCAR HAMPTON, SAMUEL WARSON, Neuropsychiatry
Orthopedic Surgery
E. C. HOLSCHER,
Orthopedic Surgery

There are over sixty residencies in all specialties at the Veterans Hospital. For further information write: Secretary, Dean's Committee, Jefferson Barracks Veterans Hospital, St. Louis, Missouri.

LOS ALAMOS SCIENTIFIC LABORATORY, LOS ALAMOS, NEW MEXICO

The School of Medicine has an affiliation with the Los Alamos Scientific Laboratory of the Atomic Energy Commission. A Medical Board consisting of seven members nominated by the Chancellor of the University and two members designated by the Project Director serves in an advisory capacity in the programs of medical research, industrial medicine, health care, and public health.
Administrative Officers for the United States Government

NORRIS BRADBURY . . . . . . . Director, Scientific Laboratory
HERBERT GEE, COLONEL, U. S. A. . . . . . Commanding Officer

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FRANK R. BRADLEY ROBERT A. MOORE
OTTO BRANDHORST PHILIP A. SHAFFER
CARL V. MOORE NATHAN WOMACK

JAMES NOLAN, Executive Secretary

Staff of the School of Medicine in residence at Los Alamos

LOUIS HEMPELMANN, JR. . . . Associate Professor of Biophysics
GILBERT FORBES . . . . . . . Instructor in Pediatrics
SEYMOUR MONAT . . . . . . . Instructor in Obstetrics and Gynecology
MARTIN S. WITHERS . . . . . . . Assistant in Pediatrics
WILLIAM C. WHITE . . . . . . . Lecturer in Hospital Administration

Positions on the staff of the research laboratories and of the hospitals are open from time to time. Further information may be secured from the Medical Director or Director of the Hospital, Los Alamos Scientific Laboratory, Santa Fe, New Mexico, or from the Office of the Dean, Washington University School of Medicine, Saint Louis 10, Missouri.

DIVISION OF AUXILIARY MEDICAL SERVICES

The Division of Auxiliary Medical Services of the School of Medicine provides instruction in the more important technical fields which are necessary to the physician in providing modern health care.

As with the educational program of the medical student, the Division of Auxiliary Medical Services is a joint enterprise of the School of Medicine and the affiliated hospitals—Barnes, Children's McMillan, and Maternity Hospitals. As a matter of convenience some departments are administered by the School and others by the Barnes Hospital.

Departments conducted by the School of Medicine include Hospital Administration, Occupational Therapy, Orthoptic Technology and Electroencephalographic Technology. Schools operated by the Barnes Hospital include Laboratory Technology, Physical Therapy, Medical Dietetics, and Anesthesiology. For further information write the Director of the Department or School, Washington University School of Medicine, Saint Louis 10, Missouri.

Other schools of the University providing instruction in related fields include the George Warren Brown School of Social Work and the School of Nursing. For further information write the Dean of the School.
THE SCHOOL OF MEDICINE

DEPARTMENT OF HOSPITAL ADMINISTRATION

FRANK R. BRADLEY, M.D. . . . . . . . . . . . . . . . . . . . . . . . . . Director

A two year course leading to a certificate or the degree of Master of Hospital Administration. The first year is given at the University and School of Medicine and includes courses in accounting and statistics, social work, public health, and hospital administration. The second year is spent as an intern in an approved hospital. A degree is conferred on completion of a satisfactory thesis.

Applicants must hold a bachelor's degree or be graduates of an approved school of medicine. Tuition: $400.00 for the first year and $200.00 for the second year.

DEPARTMENT OF OCCUPATIONAL THERAPY

SUE HURT, B.A. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Director

A three year course leading to the degree of Bachelor of Science in Occupational Therapy. The first two years are devoted to didactic and laboratory courses in anatomy, physiology, pathology, theory of occupational therapy and crafts. The third year is a practice period in an approved hospital.

Applicants must have completed two years of college work including specified courses in biology and physics. Tuition: $400.00 each for the first year and the second year, and $100.00 for the third year.

DEPARTMENT OF ELECTROENCEPHALOGRAPHIC TECHNOLOGY

JAMES L. O'LEARY, M.D. . . . . . . . . . . . . . . . . . . . . . . . . . Director

An eight months course leading to a certificate. The course is devoted to didactic and laboratory courses in classification of records, electrical measurements, upkeep of apparatus, upkeep of electrodes, study of artifact, special recording techniques, theory and design of amplifiers, elementary anatomy and physiology of the nervous system, the principles of electromyography, elementary neurology and neuropathology and classification of paroxysmal records.

Applicants must be graduates of an approved high school in the upper two-thirds of the class. Tuition is $350.00 for the school year.

DEPARTMENT OF ORTHOPTIC TECHNOLOGY

LAWRENCE T. POST, M.D. . . . . . . . . . . . . . . . . . . . . . . . . . Director

An eight months course leading to a certificate. The course is devoted to basic ophthalmology with emphasis on extra ocular muscles and practical orthoptic techniques.

Applicants must be graduates of an approved high school in the upper two-thirds of the class. Tuition is $350.00 for the school year.
A twelve months course for the training of physical therapy technicians leading to a certificate. The program is presented to give the students a basic knowledge of normal human anatomy, physiology and pathology so that they may be better prepared to apply physical therapy technics. The various modalities of treatment used by physical therapy technicians are thoroughly studied by means of lecture, demonstration and practical application.

Applicants must satisfy one of the following requirements:

(a) Graduation from an accredited school of nursing.

(b) Graduation from an accredited school of physical education, including at least twelve hours of science credit.

(c) Two years of approved college training, including twenty-six semester hours of science credits. Three of these may be in Hygiene, six may be in Psychology, and the remaining seventeen must be in General Physics, Chemistry, Biology or Zoology. The tuition is $250.00 for the school year.

A twelve months course for the training of medical technologists leading to a certificate. The course includes theoretical and practical training in blood banking, clinical microscopy, tissue pathology, parasitology, bacteriology and serology, biological chemistry, electrocardiography and basal metabolism.

Applicants must present at least two years of approved college training. The tuition is $50.00 for the entire course.

A twelve months course for the training of dietitians leading to a certificate.

The course includes theoretical and practical training in food and personnel administration, food cost and control, diet therapy, Washington University Clinic, St. Louis Children's Hospital and teaching food and nutrition.

A bachelor's degree from an accredited college or university is required for admission. Certain courses in chemistry, biology, social science, education, foods, nutrition and dietetics and institutional management are essential.

There is no tuition fee but a matriculation fee of $10.00 must be deposited as soon as an application is accepted.
An eight months course for comprehensive special training in the practical administration of anesthetics by approved medical techniques, and the theory underlying their skilled administration. Upon satisfactory completion of the course, a diploma is awarded.

The theoretical aspect of the subject is covered by specific periods of organized instruction. Instruction in the practical administration of anesthetics takes place in the operating rooms where at first the student observes, then administers anesthetics under an instructor's supervision and eventually conducts complete anesthesias upon her own responsibility.

The course is available to graduates of accredited Schools of Nursing. The tuition is $100.00.
DOCTOR OF MEDICINE

NAME — INTERNSHIP

Adams, Raymond John, B.S.—St. Luke's Hospital, St. Louis, Missouri.
Bailey, Brennan.—St. Louis City Hospital, St. Louis, Missouri.
Barrow, James—St. Louis City Hospital, St. Louis, Missouri.
Bates, Raymond Robert—San Joaquin General Hospital, Stockton, California.
Bonebrake, Macdonald—St. Louis Maternity Hospital, St. Louis, Missouri.
Booth, Arthur Ray, Jr.—St. Luke's Hospital, St. Louis, Missouri.
Bubis, Mary Cheaney, A.B.—St. Louis City Hospital, St. Louis, Missouri.
Busch, Ralph Berin, Jr.—U. S. Naval Hospital, Bremerton, Washington.
Chamberlain, Gilbert Lee, Jr.—Barnes Hospital, St. Louis, Missouri.
Cormfield, Morris—Cedars of Lebanon Hospital, Los Angeles, California.
Crouch, Warner Lattis, Jr.—Presbyterian Hospital, Chicago, Illinois.
Denne, Garrette Earle, A.B.—Baltimore City Hospital, Baltimore, Maryland.
DeTuff, Ann Wilson, B.S., M.S.—Johns Hopkins Hospital, Baltimore, Maryland.
Dorough, Eberle Findlv, Jr., B.S.—Jefferson-Hillman Hospital, Birmingham, Alabama.
Elders, Frank Alvin, Jr.—St. Louis City Hospital, St. Louis, Missouri.
Fosch, Robert Edwin—Barnes Hospital, St. Louis, Missouri.
Gallagher, Donald MacNaughton—DePaul Hospital, St. Louis, Missouri.
Gibson, Marvin Harold—Barnes Hospital, St. Louis, Missouri.
Hall, Gilbert Richard—St. Luke's Hospital, Denver, Colorado.
Harrison, Wylie Paxton, A.B.—U. S. Naval Hospital, Mare Island, California.
Hawkins, Richard Dale, A.B.—St. Louis Children's Hospital, St. Louis, Missouri.
Hallward, Boyd Edwards, B.S.—Barnes Hospital, St. Louis, Missouri.
Humphrey, Dewey Cummings—The General Hospital of Fresno County, Fresno, California.
Inglis, Ervine Peter, Jr., A.B.—Decatur Hospital, St. Louis, Missouri.
Jackson, James Oliver, B.S.—Research General Hospital, Kansas City, Missouri.
Johnson, Eugene Parr—U. S. Naval Hospital, Great Lakes, Illinois.
Jolley, Harold Numan, A.B.—St. Luke's Hospital, St. Louis, Missouri.
Jones, Ralph Homer, A.B., B.S.—DePaul Hospital, St. Louis, Missouri.
Kendrick, John Fox, Jr., A.B.—Grady Memorial Hospital, Atlanta, Georgia.
Kieffer, Victor Eau, Jr.—Missouri Baptist Hospital, St. Louis, Missouri.
King, George Wales—Lutheran Hospital, St. Louis, Missouri.
Kirkham, Lindsay Jack—Harper Hospital, Detroit, Michigan.
Lanier, Andrew Stephens, B.A.—U. S. Public Health Service, Baltimore, Maryland.
Lanier, Patricia Parnsworth, A.B.—Barnes Hospital, St. Louis, Missouri.
Lee, Robert Edward—Missouri Baptist Hospital, St. Louis, Missouri.
Leeper, Claude Kirkpatrick, A.B., B.S. In Ed.—St. Thomas Hospital, Nashville, Tennessee.
Luer, Carlyle August—St. Louis City Hospital, St. Louis, Missouri.
Lunceford, Tennie Mae, A.B.—Lutheran Deaconess Hospital, Chicago, Illinois.
Magallon, Dorothy Tharp—St. Louis Maternity Hospital, St. Louis, Missouri.
Martin, Jack MacPherson, B.S.—Queen's Hospital, Honolulu, Hawaii.
McCollum, Robert Blythe—Colorado General Hospital, Denver, Colorado.
McGrath, John Michael, A.B., B.S.—Robert Packer Hospital, Sayre, Pennsylvania.
Merrill, Robert Scott, B.S.—Columbia Hospital, Milwaukee, Wisconsin.
Moffet, James B., B.S.—Baptist Memorial Hospital, Memphis, Tennessee.
Nauert, Nicholas Henry, Jr.—St. Luke's Hospital, St. Louis, Missouri.
Nicholas, Charles Herbert, A.B.—Missouri Baptist Hospital, St. Louis, Missouri.
Niedermeyer, Edward Louis, A.B., B.S.—Decatur Hospital, St. Louis, Missouri.
Old, Jacob Wise, Jr., B.S.—Santa Barbara Cottage Hospital, Santa Barbara, California.
O'Neal, Lawrence Wayne—Barnes Hospital, St. Louis, Missouri.
Owen, James Wilson, Jr.—Barnes Hospital, St. Louis, Missouri.
Patt, Walter Henry, Jr., A.B.—Miami Valley Hospital, Dayton, Ohio.
Perry, Mitchell Horace, Jr.—Barnes Hospital, St. Louis, Missouri.
Petrakis, Nicholas Louis, A.B., B.S.—Minneapolis General Hospital, Minneapolis, Minnesota.
Ramsey, Claire Connelly, B.S.—St. Louis City Hospital, St. Louis, Missouri.
Rauber, Albert Paul, B.S.—St. Louis Children's Hospital, St. Louis, Missouri.
Rhoades, Albert Leonard, B.S.—U. S. Naval Hospital, Portsmouth, Virginia.
Richardson, Glenn Burton, B.S.—U. S. Naval Hospital, New Orleans, Louisiana.
Roberts, Stanley Eugene, A.B., B.S.—St. Luke's Hospital, St. Louis, Missouri.
Rutledge, Robert Cunningham, Jr., A.B.—U. S. Naval Hospital, Chelsea, Massachusetts.
Schmidt, Arthur Earl, Jr.—Presbyterian Hospital, Chicago, Illinois.
Schropp, Rutledge Clifton—St. Louis City Hospital, St. Louis, Missouri.
Schuman, Arnold, A.B.—Jewish Hospital, St. Louis, Missouri.
Scott, Walter Francis, Jr., A.B.—Lincoln Hospital, New York, New York.
Seabough, Loy Rush—St. Louis City Hospital, St. Louis, Missouri.
Seabough, William O. L., A.B., B.S.—St. Louis City Hospital, St. Louis, Missouri.
Shapleigh, John Blasdel, II—New York Hospital, New York, New York.
Sisk, James Cash, A.B.—St. Louis City Hospital, St. Louis, Missouri.
Slonim, Nathaniel Balfour—Salt Lake County General Hospital, Salt Lake City, Utah.
Smith, Theodore John Hubert, B.S.—Norwalk General Hospital, Norwalk, Connecticut.
Snyderman, Sanford Charles—Miami Valley Hospital, Dayton, Ohio.
Spohn, Robert Spruill, B.S.—Hospital Division, Medical College of Virginia, Richmond, Virginia.
Thiel, Stanley William—Barnes Hospital, St. Louis, Missouri.
Vellios, Frank—Barnes Hospital, St. Louis, Missouri.
Wald, Stanley Marvin—Michael Reese Hospital, Chicago, Illinois.
Walker, Willard Bartlett—Barnes Hospital, St. Louis, Missouri.
Webster, Robert Nelson—St. Louis City Hospital, St. Louis, Missouri.
Wiedershine, Leonard Jack, A.B.—Jewish Hospital, St. Louis, Missouri.
Wieman, Harry Kramer, A.B., B.S.—St. John's Hospital, Tulsa, Oklahoma.
Williams, Joseph Campbell—St. Louis Maternity Hospital, St. Louis, Missouri.
PRIZES AWARDED AT COMMENCEMENT
March 23, 1946

GILL PRIZE IN ANATOMY
Milo L. Heideman

THE GEORGE F. GILL PRIZE IN PEDIATRICS
Robert Cunningham Rutledge, A.B.

THE ALPHA OMEGA ALPHA BOOK PRIZE
Gladden V. Elliott, A.B.

THE BORDEN UNDERGRADUATE RESEARCH AWARD
Robert Cunningham Rutledge, A.B.

FOURTH YEAR CLASS (April, 1946 — June, 1947)

Abele, William Arved, B.S., Central Coll., '45—Boonville, Missouri.
Alexander, Jack Wingate, A.B., Univ. of Alabama, '44—Fayette Alabama.
Aebi, John Edmond—Belleville, Illinois.
Berner, Carroll Dean, A.B., Washington Univ., '43—Brazilian, Kansas.
Berner, Harvey R. —Lemay, Missouri.
Brody, Arnold Jason—Columbia, Missouri.
Brooker, Thomas Dudley, B.S., Central Coll., '45—Mexico, Missouri.
Brown, Paul Franklin—East St. Louis, Illinois.
Bryan, Theodore Louis—St. Louis, Missouri.
Busiek, Paul Joseph, B.S., Drury Coll., '45—Springfield, Missouri.
Clay, Charles Grover—Pleasant Hill, Missouri.
Cockrell, Beverly Randolph, Jr.—Fresno, California.
Coffelt, Carl Frederick, Jr.—Crest, Illinois.
Cohnberg, Rosellen Elaine, A.B., Washington Univ., '44—St. Louis, Missouri.
Coomer, Marvin—St. Louis, Missouri.
Coulter, Robert Lee, Jr.—St. Louis, Missouri.
Counts, Robert Milton—Richmond Heights, Missouri.
Dankner, Arnold—Clayton, Missouri.
Davis, Jack Manley, A.B., B.S., Univ. of Missouri, '45—Wheeling, Missouri.
Deer, William C., Jr., B.S., Univ. of S. D., '45—Pierre, South Dakota.
Dirks, Kenneth Ray—Wichita, Kansas.
Dunckel, William Caldwell, Jr., B.S., Univ. of Mo., '45—Tibitha, Virginia.
Edgerton, Winfield Dow—Poplar Bluff, Missouri.
Fadem, Robert Stanley—St. Louis, Missouri.
Farny, Graffen Clinton, Jr., B.S., Univ. of N. C., '41—Scotland Neck, N. C.
Farr, Allen Lewis, B.S., Millsaps Coll., '41—Edwards, Mississippi.
Forstyth, Bruce Todd—Clayton, Missouri.
Garner, Robert Carlyle—Webster Groves, Missouri.
Gibson, Glen Gale, B.S., Univ. of Kansas, '41, B.S. in Med., Univ. of S. D., '45—
Sioux Falls, South Dakota.
Gleicke, Ralph Victor—St. Louis, Missouri.
Goldenberg, David—St. Louis, Missouri.
Goldring, Sidney—St. Louis, Missouri.
Gregory, Jack A., Jr., A.B., Univ. of K. C., '44, B.S., Univ. of Mo., '45—Kansas
City, Missouri.
Greiner, Theodore Herman—St. Louis, Missouri.
Handler, Fred Phillip—St. Louis, Missouri.
Hankoy, Daniel Dwight—Council Bluffs, Iowa.
Haunser, William—Brooklyn, New York.
Hofsommer, Helen Louise—Webster Groves, Missouri.
Jankowski, Shirley A., A.B., Univ. of Wash., '43—Milwaukee, Wisconsin.
Keesey, Thomas Jr., A.B., Drury Coll., '45—Springfield, Missouri.
Kellogg, Huston Glenn, B.S., Yale Univ., '44—St. Louis, Missouri.
King, John DeWitt, B.S., Univ. of Mo., '45—St. Louis, Missouri.
Koffler, Irving Aaron, A.B., Univ. of Ala., '44—Mobile, Alabama.
Landau, William Milton—St. Louis, Missouri.
Launch, Robert Michael—Webster Groves, Missouri.
Longo, Frank Barnes, Jr.—Sedalia, Missouri.
Ludwig, James Behan, A.B., Stanford Univ., '44—St. Louis, Missouri.
Martin, Frederick William, Jr.—St. Louis, Missouri.
Mathes, Sydney Bernard—St. Louis, Missouri.
McBride, Bert Harris—St. Louis, Missouri.
McNed, Lee Andrew, Jr.—B.S. Univ. of Mo., '45—Webb City, Missouri.
McNeill, James Lewis—Winfield, Kansas.
Morgan, Margaret Agnes, A.B., '44; B.S. '45, West Virginia Univ., Bradenton, Florida.

Newport, Jack Winston—Springfield, Missouri.

McNeel, Lee Andrew, Jr., B.S., Univ. of Mo., '45—Webb City, Missouri.

Peden, Burnet Wilcox, A.B.—University City, Missouri.

Perry, William David, A.B., N. E. Mo. St. Teachers Coll., '43; B.S., Univ. of Mo., '45—Mound City, Missouri.

Poelck, Robert Theodore—Overland, Missouri.
Prieto, Helen Rhodes, A.B., Univ. of Ala., '45—Mobile, Alabama.
Rainey, Robert, B.S., Yale Univ., '44—St. Louis, Missouri.
Rapp, Harold Franklin, A.B., Washington Univ., '45—North Kansas City, Mo.
Regan, William Whitfield, B.S., Univ. of Mo., '45—Columbia, Missouri.
Russell, Henry Thomas—Sayre, Oklahoma.
Sato, George, Rivers, Arizona.
Shamblin, John LaFayette, Jr.—Tuscaloosa, Alabama.
Sheiblein, Milton—University City, Missouri.

Sheinbein, Milton—University City, Missouri.
Simpson, William Loyd, B.S., Univ. of Chicago, '44; Ph.D., Univ. of Chicago, '48—Webster Groves, Missouri.
Smith, Albert Goodin, Bonne Terre, Missouri.
Smith, Roger Alexander III—Smithfield, North Carolina.
Smith, Albert Berry—Quincy, Illinois.
Stacy, Archie Jackson, Jr., A.B., Univ. of Miss., '41—Tupelo, Mississippi.
Steed, Donald Bailey—Clayton, Missouri.

Tanner, Robert Harvey, B.S., Univ. of Mo., '45—Jefferson City, Missouri.
Tevis, William Wade, A.B., Municipal Univ. of Wichita, '44—Wichita, Kansas.
Thomas John Gaward, B.S., Univ. of Mo., '45—Kansas City, Missouri.

Wallace, Robert Nathan, B.S., Univ. of Mo., '45—Ava, Missouri.
Warshauer, Albert David, A.B., Univ. of N. C., '45—Wilmington, North Carolina.
Weaver, Richard Grey—Wichita, Kansas.
Weigel, Arthur Eugene—St. Louis, Missouri.
Wegman, Glenn Richard, B.S., Univ. of Mo., '45—Joplin, Missouri.
Winkleby, James Whitman, R.S., Univ. of Mo., '45—Norborne, Missouri.
Wolf, George Glenn, A.B., Fresno State Coll., '42—Fresno, California.
Wood, Edward Pratt—Toledo, Ohio.

Worth, Winfield Augustus, Jr., B.S., Univ. of N. C., '44—Elizabeth City, N. C. Total, 96.

THIRD YEAR CLASS (April 1946-June 1947)

Ackerman, Helen, A.B., Wheaton Coll., '36—Munnsville, New York.
Allen, Joseph Hunter, Jr.—Silkston, Missouri.
Arpe, Sarah Louise—St. Louis, Missouri.
Beard, Clay Franklin—Webster Groves, Missouri.
Beach, Richard Rouse, B.S., Univ. of Mo., '46—Kansas City, Missouri.
Behrens, Donald Theodore—St. Louis, Missouri.
Berry, Paul Thomas, A.B., Illinois Coll., '45—Kane, Illinois.
Birenbaum, Aaron—St. Louis, Missouri.
Bleich, Virgil Roland—Trenton, Illinois.
Brechner, Verne Lounell—Long Beach, California.
Brown, James Trig—Dewey, Oklahoma.
Burke Smith, Betty Jane—St. Louis, Missouri.
Burstein, Robert—University City, Missouri.
Caldanaro, Francis Joseph—St. Louis, Missouri.
Chambers, George Matthew—Pearl, Illinois.
Clark, Ernest James—Cedar Vale, Kansas.
Clark, Helen Estelle, B.S., Univ. of Wyoming, '44—Paris, Texas.
Cohen, Richard Raymond—St. Louis, Missouri.
Conk, James Keener, Jr.—St. Cloud, Florida.
BULLETIN OF WASHINGTON UNIVERSITY

Dunn, Robert Edgar—Franklin Grove, Illinois.

Evers, Robert Neale, B.S., Univ. of Mo., '46—Dyersville, Iowa.

Fox, Roger Edwin, B.S., Univ. of South Dakota, '46—Mentone, California.

Friedman, Robert Henry—Clayton, Missouri.

Garfield, Bernard Theodore—Poplar Bluff, Missouri.

Gauld, William Arnold, A.B., Webster Groves, Missouri.


Gentry, John Tillmon, B.A., Univ. of South Dakota, '46—Bellingham, Wash.

Gibb, Robert Pearse, B.S., State Coll. of Washington, '44—St. Louis, Missouri.

Gibson, Fred Junior, B.S., Washington Univ., '45; B.S., Univ. of Mo., '46—St. Louis, Missouri.

Gull, Forrest Leighton—St. Louis, Missouri.

Haggard, Arthur S.—Webster Groves, Missouri.

Hakim, David Albert—Worcester, Massachusetts.

Hall, Joe Bill—Checotah, Oklahoma.

Hanna, Richard Ewart, A.B., Univ. of South Dakota, '45—Parish, Louisiana.

Harting, Hugh Richard—St. Louis, Missouri.

Haugen, Roger Kent, B.S., Augustana Coll., '46; B.S., Univ. of S. D., '46—Sioux Falls, South Dakota.

Haynes, Robert Clark, Jr.—Marshall, Missouri.

Hendel, Richard Richard—St. Louis, Missouri.

Henderson, Boyd Crawford—Muncie, Indiana.

Huck, Richard Felix, Jr.—Quincy, Illinois.

Huckstep, Robert Arnold, A.B., Washington Univ., '43—St. Louis, Missouri.

Huebner, William Wilbur, B.S., Univ. of S. D., '46—Hibbing, Minnesota.


Johnson, Richard Boyd—Richmond Heights, Missouri.

Jones, Philip Newton—Billings, Montana.

Jordan, Stanley Youngs—Kalamazoo, Michigan.

Kaufman, Ruth, B.S., Univ. of Mo., '46—Versailles, Missouri.

Lamb, Wanda Marie, B.S., Univ. of Mo., '46—St. Louis, Missouri.

Lampe, Elfred Henry, B.S., Univ. of Mo., '46—Fierke City, Missouri.


Lerwick, Everett Roger, B.S., Univ. of Mo., '46—Lakeview, Oregon.

Maffei, Rudolph James—Portland, Oregon.

Malin, Jacob—Jackson Heights, New York.

Maree, Lawrence Earl, Jr.—St. Louis, Missouri.

McFerran, John Alvin, Jr.—Elko, Nevada.

McGowan, Hugh Dennis—Cobb, Kentucky.

McLean, James Steven—Hammond, Indiana.


Medley, Keith Graham—Post Falls, Idaho.

Mellon, Theodore McGlone—St. Louis, Missouri.

Mellin, Fred Thomas—St. Louis, Missouri.

Middelkamp, John Neil, B.S., Univ. of Mo., '46—Kansas City, Missouri.

Mills, Walter Clark, B.S., Univ. of Mo., '43—Sioux City, Missouri.

Morgan, Daniel Lawrence, A.B., Univ. of Kansas City, '44—Kansas City, Mo.


Nickel, James Francis, B.A., Univ. of Okla., '46—Idabel, Oklahoma.

Norbury, Frank Barnes—Jacksonville, Illinois.


Perkoff, Gerald Thomas—Clayton, Missouri.

Petty, Robert William—Ogden, Utah.

Porpora, Arthur Anastasios, A.B., Washington Univ., '46—St. Louis, Missouri.

Post, Lawrence Tyler, Jr.—St. Louis, Missouri.

Raymond, Bruce Allen, B.S., Univ. of S. D., '46—Portland, Oregon.


Roche, Paul Jay, B.S., Univ. of Mo., '46—Hannibal, Missouri.

Rohr, Arthur George, A.B., Washington Univ., '46—St. Louis, Missouri.

Schuman, Stanley Harold—St. Louis, Missouri.

Schweitzer, Reuben Otto—Maplewood, Mo.

Smead, James Grafton—Tulsa, Oklahoma.

Stein, Arthur Henry—Webster Groves, Missouri.

Sterz, Thomas Neustad—Memphis, Tennessee.

Spero, Samuel L.—St. Louis County, Missouri.

Strode, Walter Sterling, B.A., Williams Coll., '46—Honolulu, T. H.

Suitsman, Lorraine Carl, B.S., Univ. of Mo., '46—Hannibal, Missouri.

Stevenson, Robert M., B.A.—Weatherby, Missouri.

THE SCHOOL OF MEDICINE

Tietjen, Fred Olin, B.S., Univ. of Mo., '36—Jefferson City, Missouri.
Warden, Duane D.—Grant City, Missouri.
Winkle, Lee Frederick—St. Louis, Missouri.
Wylde, Elliott Ivan—St. Louis, Missouri.

SECOND YEAR CLASS (September, 1946 to June, 1947)

Au, Man Hing, B.S., '36; M.S., '39, University of Hawaii—Honolulu, T. H.
Bauman, William Fenwick—Medford, Oregon.
Baun, Doris May, B.S., Western Reserve Univ., '43—Cleveland, Ohio.
Bond, Marcus Buster—Eton, Missouri.
Breddenthal, Ward Brazelton—Kansas City, Missouri.
Brun, Kenneth—St. Charles, Missouri.
Bumgarner, Roger William—Odessa, Missouri.
Cannon, William Joseph—Elshberry, Missouri.
Downen, John Virgil—St. Louis, Missouri.
Droegemueller, Clarence Frederick, B.A., Washington Univ., '44—Birnamwood, Wisconsin.
Duncan, James Thomas, Jr., A.B., William Jewell Coll., '43—Smithville, Missouri.
Felton, Warren Locker—Parnville, Oklahoma.
Fenger, Marvin George—St. Louis, Missouri.
Fischer, John Robert—Austin, Minnesota.
Forrester, Ralph Haynes—Tulsa, Oklahoma.
Gibbons, Gujarat Albert—Holland, Michigan.
Gray, Mary Jane, A.B., Swarthmore Coll., '45—University City, Missouri.
Green, Donald Crichtfield—Great Falls, Montana.
Happel, Elizabeth, A.B., Smith Coll., '45—St. Louis, Missouri.
Hawkins, James Connell—Lincoln, Nebraska.
Hebert, William Morrison—Fresno, California.
Heideman, Milo Lawrence, Jr.—St. Louis, Missouri.
Hessing, John Warren—St. Louis, Missouri.
Hilt, John Edward—Wahoo, Nebraska.
Innes, Robert Clapp—Fayette, Missouri.
Jaeger, Joseph Nicholas—Jackson, Missouri.
Jernigan, James Austin, B.S., Mississippi Coll., '45—Tupelo, Mississippi.
Jick, Sidney—University City, Missouri.
Kelly, Patrick Raymond—Springfield, Missouri.
Kubinek, Roland William—Eagle River, Wisconsin.
Kurrhara, Louis—Hunt, Idaho.
Larson, Ralph Terry—Kirkwood, Missouri.
Levitt, Joseph—St. Louis, Missouri.
Lipsitz, Ervin—St. Louis, Missouri.
Livingston, Harry Hamann—Warren, Ohio.
Lord, Robert Herluf—University City, Missouri.
Magallon, Robert Adrian—Growville, Washington.
McKee, Maude Margaret—College Park, Georgia.
McKee, Margaret Burge, B.A., Univ. of Mo., '38—Independence, Missouri.
McGinty, Charles Patterson, B.S., A.B., S. E. Mo. Teachers Coll., '45—Cape Girardeau, Missouri.
Moore, Robert—Kirksville, Missouri.
Munro, Gordon A.—Grand Junction, Colorado.
Ohtani, John Mineo—Honolulu, T. H.
Page, Lot Bates—West Newbury, Massachusetts.
Perry, Elton Turley—Hannibal, Missouri.
Petersen, Shirley Jane, B.S., Univ. of Chicago, '44—Park Ridge, Illinois.
Flutykowski, Felicia Rose, B.S., Univ. of Chicago, '45—Toledo, Ohio.
Raskin, Sigwin B., Ph.D., Univ. of Berne, '35; M.A., Univ. of Toronto, '42—New York, New York.
Raso, Anthony James—Boston, Massachusetts.
Rosenau, Marvin—University City, Missouri.
Sargent, Harold John—Newfoundland, New Jersey.
Schiele, Herbert Sigmund, Jr.—St. Louis, Missouri.
Schulz, Dale Mether, A.B., Miami Univ., '40; M.S., Washington Univ., '43—Middletown, Ohio.
Selle, Beatrice Janet, A.B., Stanford Univ., '45—Oakland, California.
Smiley, Gertrude Hiser, A.B., Grinnell Coll., '41—Grinnell, Iowa.
Smith, Kathleen, B.S., Univ. of Arkansas, '44—Peytonville, Arkansas.
Smith, Sidney Norman—St. Louis, Missouri.
Stein, Marvin—St. Louis, Missouri.
Stull, Fred Edward, Jr.—Jonesboro, Arkansas.
Sugiyama, Kenneth, B.S., Univ. of Denver, '43—Denver, Colorado.
Vandergon, Keith Gordon—Delano, Minnesota.
Walsh, Thomas Joseph, B.S., Univ. of Richmond, '46—St. Louis, Illinois.
White, Laurens Park, St. Louis, Missouri.
Whitmore, John Stewart—Mt. Lebanon, Pennsylvania.
Wood, James Albion—University City, Missouri.
Yost, Paul Wesley, B.S., McKendree Coll., '42—West Frankfort, Illinois.

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FIRST YEAR CLASS  (September, 1946 to June, 1947)

Adams, Walter Crawford, Jr., B.S., Univ. of Ark., '46—Pebble Beach, California.
Advocate, Seymour, A.B., Brooklyn Coll., '37; M.A., Univ. of Ill., '38—Brooklyn, New York.
Barbour, Victor Hill, B.S., Univ. of Idaho, '42—Moscow, Idaho.
Becker, Joseph Smith, A.B., Washington Univ., '45—St. Louis, Missouri.
Bergman, Dorothy Anne, B.S., Univ. of Texas, '46—Laredo, Texas.
Bronfenbrenner, Alice, A.B., Bryn Mawr Coll., '46—St. Louis, Missouri.
Brown, Elmer Burrell, Jr., A.B., Oberlin Coll., '46—Richmond Heights, Missouri.
Buchanan, Thomas Addison, Jr.—New London, Iowa.
Burchfield, Robert Danner—San Jose, California.
Busch, Joseph Sherman—Wilmette, Illinois.
Cady, Edwin Loomis, Jr.—Kansas City, Missouri.
Caldwell, Fred Thomas, Jr., B.S., Baylor Univ., '46—Ashdown, Arkansas.
Catanzaro, Rudolph Edward—St. Louis, Missouri.
Chamberlain, William Norman—East St. Louis, Illinois.
Daley, Dorothy Helen—East Cleveland, Ohio.
Davis, Edwin, B.S. in E.E., Univ. of Texas, '46—Fort Worth, Texas.
Eagleton, Hank David, A.B., Amherst Coll., '46—St. Louis, Missouri.
Emura, Edward Tatsukichi, B.S., Univ. of Hawaii, '45—Honolulu, Hawaii.
Erlandson, Myron E., A.B., Oberlin Coll., '46—Shaker Heights, Ohio.
Eschenberg, Katharyn Maruella, A.E., Miami Univ., '46—Webster Groves, Missouri.
Feldman, Muriel—St. Louis, Missouri.
Finger, Donald Harvey—St. Louis, Missouri.
Fuller, Roger Lee, B.S., Murray State Teachers Coll., '42—Carrollton, Kentucky.
Gabriel, Wesley E., B.A., Pacific Lutheran Coll., '46; M.S., Univ. of Mich., '48—Washington, D.C.
Goldstein, Albert, S.B., Univ. of Chicago, '42—Chicago, Illinois.
Gratz, Raymond Joseph—Jefferson City, Missouri.
Gray, Helen Marie, A.B., Vassar Coll., '45—Clayton, Missouri.
Hammontree, John Marion, B.S., Purdue Univ., '41—West Lafayette, Indiana.
Harrison, John Albert, B.S., Washington Univ., '46—St. Louis, Missouri.
Heinrichsmeier, Ann Marie—St. Louis, Missouri.
Henry, John Kelly—Mazeo, Mississippi.
Hillman, Frederick Joseph—Ottawa, Illinois.
Holmes, David Reed, B.S., Southwest Mo. St. Teachers Coll., '42—Springfield, Missouri.
Howard, Frank Albert—Enid, Oklahoma.
Hurst, Peter Leopold—Orange, New Jersey.
Jwano, Joseph Hifua, A.B., Washington Univ., '46—Honolulu, T. H.
James, Norman Alva, B.S., Central Mo. St. Teachers Coll., '43—Vienna, Missouri.
Jordan, Meredith Cleone—St. Louis, Missouri.
Kilgore, James Marvin, Jr.—Texas City, Texas.
King, Thomas Lee, B.S., Trinity Univ., '46—San Antonio, Texas.
Krahenbuhl, Marcela May, A.B., Univ. of Kansas City, '46—Kansas City, Missouri.
Leong, James Tim—Honolulu, T. H.
Levin, Charlotte Elizabeth—St. Louis, Missouri.
Livingston, Sidlebels Oco, B.S., Central Mo. St. Teachers Coll., '46—Pleasant Hill, Missouri.
Lonsway, Maurice Julius, Jr., A.B., Washington Univ., '46—Richmond Heights, Missouri.
Lutz, Harriott Ewing, B.A., Univ. of Colo., '46—Augusta, Kansas.
March, Jack Franklin—Chattanooga, Tennessee.
Margetts, Lester Harold, Jr., A.B., Univ. of Mont., '46—Missoula, Montana.
Mills, James DeWitt, Jr.—St. Louis, Missouri.
Mond, Marianne—Chicago, Illinois.
Murphy, Thomas Edward, B.S., Univ. of Washington, '41—Seattle, Washington.
Obourn, Robert Lyle, A.B., Washington Univ., '41—St. Louis, Missouri.
O'Keefe, Joseph Daman, A.B., Univ. of Colorado, '46—Clayton, Missouri.
Oppenheimer, Bertram Jay, A.B., Cornell Univ., '43; B.S., New York Univ., '44—
Yonkers, New York.
Patterson, Juanita Mae, B.S., State Coll. of Washington, '46—Pullman, Wash.
Payne, William Spencer—Clayton, Missouri.
Raad, Mohamed Ali—Tripoli, Lebanon.
Rader, George Bailey—Kansas City, Missouri.
Ramsey, Loyd Hamilton, B.S., Univ. of Kentucky, '42—Lexington, Kentucky.
Reid, Newton Howard—Oswege, New York.
Rochman, Robert, A.B., Washington Univ., '42—St. Louis, Missouri.
Rukes, Junior Max, A.B., '40; M.A., '42, Ind. St. Teachers Coll.—Rosedale, Indiana.
Sampsel, Marion Herbert—Sherman, Texas.
Sciarrotta, Joseph Vincent—Cleveland, Ohio.
Skerbeck, Frank Joseph B.S., State Teachers Coll., '42 (Wisconsin)—Spencer, Wisconsin.
Stewart, Robert Bell, A.B., Univ. of Mo., '41—Springfield, Missouri.
Streeter, Ralph Thomas—Superior, Wisconsin.
Thomason, Robert Edgar, B.S., Drury Coll., '42—Bolivar, Missouri.
Wahlert, Mary Louise, A.B., Washington Univ., '46—St. Louis, Missouri.
Walters, John E.—St. Louis, Missouri.
Warner, George Ketchum—St. Louis, Missouri.
Wetzel, Gloria Jean, B.S., State Coll. of Washington, '46—Moxee City, Wash.
Wibbens, Howard Lawrence, A.B., Univ. of Mo., '41—St. Louis, Missouri.
Wilson, Arnaud Joseph, B.S., Univ. of Notre Dame, '46—Anna, Illinois.

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